

LINEAR PRECISION LINEAR SPEED

综合
样本



CAT F.2502

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2013年，莱盟机器人在中国港口城市宁波创立，专注智能制造领域，致力于为行业自动化提供系统解决方案，推动中国产业升级。

秉承创新为先导的理念，莱盟深耕自动化底层技术，集结智能装备行业尖端人才，持续自主创新，为全球客户提供直线模组系列产品及多轴复杂型解决方案。

莱盟以自动化基因优势构建智能模块化工厂，通过全流程数字化控制，精益求精、匠心营造，以智慧打磨产品，为客户提供优质产品。

莱盟以高效务实的态度，为客户提供切实的解决方案、高品质的产品和专业的服务。产品广泛应用于新能源电池、新能源汽车、光伏、3C电子、半导体、液晶面板、生物医药、工程机械等领域。

自成立以来，莱盟在全国多个城市设立服务点，快速响应客户需求。在国际市场上，莱盟积极参与国际竞争，业务覆盖全球30多个国家和地区，为客户提供超过2300个解决方案。

莱盟专注智造未来，以推动中国工业产业升级为使命，助力中国智能制造，致力成为智能装备企业最值得信赖的合作伙伴。

Limon, founded in 2013 in Ningbo, China, is dedicated to intelligent manufacturing solutions, with the goal of elevating China's industries.

With a focus on innovation, the company provides global clients with linear module products and advanced multi-axis solutions, as well as automation expertise.

Limon leverages its automation advantage to build a smart modular factory with comprehensive digital control, ensuring high-quality product production.

Following an efficient approach, the company provides practical solutions across a wide range of industries, including new energy, electronics, and engineering.

Limon competes actively in over 30 countries, delivering over 2300 solutions. The company is dedicated to accelerating China's industrialization and aspires to be a reliable partner in intelligent equipment.

产品综述 / Overview

- 全面的多轴组合产品
 - 完美适用各类控制器多点定位
 - 多点定位
 - 多元化的驱动件选择
 - 选配件多,适用性强
 - 精度高,刚性强
- Comprehensive Range Of Mounting Accessories For Multi-Axis
 - Optimally Adapted To Motor Controller's Multilateration
 - Multilateration
 - Wide Range Of Options For Attached Driving Units
 - Highly Adaptable, Thanks To Wide Choice Of Mounting And Attachment Options
 - High Precision,Strong Rigidity

GSC系列模组 / GSC Series Guide rail embedded slide module

- 产品型号:
GSC 40 / 50 / 50S / 80 / 80S / 120 / 120S
 - 高刚性
 - 不易发尘
 - 体积小
- Part No.:GSC 40 / 50 / 50S / 80 / 80S / 120 / 120S
 - High Rigidity
 - Reduce dust
 - Compact Design
- 
- P1-P23

GTC系列模组 / GTC Series Module

- 产品型号: GTC 50 / 80
 - 高刚性
 - 不易发尘
 - 体积小
- Part No.:GTC 50 / 80
 - High Rigidity
 - Reduce dust
 - Compact Design
- 
- P25-P31

GCC系列模组 / GCC Series Module

- 产品型号: GCC 40 / 50 / 80/ 120
 - 高刚性
 - 不易发尘
 - 体积小
- Part No.:GCC 40 / 50 / 80/ 120
 - High Rigidity
 - Reduce dust
 - Compact Design
- 
- P33-P45

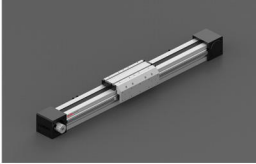
KS系列模组 / KS Series Module

- 产品型号: KS 40 / 50 / 60 / 86 / 100
 - 高刚性
 - 模组化
 - 四方等负荷
- Part No.:KS 40 / 50 / 60 / 86 / 100
 - High Rigidity
 - Modular Design
 - Equal Load in Four Directions
- 
- P47-P61

欧标半密式同步带驱动型 / European standard semi-dense synchronous belt drive type

- 产品型号: ITO 40 / 60 / 60L / 80 / 80L / 100 / 100L / 140 / 140L / 160
 - 直线导轨导向
 - 高载荷
 - 同步带驱动半密式
- Part No.: ITO 40 / 60 / 60L / 80 / 80L / 100 / 100L / 140 / 140L / 160
 - With Linear Guide
 - High Characteristic Load Values
 - Open Type Driven By Belt
- 
- P63-P71

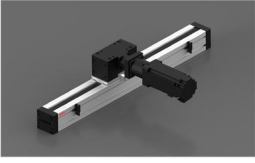
欧标半密式同步带驱动侧轨加强型 / European standard semi-dense synchronous belt drive side rail reinforced type

- 产品型号:
HTO-60/ 80/80L/100/100L/140/140L
 - 直线导轨导向
 - 高载荷
 - 同步带驱动半密式
- Part No.: HTO-60/ 80/80L/100/100L/140/140L
 - With Linear Guide
 - High Characteristic Load Values
 - Open Type Driven By Belt
- 
- P73-P78

欧标全密式同步带驱动型 / European standard fully dense synchronous belt drive type

- 产品型号:
ITC - 60 / 60L / 80 / 80L / 100 / 100L
 - 直线导轨导向
 - 高载荷
 - 同步带驱动全密式
- Part No.: ITC - 60 / 60L / 80 / 80L / 100 / 100L
 - With Linear Guide
 - High Characteristic Load Values
 - Clean Room Type Driven By Belt
- 
- P79-P83

欧标Z轴提升专用型 / European standard Z-axis lifting special type

- 产品型号: ITZ-60
 - 马达固定, 不增加移动端负载。
 - 动态性能好
 - 标准轨道
- Part No.:ITZ-60
 - Motor Fixed, not increase mobile terminal load
 - Good dynamic performance
 - Standard Rail
- 
- P85-P87

欧标Z轴提升专用型 / European standard Z-axis lifting special type

- 产品型号: HTZ-60 / 80
 - 马达固定, 不增加移动端负载。
 - 动态性能好
 - 标准轨道
- Part No.:HTZ-60 / 80
 - Motor Fixed, not increase mobile terminal load
 - Good dynamic performance
 - Standard Rail
- 
- P88-P91

亚标半密式螺杆驱动型 / Sub-standard semi-tight screw drive type

- 产品型号:
YSO - 135 / 135G / 170 / 220
 - 高载荷
 - 高精度
 - 半密型
- Part No.: YSO - 135 / 135G / 170 / 220
 - High Characteristic Load Values
 - High Precision
 - Open Type Driven By Ball Screw
- 
- P93-P 107

亚标全密式螺杆驱动型 / Sub-standard full-tight screw drive type

- 产品型号: YSC - 135 / 135G / 170 / 220
 - 高载荷
 - 高精度
 - 全密型
- Part No.: YSC - 135 / 135G / 170 / 220
 - High Characteristic Load Values
 - High Precision
 - Clean Room Type Driven By Ball Screw
- 
- P109-P121

亚标半密式同步带驱动型 / Sub-standard semi-dense synchronous belt drive type

- 产品型号: YTO -135/170/220
 - 速度快
 - 高加速度
 - 半密型
- Part No.:YTO-135/170/220
 - High Speed
 - High Acceleration
 - Open Type Driven By Belt
- 
- P123-P141

亚标全密式同步带驱动型 / Sub-standard full-density synchronous belt drive type

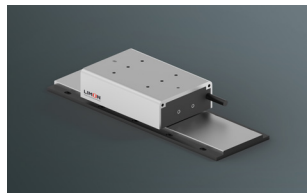
- 产品型号: YTC - 135 / 170 / 220
 - 速度快
 - 高加速度
 - 全密型
- Part No.:YTC - 135 / 170 / 220
 - High Speed
 - High Acceleration
 - Clean Room Type Driven By Belt
- 
- P143-P161

半密式齿轮齿条驱动型 / Semi-tight rack and pinion drive type

- 产品型号: YRO-170/220 /270
 - 高荷载
 - 高精度
 - 半密型
- Part No.YRO-170/220/270
 - High Characteristic Load Values
 - High Precision
 - Open Type
- 
- P163-P169

有铁芯式线性马达驱动 / Linear Motor Driven Type With Iron Core

- 产品型号:LC50/75/100/125
- Pant No.: LC50/75/100/125
- 推力大
- High thrust
- 响应速度高
- High response speed



P171-P176

- 产品型号:GLC-50/80
- Part No.:GLC-50/80
- 内嵌式导轨
- Embedded guide rail
- 高经济性
- High cost effective
- 高精度
- High Precision
- 体积小
- Compact Design
- 安装尺寸同GSC
- Installation dimensions are the same as GSC



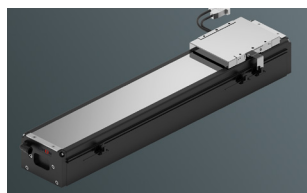
P178-P181

- 产品型号:RLO- 125/150/175/220/260
- Part No.: RLO- 125/150/175/220/260
- 大推力
- High thrust
- 高精度
- High Precision
- 高性价比
- High cost performance



P182-P196

- 产品型号:RLC- 125/150/175/220
- Part No.: RLC- 125/150/175/220
- 大推力
- High thrust
- 高精度
- High Precision
- 高性价比
- High cost performance



P197-P208

多轴组合 / Mutiaxis System

- 多轴组合安装
- Multi-axis System Installation
- 选配件多样化
- Variety Choices Of Components
- 个性化定制与服务
- Personalized Customization And Service
- 交期快
- Fast Delivery



P210-P212

驱动计算 / Drive Calculations

挠度计算 / Deflection Calculations

词汇表 / Glossary

辅助滑块/ Auxiliary Block

P213-P216

P217-P220

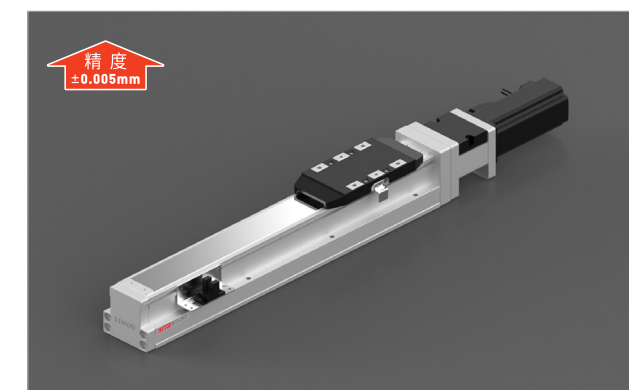
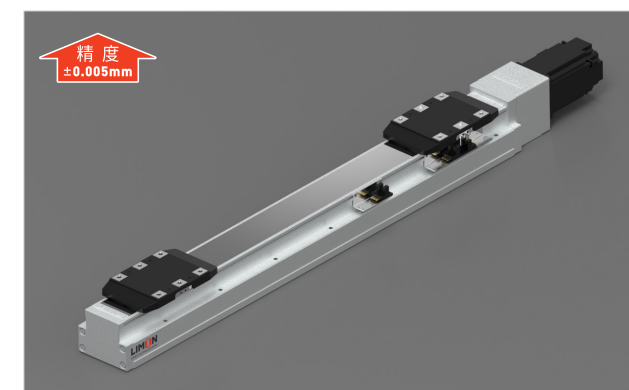
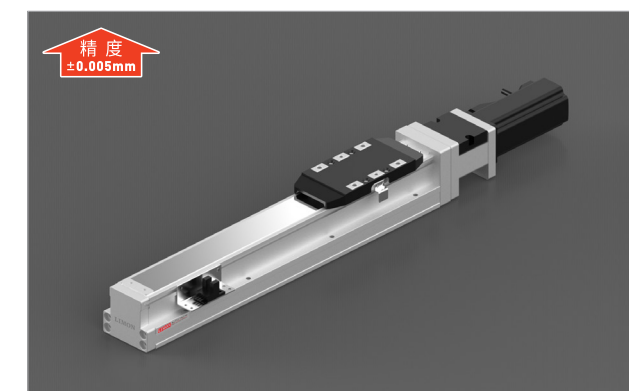
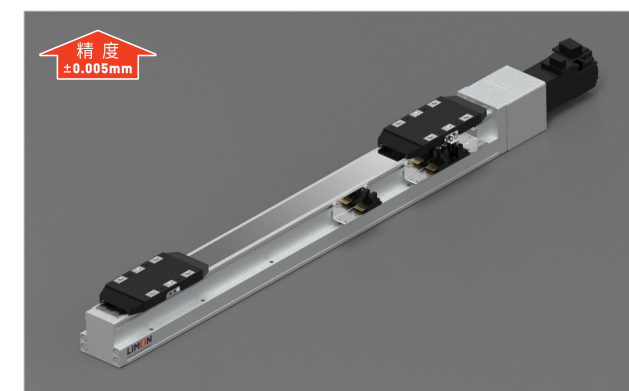
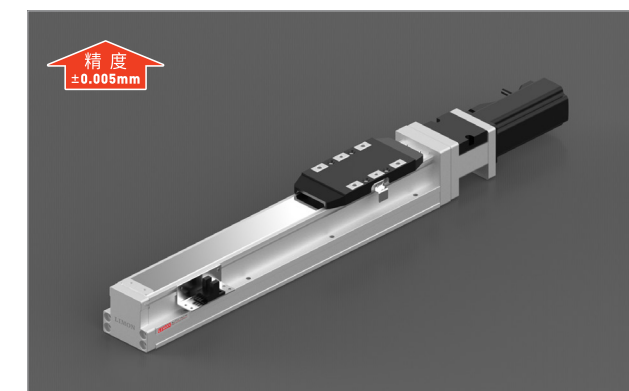
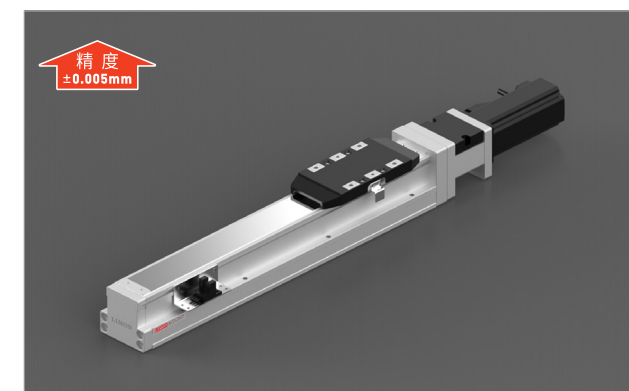
P221-P224

P225

LIMON
PRECISION&SPEED

导轨内嵌式滑台模组

Guide rail embedded slide module

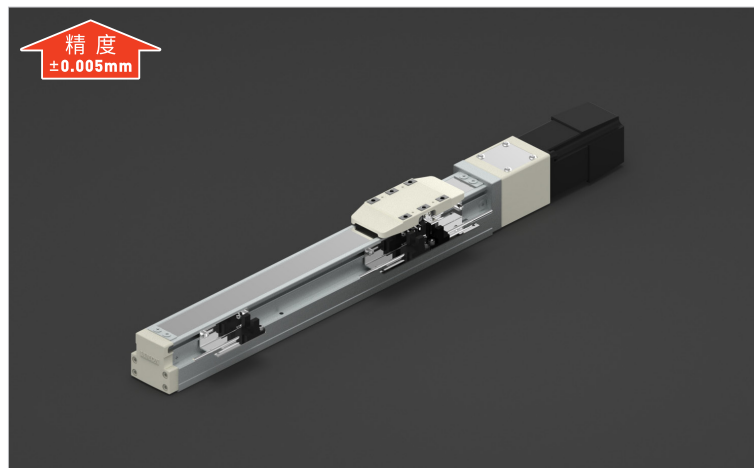


GSC 40 导轨内嵌式滑台模组

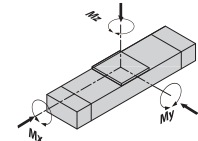
Guide rail embedded slide module

订购型号代码 Code

GSC 40	L06	500	MS	M10	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead	行程 Stroke	马达方向 Motor Mounting Direction	马达厂牌、功率 Motor Brand, Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	06 12	50-800, 间隔Gap50	MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting	M 三菱 Mitsubishi 10 100W P 松下 Panasonic 10 100W	P1: 1个 1PCS P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark: NoSensor	未标记: 无 NoMark: NoSensor



最大静态力和力矩 Max Static Forces And Torques



Type	GSC 40
■M(x) (N · m)	116
■M(y) (N · m)	79
■M(z) (N · m)	79

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

马达安装方向 Motor Mounting Position Version

MS Type 马达直接安装 Straight Motor Mounting	ML Type 马达左折安装 Left Motor Mounting	MR Type 马达右折安装 Right Motor Mounting	MD Type 马达下折安装 Down Motor Mounting

基本规格 Basic Specification

GSC 40			
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	±0.005	
	螺杆导程 Ball Screw Lead (mm)	06	12
	最高速度 Maximum Speed (mm/s)	300	600
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	20
		垂直使用Vertical (kg)	8
基本规格 Basic Specification	定格推力 Rated Thrust (N)	141	71
	标准行程 Stroke (mm)	50~800 mm / 50 Pitch	
	AC伺服马达容量 AC Servo Motor Output (W)	100	
	滚珠螺杆外径 Ball Screw Diameter (mm)	C7 Ø10	
	联轴器 Coupling (mm)	7 × 8	
基本规格 Basic Specification	原点感应器 Home Sensor	PM-Y45(NPN)	

容许负载力矩表 Allowable Overhang

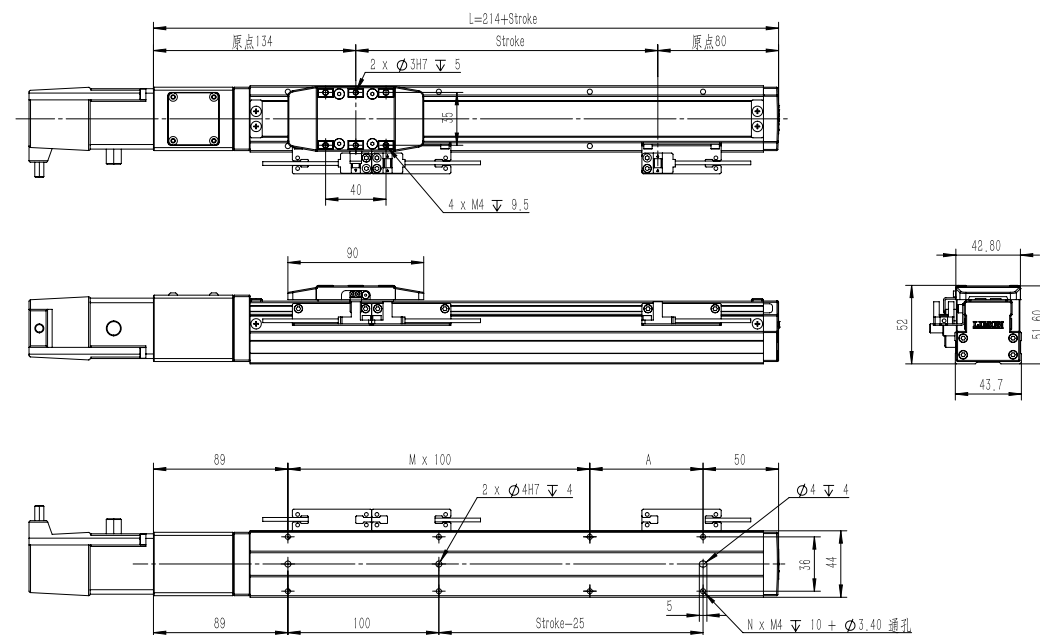
单位Unit:mm			
水平安装 Horizontal Installation	A	B	C
	10kg	550	53
	15kg	350	32
	20kg	250	22
壁挂安装 Wall Installation	A	B	C
	10kg	72	52
	15kg	45	32
	20kg	31	22
垂直安装 Vertical Installation	A	C	
	4kg	150	150
	8kg	75	75
	-	-	-
单位Unit:mm			
导程 06 lead	A	B	C
	8kg	305	59
	10kg	240	45
	12kg	195	37
导程 12 lead	A	B	C
	8kg	305	59
	10kg	240	45
	12kg	195	37

导轨内嵌式滑台模组 GSC 40

Guide rail embedded slide module

GSC 40-MS 马达直接安装 Straight Motor Mounting

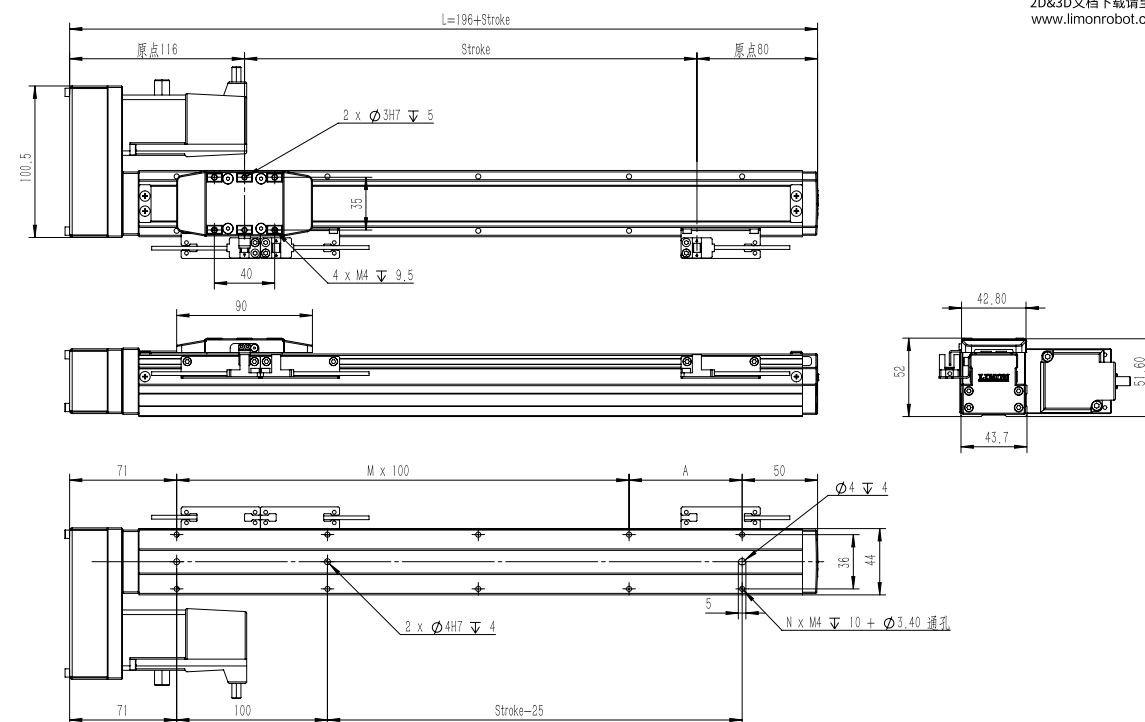
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行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	264	314	364	414	464	514	564	614	664	714	764	814	864	914	964	1014
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight (kg)	0.95	1.12	1.29	1.47	1.65	1.83	2.01	2.19	2.37	2.55	2.73	2.91	3.09	3.27	3.45	3.63

GSC 40-ML 马达左折安装 Left Motor Mounting

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行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight (kg)	1.04	1.22	1.4	1.58	1.76	1.94	2.12	2.3	2.48	2.66	2.84	3.02	3.2	3.38	3.56	3.74

GSC 40 导轨内嵌式滑台模组
Guide rail embedded slide module

GSC 40-MR
马达右折安装 Right Motor Mounting

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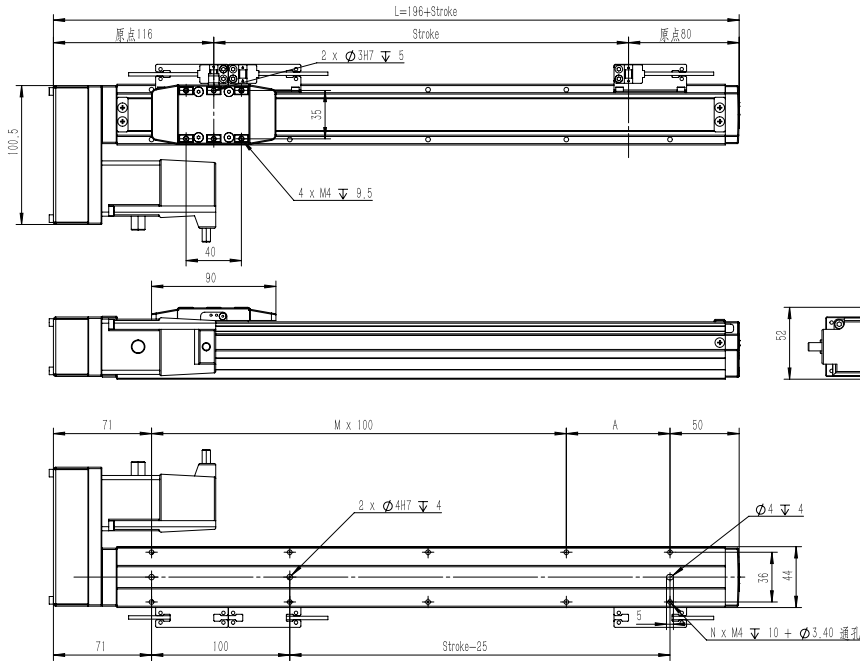


Table with 17 columns (Stroke 50-800mm) and 5 rows (L, A, M, N, Weight).

GSC 40-MD
马达下折安装 Down Motor Mounting

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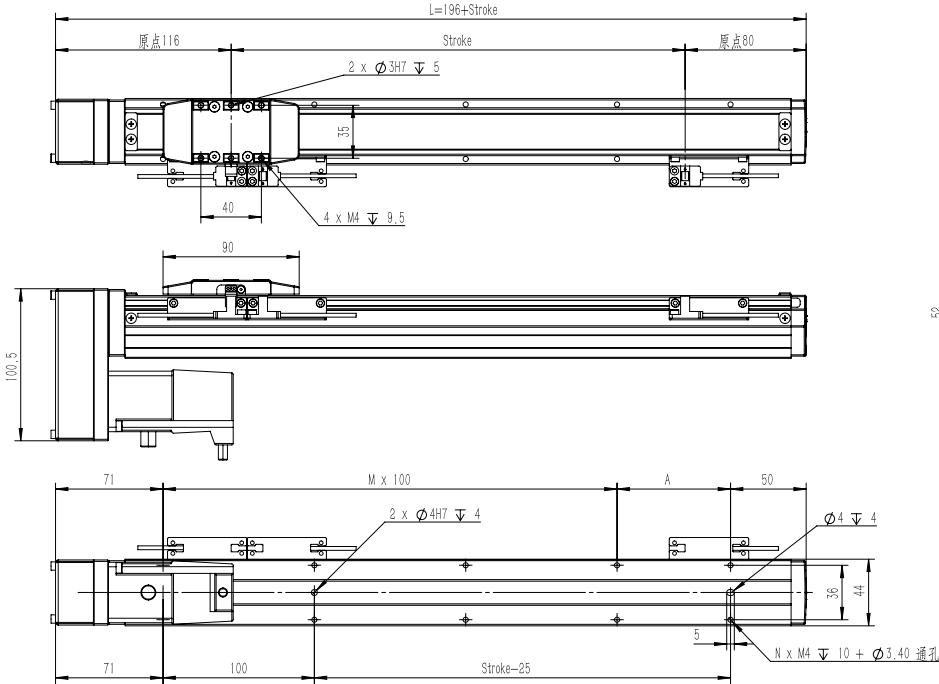
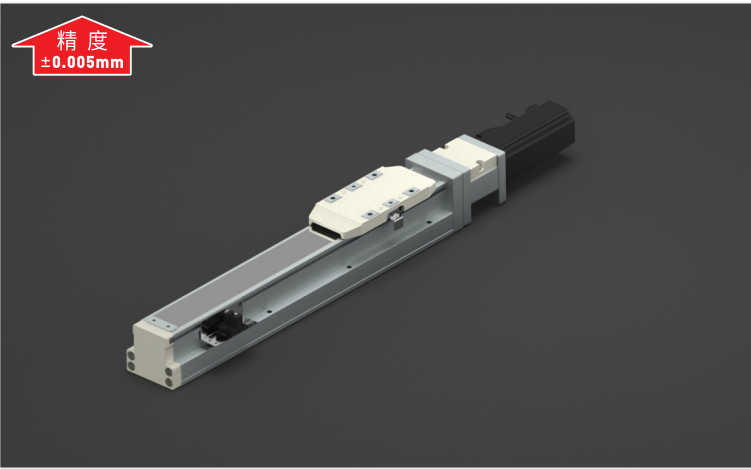


Table with 17 columns (Stroke 50-800mm) and 5 rows (L, A, M, N, Weight).

导轨内嵌式滑台模组 GSC 50
Guide rail embedded slide module

订购型号代码 Code

Configuration code breakdown: GSC 50, L10, 500, MS, M10, P3, A001 with sub-specifications.



最大静态力和力矩
Max Static Forces And Torques

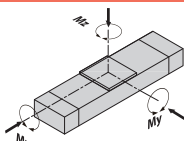
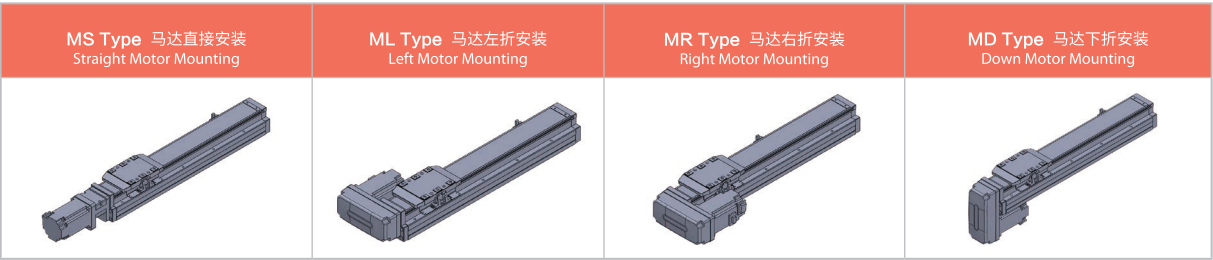


Table with 2 columns (Type, GSC50) and 3 rows (M(x), M(y), M(z)).

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:
(Mx max. + My max. + Mz max.) / 3 ≤ 1

马达安装方向 Motor Mounting Position Version



基本规格 Basic Specification

Table with 3 columns (Parameter, Value 1, Value 2) for GSC 50 specifications.

容许负载力矩表 Allowable Overhang

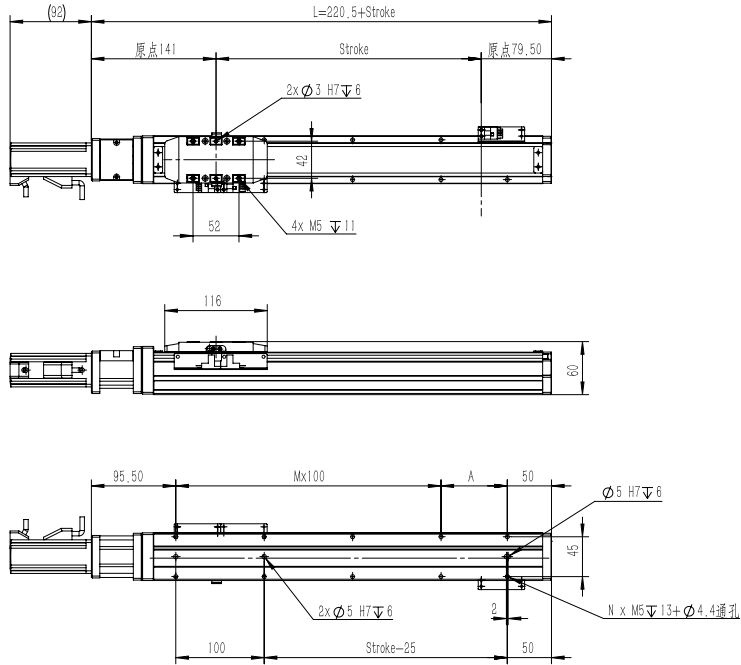
Table with 4 columns (Installation Type, Load, A, B, C) showing allowable overhang values.

GSC 50 导轨内嵌式滑台模组

Guide rail embedded slide module

GSC 50-MS 马达直接安装 Straight Motor Mounting

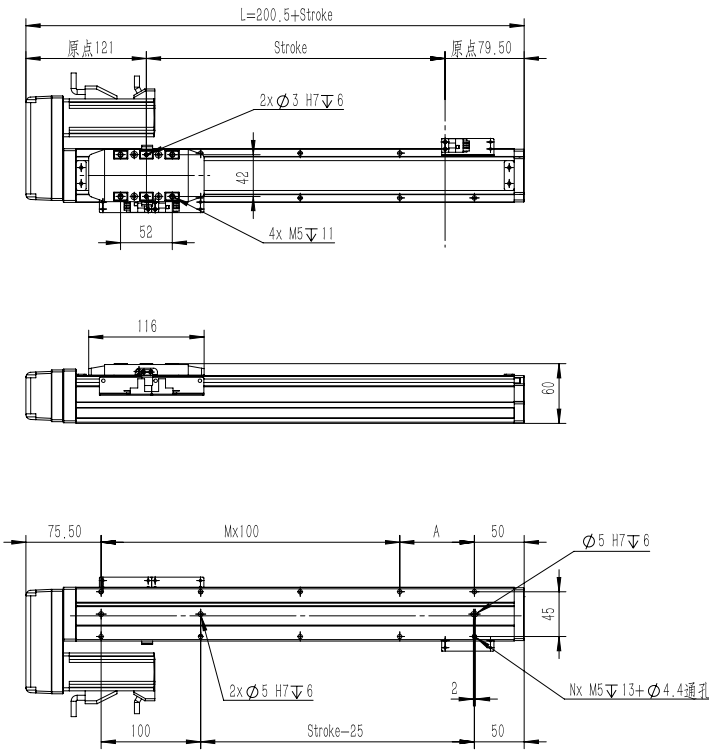
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行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight (kg)	0.97	1.16	1.36	1.56	1.75	1.95	2.15	2.34	2.54	2.74	2.93	3.13	3.33	3.52	3.72	3.92

GSC 50-ML 马达左折安装 Left Motor Mounting

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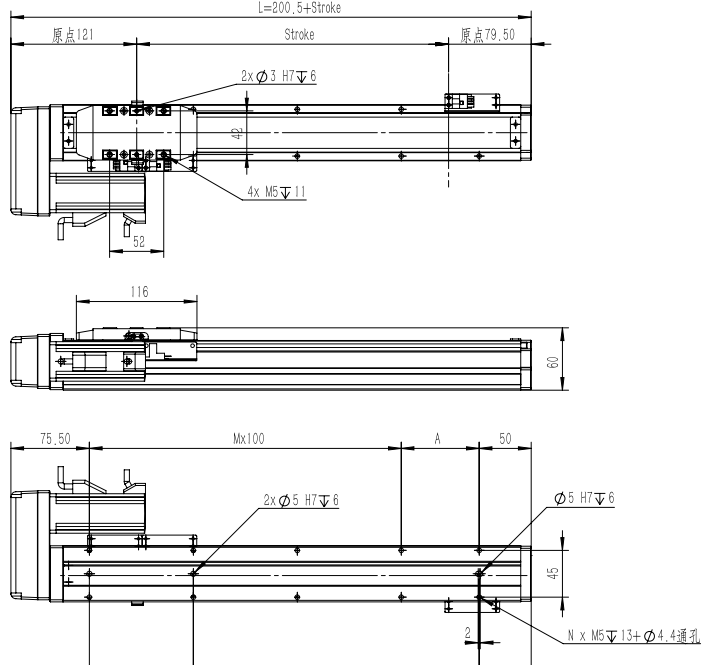
行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250.5	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight (kg)	1.14	1.33	1.53	1.73	1.92	2.12	2.32	2.51	2.71	2.91	3.1	3.3	3.5	3.69	3.89	4.09

导轨内嵌式滑台模组 GSC 50

Guide rail embedded slide module

GSC 50-MR 马达右折安装 Right Motor Mounting

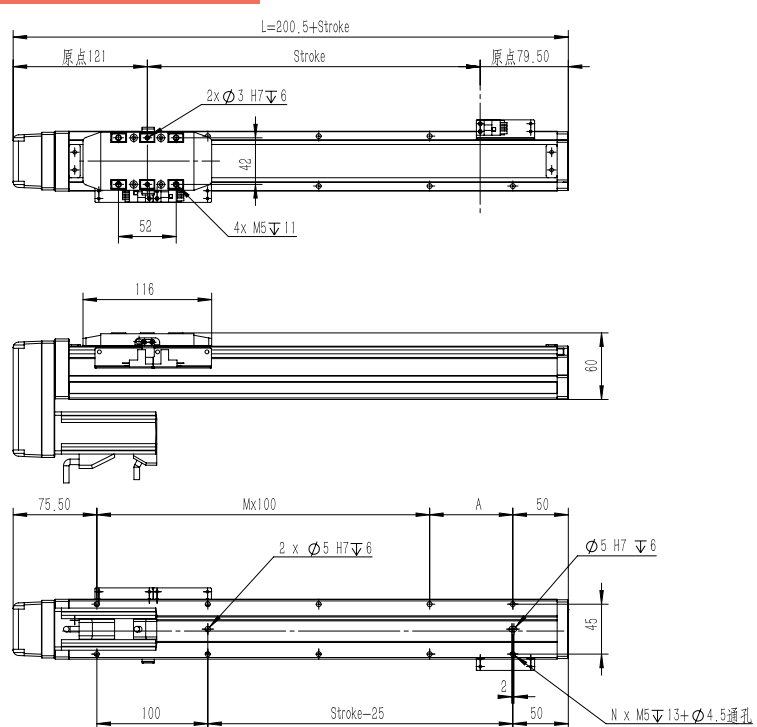
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行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250.5	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight (kg)	1.14	1.33	1.53	1.73	1.92	2.12	2.32	2.51	2.71	2.91	3.1	3.3	3.5	3.69	3.89	4.09

GSC 50-MD 马达下折安装 Down Motor Mounting

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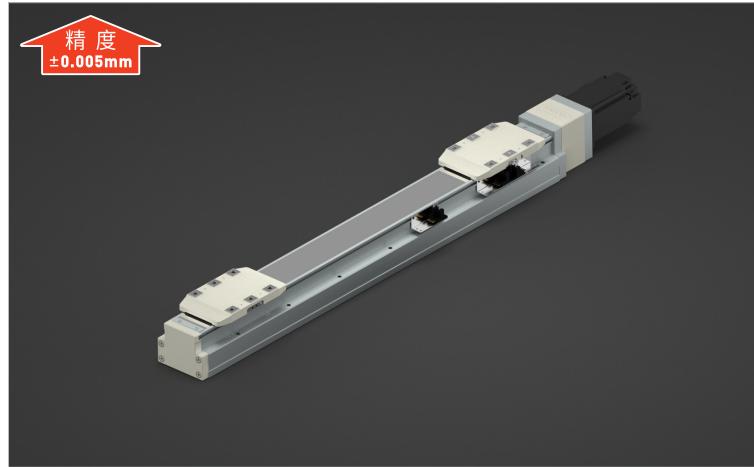
行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250.5	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight (kg)	1.14	1.33	1.53	1.73	1.92	2.12	2.32	2.51	2.71	2.91	3.1	3.3	3.5	3.69	3.89	4.09

GSC 50S 轨道内嵌式对开滑台模组

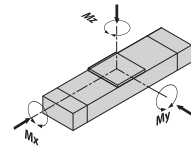
Built-in track slide module

订购型号代码 Code

GSC 50S	—	L05	—	275	—	MS	—	M10	—	P3	—	A001
本体型号 Item NO.		螺杆导程 Ball Screw Lead		行程 Stroke		马达方向 Motor Mounting Direction		马达厂牌、功率 Motor Brand, Power Output		限位传感器数量 Photoelectric Sensor		特注式样 Special Order No.
		05		25-325, 间隔Gap25		MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting		M 三菱 Mitsubishi 10 100W P 松下 Panasonic 10 100W		P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark-NoSensor		未标记: 无 NoMark-NoSensor



最大静态力和力矩 Max Static Forces And Torques



Type	GSC 50S
M(x) (N · m)	144
M(y) (N · m)	103
M(z) (N · m)	103

除了满足最大负载和力矩外, 还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

马达安装方向 Motor Mounting Position Version

MS Type 马达直接安装 Straight Motor Mounting	ML Type 马达左折安装 Left Motor Mounting	MR Type 马达右折安装 Right Motor Mounting	MD Type 马达下折安装 Down Motor Mounting

基本规格 Basic Specification

GSC 50S		
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	±0.005
	螺杆导程 Ball Screw Lead (mm)	05
	最高速度 Maximum Speed (mm/s)	250
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg) 30 (双滑座 Dual Carriage)
		垂直使用Vertical (kg) 10 (双滑座 Dual Carriage)
基本规格 Basic Specification	定格推力 Rated Thrust (N)	341
	标准行程 Stroke (mm)	25-325 mm / 25 Pitch
	AC伺服马达容量 AC Servo Motor Output (W)	100
	滚珠螺杆外径 Ball Screw Diameter (mm)	C7 Ø12
	联轴器 Coupling (mm)	7×8
	原点感应器 Home Sensor	PM-Y45(NPN)

容许负载力矩表 Allowable Overhang

单位Unit:mm

水平安装 Horizontal Installation		A	B	C
导程 5 lead	10kg	650	75	100
	20kg	440	32	45
	30kg	270	19	25

单位Unit:mm

壁挂安装 Wall Installation		A	B	C
导程 5 lead	10kg	100	75	650
	20kg	45	32	420
	30kg	25	19	260

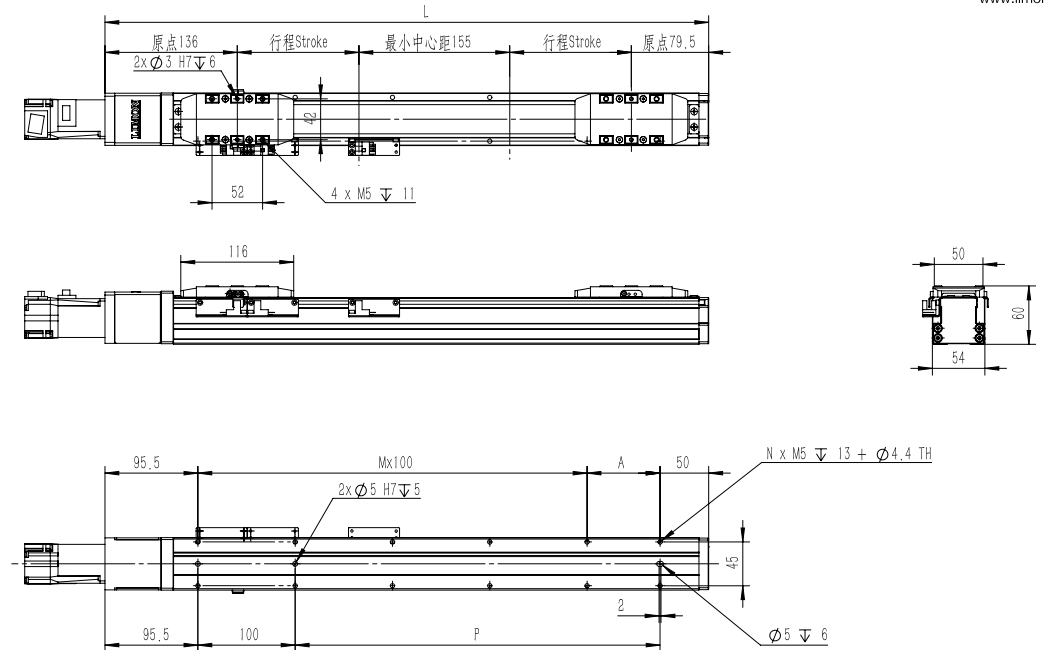
单位Unit:mm

垂直安装 Vertical Installation		A	C
导程 5 lead	6kg	145	145
	8kg	110	110
	10kg	90	90

轨道内嵌式对开滑台模组 GSC 50S

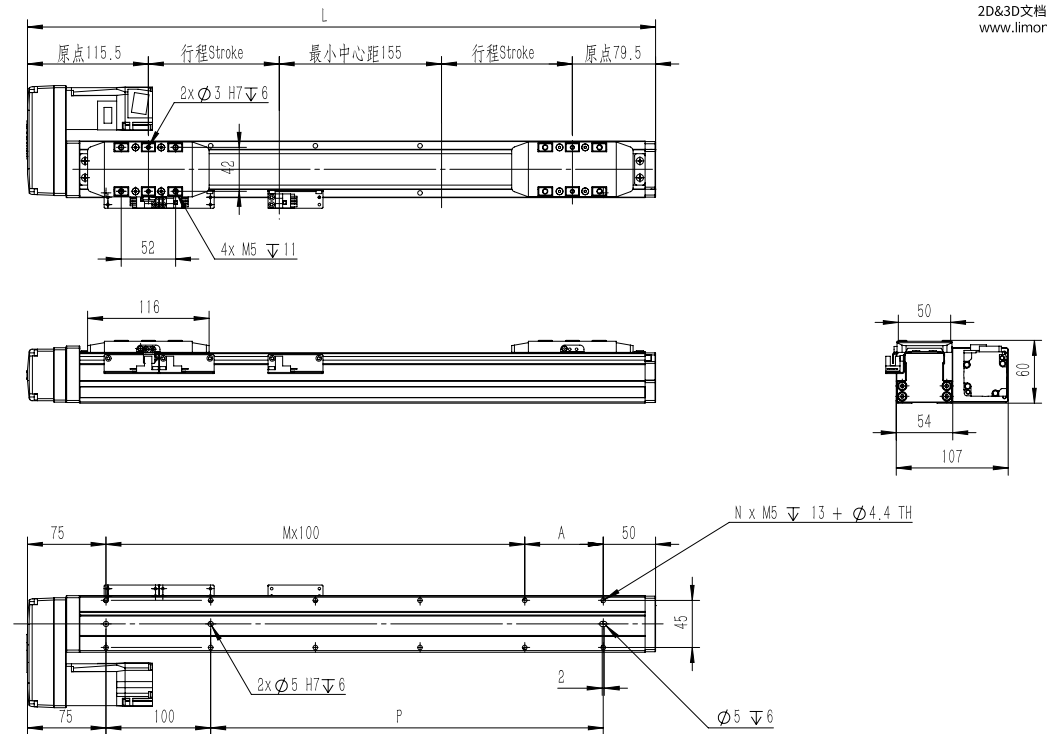
Built-in track slide module

GSC50S-MS 马达直接安装 Straight Motor Mounting

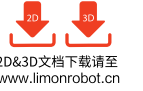


行程 Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325
L	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	425	475	525	575	625	675	725	775
重量 Weight (kg)	2.82	3.01	3.21	3.41	3.6	3.8	4	4.19	4.39	4.59	4.78	4.98	5.18

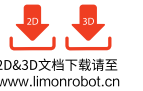
GSC50S-ML 马达左折安装 Left Motor Mounting



行程 Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325
L	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	425	475	525	575	625	675	725	775
重量 Weight (kg)	2.99	3.18	3.38	3.58	3.77	3.97	4.17	4.36	4.56	4.76	4.95	5.15	5.35



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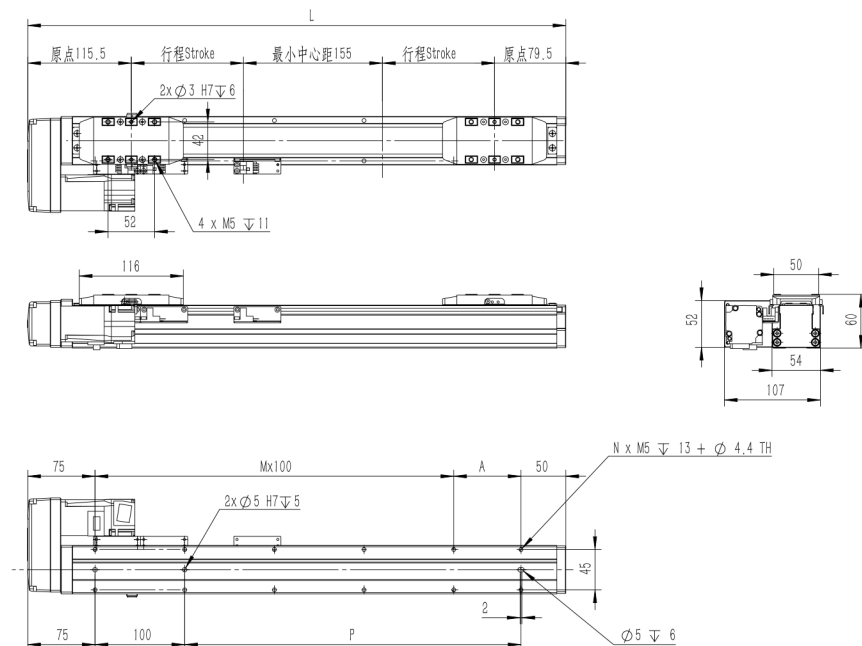
GSC 50S 轨道内嵌式对开滑台模组

Built-in track slide module

GSC 50S-MR 马达右折安装 Right Motor Mounting

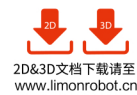


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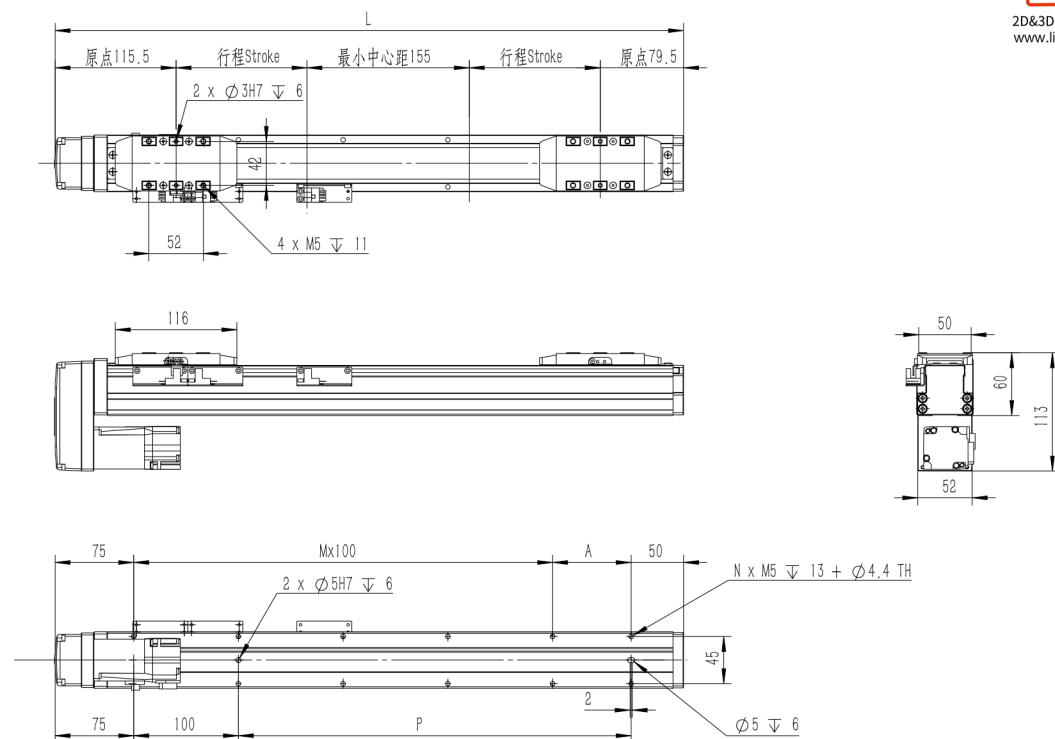


行程 Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325
L	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	425	475	525	575	625	675	725	775
重量 Weight (kg)	2.99	3.18	3.38	3.58	3.77	3.97	4.17	4.36	4.56	4.76	4.95	5.15	5.35

GSC 50S-MD 马达下折安装 Down Motor Mounting



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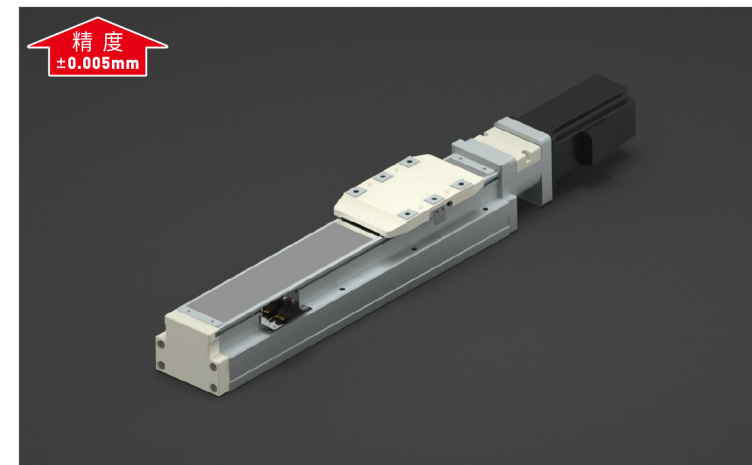
行程 Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325
L	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	425	475	525	575	625	675	725	775
重量 Weight (kg)	2.99	3.18	3.38	3.58	3.77	3.97	4.17	4.36	4.56	4.76	4.95	5.15	5.35

轨道内嵌式滑台模组 GSC 80

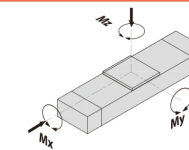
Guide rail embedded slide module

订购型号代码 Code

GSC 80	L10	500	MS	M40	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead	行程 Stroke	马达方向 Motor Mounting Direction	马达品牌、功率 Motor Brand, Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	05 10 20 32	50-1100, 间隔Gap50	MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting	M 三菱 Mitsubishi 20 200W 40 400W P 松下 Panasonic 20 200W 40 400W	P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark/NoSensor	未标记: 无 NoMark/NoSensor



最大静力和力矩 Max Static Forces And Torques

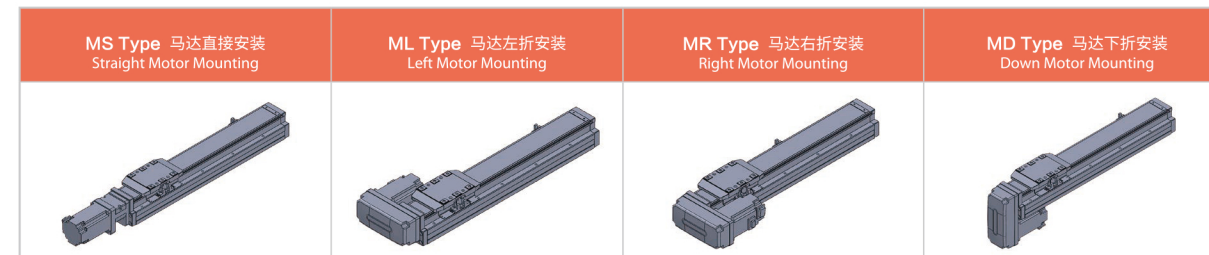


Type	GSC 80
M(x) (N·m)	626
M(y) (N·m)	318
M(z) (N·m)	318

除了满足最大负载和力矩外, 还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

马达安装方向 Motor Mounting Position Version



基本规格 Basic Specification

GSC 80				
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)		±0.005	
	螺杆导程 Ball Screw Lead (mm)		5	10 20 32
	最高速度 Maximum Speed (mm/s)		250	500 1000 1600
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	50	30 18 13
		垂直使用Vertical (kg)	15	8 3 2
	定格推力 Rated Thrust (N)		1388	694 347 217
基本规格 Basic Specification	标准行程 Stroke (mm)		50-1050 mm / 50 Pitch	
	AC伺服马达容量 AC Servo Motor Output (W)		200/400	
	滚珠螺杆外径 Ball Screw Diameter (mm)		C7 Ø16	
	联轴器 Coupling (mm)		10 × 14/11	
	原点感应器 Home Sensor		PM-Y45(NPN)	

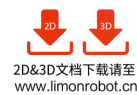
容许负载力矩表 Allowable Overhang

单位Unit:mm					单位Unit:mm					单位Unit:mm				
水平安装 Horizontal Installation					壁挂安装 Wall Installation					垂直安装 Vertical Installation				
导程 5 lead	A	B	C		导程 5 lead	A	B	C		导程 5 lead	A	C		
20kg	1560	153	237		20kg	214	153	1435		10kg	331	331		
35kg	890	81	126		35kg	113	81	845		15kg	220	220		
50kg	550	53	82		50kg	74	53	506		-	-	-		
导程 10 lead	A	B	C		导程 10 lead	A	B	C		导程 10 lead	A	C		
10kg	1730	286	412		10kg	370	286	1400		5kg	589	589		
20kg	839	136	196		20kg	176	136	800		8kg	368	368		
30kg	541	86	124		30kg	112	86	495		-	-	-		
导程 20 lead	A	B	C		导程 20 lead	A	B	C		导程 20 lead	A	C		
6kg	1213	403	493		6kg	444	403	760		3kg	935	935		
9kg	800	264	323		9kg	292	264	650		-	-	-		
18kg	592	194	238		18kg	214	194	544		-	-	-		

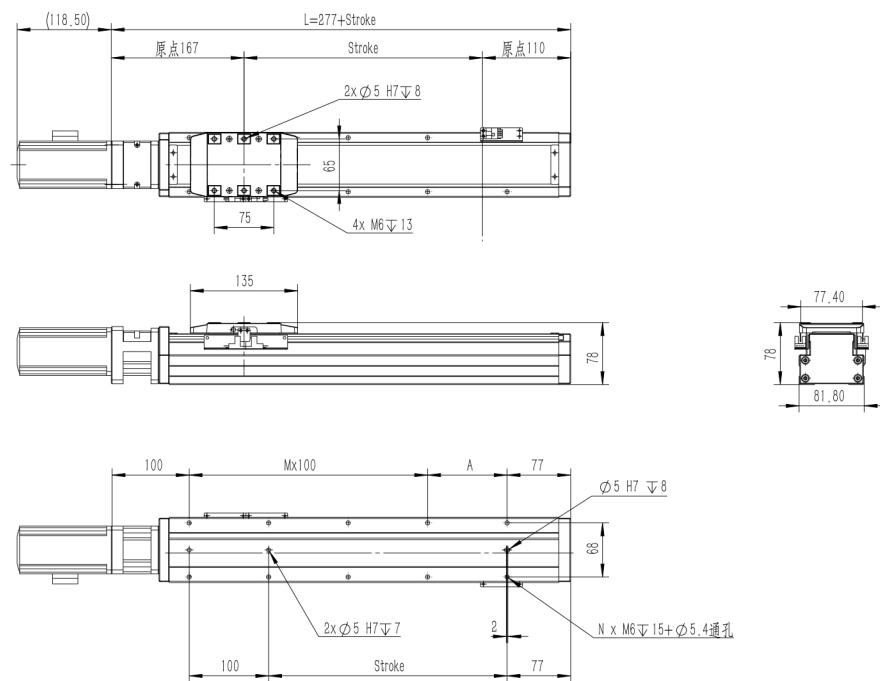
GSC 80 軌道内嵌式滑台模組

Guide rail embedded slide module

GSC 80-MS 马达直接安装 Straight Motor Mounting

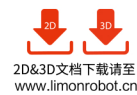


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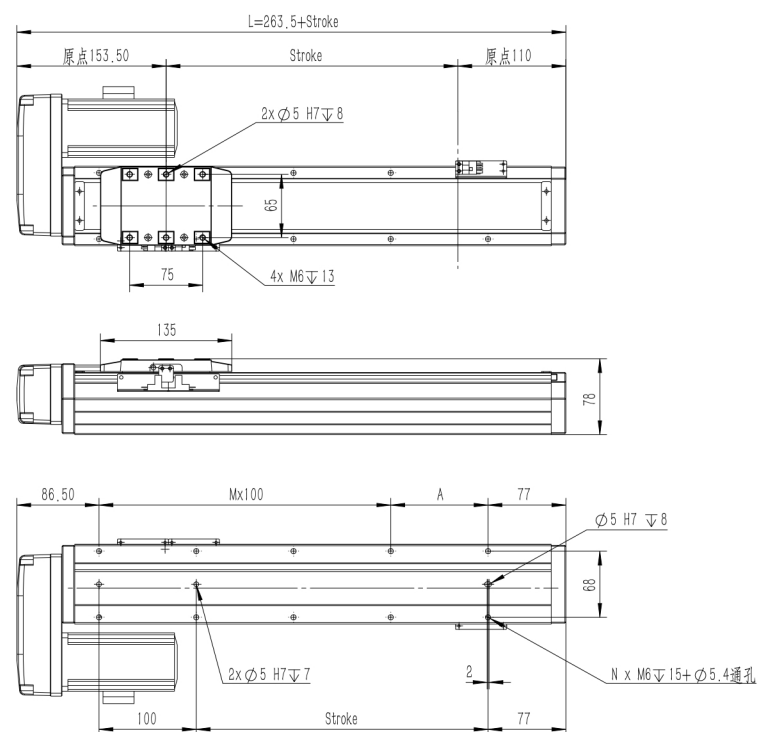


行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
重量 Weight (kg)	2.68	3.04	3.41	3.77	4.14	4.5	4.87	5.23	5.6	5.96	6.33	6.69	7.06	7.42	7.79	8.15	8.52	8.88	9.25	9.61	9.98	10.4

GSC 80-ML 马达左折安装 Left Motor Mounting



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行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	1063.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
重量 Weight (kg)	2.69	3.1	3.62	4.14	4.66	5.18	5.7	6.22	6.74	7.26	7.78	8.3	8.82	9.34	9.86	10.4	10.9	11.4	11.94	12.46	13	13.4

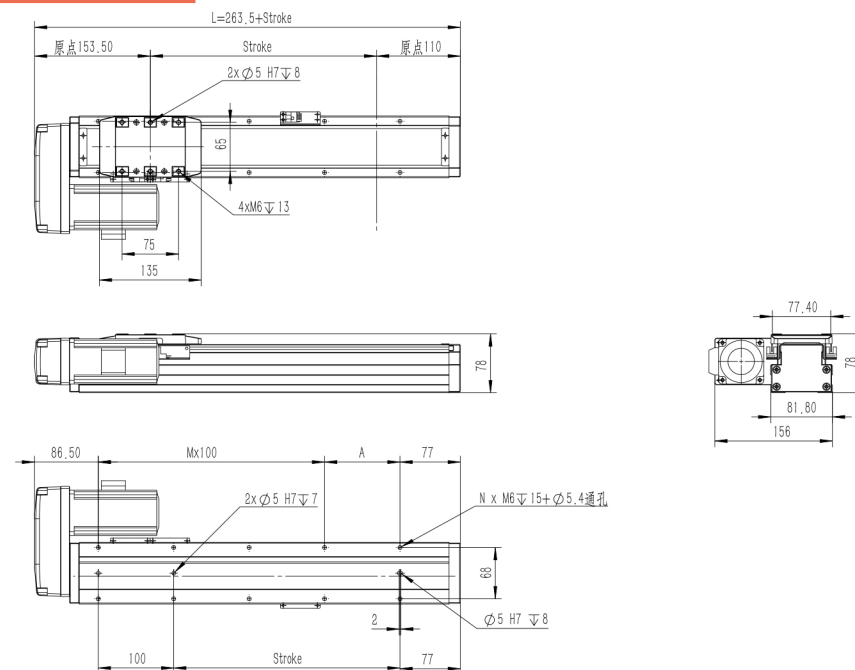
軌道内嵌式滑台模組 GSC 80

Guide rail embedded slide module

GSC 80-MR 马达右折安装 Right Motor Mounting



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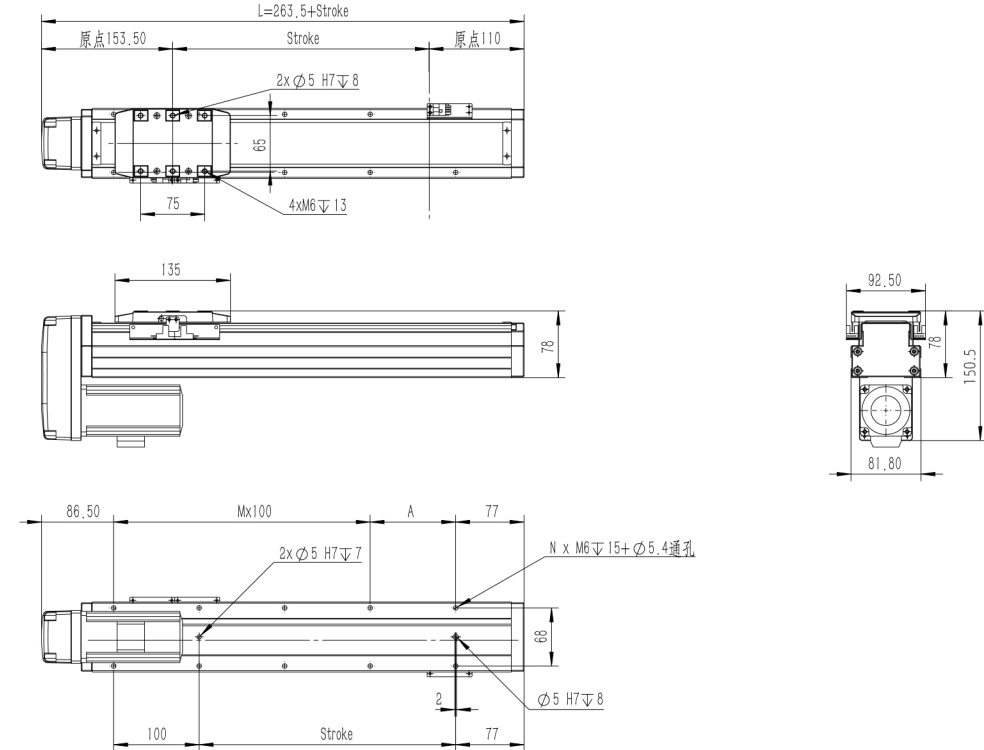


行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	1063.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
重量 Weight (kg)	2.69	3.1	3.62	4.14	4.66	5.18	5.7	6.22	6.74	7.26	7.78	8.3	8.82	9.34	9.86	10.4	10.9	11.4	11.94	12.46	13	13.4

GSC 80-MD 马达下折安装 Down Motor Mounting



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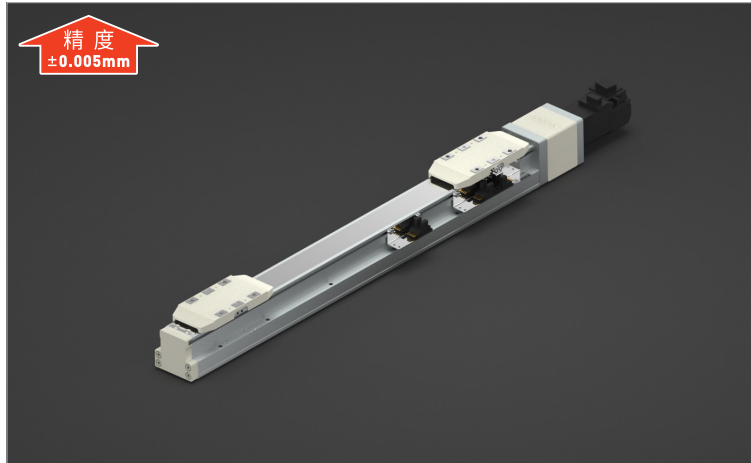
行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	1063.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
重量 Weight (kg)	2.69	3.1	3.62	4.14	4.66	5.18	5.7	6.22	6.74	7.26	7.78	8.3	8.82	9.34	9.86	10.4	10.9	11.4	11.94	12.46	13	13.4

GSC 80S 轨道内嵌式对开滑台模组

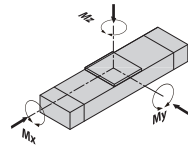
Built-in track slide module

订购型号代码 Code

GSC 80S	L05	275	MS	M40	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead 05	行程 Stroke 25-450, 间隔Gap25	马达方向 Motor Mounting Direction MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting	马达厂牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 20 200W 40 400W P 松下 Panasonic 20 200W 40 400W	限位传感器数量 Photoelectric Sensor P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark-NoSensor	特注式样 Special Order No. 未标记: 无 NoMark-NoSensor



最大静态力和力矩 Max Static Forces And Torques



Type	GSC 80S
■M(x) (N·m)	626
■M(y) (N·m)	318
■M(z) (N·m)	318

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:
$$\frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

马达安装方向 Motor Mounting Position Version



基本规格 Basic Specification

GSC 80S		
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	±0.005
	螺杆导程 Ball Screw Lead (mm)	05
	最高速度 Maximum Speed (mm/s)	250
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg) 50 (双滑块 Dual Carriage)
		垂直使用Vertical (kg) 15 (双滑块 Dual Carriage)
基本规格 Basic Specification	定格推力 Rated Thrust (N)	1388
	标准行程 Stroke (mm)	25-450 mm / 25 间隔Pitch
	AC伺服马达容量 AC Servo Motor Output (W)	400
	滚珠螺杆外径 Ball Screw Diameter (mm)	C7 Ø16
	联轴器 Coupling (mm)	10×14/11
原点感应器 Home Sensor		PM-Y45(NPN)

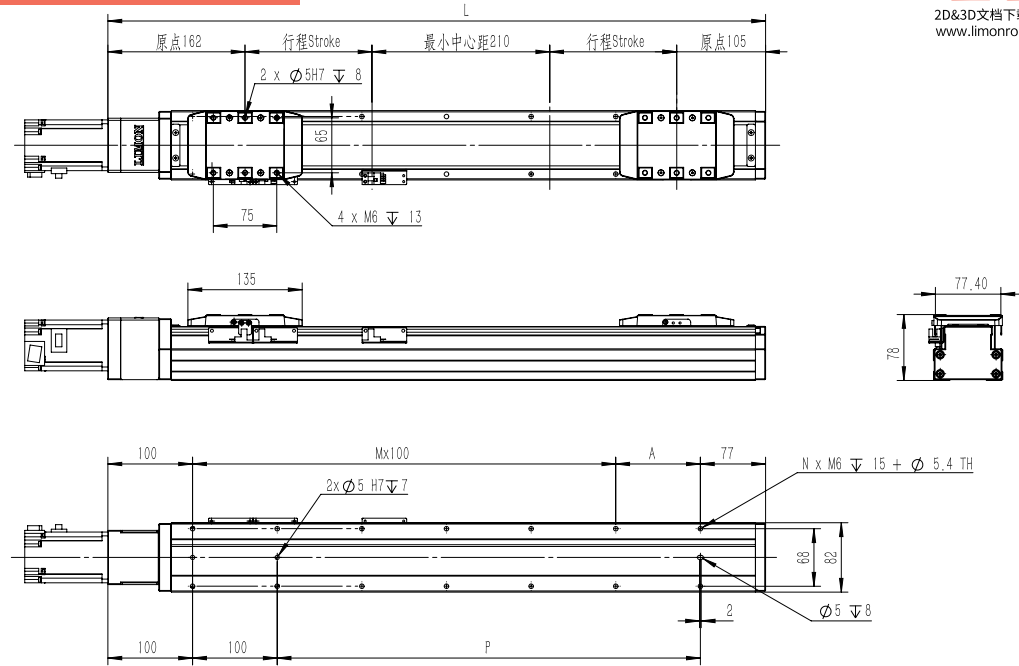
容许负载力矩表 Allowable Overhang

单位Unit:mm		单位Unit:mm	
水平安装 Horizontal Installation	A	B	C
	25kg	1560	153
	35kg	890	81
	50kg	550	53
壁挂安装 Wall Installation	A	B	C
	20kg	214	153
	35kg	113	81
	50kg	74	53
单位Unit:mm		单位Unit:mm	
垂直安装 Vertical Installation	A	B	C
	10kg	331	331
	15kg	220	220
	/	/	/

GSC 80S 轨道内嵌式对开滑台模组

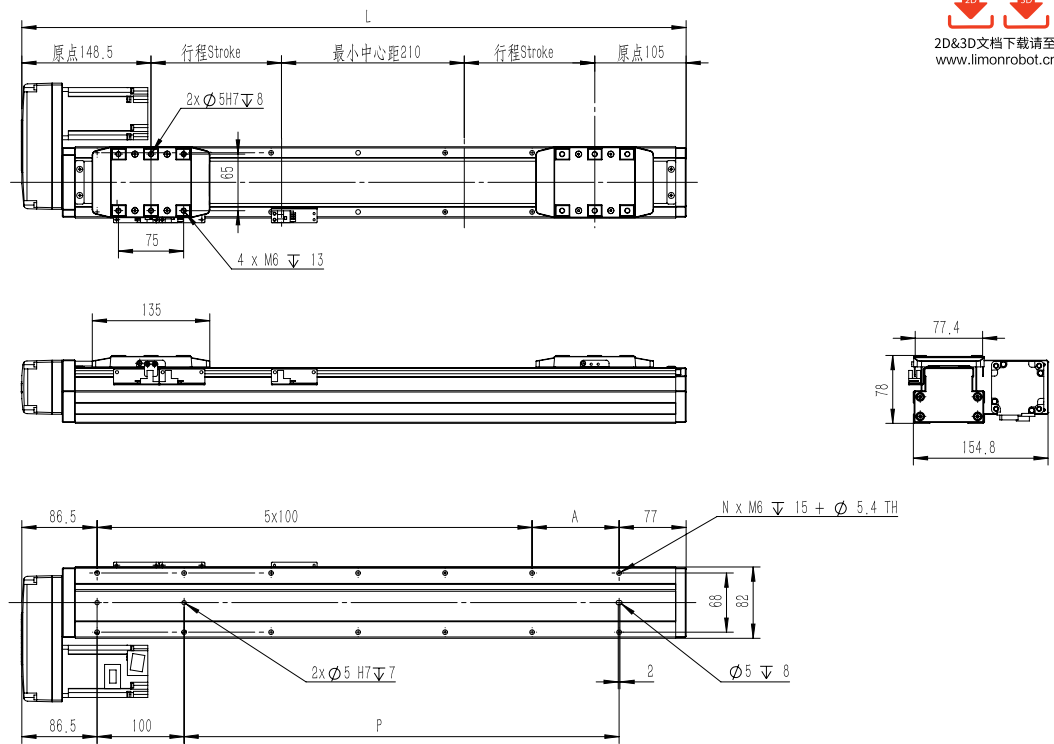
Built-in track slide module

GSC 80S-MS 马达直接安装 Straight Motor Mounting



行程 Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450
L	527	577	627	678	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
重量 Weight (kg)	6.64	7.00	7.37	7.73	8.10	8.46	8.83	9.19	9.56	9.92	10.29	10.65	11.02	11.38	11.75	12.11	12.48	12.85

GSC 80S-ML 马达左折安装 Left Motor Mounting



行程 Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450
L	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	1063.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
重量 Weight (kg)	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.48	16.0

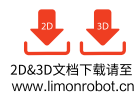
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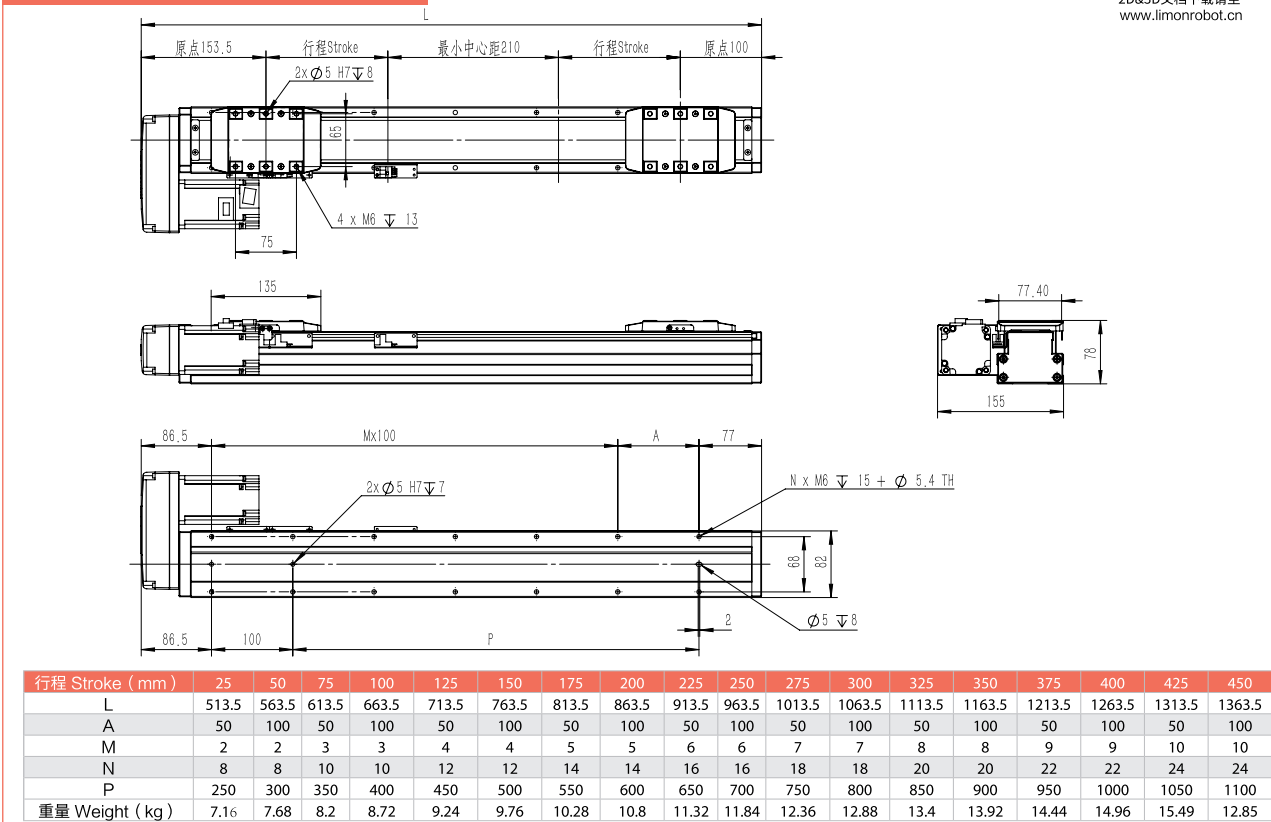
GSC 80S 轨道内嵌式对开滑台模组

Built-in track slide module

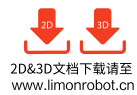
GSC 80S-MR 马达右折安装 Right Motor Mounting



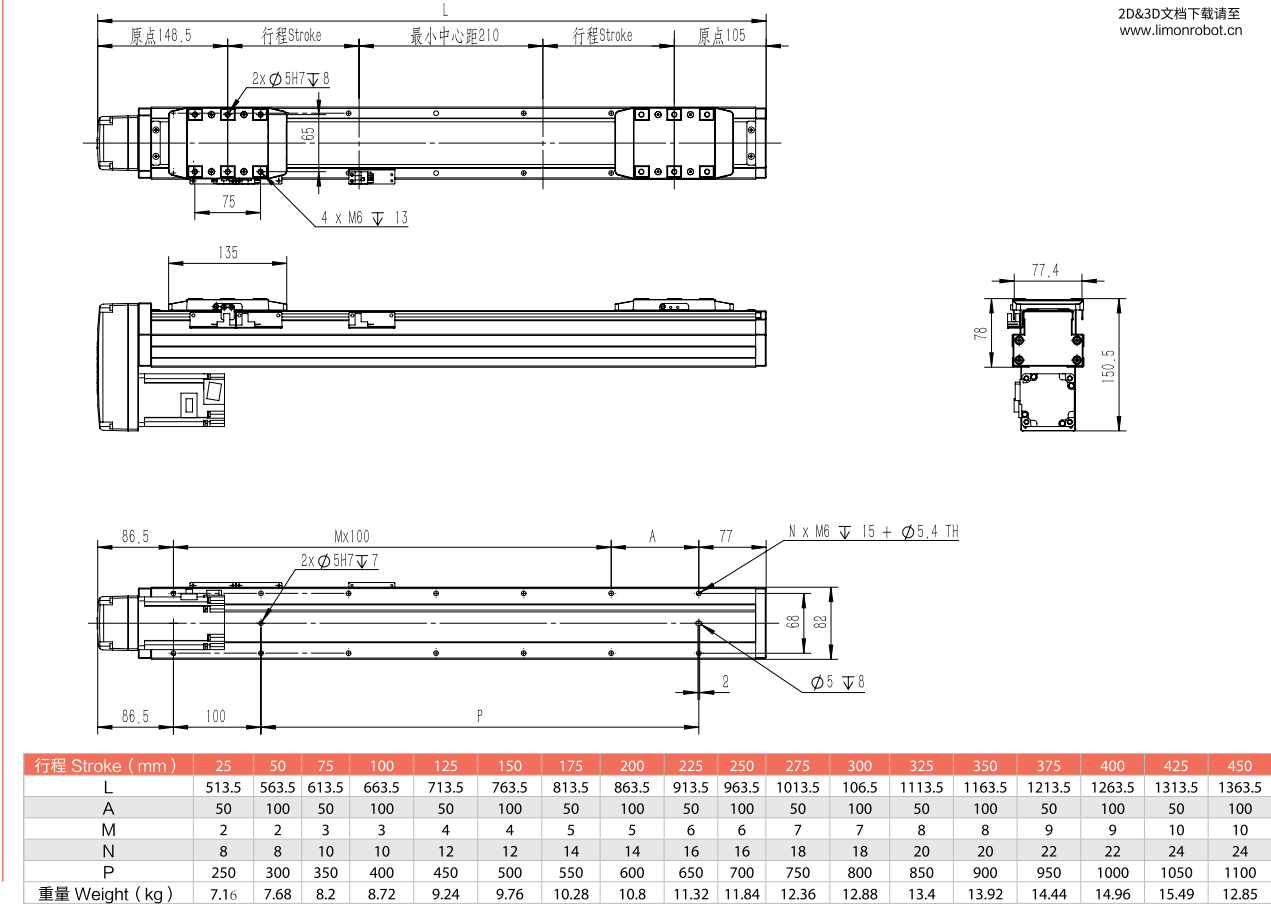
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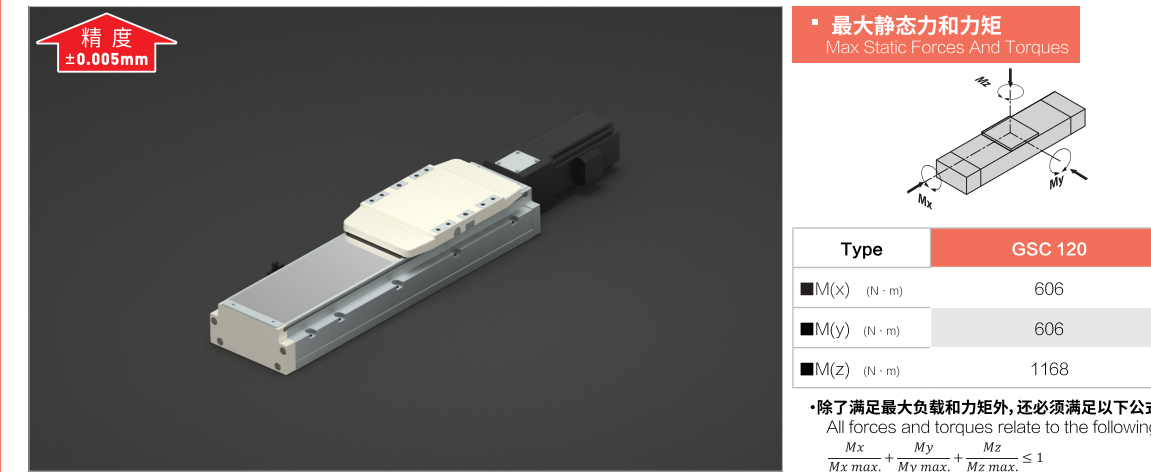


导轨内嵌式滑台模组 GSC 120

Guide rail embedded slide module

订购型号代码 Code

GSC 120	L10	500	MS	M40	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead	行程 Stroke	马达方向 Motor Mounting Direction	马达厂牌、功率 Motor Brand、Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	05 10 20 32	50-1250, 间隔Gap50	MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting	M 三菱 Mitsubishi 20 200W 40 400W P 松下 Panasonic 20 200W 40 400W	P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark/NoSensor	未标记: 无 NoMark/NoSensor



马达安装方向 Motor Mounting Position Version



基本规格 Basic Specification

GSC 120				
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	±0.005		
	螺杆导程 Ball Screw Lead (mm)	5	10	20
	最高速度 Maximum Speed (mm/s)	250	500	1000
	最大可搬重量 Maximum Payload	110	88	40
	定格推力 Rated Thrust (N)	1388	694	347
基本规格 Basic Specification	标准行程 Stroke (mm)	50-1250 mm/ 50 Pitch		
	AC伺服马达容量 AC Servo Motor Output (W)	400		
	滚珠螺杆外径 Ball Screw Diameter (mm)	C7 Ø16		
	联轴器 Coupling (mm)	10×14/11		
	原点感应器 Home Sensor	PM-Y45(NPN)		

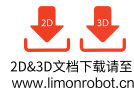
容许负载力矩表 Allowable Overhang

水平安装 Horizontal Installation				壁挂安装 Wall Installation				垂直安装 Vertical Installation			
导程 Lead	A	B	C	导程 Lead	A	B	C	导程 Lead	A	C	
5	60kg	2850	250	340	55kg	280	280	3300	15kg	1200	1200
10	80kg	2100	180	250	75kg	200	195	2400	22kg	820	820
20	110kg	1500	120	170	110kg	130	125	1550	33kg	550	550
30	30kg	2850	490	600	35kg	400	410	2500	10kg	1600	1600
40	50kg	1700	280	350	55kg	245	250	1550	14kg	1150	1150
50	88kg	950	140	190	88kg	150	150	950	22kg	730	730
60	10kg	3400	1250	1400	12kg	900	1070	3000	7kg	1800	1800
70	22kg	1650	550	620	20kg	550	630	1800	10kg	1250	1250
80	40kg	900	290	330	40kg	260	300	900	-	-	-
90	15kg	1100	570	550	15kg	440	570	1050	5kg	1600	1600
100	25kg	620	330	320	30kg	210	270	520	8kg	1000	1000
110	30kg	520	270	260	-	-	-	-	-	-	-

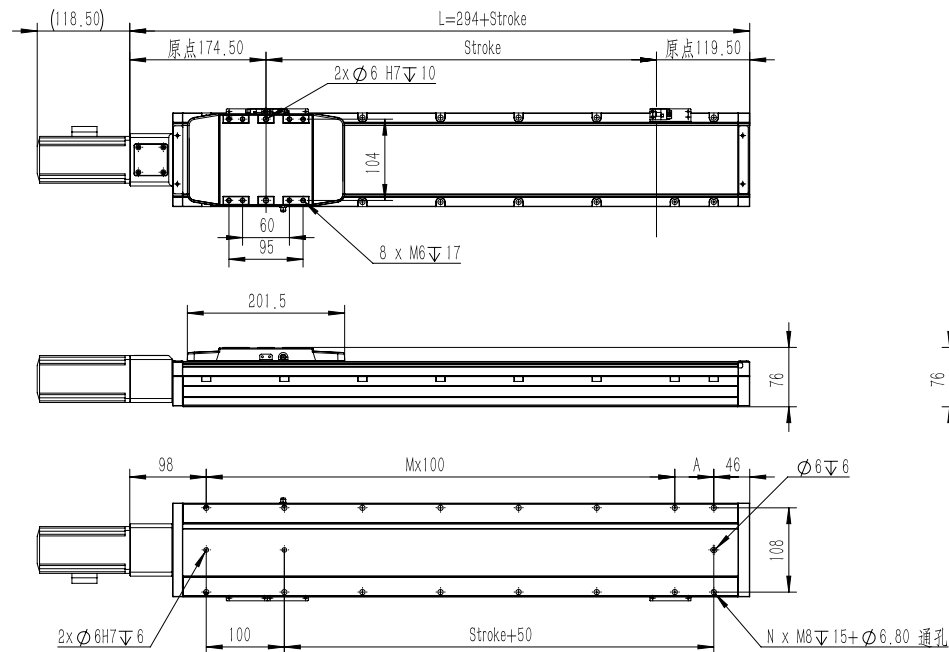
GSC 120 导轨内嵌式滑台模组

Guide rail embedded slide module

GSC 120-MS 马达直接安装 Straight Motor Mounting

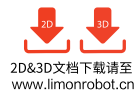


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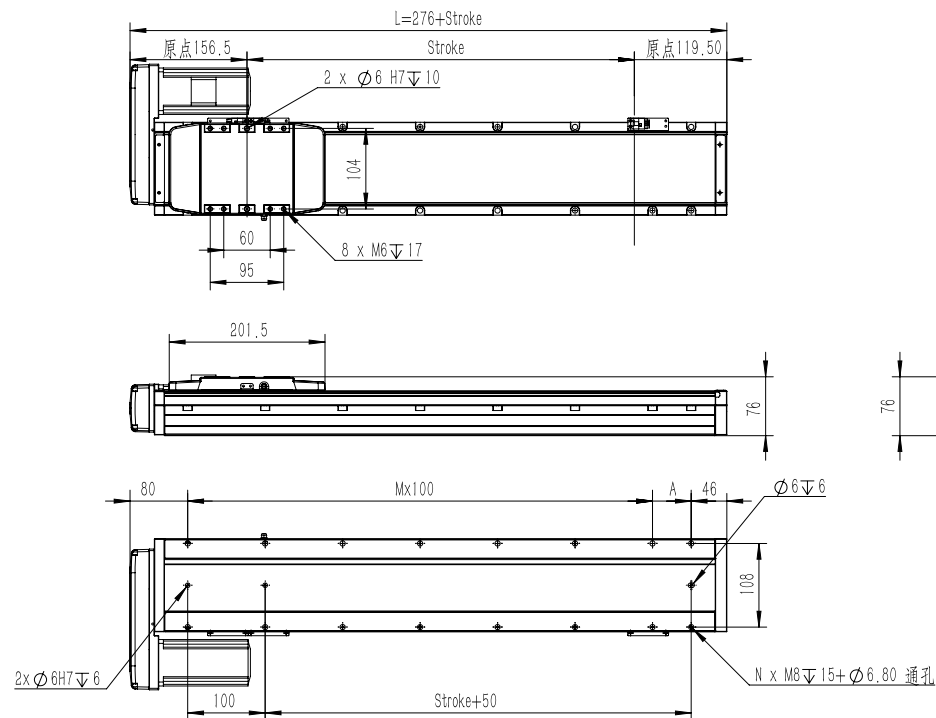


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
重量 Weight(kg)	5.05	5.4	5.75	6.1	6.45	6.8	7.15	7.5	7.85	8.2	8.55	8.9	9.25	9.6	9.95	10.3	10.65	11	11.35	11.7	12.05	12.4	12.75	13.1	13.45

GSC 120-ML 马达左折安装 Left Motor Mounting



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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	326	376	426	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
重量 Weight(kg)	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.28	13.61

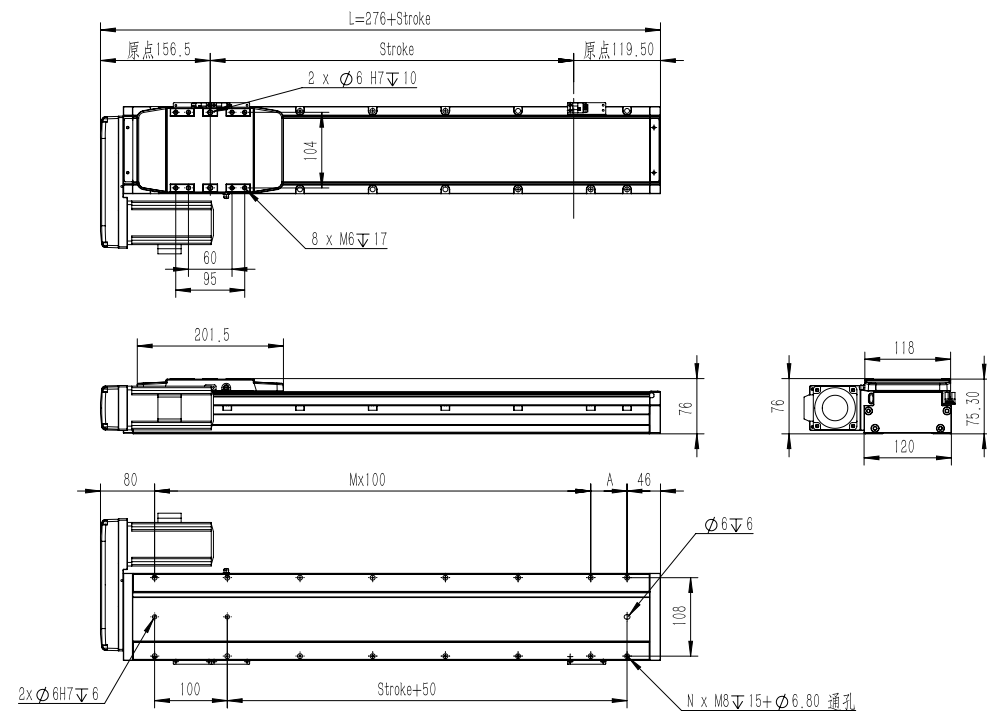
导轨内嵌式滑台模组 GSC 120

Guide rail embedded slide module

GSC 120-MR 马达右折安装 Right Motor Mounting



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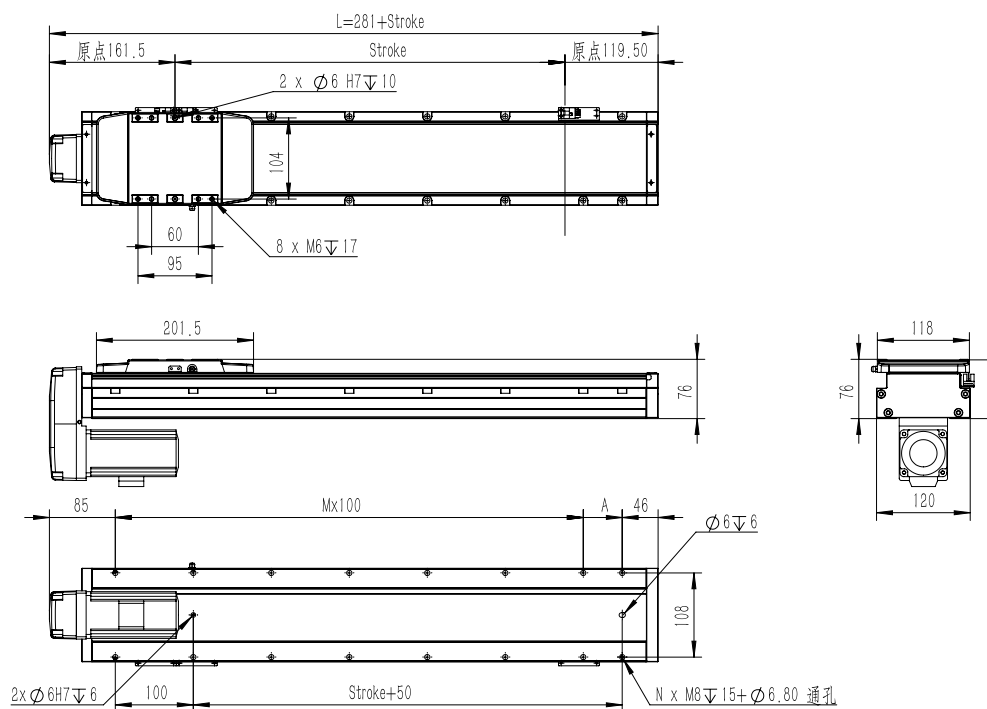


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	326	376	426	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
重量 Weight(kg)	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.28	13.61

GSC 120-MD 马达下折安装 Down Motor Mounting



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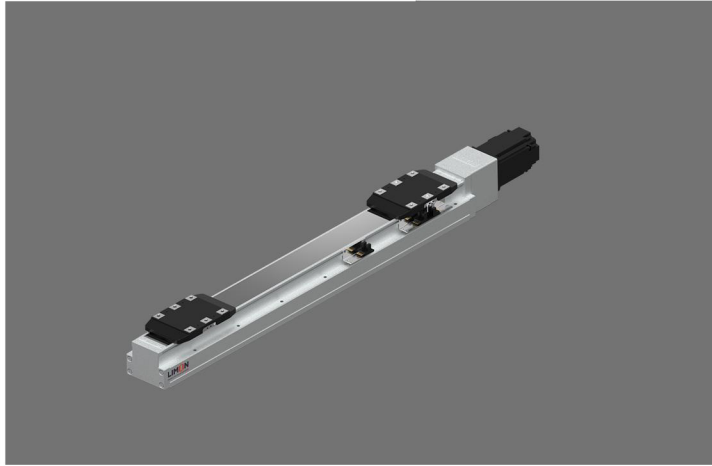
行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
重量 Weight(kg)	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.28	13.61

GSC 120S 轨道内嵌式对开滑台模组

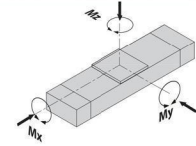
Built-in track slide module

订购型号代码 Code

GSC120S	L10	275	MS	M40	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead 05	行程 Stroke 25-500, 间隔Gap25	马达方向 Motor Mounting Direction MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting	马达厂牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 20 200W 40 400W P 松下 Panasonic 20 200W 40 400W	限位传感器数量 Photoelectric Sensor P1: 1个 1PCS P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark/NoSensor	特注式样 Special Order No. 未标记: 无 NoMark/NoSensor



最大静态力和力矩 Max Static Forces And Torques



Type	GSC 120S
■ M(x) (N · m)	606
■ M(y) (N · m)	606
■ M(z) (N · m)	1168

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:
$$\frac{M_x}{M_x \max} + \frac{M_y}{M_y \max} + \frac{M_z}{M_z \max} \leq 1$$

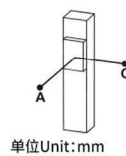
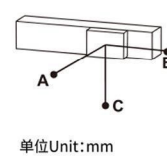
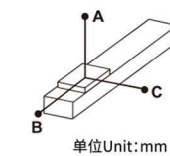
马达安装方向 Motor Mounting Position Version

MS Type 马达直接安装 Straight Motor Mounting	ML Type 马达左折安装 Left Motor Mounting	MR Type 马达右折安装 Right Motor Mounting	MD Type 马达下折安装 Down Motor Mounting

基本规格 Basic Specification

GSC 120S						
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)		±0.005			
	螺杆导程 Ball Screw Lead (mm)		5	10	20	32
	最高速度 Maximum Speed (mm/s)		250	500	1000	1600
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	110	88	40	30
		垂直使用Vertical (kg)	33	22	10	8
	定格推力 Rated Thrust (N)		1388	694	347	218
基本规格 Basic Specification	标准行程 Stroke (mm)		50-1250 mm/ 50 间隔Pitch			
	AC伺服马达容量 AC Servo Motor Output (W)		400			
	滚珠螺杆外径 Ball Screw Diameter (mm)		C7 Ø16			
	联轴器 Coupling (mm)		10×14/11			
	原点感应器 Home Sensor		PM-Y45(NPN)			

容许负载力矩表 Allowable Overhang

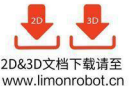


水平安装 Horizontal Installation					壁挂安装 Wall Installation					垂直安装 Vertical Installation				
	A	B	C			A	B	C			A	C		
导程 5 lead	60kg	2850	250	340	导程 5 lead	55kg	280	280	3300	导程 5 lead	15kg	1200	1200	
	80kg	2100	180	250		75kg	200	195	2400		22kg	820	820	
	110kg	1500	120	170		110kg	130	125	1550		33kg	550	550	
导程 10 lead	30kg	2850	490	600	导程 10 lead	35kg	400	410	2500	导程 10 lead	10kg	1600	1600	
	50kg	1700	280	350		55kg	245	250	1550		14kg	1150	1150	
	88kg	950	140	190		88kg	150	150	950		22kg	730	730	
导程 20 lead	10kg	3400	1250	1400	导程 20 lead	12kg	900	1070	3000	导程 20 lead	7kg	1800	1800	
	22kg	1650	550	620		20kg	550	630	1800		10kg	1250	1250	
	40kg	900	290	330		40kg	260	300	900		-	-	-	
导程 32 lead	15kg	1100	570	550	导程 32 lead	15kg	440	570	1050	导程 32 lead	5kg	1600	1600	
	25kg	620	330	320		30kg	210	270	520		8kg	1000	1000	
	30kg	520	270	260		-	-	-	-		-	-	-	

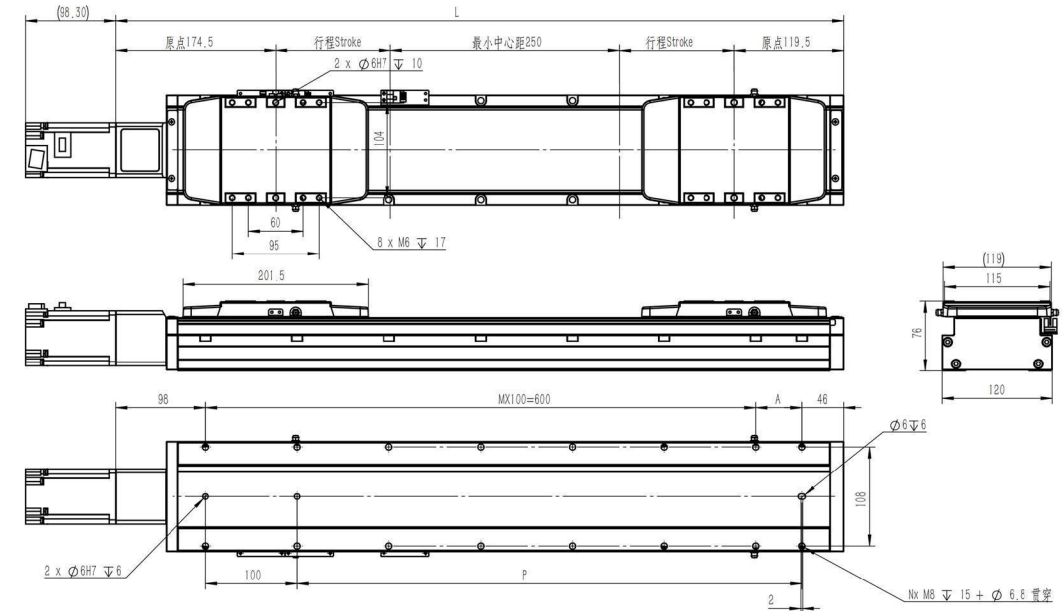
轨道内嵌式对开滑台模组 GSC 120S

Built-in track slide module

GSC120S-MS 马达直接安装 Straight Motor Mounting

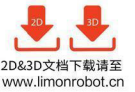


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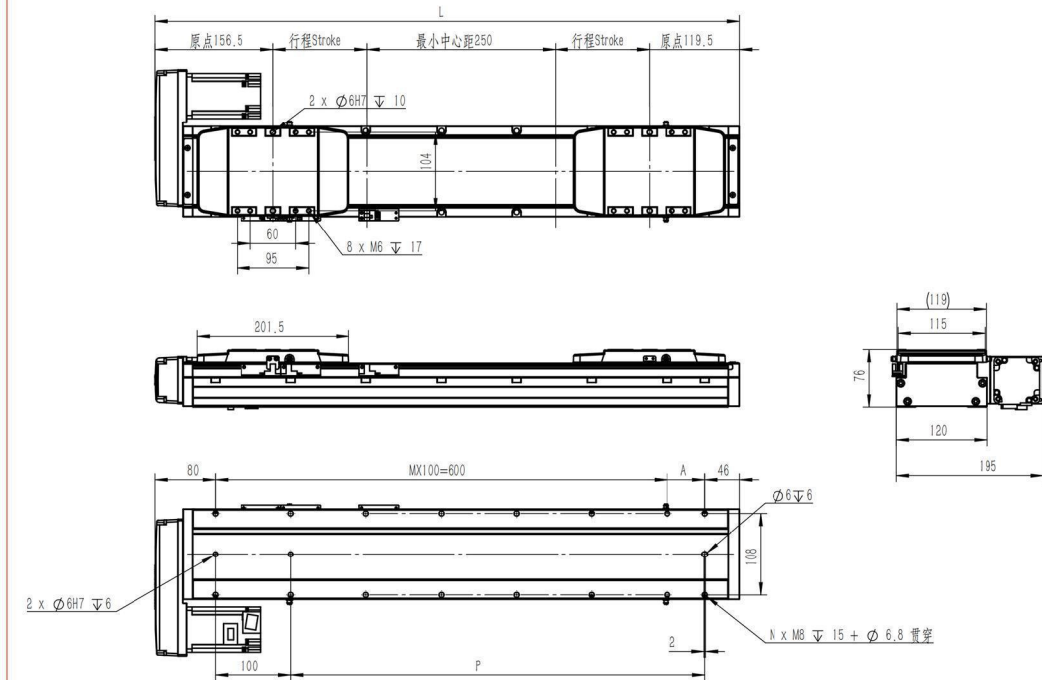


行程Stroke(mm)	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500
L	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
重量Weight(kg)	8.73	9.08	9.43	9.78	10.13	10.48	10.83	11.18	11.53	11.88	12.23	12.58	12.93	13.28	13.63	13.98	14.33	14.68	15.03	15.38

GSC120S-ML 马达左折安装 Left Motor Mounting



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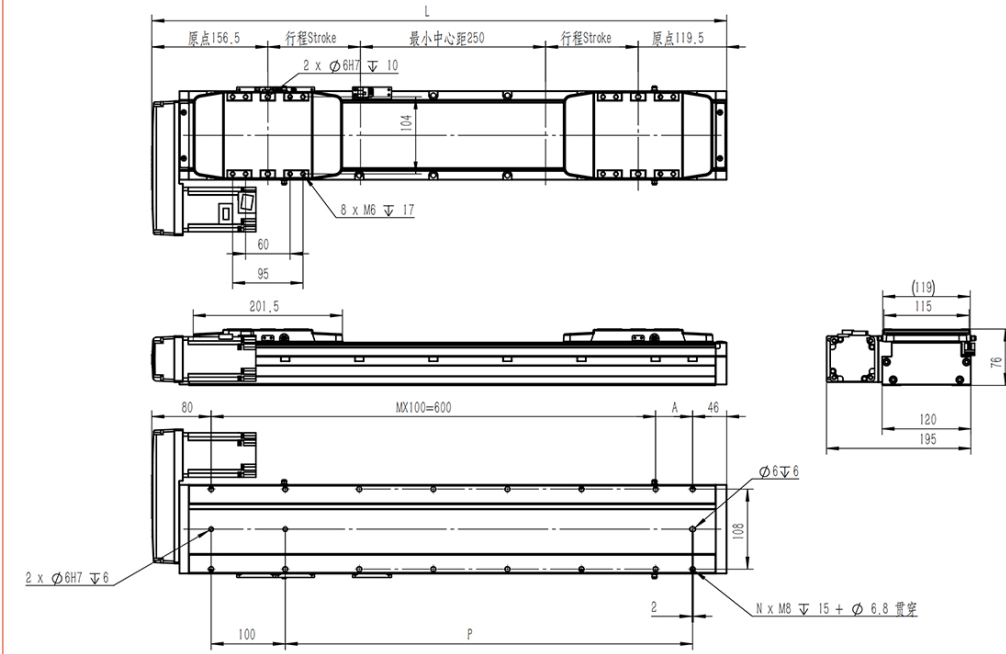


行程Stroke(mm)	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500
L	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
重量Weight(kg)	8.89	9.24	9.59	9.94	10.29	10.64	10.99	11.34	11.69	12.04	12.39	12.74	13.09	13.44	13.79	14.14	14.49	14.84	15.19	15.54

GSC 120S 轨道内嵌式对开滑台模组

GSC120S-MR

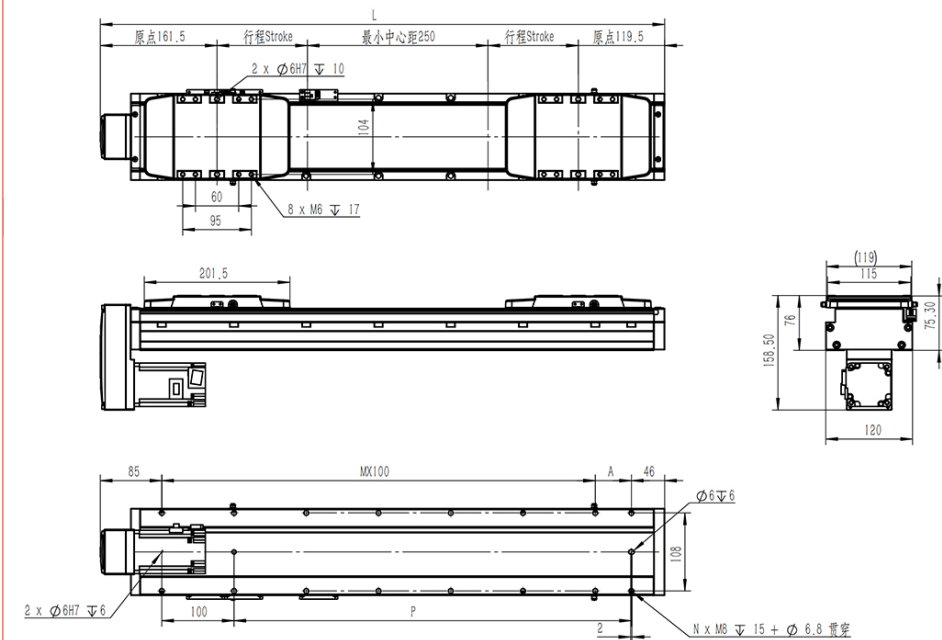
马达右折安装 Straight Motor Mounting



行程Stroke(mm)	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500
L	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
重量Weight(kg)	8.89	9.24	9.59	9.94	10.29	10.64	10.99	11.34	11.69	12.04	12.39	12.74	13.09	13.44	13.79	14.14	14.49	14.84	15.21	15.54

GSC120S-MD

马达下折安装 Down Motor Mounting



行程Stroke(mm)	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500
L	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
重量Weight(kg)	8.89	9.24	9.59	9.94	10.29	10.64	10.99	11.34	11.69	12.04	12.39	12.74	13.09	13.44	13.79	14.14	14.49	14.84	15.21	15.54

GSC Series

滑台模组规格索引

Embedded sliding table for dust-free workshop

滑台模块规格索引

Spec Index of Electric Actuator

GSC 轨道内嵌式螺杆滑台系列

GSC Built-in Linear Motion Guide Ball Screw Actuator-Slider Type

使用环境 Environment	传动方式 Driven Mode	式样 Specification	马达容量 Motor Output (w)	本体宽度 Width(mm)	位置重复精度 Repeatability(mm)	螺杆规格 (C7级) Ball Screw Spec		最大可搬重量 Maximum Payload(kg)	
						外径 Outer Diameter(mm)	导程 Lead(mm)	水平使用 Horizontal	垂直使用 Vertical
一般环境 Standard	滚珠螺杆 Ball screw	GSC40	100W	44	±0.005	10	06	20	8
							12	12	3.5
		GSC50	100W	54	±0.005	12	5	30	10
							10	15	5
							20	10	2.5
		GSC80	200W	82	±0.005	16	5	50	15
							10	30	8
			400W				20	18	3
							32	13	2
		GSC120	200W	120	±0.005	16	5	110	33
10	88						22		
400W	20		40				10		
	32		30				8		

使用环境 Environment	传动方式 Driven Mode	式样 Specification	导程 lead (mm)	最高速度 ⁻¹ Maximum Speed(mm/s)	标准行程及最高使用速度 ⁺² Stroke(mm) & Maximum Speed(mm/s)																											
					行程 Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250		
一般环境 Standard	滚珠螺桿 Ball screw	GSC40	06	300													300	270	240	210	180	150										
			12	600													600	540	480	420	360	300										
		GSC50	5	250													250		225	200	175	150										
			10	500													500		450	400	350	300										
			20	1000													1000		900	800	700	600										
		GSC80	5	250													250						225	200	175	150	125	100	75			
			10	500													500						450	400	350	300	250	200	150			
			20	1000													1000						900	800	700	600	500	400	300			
			32	1600													1600						1440	1280	1120	960	800	640	480			
		GSC120	5	250													250						225	200	175	167	158	150	133	125	117	
			10	500													500						450	400	350	333	317	300	267	250	233	
			20	1000													1000						900	800	700	667	633	600	533	500	467	
			32	1600													1600						1440	1280	1120	1067	1013	960	853	800	747	

*1:最高速度(mm/s)是以伺服马达最高转速3000RPM为基准。
The highest speed is based on the maximum servo motor's rpm (3000).

*2:标准行程内的黑色数字, 代表该行程内可使用的最高安全速度。若超过此速度, 滑台可能会有严重共振产生。
Written here is the standard storke's maximum safe speed. If over this speed, it may casue serious vibration.

导轨内嵌式皮带模组

Rail embedded conveyor belt slide table



GTC 50



GTC 80

GTC 50 导轨内嵌式皮带模组

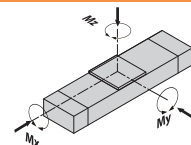
Rail embedded conveyor belt slide table

订购型号代码 Code

GTC 50	—	L40	—	500	—	D01	—	M10	—	P3	—	A001
本体型号 Item NO.		皮带轮导程 Pulley Lead		行程 Stroke		马达方向 Motor Mounting Direction		马达厂牌、功率 Motor Brand, Power Output		限位传感器数量 Photoelectric Sensor		特注式样 Special Order No.
				50-1500, 间隔Gap50		D01: 马达左折安装 Left Motor Mounting D02: 马达右折安装 Right Motor Mounting D03: 马达上折安装 UP Motor Mounting D04: 马达下折安装 Down Motor Mounting		M 三菱 Mitsubishi 10 100W P 松下 Panasonic 10 100W		P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark: NoSensor		未标记: 无 NoMark: NoSensor



最大静力和力矩 Max Static Forces And Torques



Type	GTC 50
■ M(x) (N·m)	103
■ M(y) (N·m)	103
■ M(z) (N·m)	144

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

马达安装方向 Motor Mounting Position Version

D01: 马达左折安装 Left Motor Mounting	D02: 马达右折安装 Right Motor Mounting	D03: 马达上折安装 UP Motor Mounting	D04: 马达下折安装 Down Motor Mounting

基本规格 Basic Specification

GTC 50		
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	±0.04
	皮带轮导程 Pulley Lead (mm)	40
	最高速度 Maximum Speed (mm/s)	2000
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg) 5 垂直使用Vertical (kg) /
基本规格 Basic Specification	定格推力 Rated Thrust (N)	48
	标准行程 Stroke (mm)	50-1500 mm /50 Pitch
	AC伺服马达容量 AC Servo Motor Output (W)	100
	皮带宽度 Belt Width (mm)	9
	联轴器 Coupling (mm)	8×8
原点感应器 Home Sensor		PM-Y45(NPN)

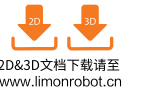
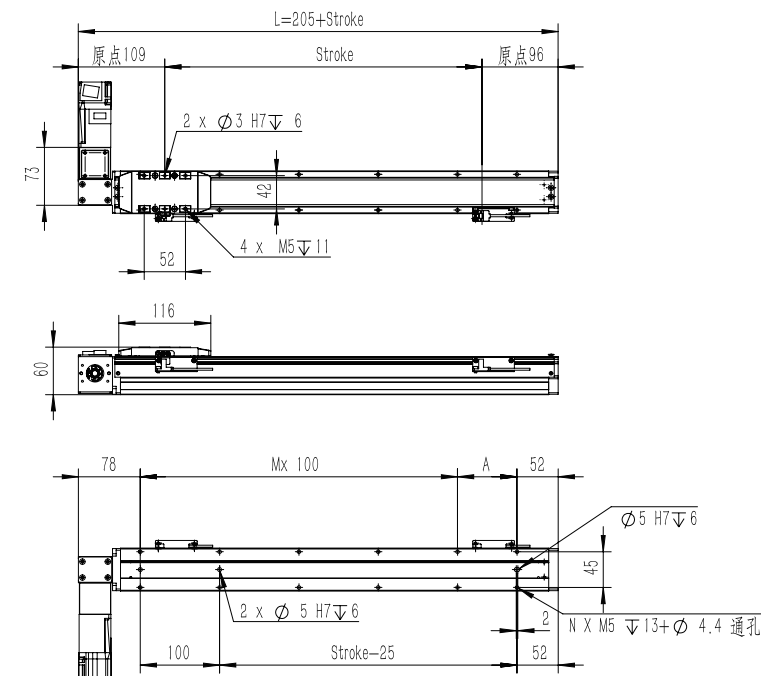
容许负载力矩表 Allowable Overhang

单位Unit:mm				单位Unit:mm			
水平安装 Horizontal Installation	A	B	C	壁挂安装 Wall Installation	A	B	C
2kg	320	120	130	2kg	130	120	320
3.5kg	220	70	80	3.5kg	75	70	320
5kg	175	55	60	5kg	65	55	170

导轨内嵌式皮带模组 GTC 50

Rail embedded conveyor belt slide table

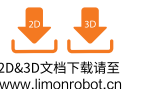
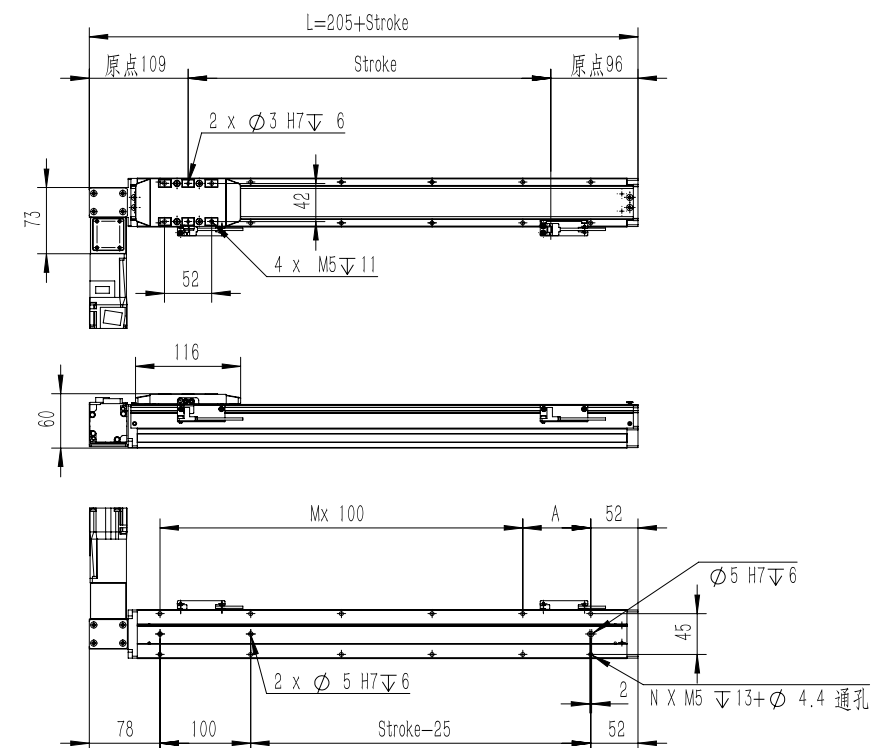
GTC 50-D01 马达左折安装 Left Motor Mounting



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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	255	305	355	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405	1455	1505	1555	1605	1655	1705
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
重量 Weight (kg)	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0

GTC 50-D02 马达右折安装 Right Motor Mounting



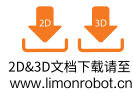
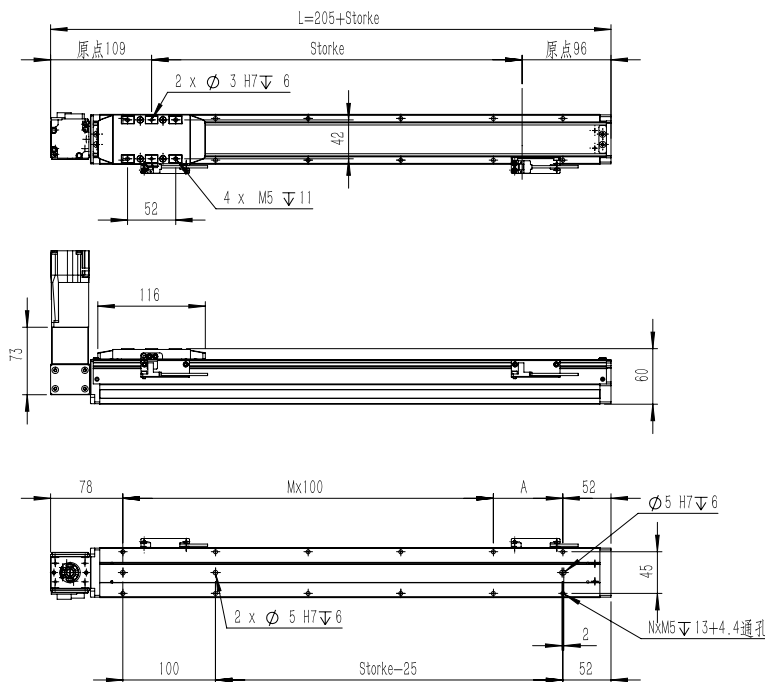
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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	255	305	355	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405	1455	1505	1555	1605	1655	1705
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
重量 Weight (kg)	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0

GTC 50 导轨内嵌式皮带模组

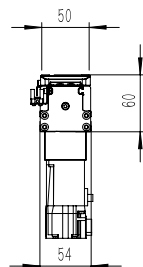
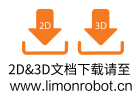
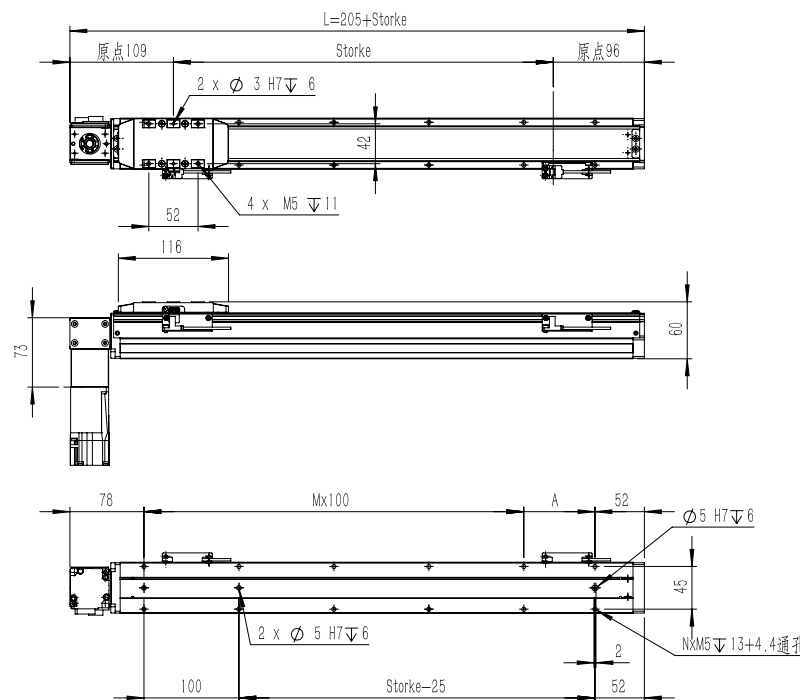
Rail embedded conveyor belt slide table

GTC 50-D03 马达上折安装 Up Motor Mounting



行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	255	305	355	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405	1455	1505	1555	1605	1655	1705
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
重量 Weight (kg)	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0

GTC 50-D04 马达下折安装 Down Motor Mounting



行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	255	305	355	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405	1455	1505	1555	1605	1655	1705
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
重量 Weight (kg)	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0

导轨内嵌式皮带模组

Rail embedded conveyor belt slide table

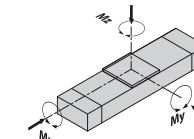
GTC 80

订购型号代码 Code

GTC 80	L48	500	D01	M40	P3	A001
本体型号 Item NO.	皮带轮导程 Pulley Lead	行程 Stroke 50-1500, 间隔Gap50	马达方向 Motor Mounting Direction D01: 马达左折安装 Left Motor Mounting D02: 马达右折安装 Right Motor Mounting D03: 马达上折安装 UP Motor Mounting D04: 马达下折安装 Down Motor Mounting	马达厂牌、功率 Motor Brand、Power Output M 三菱 Mitsubishi 40 400W P 松下 Panasonic 40 400W	限位传感器数量 Photoelectric Sensor P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark:NoSensor	特注式样 Special Order No. 未标记: 无 NoMark:NoSensor



最大静态力和力矩 Max Static Forces And Torques



Type	GTC 80
■M(x) (N·m)	318
■M(y) (N·m)	318
■M(z) (N·m)	626

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

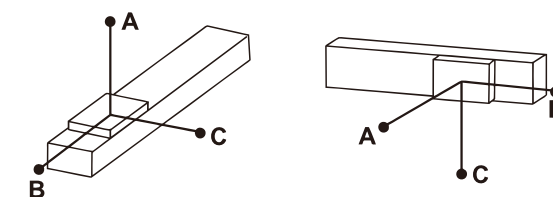
马达安装方向 Motor Mounting Position Version

D01: 马达左折安装 Left Motor Mounting	D02: 马达右折安装 Right Motor Mounting	D03: 马达上折安装 UP Motor Mounting	D04: 马达下折安装 Down Motor Mounting

基本规格 Basic Specification

GTC 80		
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	±0.04
	皮带轮导程 Pulley Lead (mm)	48
	最高速度 Maximum Speed (mm/s)	2400
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg) 15
		垂直使用Vertical (kg) /
基本规格 Basic Specification	定格推力 Rated Thrust (N)	80
	标准行程 Stroke (mm)	50-1500 mm /50 Pitch
	AC伺服马达容量 AC Servo Motor Output (W)	400
	皮带宽度 Belt Width (mm)	15
	联轴器 Coupling (mm)	10×14
原点感应器 Home Sensor		PM-Y45(NPN)

容许负载力矩表 Allowable Overhang

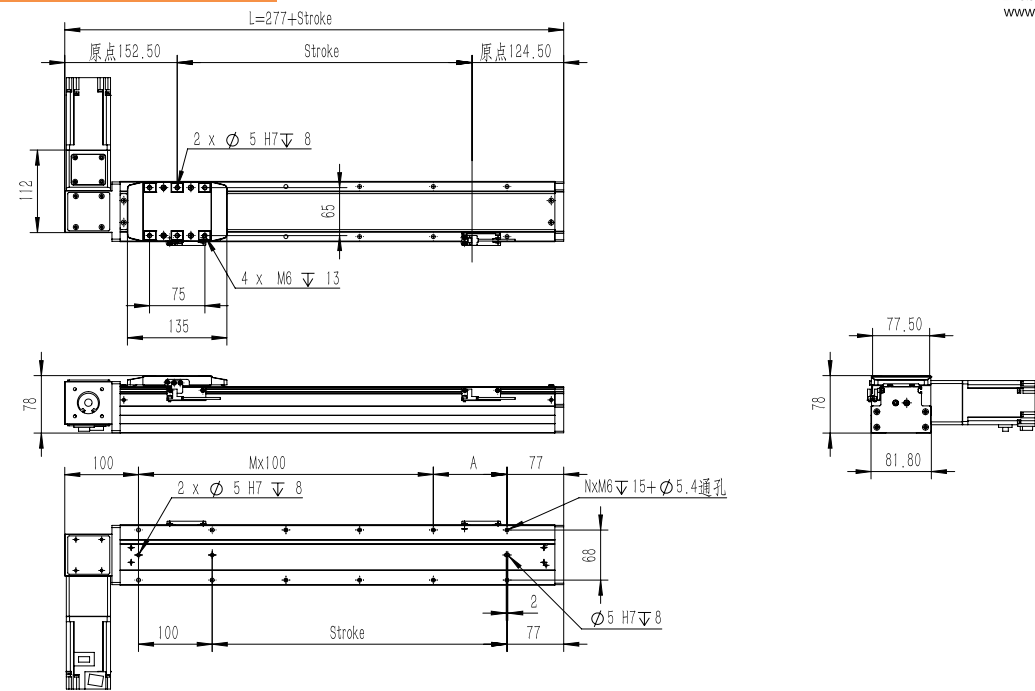
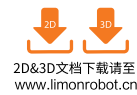


单位Unit:mm				单位Unit:mm			
水平安装 Horizontal Installation	A	B	C	壁挂安装 Wall Installation	A	B	C
5kg	850	322	395	5kg	355	310	532
10kg	560	185	226	10kg	210	196	455
15kg	473	135	156	15kg	171	155	435

GTC 80 导轨内嵌式皮带模组

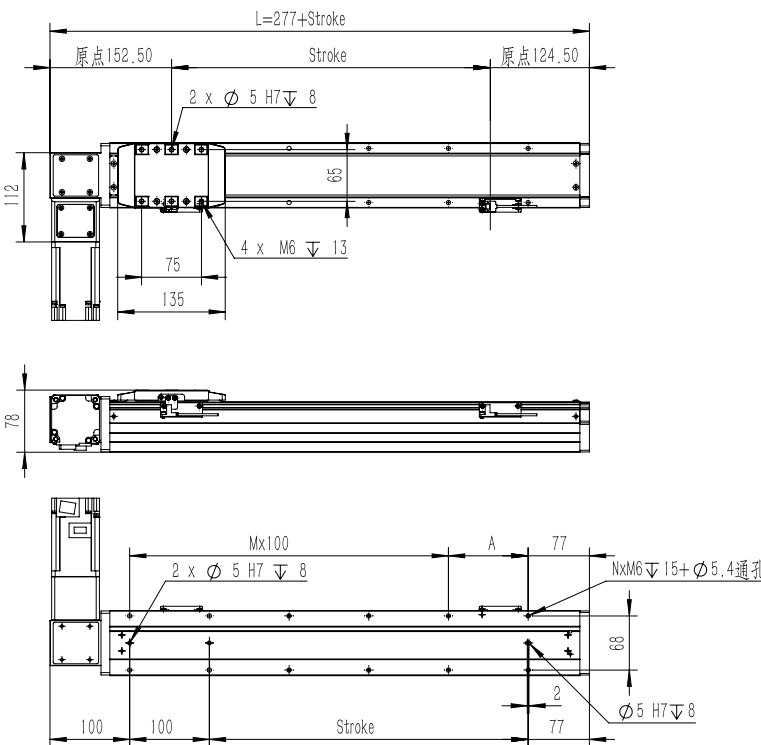
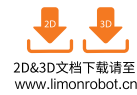
Rail embedded conveyor belt slide table

GTC 80-D1 马达左折安装 Left Motor Mounting



行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
重量 Weight (kg)	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.17	10.44	10.71	10.98

GTC 80-D2 马达右折安装 Right Motor Mounting

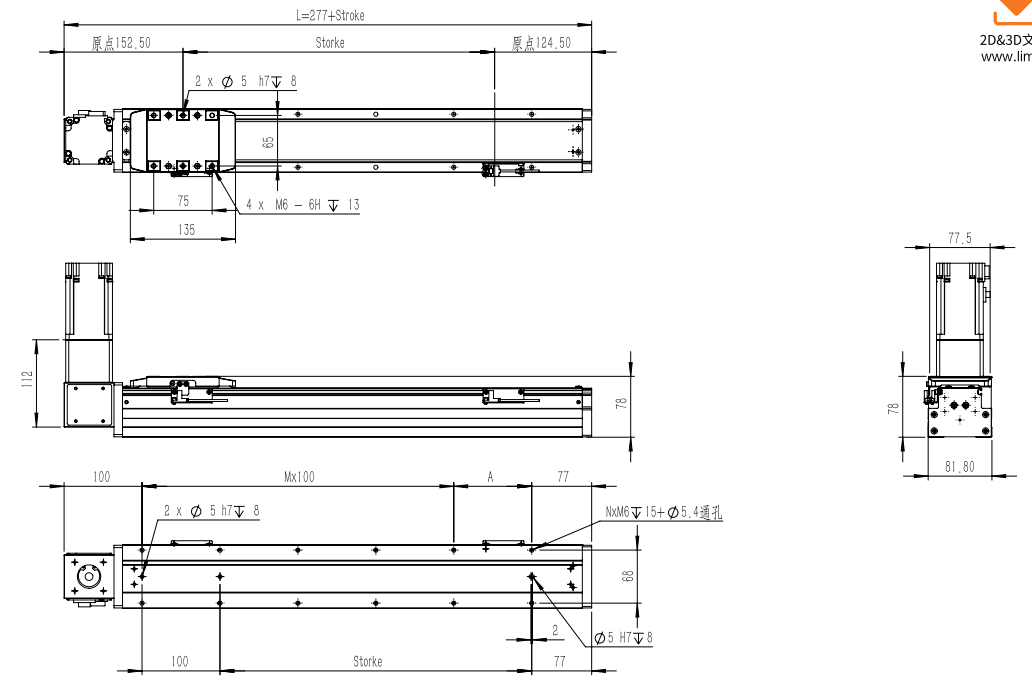
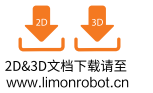


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
重量 Weight (kg)	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.17	10.44	10.71	10.98

导轨内嵌式皮带模组 GTC 80

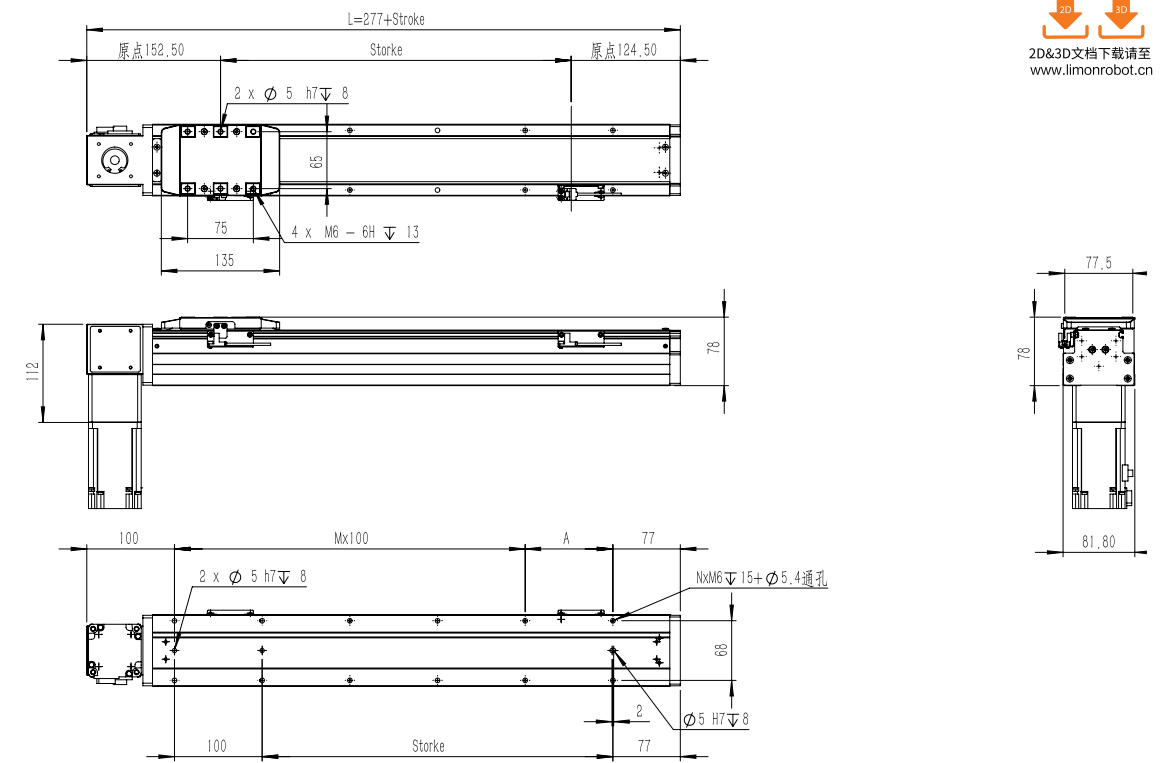
Rail embedded conveyor belt slide table

GTC 80-D03 马达上折安装 Up Motor Mounting



行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
重量 Weight (kg)	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.17	10.44	10.71	10.98

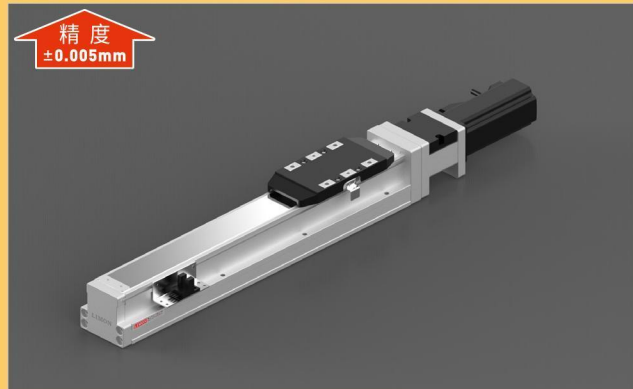
GTC 80-D04 马达下折安装 Down Motor Mounting



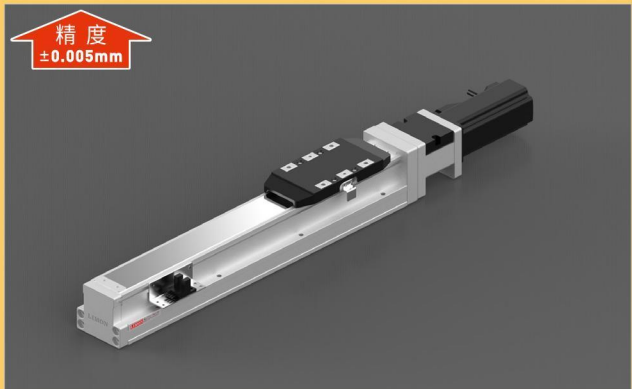
行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
重量 Weight (kg)	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.17	10.44	10.71	10.98

导轨内嵌洁净式滑台模组

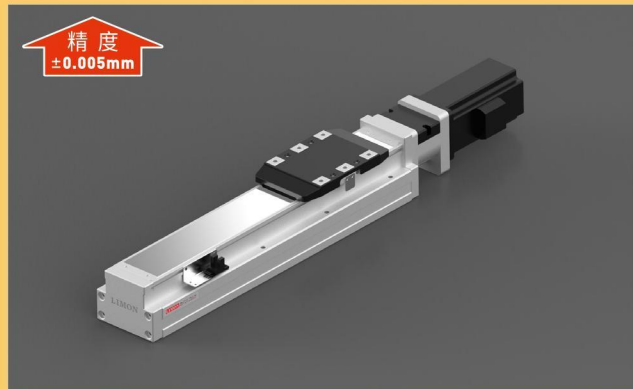
Embedded sliding table for dust-free workshop



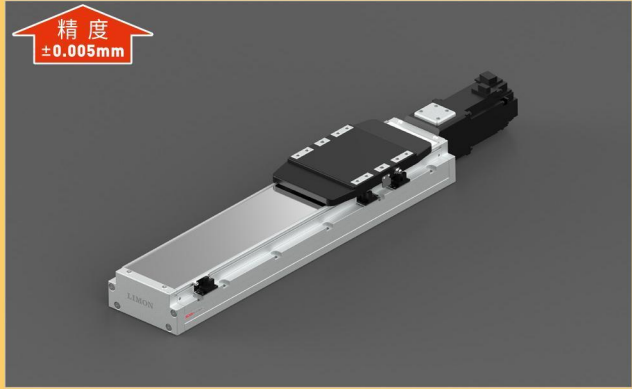
GCC 40



GCC 50



GCC 80



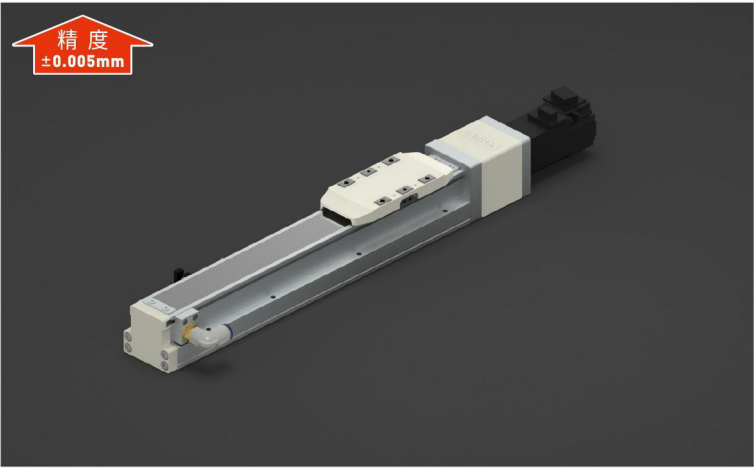
GCC 120

GCC 40 导轨内嵌洁净式滑台模组

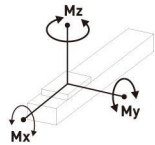
Embedded sliding table for dust-free workshop

订购型号代码 Code

GCC 40	06	500	MS	M40	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead	行程 Stroke	马达方向 Motor Mounting Direction	马达厂牌、功率 Motor Brand、Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	05 10	50-800, 间隔Gap50	MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting	M 三菱 Mitsubishi 10 100W P 松下 Panasonic 10 100W	P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark/NoSensor	未标记: 无 NoMark/NoSensor



最大静态力和力矩
Max Static Forces And Torques



Type	GCC 40
■ Mx (N·m)	116
■ My (N·m)	79
■ Mz (N·m)	79

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:
 $\frac{Mx}{Mx\ max.} + \frac{My}{My\ max.} + \frac{Mz}{Mz\ max.} \leq 1$

马达安装方向 Motor Mounting Position Version

MS Type 马达直接安装 Straight Motor Mounting	ML Type 马达左折安装 Left Motor Mounting	MR Type 马达右折安装 Right Motor Mounting	MD Type 马达下折安装 Down Motor Mounting

基本规格 Basic Specification

GCC 40			
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	±0.005	
	螺杆导程 Ball Screw Lead (mm)	6	12
	最高速度 Maximum Speed (mm/s)	300	600
	最大可搬重量 Maximum Payload	水平使用 Horizontal (kg)	20
		垂直使用 Vertical (kg)	8
基本规格 Basic Specification	定格推力 Rated Thrust (N)	141	71
	标准行程 Stroke (mm)	50-800mm/50 Pitch	
	AC伺服马达容量 AC Servo Motor Output (W)	100	
	滚珠螺杆外径 Ball Screw Diameter (mm)	C7 Ø10	
	联轴器 Coupling (mm)	7x8	
基本规格 Basic Specification	原点感应器 Home Sensor	PM-Y45 (NPN)	

容许负载力矩表 Allowable Overhang

Diagram A shows a horizontal installation of a rectangular block. A vertical line labeled 'A' indicates the height of the block. A horizontal line labeled 'B' indicates the width of the block. A horizontal line labeled 'C' indicates the overhang of the block.

单位Unit:mm

Diagram B shows a wall installation of a rectangular block. A vertical line labeled 'A' indicates the height of the block. A horizontal line labeled 'B' indicates the width of the block. A horizontal line labeled 'C' indicates the overhang of the block.

单位Unit:mm

Diagram C shows a vertical installation of a rectangular block. A vertical line labeled 'A' indicates the height of the block. A horizontal line labeled 'B' indicates the width of the block. A horizontal line labeled 'C' indicates the overhang of the block.

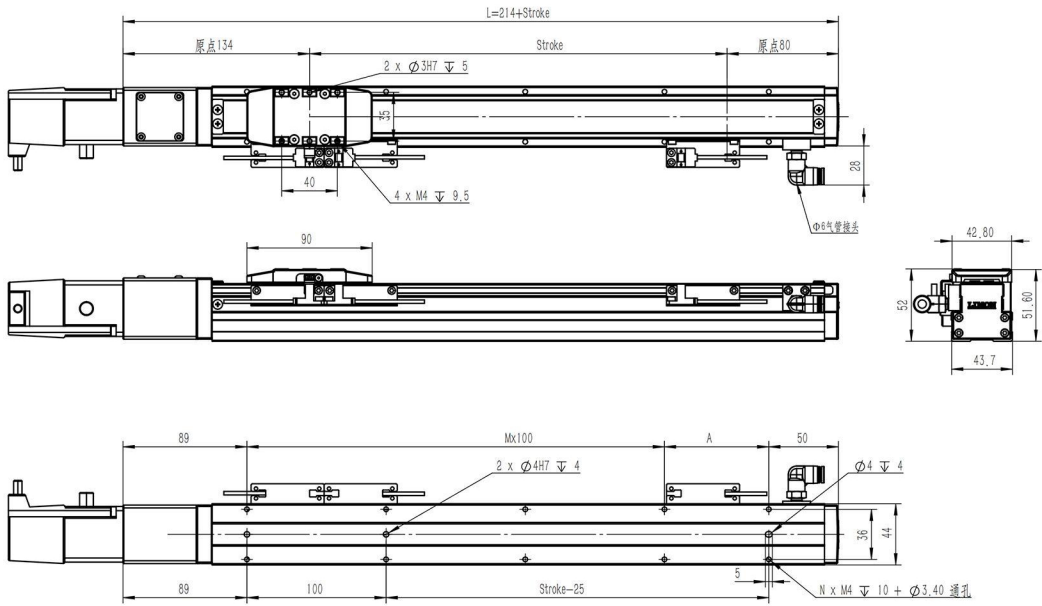
单位Unit:mm

水平安装 Horizontal Installation					壁挂安装 Wall Installation					垂直安装 Vertical Installation				
		A	B	C			A	B	C			A	C	
导程 06 lead	10kg	550	53	70	导程 06 lead	10kg	72	52	550	导程 06 lead	4kg	150	150	
	15kg	350	32	45		15kg	45	32	345		8kg	75	75	
	20kg	250	22	31			-	-	-					
导程 12 lead	8kg	305	59	75	导程 12 lead	8kg	75	59	300	导程 12 lead	2kg	260	260	
	10kg	240	45	57		10kg	58	45	240		3.5kg	150	150	
	12kg	195	37	47			12kg	47	37			190	-	-

导轨内嵌洁净式滑台模组 GCC 40

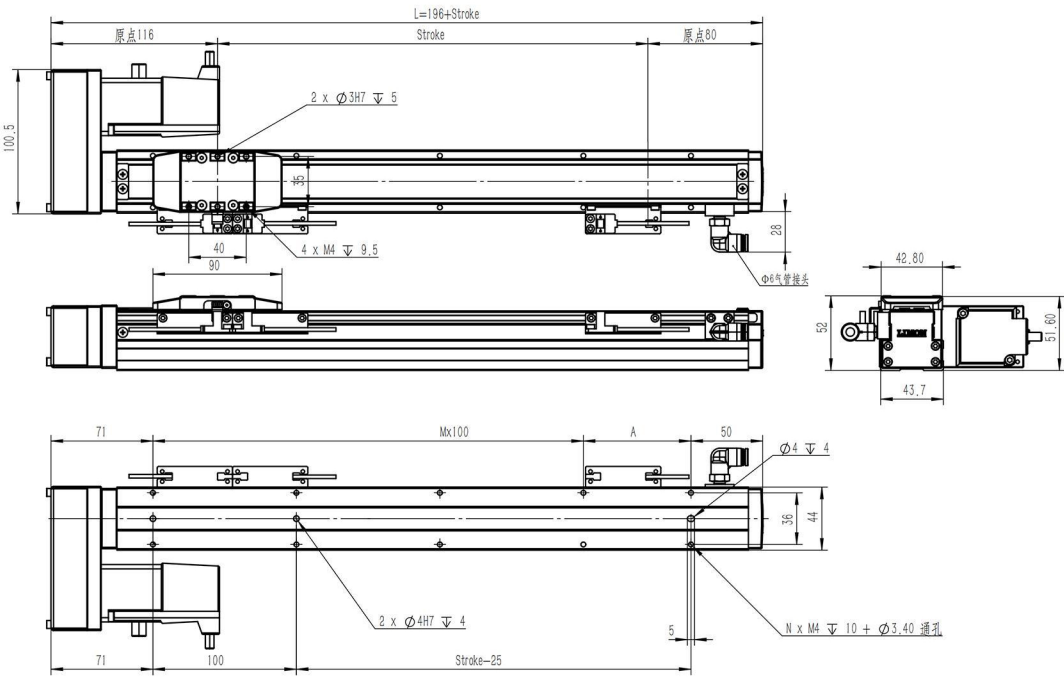
Embedded sliding table for dust-free workshop

GCC 40-MS
马达直接安装 Straight Motor Mounting



行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	264	314	364	414	464	514	564	614	664	714	764	814	864	914	964	1014
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight (kg)	1.23	1.41	1.59	1.77	1.95	2.13	2.31	2.49	2.67	2.85	3.03	3.21	3.39	3.57	3.75	3.93

GCC 40-ML
马达左折安装 Left Motor Mounting

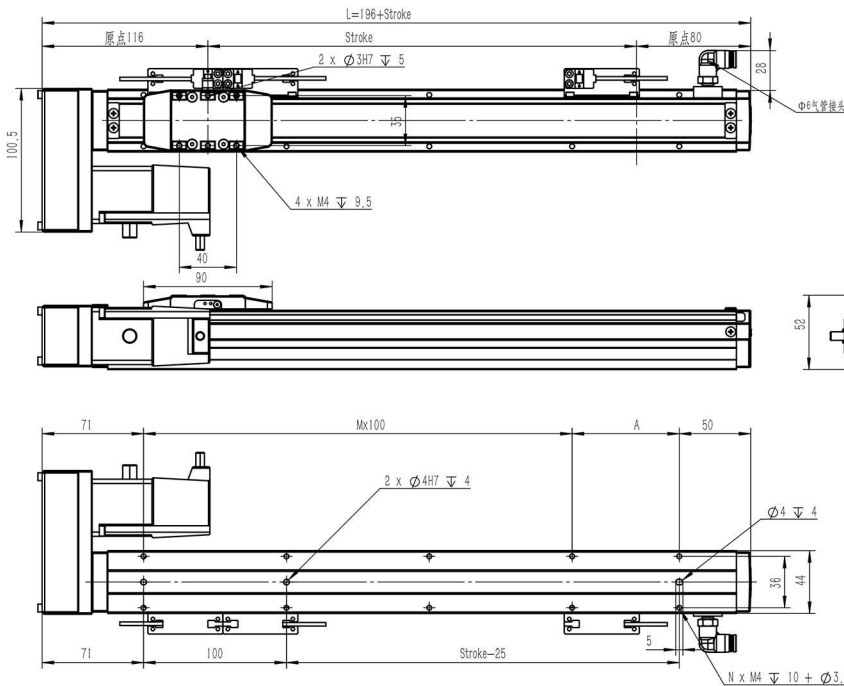


行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight (kg)	1.34	1.52	1.7	1.88	2.06	2.24	2.42	2.6	2.78	2.96	3.14	3.32	3.5	3.68	3.86	4.04

GCC40 导轨内嵌洁净式滑台模组

Embedded sliding table for dust-free workshop

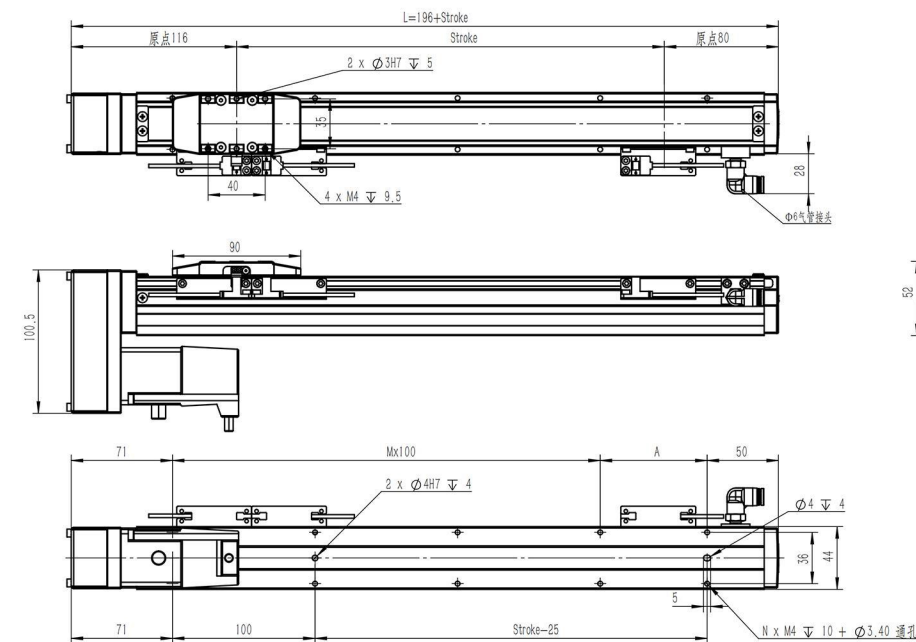
GCC 40-MR 马达右折安装 Right Motor Mounting



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www.limonrobot.cn

行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight(kg)	1.34	1.52	1.7	1.88	2.06	2.24	2.42	2.6	2.78	2.96	3.14	3.32	3.5	3.68	3.86	4.04

GCC 40-MD 马达下折安装 Down Motor Mounting



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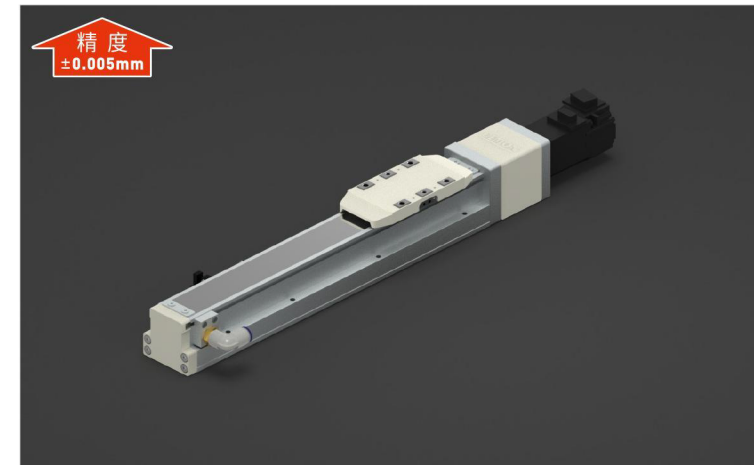
行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight(kg)	1.34	1.52	1.7	1.88	2.06	2.24	2.42	2.6	2.78	2.96	3.14	3.32	3.5	3.68	3.86	4.04

导轨内嵌洁净式滑台模组 GCC 50

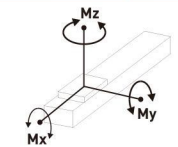
Inserted sliding platform of guide rail

订购型号代码 Code

GCC 50	L10	500	MS	M40	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead	行程 Stroke	马达方向 Motor Mounting Direction	马达厂牌、功率 Motor Brand, Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	05 10 20	50-800, 间隔Gap50	MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting	M 三菱 Mitsubishi 10 100W P 松下 Panasonic 10 100W	P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark/NoSensor	未标记: 无 NoMark/NoSensor



最大静态力和力矩 Max Static Forces And Torques

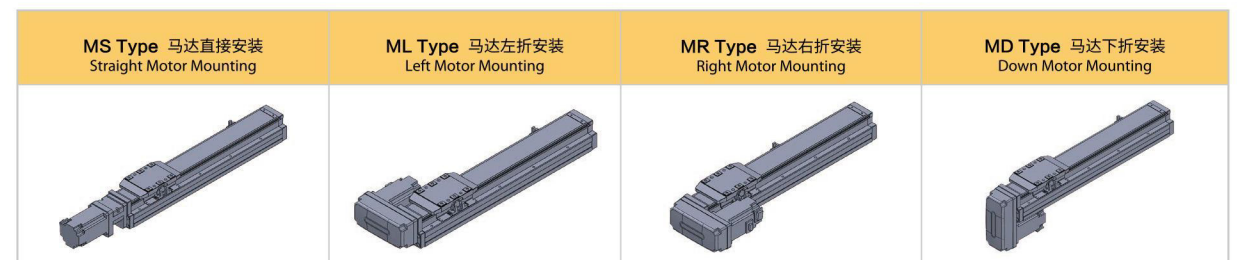


Type	GCC 50
■ Mx (N·m)	103
■ My (N·m)	103
■ Mz (N·m)	144

除了满足最大负载和力矩外, 还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

马达安装方向 Motor Mounting Position Version



基本规格 Basic Specification

GCC 50			
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	±0.005	
	螺杆导程 Ball Screw Lead (mm)	5	10 20
	最高速度 Maximum Speed (mm/s)	250	500 1000
	最大可搬重量 Maximum Payload	水平使用 Horizontal (kg)	30 15 10
		垂直使用 Vertical (kg)	10 5 2.5
基本规格 Basic Specification	定格推力 Rated Thrust (N)	341	170 85
	标准行程 Stroke (mm)	50-800 mm/ 50 Pitch	
	AC伺服马达容量 AC Servo Motor Output (W)	100	
	滚珠螺杆外径 Ball Screw Diameter (mm)	C7 Ø12	
	联轴器 Coupling (mm)	7 × 8	
	原点感应器 Home Sensor	PM-Y45 (NPN)	

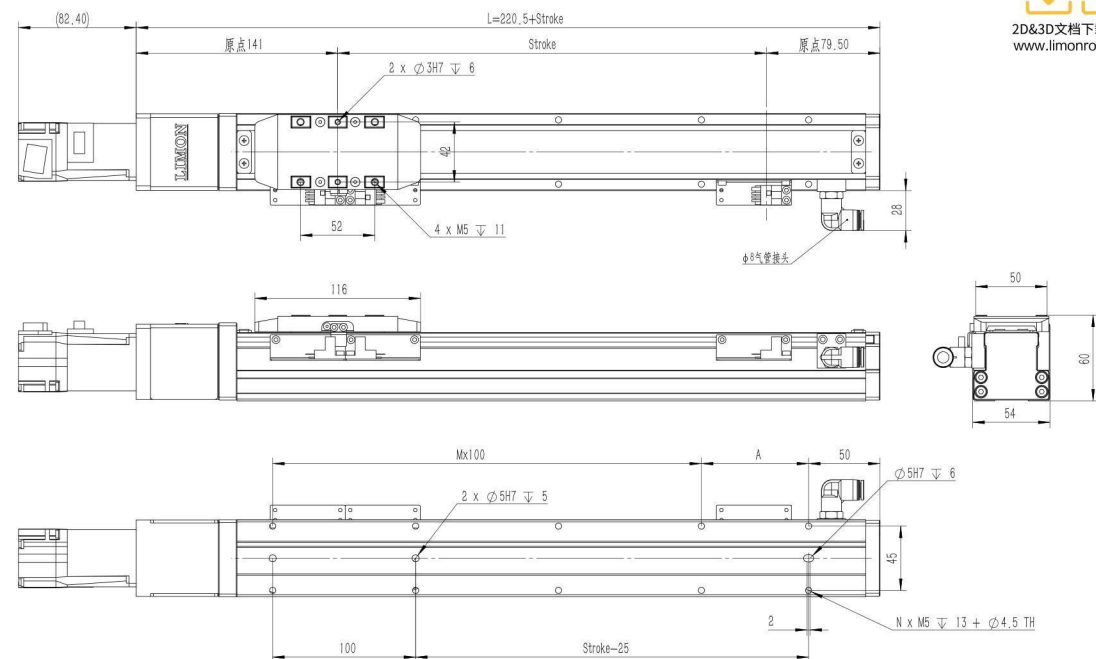
容许负载力矩表 Allowable Overhang

单位Unit:mm	A B C		
	单位Unit:mm		
单位Unit:mm	A B C		
	单位Unit:mm		
单位Unit:mm	A B C		
	单位Unit:mm		
单位Unit:mm	A B C		
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	单位Unit:mm		
单位Unit:mm	A B C		

GCC 50 导轨内嵌洁净式滑台模组

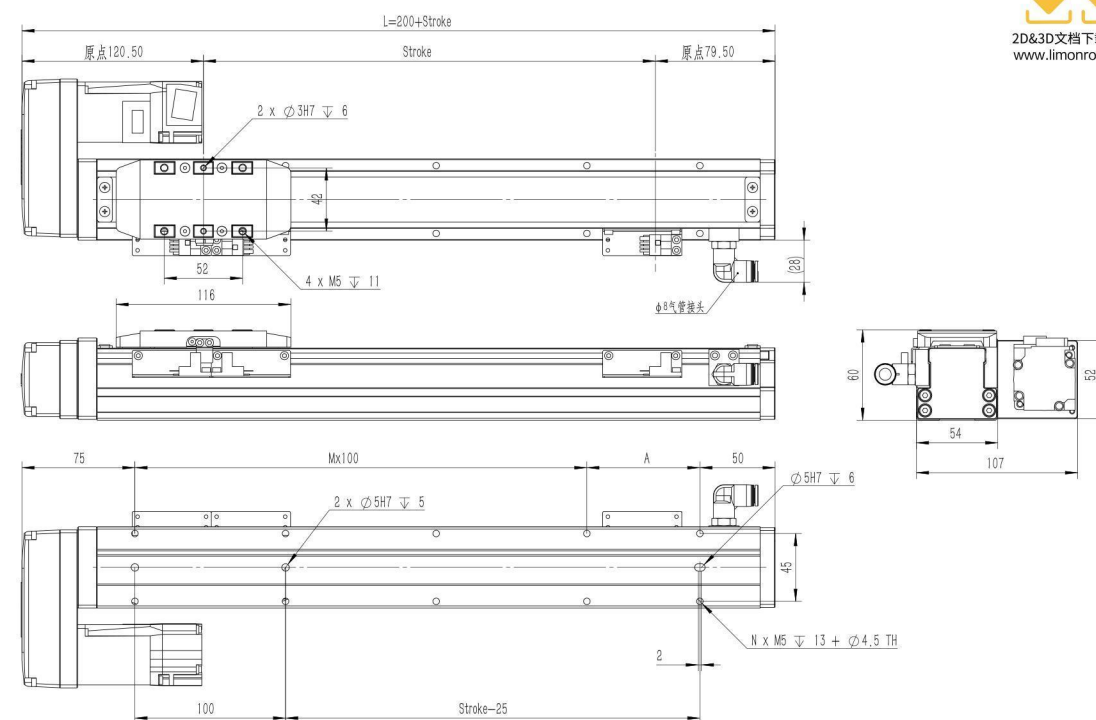
Embedded sliding table for dust-free workshop

GCC 50-MS 马达直接安装 Straight Motor Mounting



行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight(kg)	0.97	1.16	1.36	1.56	1.75	1.95	2.15	2.34	2.54	2.74	2.93	3.13	3.33	3.52	3.72	3.92

GCC 50-ML 马达左折安装 Left Motor Mounting

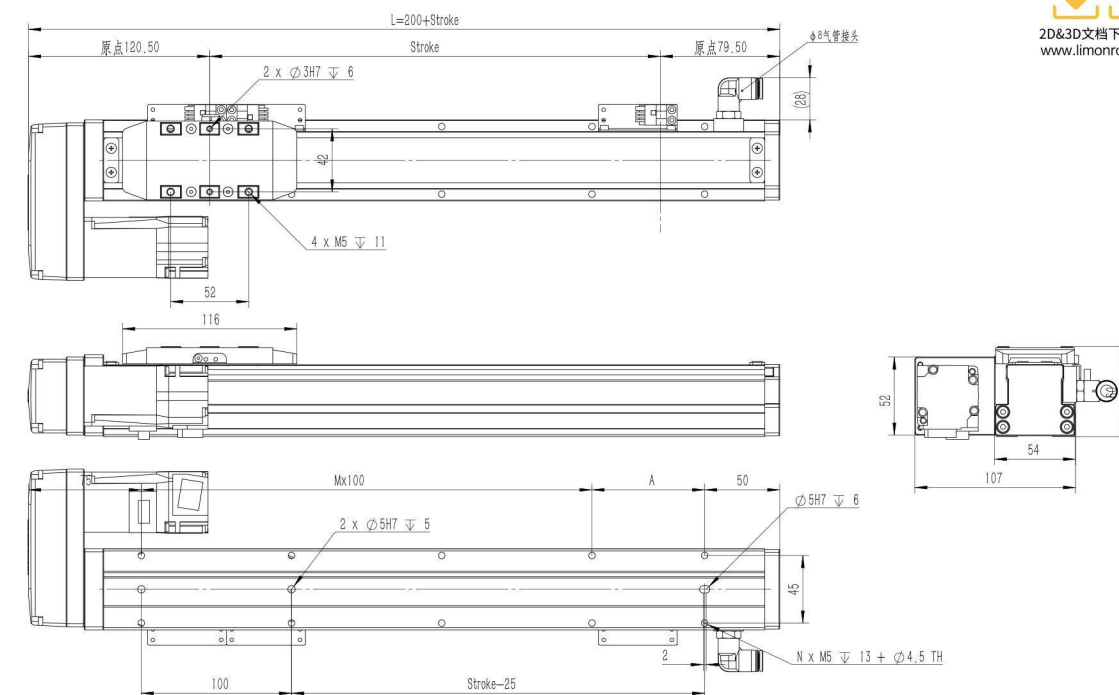


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight(kg)	1.14	1.33	1.53	1.73	1.92	2.12	2.32	2.51	2.71	2.91	3.1	3.3	3.5	3.69	3.89	4.09

导轨内嵌洁净式滑台模组 GCC 50

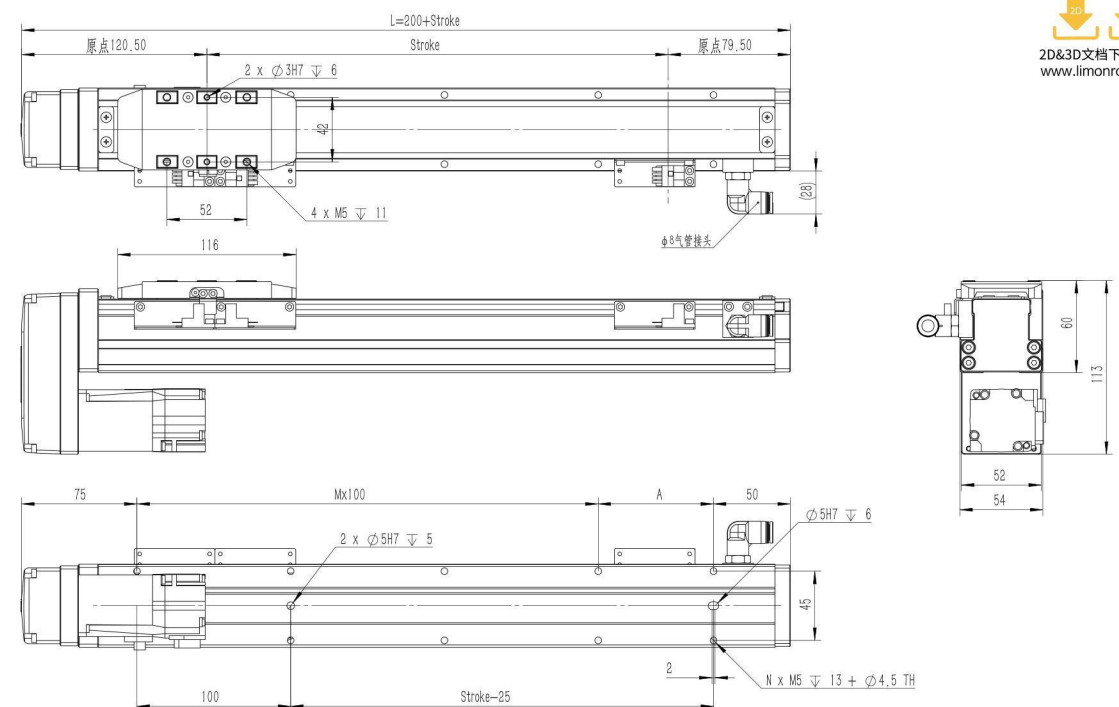
Embedded sliding table for dust-free workshop

GCC 50-MR 马达右折安装 Right Motor Mounting



行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight(kg)	1.14	1.33	1.53	1.73	1.92	2.12	2.32	2.51	2.71	2.91	3.1	3.3	3.5	3.69	3.89	4.09

GCC 50-MD 马达下折安装 Down Motor Mounting



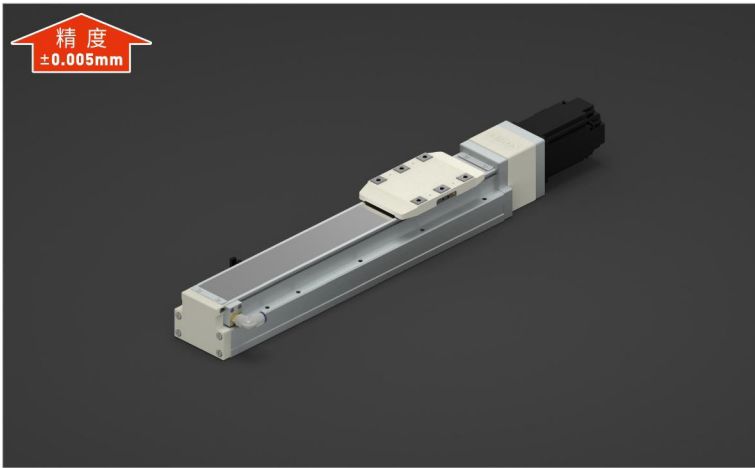
行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight(kg)	1.14	1.33	1.53	1.73	1.92	2.12	2.32	2.51	2.71	2.91	3.1	3.3	3.5	3.69	3.89	4.09

GCC 80 导轨内嵌洁净式滑台模组

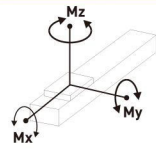
Embedded sliding table for dust-free workshop

订购型号代码 Code

GCC 80	L10	500	MS	M40	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead	行程 Stroke	马达方向 Motor Mounting Direction	马达厂牌、功率 Motor Brand, Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	05 10 20 32	50-1100, 间隔Gap50	MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting	M 三菱 Mitsubishi 20 200W 40 400W P 松下 Panasonic 20 200W 40 400W	P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark:NoSensor	未标记: 无 NoMark:NoSensor



最大静态力和力矩 Max Static Forces And Torques



Type	GCC 80
■ Mx (N · m)	318
■ My (N · m)	318
■ Mz (N · m)	626

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:
 $\frac{Mx}{Mx\ max} + \frac{My}{My\ max} + \frac{Mz}{Mz\ max} \leq 1$

马达安装方向 Motor Mounting Position Version

MS Type 马达直接安装 Straight Motor Mounting	ML Type 马达左折安装 Left Motor Mounting	MR Type 马达右折安装 Right Motor Mounting	MD Type 马达下折安装 Down Motor Mounting

基本规格 Basic Specification

GCC 80	
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm) ±0.005
	螺杆导程 Ball Screw Lead (mm) 5 10 20 32
	最高速度 Maximum Speed (mm/s) 250 500 1000 1600
	最大可搬重量 Maximum Payload
	水平使用Horizontal (kg) 50 30 18 13 垂直使用Vertical (kg) 15 8 3 2
基本规格 Basic Specification	定格推力 Rated Thrust (N) 1388 694 347 217
	标准行程 Stroke (mm) 50-1100 mm/ 50 Pitch
	AC伺服马达容量 AC Servo Motor Output (W) 400
	滚珠螺杆外径 Ball Screw Diameter (mm) C7 Ø16
	联轴器 Coupling (mm) 10 × 14
原点感应器 Home Sensor PM-Y45(NPN)	

容许负载力矩表 Allowable Overhang

单位Unit:mm

单位Unit:mm

单位Unit:mm

水平安装
Horizontal Installation

	A	B	C
导程 5 lead	20kg	1560	153 237
	35kg	890	81 126
	50kg	550	53 82
导程 10 lead	10kg	1730	286 416
	20kg	839	136 196
	30kg	541	85 124
导程 20 lead	6kg	1213	403 493
	9kg	800	264 323
	18kg	592	194 238

壁挂安装
Wall Installation

	A	B	C
导程 5 lead	20kg	214	153 1435
	35kg	113	81 845
	50kg	74	83 506
导程 10 lead	10kg	370	286 1400
	20kg	176	136 800
	30kg	12	86 495
导程 20 lead	6kg	444	403 760
	9kg	292	264 277
	18kg	214	194 544

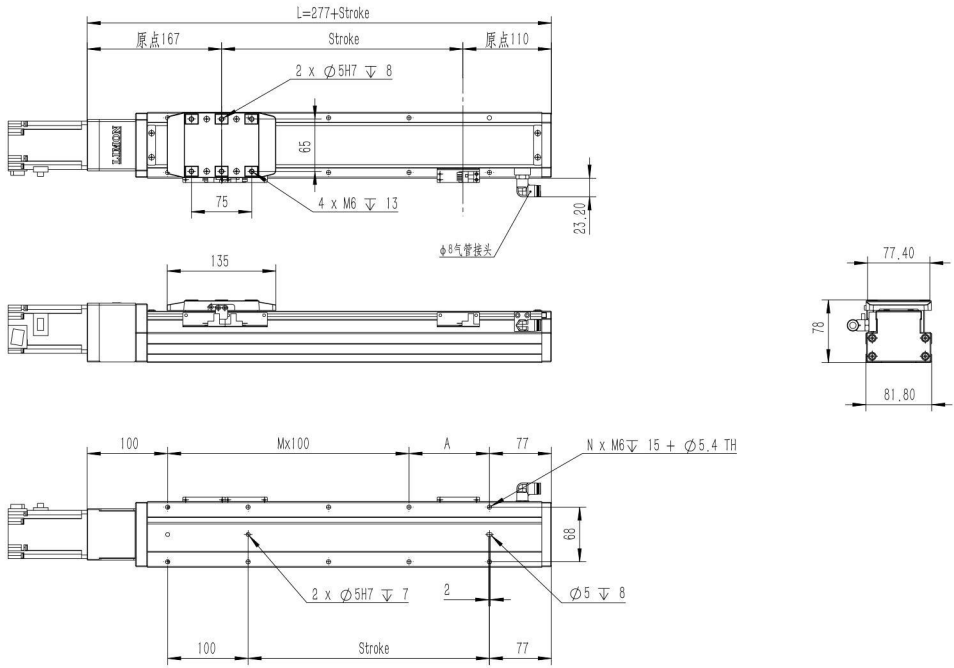
垂直安装
Vertical Installation

	A	C
导程 5 lead	10kg	331 331
	15kg	220 220
	-	- -
导程 10 lead	5kg	589 589
	8kg	368 368
	-	- -
导程 20 lead	3kg	935 935
	-	- -
	-	- -

导轨内嵌洁净式滑台模组 GCC 80

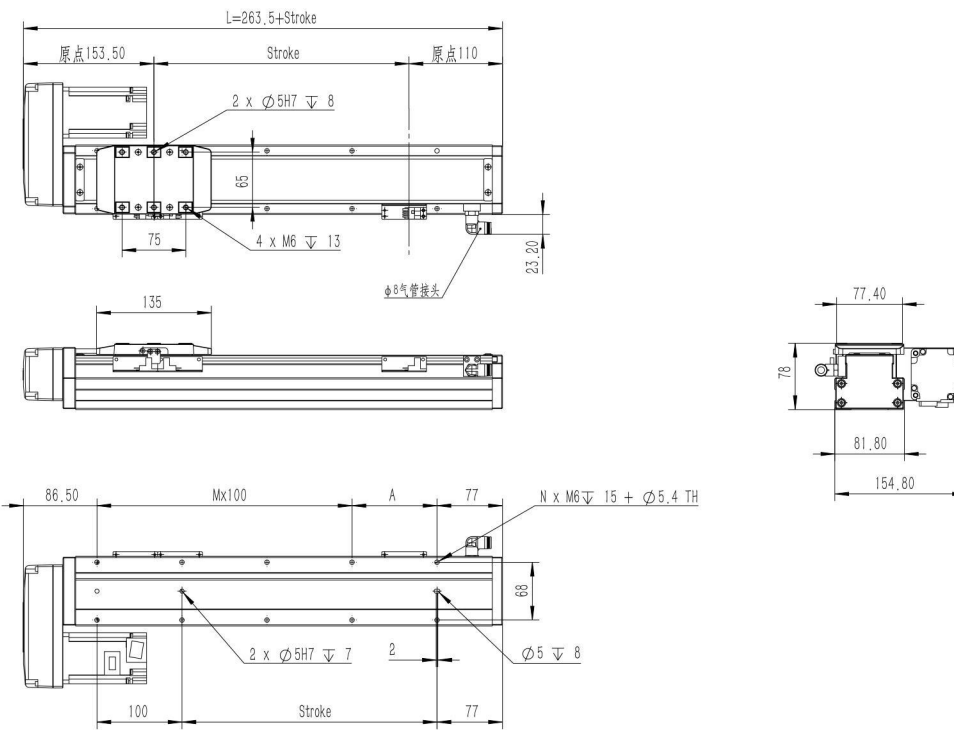
Inserted sliding platform of guide rail

GCC 80-MS 马达直接安装 Straight Motor Mounting



行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
重量 Weight(kg)	2.68	3.04	3.41	3.77	4.14	4.5	4.87	5.23	5.6	5.96	6.33	6.69	7.06	7.42	7.79	8.15	8.52	8.88	9.25	9.61	9.98	10.4

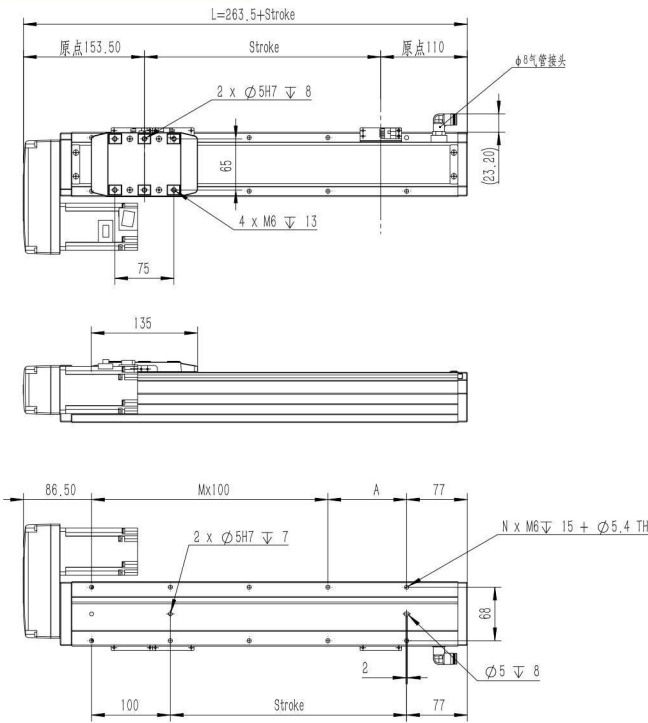
GCC 80-ML 马达左折安装 Left Motor Mounting



行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	1063.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
重量 Weight (kg)	2.69	3.1	3.62	4.14	4.66	5.18	5.7	6.22	6.74	7.26	7.78	8.3	8.82	9.34	9.86	10.4	10.9	11.4	11.94	12.46	13	13.4

GCC 80 导轨内嵌洁净式滑台模组
Embedded sliding table for dust-free workshop

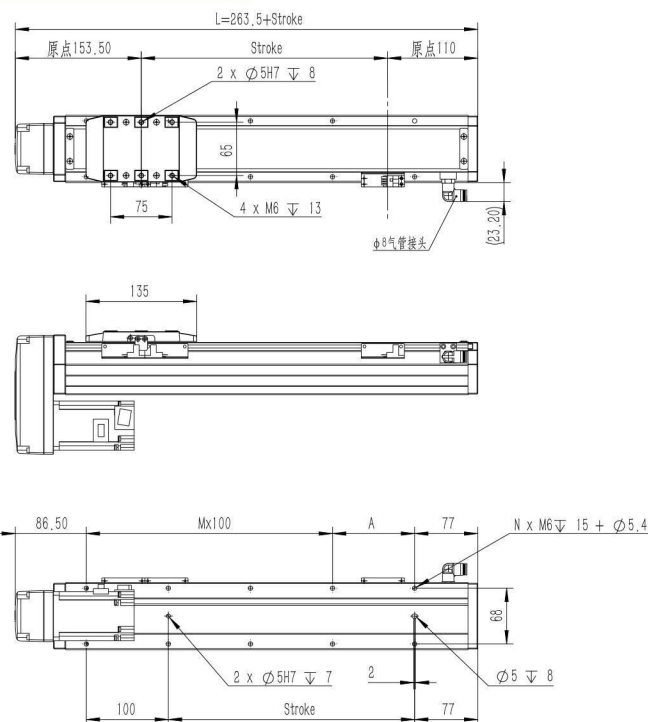
GCC 80-MR
马达右折安装 Right Motor Mounting



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行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	1063.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
重量 Weight (kg)	2.69	3.1	3.62	4.14	4.66	5.18	5.7	6.22	6.74	7.26	7.78	8.3	8.82	9.34	9.86	10.4	10.9	11.4	11.94	12.46	13	13.4

GCC 80-MD
马达下折安装 Down Motor Mounting



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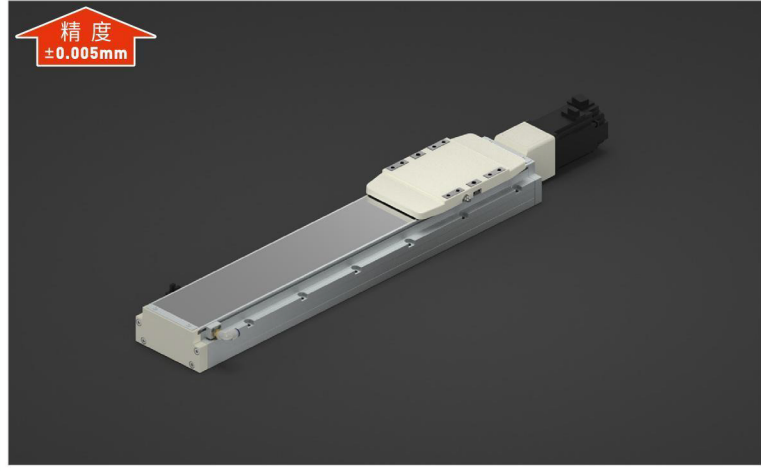
行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	1063.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
重量 Weight (kg)	2.69	3.1	3.62	4.14	4.66	5.18	5.7	6.22	6.74	7.26	7.78	8.3	8.82	9.34	9.86	10.4	10.9	11.4	11.94	12.46	13	13.4

导轨内嵌洁净式滑台模组
Inserted sliding platform of guide rail

GCC 120

订购型号代码 Code

GCC 120	L10	500	MS	M40	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead	行程 Stroke	马达方向 Motor Mounting Direction	马达品牌、功率 Motor Brand、Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	05 10 20 32	50-1250, 间隔Gap50	MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting	M 三菱 Mitsubishi 20 200W 40 400W P 松下 Panasonic 20 200W 40 400W	P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark/NoSensor	未标记: 无 NoMark/NoSensor



最大静态力和力矩
Max Static Forces And Torques

Type	GCC 120
Mx (N·m)	606
My (N·m)	606
Mz (N·m)	1168

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:
 $\frac{Mx}{Mx\max} + \frac{My}{My\max} + \frac{Mz}{Mz\max} \leq 1$

马达安装方向 Motor Mounting Position Version

MS Type 马达直接安装 Straight Motor Mounting	ML Type 马达左折安装 Left Motor Mounting	MR Type 马达右折安装 Right Motor Mounting	MD Type 马达下折安装 Down Motor Mounting

基本规格 Basic Specification

GCC 120

技术 参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)		±0.005			
	螺杆导程 Ball Screw Lead (mm)		5	10	20	32
	最高速度 Maximum Speed (mm/s)		250	500	1000	1600
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	110	88	40	30
		垂直使用Vertical (kg)	33	22	10	8
	定格推力 Rated Thrust (N)		1388	694	347	218
基本 规格 Basic Specification	标准行程 Stroke (mm)		50-1250 mm/ 50 Pitch			
	AC伺服马达容量 AC Servo Motor Output (W)		400			
	滚珠螺杆外径 Ball Screw Diameter (mm)		C7 Ø16			
	联轴器 Coupling (mm)		10 × 14			
	原点感应器 Home Sensor		PM-Y45 (NPN)			

容许负载力矩表 Allowable Overhang

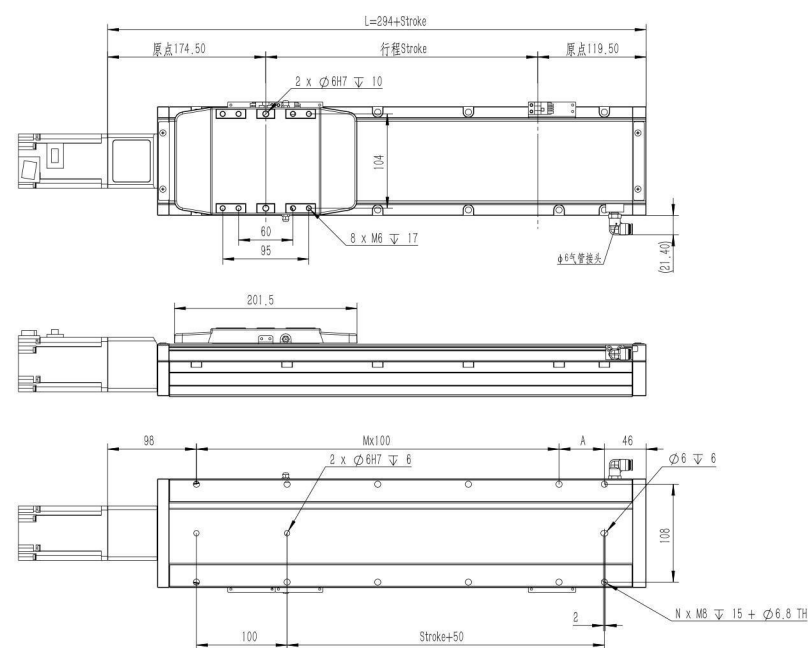
水平安装 Horizontal Installation					壁挂安装 Wall Installation					垂直安装 Vertical Installation				
导程 lead	A	B	C	单位Unit:mm	导程 lead	A	B	C	单位Unit:mm	导程 lead	A	B	C	单位Unit:mm
5	60kg	2850	250	340	5	55kg	280	280	3300	5	15kg	1200	1200	
10	80kg	2100	180	250	10	75kg	200	195	2400	10	22kg	820	820	
20	110kg	1500	120	170	20	110kg	130	125	1550	20	33kg	550	550	
32	15kg	1100	570	550	32	30kg	210	270	520	32	5kg	1600	1600	
	25kg	620	330	320		-	-	-	-		8kg	1000	1000	
	30kg	520	270	260		-	-	-	-		-	-	-	

GCC 120 导轨内嵌洁净式滑台模组

Embedded sliding table for dust-free workshop

GCC 120-MS 马达直接安装 Straight Motor Mounting

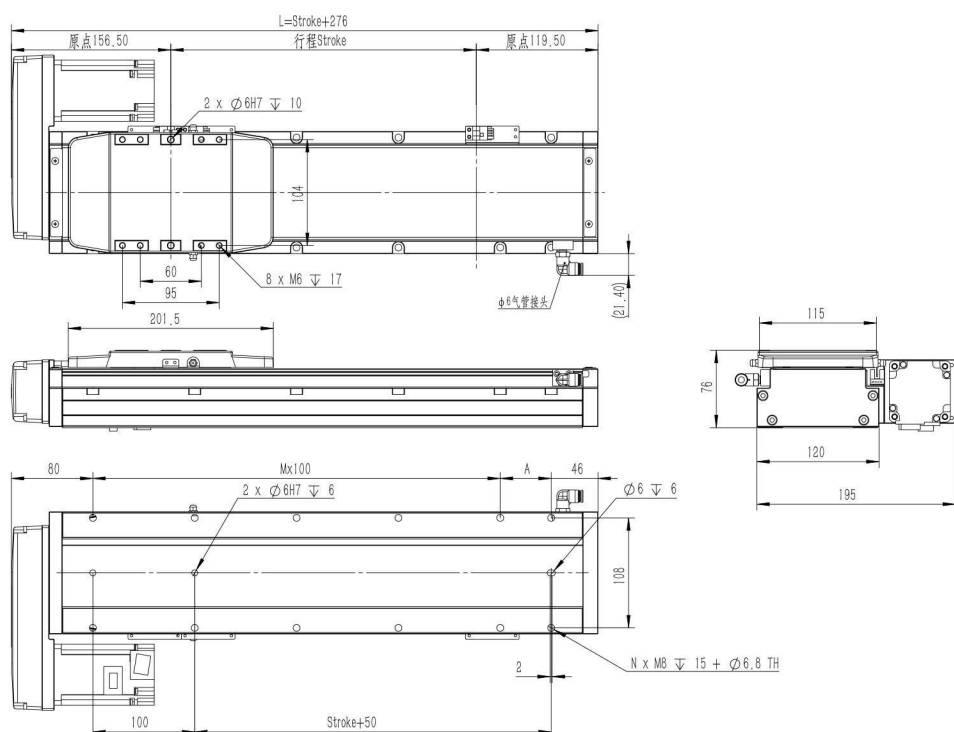
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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
重量 Weight(kg)	5.05	5.4	5.75	6.1	6.45	6.8	7.15	7.5	7.85	8.2	8.55	8.9	9.25	9.6	9.95	10.3	10.7	11	11.4	11.7	12.1	12.4	12.8	13.1	13.5

GCC 120-ML 马达左折安装 Left Motor Mounting

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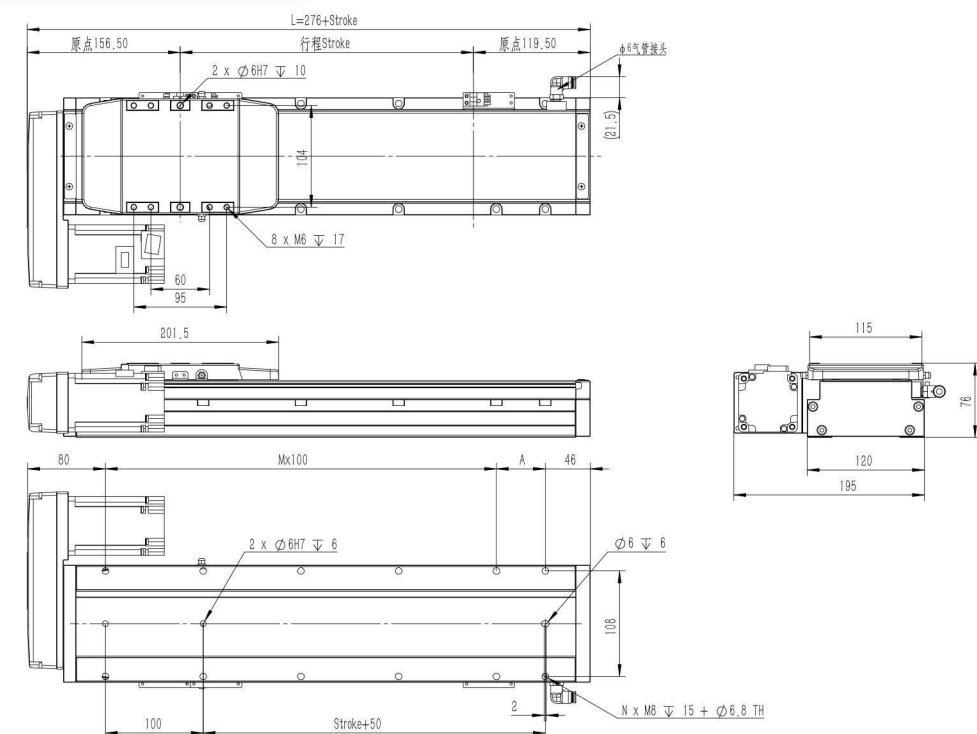
行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	326	376	426	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
重量 Weight(kg)	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.28	13.61

导轨内嵌洁净式滑台模组 GCC 120

Embedded sliding table for dust-free workshop

GCC 120-MR 马达右折安装 Right Motor Mounting

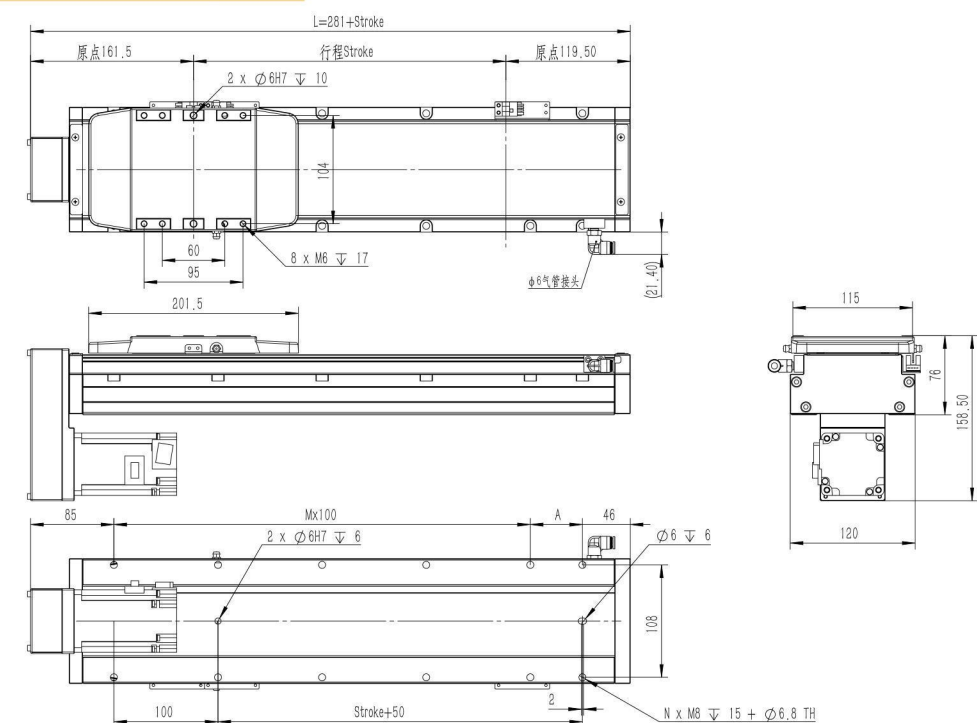
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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	326	376	426	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
重量 Weight(kg)	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.28	13.61

GCC 120-MD 马达下折安装 Down Motor Mounting

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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
重量 Weight(kg)	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.28	13.61

KS系列模组

KS series module



KS 40



KS 50



KS 60



KS 86



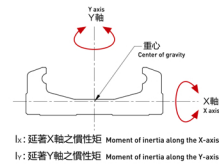
KS 100

KS 40 KS系列模组 KS series module

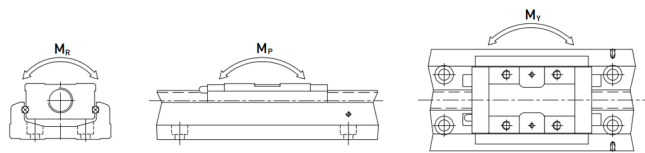
□订购型号代码 Code

KS40D	05	P	—	200	A	2	—	F0	C	S0
本体型号 Item NO.	螺杆导程 Travel	精度等级 Accuracy Grade		轨道长度mm Track Length	滑座形式 Slide Types	滑座数量 Slide Number		马达连接法兰 Motor Connection	护盖 Protecting Cover	极限开关 Limit Switch
	01 05	P: 精密级 Precision Class C: 一般级 Normal Class		100 150 200	A:标准型 Standard Type S:轻载型 Light Load Type	1 2		F0/F1/F2/H0	C:铝护套 Aluminum Cover B:伸缩护套 Telescopic cover 无标记:无护套 None: no cover	S0:极限轨道 S0: Extreme orbit S1: 极限轨道+3个光 S1: Extreme orbit+ 3 Photoelectric devices

注:详见P53.
Note:
Refer to catalogue P53

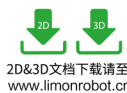


慣性矩	型號	I_x	I_y
	KS40D	3.533×10^3	5.317×10^4

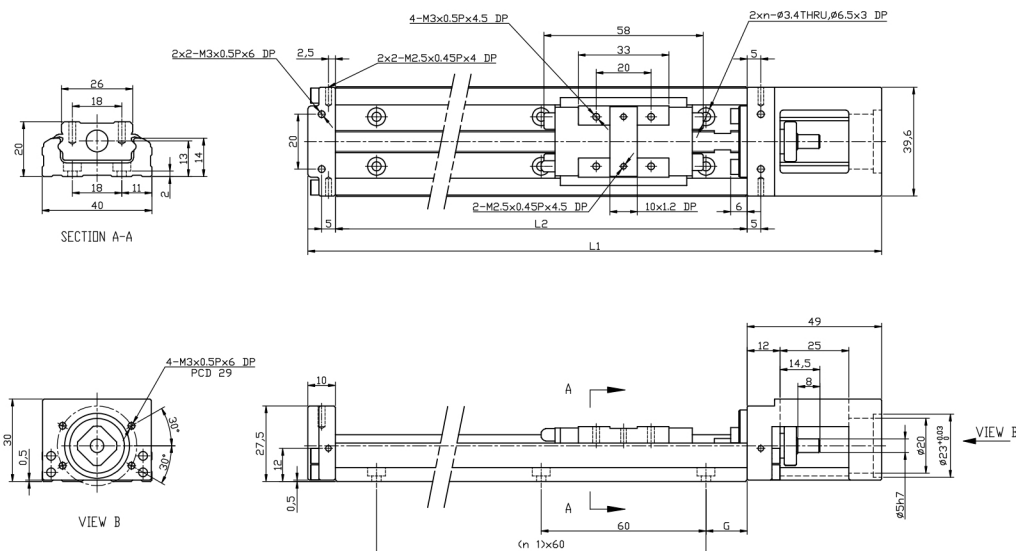


基本规格 Basic Specification

型號 Code	滾珠絲桿 Ball Screw				直線導軌 Linear Guide																				
	公稱 外徑 Nominal Outside Diameter (mm)	導 程 lead (mm)	基本 動額 定負荷 Basic Dynamic Rated Load (N)	基本 靜額 定負荷 Basic Static Rated Load (N)	容許靜力矩 Permissible Static Moment																				
					容許靜力矩 Permissible Static Moment								容許靜力矩 Permissible Static Moment												
					Basic Dynamic Rated Load (N)				Basic Static Rated Load (N)				Pitching				Deflection				Rolling				
滑座 A	滑座 S	滑座 A	滑座 S	滑座 A1	滑座 A2	滑座 S1	滑座 S2	滑座 A1	滑座 A2	滑座 S1	滑座 S2	滑座 A1	滑座 A2	滑座 S1	滑座 S2	滑座 A1	滑座 A2	滑座 S1	滑座 S2						
KS40D01	P	8	1	1243	2794	3920	/	6468	/	33	182	/	/	33	182	/	/	81	162	/	/				
KS40D05	C	8	5	1130	2540																				
				1177	2145																				
				1070	1950																				
型號 Code	軌道長度 Length of Rail (mm)	重複定位精度 (mm) Repetitive Accuracy				行走平行度 (mm) Traveling Parallelism				最大啟動扭力 (N · cm) Max. Driving Torque															
		P		C		P		C		P		C													
KS40D	100	± 0.003				± 0.01				0.01				/				1.2				0.8			
	150																								
	200																								



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www.limonrobot.cn



軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		G (mm)	n	重量 (kg)	
		A1 滑座	A2 滑座			A1 滑座	A2 滑座
100	159	36	-	20	2	0.48	-
150	209	86	34	15	3	0.6	0.67
200	259	136	84	40	3	0.72	0.79

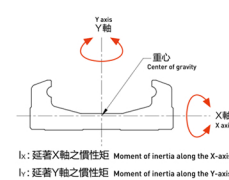
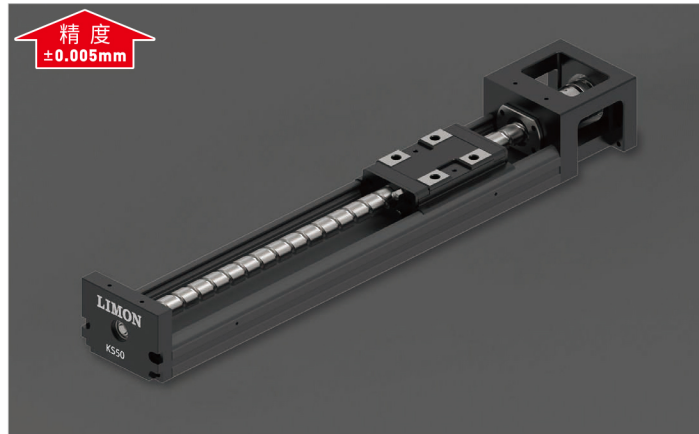
#注:肩部外径可特殊制作Φ4, 请与LIMON联络。
#Note: The shaft diameter can be special made in Φ4, pls contact LIMON.

KS系列模组 KS 50 KS series module

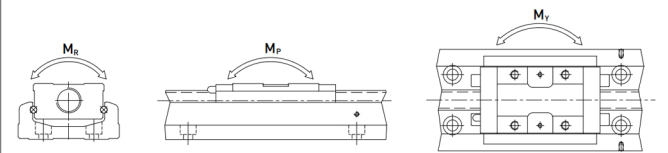
□订购型号代码 Code

KS50	02	P	—	200	A	2	—	F0	C	S0
本体型号 Item NO.	螺杆导程 Travel	精度等级 Accuracy Grade		轨道长度mm Track Length	滑座形式 Slide Types	滑座数量 Slide Number		马达连接法兰 Motor Connection	护盖 Protecting Cover	极限开关 Limit Switch
	02 06 12	P: 精密级 Precision Class C: 一般级 Normal Class		150 200 250 300	A:标准型 Standard Type S:轻载型 Light Load Type	1 2		F0/F1/F2/F3 H0	C:铝护套 Aluminum Cover B:伸缩护套 Telescopic cover 无标记:无护套 None: no cover	S0:极限轨道 S0: Extreme orbit S1: 极限轨道+3个光 S1: Extreme orbit+ 3 Photoelectric devices

注:详见P54.
Note:
Refer to catalogue P54



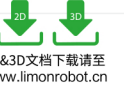
慣性矩	型號	I_x	I_y
	KS50	9.6×10^3	1.34×10^5



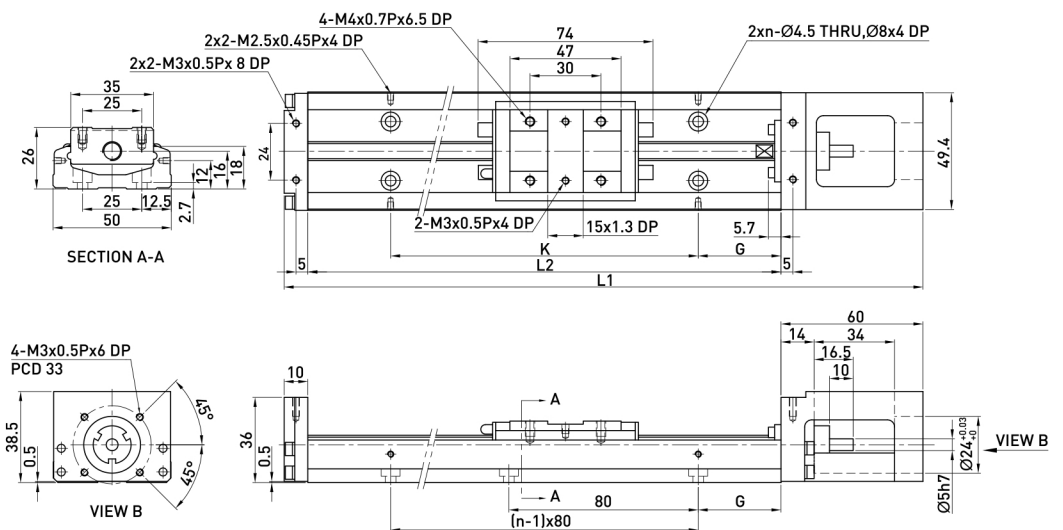
基本规格 Basic Specification

型號 Code	滾珠絲桿 Ball Screw				直線導軌 Linear Guide																
	公稱 外徑 Nominal Outside Diameter (mm)	導 程 lead (mm)	基本 動額 定負荷 Basic Dynamic Rated Load (N)	基本 靜額 定負荷 Basic Static Rated Load (N)	容許靜力矩 Permissible Static Moment																
					基本動額定負荷 Basic Dynamic Rated Load (N)		基本靜額定負荷 Basic Static Rated Load (N)		容許靜力矩 Permissible Static Moment				容許靜力矩 Permissible Static Moment				容許靜力矩 Permissible Static Moment				
					滑座 A Slide Block A	滑座 S Slide Block S	滑座 A Slide Block A	滑座 S Slide Block S	滑座 A1 Slide Block A1	滑座 A2 Slide Block A2	滑座 S1 Slide Block S1	滑座 S2 Slide Block S2	滑座 A1 Slide Block A1	滑座 A2 Slide Block A2	滑座 S1 Slide Block S1	滑座 S2 Slide Block S2	滑座 A1 Slide Block A1	滑座 A2 Slide Block A2	滑座 S1 Slide Block S1	滑座 S2 Slide Block S2	
KS 5002	P	8	2	2136	3489	8007	/	12916	/	116	545	/	/	116	545	/	/	222	444	/	/
KS 5006	C	6	6	1813	2910																
KS 5012	P	10	12	1860	3490																

型號 Code	軌道長度 Length of Rail (mm)	重複定位精度 (mm) Repetitive Accuracy		行走平行度 (mm) Traveling Parallelism				最大啟動扭力 (N・cm) Max. Driving Torque			
		P	C	P		C		P		C	
KS 50	150	± 0.003	± 0.005	0.010	/	4	2				
	200										
	250										
	300										



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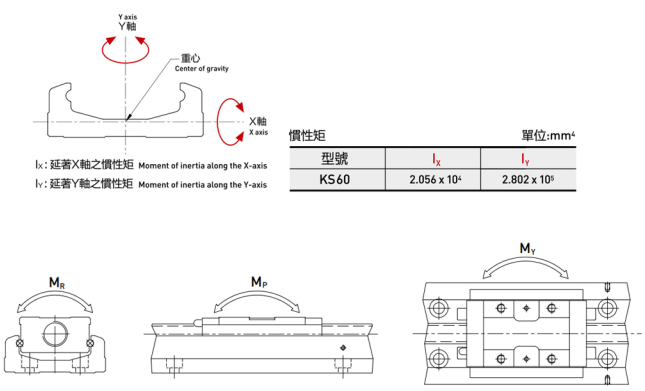
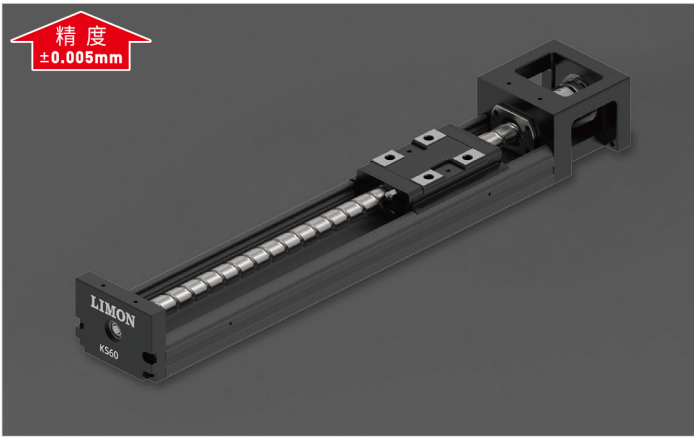


軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		G (mm)	K (mm)	n	重量 (kg)	
		A1 滑座	A2 滑座				A1 滑座	A2 滑座
150	220	70	-	35	80	2	1	-
200	270	120	55	20	160	3	1.2	1.4
250	320	170	105	45	160	3	1.4	1.6
300	370	220	155	30	240	4	1.6	1.8

KS 60 KS系列模组
KS series module

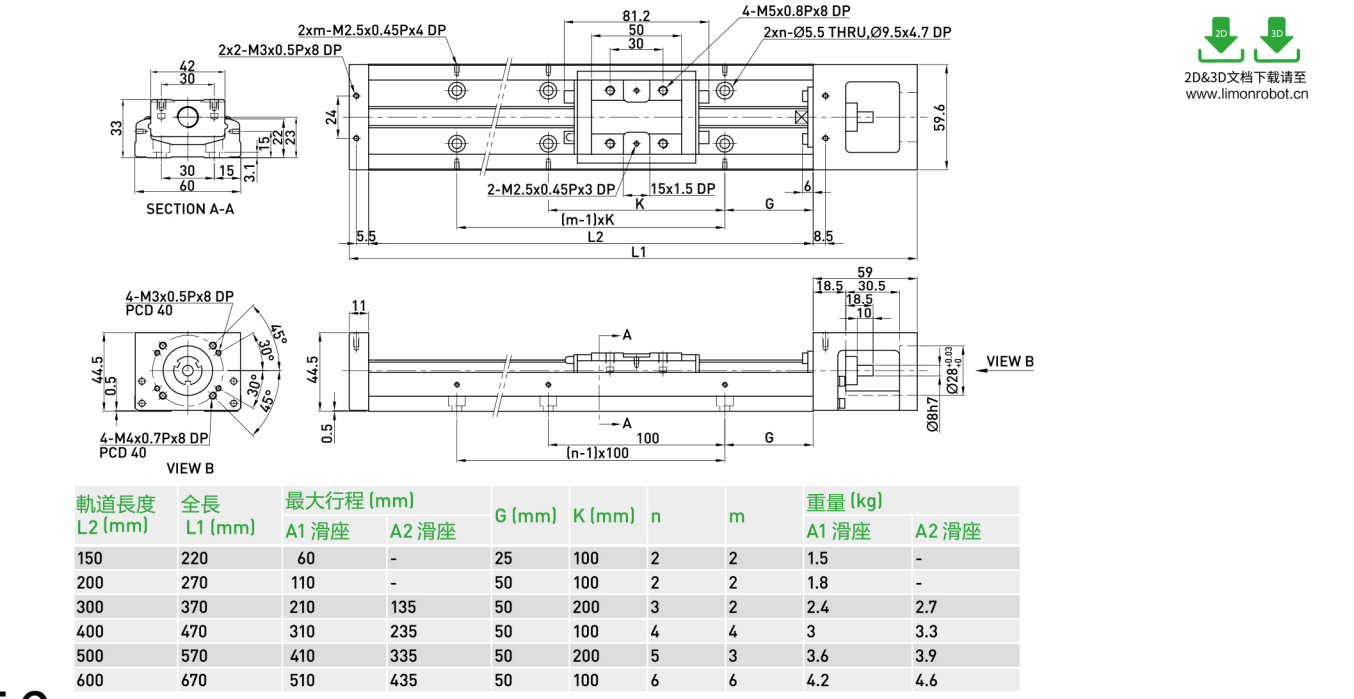
订购型号代码 Code

KS60D	05	P	—	200	A	2	—	F0	C	S0
本体型号 Item NO.	螺桿導程 Travel	精度等級 Accuracy Grade		軌道長度mm Track Length	滑座形式 Slide Types	滑座數量 Slide Number		馬達連接法蘭 Motor Connection	護蓋 Protecting Cover	極限開關 Limit Switch
	05	P: 精密級 Precision Class		150 200 300 400 500 600	A: 標準型 Standard Type S: 輕載型 Light Load Type	1 2		F0 ~ F5 H0 T1/T2/T5	C: 鋁護套 Aluminum Cover B: 伸縮護套 Telescopic cover 无标记: 无护套 None: no cover	S0: 極限軌道 S0: Extreme orbit S1: 極限軌道+3個光 S1: Extreme orbit+ 3 Photoelectric devices
	10	C: 一般級 Normal Class								



基本规格 Basic Specification

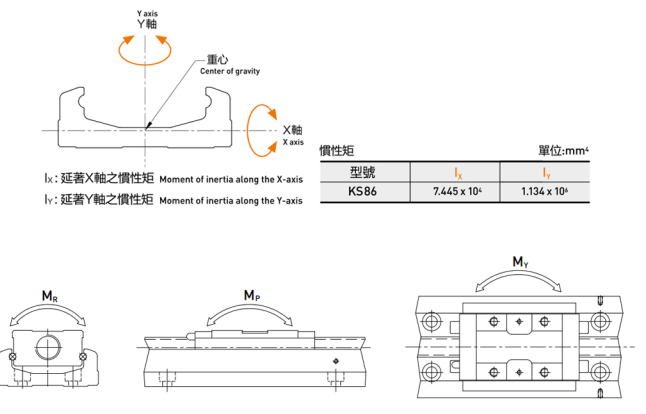
型號 Code	公稱 外徑 Nominal Outside Diameter (mm)	導 程 lead (mm)	滾珠絲桿 Ball Screw		直線導軌 Linear Guide													
			基本 動額 定負荷 Basic Dynamic Rated Load (N)	基本 靜額 定負荷 Basic Static Rated Load (N)	容許靜力矩 Permissible Static Moment													
					容許靜力矩 Permissible Static Moment													
					滑座 A Slide Block A	滑座 S Slide Block S	滑座 A Slide Block A	滑座 S Slide Block S	滑座 A1 Slide Block A1	滑座 A2 Slide Block A2	滑座 S1 Slide Block S1	滑座 S2 Slide Block S2	滑座 A1 Slide Block A1	滑座 A2 Slide Block A2	滑座 S1 Slide Block S1	滑座 S2 Slide Block S2	滑座 A1 Slide Block A1	滑座 A2 Slide Block A2
KS60D05	P	5	3744	6234	13230	/	21462	/	152	760	/	/	152	760	/	/	419	838
KS60D10	P	10	2410	3743	13230	/	21462	/	152	760	/	/	152	760	/	/	419	838
KS60D10	C	10	2107	3234	13230	/	21462	/	152	760	/	/	152	760	/	/	419	838



KS系列模组 KS 86
KS series module

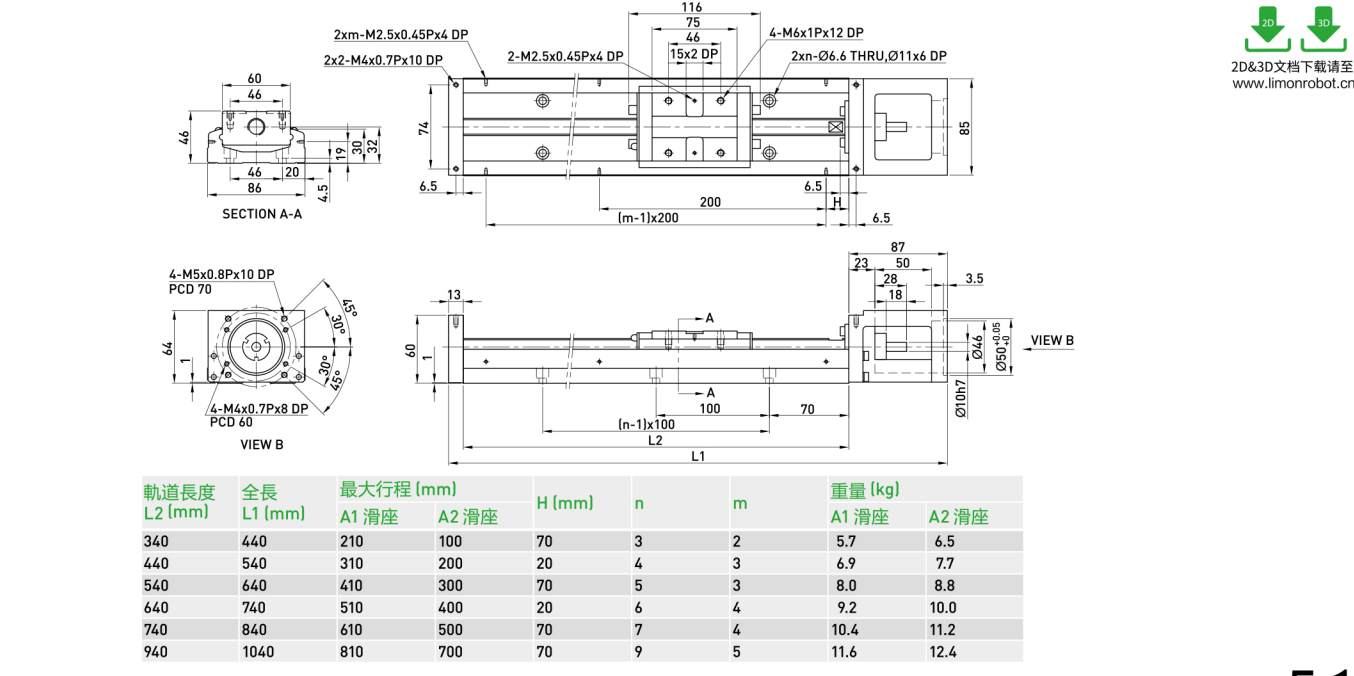
订购型号代码 Code

KS86D	10	P	—	340	A	2	—	F0	C	S0
本体型号 Item NO.	螺桿導程 Travel	精度等級 Accuracy Grade		軌道長度mm Track Length	滑座形式 Slide Types	滑座數量 Slide Number		馬達連接法蘭 Motor Connection	護蓋 Protecting Cover	極限開關 Limit Switch
	10	P: 精密級 Precision Class		340 440 540 640 740 940	A: 標準型 Standard Type S: 輕載型 Light Load Type	1 2		F0 ~ F6 H0 T0/T1/T6	C: 鋁護套 Aluminum Cover B: 伸縮護套 Telescopic cover 无标记: 无护套 None: no cover	S0: 極限軌道 S0: Extreme orbit S1: 極限軌道+3個光 S1: Extreme orbit+ 3 Photoelectric devices
	20	C: 一般級 Normal Class								



基本规格 Basic Specification

型號 Code	公稱 外徑 Nominal Outside Diameter (mm)	導 程 lead (mm)	滾珠絲桿 Ball Screw		直線導軌 Linear Guide													
			基本 動額 定負荷 Basic Dynamic Rated Load (N)	基本 靜額 定負荷 Basic Static Rated Load (N)	容許靜力矩 Permissible Static Moment													
					容許靜力矩 Permissible Static Moment													
					滑座 A Slide Block A	滑座 S Slide Block S	滑座 A Slide Block A	滑座 S Slide Block S	滑座 A1 Slide Block A1	滑座 A2 Slide Block A2	滑座 S1 Slide Block S1	滑座 S2 Slide Block S2	滑座 A1 Slide Block A1	滑座 A2 Slide Block A2	滑座 S1 Slide Block S1	滑座 S2 Slide Block S2	滑座 A1 Slide Block A1	滑座 A2 Slide Block A2
KS86D10	P	10	7144	12642	31458	/	50764	/	622	3050	/	/	622	3050	/	/	1507	3014
KS86D10	C	10	6429	11387	31458	/	50764	/	622	3050	/	/	622	3050	/	/	1507	3014
KS86D20	P	20	4645	7655	31458	/	50764	/	622	3050	/	/	622	3050	/	/	1507	3014
KS86D20	C	20	4175	6889	31458	/	50764	/	622	3050	/	/	622	3050	/	/	1507	3014

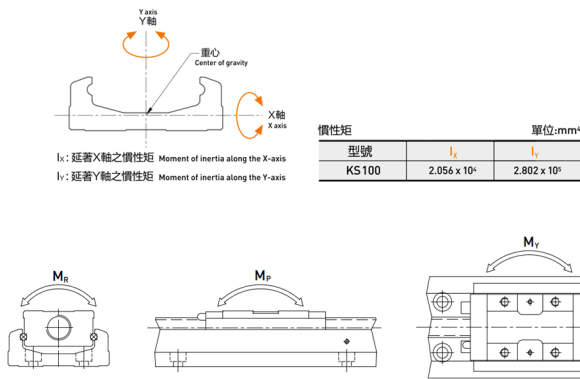
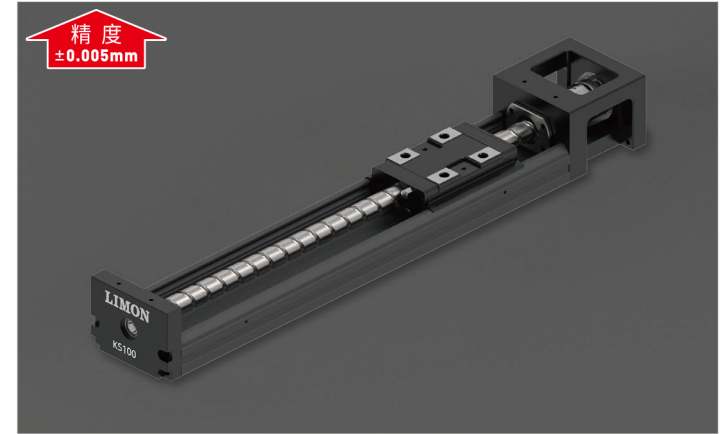


KS 100 KS系列模组
KS series module

订购型号代码 Code

KS100 20 P 980 A 2 F0 C S0

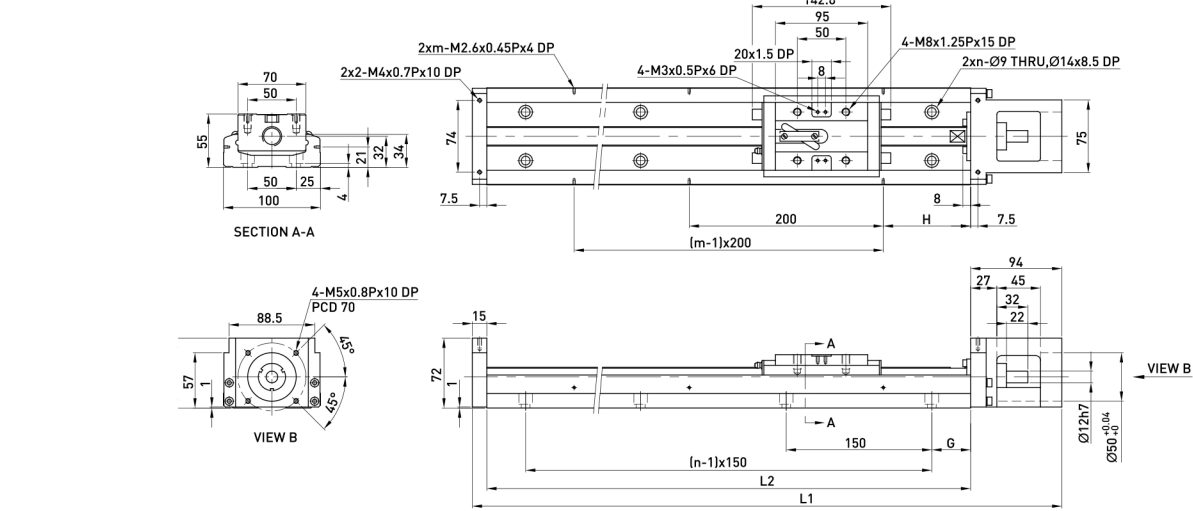
本体型号 Item NO. 螺杆行程 Travel 20 精度等级 Accuracy Grade P: 精密级 Precision Class C: 般级 Normal Class 轨道长度mm Track Length 980 1080 1180 1280 1380 滑座形式 Slide Types A:标准型 Standard Type S:轻载型 Light Load Type 滑座数量 Slide Number 1 2 马达连接法兰 Motor Connection F0~F5 H0 护盖 Protecting Cover C:铝护套 Aluminum Cover B:伸缩护套 Telescopic cover 无标记:无护套 None: no cover 极限开关 Limit Switch S0:极限轨道 S0: Extreme orbit S1: 极限轨道+3个光 S1: Extreme orbit+ 3 Photoelectric devices



基本规格 Basic Specification

Table with 2 main sections: 滚珠丝杆 Ball Screw and 直線導軌 Linear Guide. It lists specifications for KS 10020, including nominal diameter, lead, rated load, and static load.

Table with 4 main sections: 軌道長度 Length of Rail, 重複定位精度 Repetitive Accuracy, 行走平行度 Traveling Parallelism, and 最大啟動扭力 Max. Driving Torque. It lists specifications for KS100 across different track lengths (980, 1080, 1180, 1280, 1380 mm).



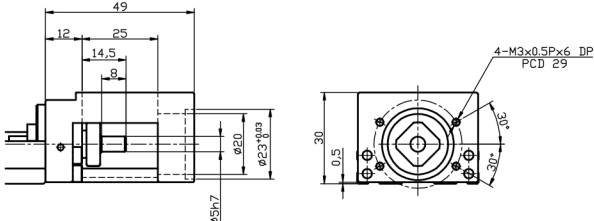
2D&3D文档下载请至 www.limonrobot.cn

Table with 10 columns: 軌道長度 L2 (mm), 全長 L1 (mm), 最大行程 (mm) A1 滑座, A2 滑座, G (mm), H (mm), n, m, 重量 (kg) A1 滑座, A2 滑座. It lists specifications for KS100 across different track lengths (980, 1080, 1180, 1280, 1380 mm).

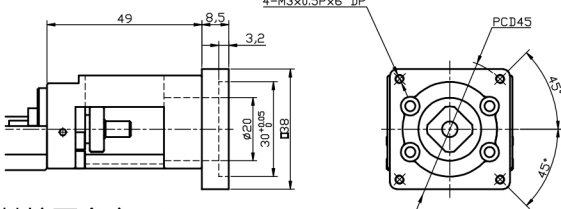
KS系列模组
KS series module

KS 40D

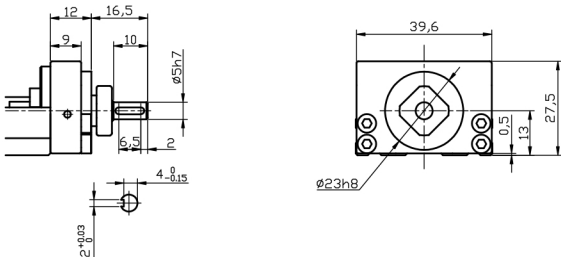
馬達座 F0



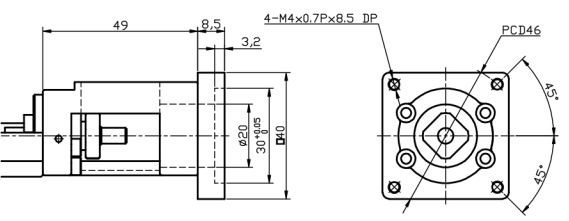
馬達連接法蘭 F2



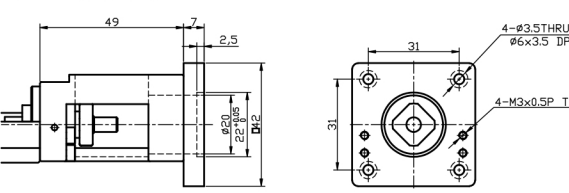
轉接固定座 H0



馬達連接法蘭 F1

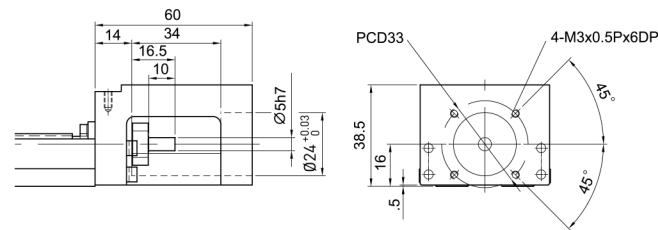


馬達連接法蘭 F3

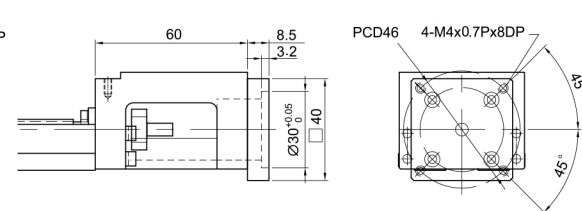


KS 50

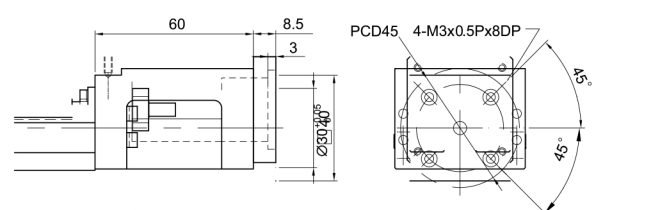
馬達座 F0



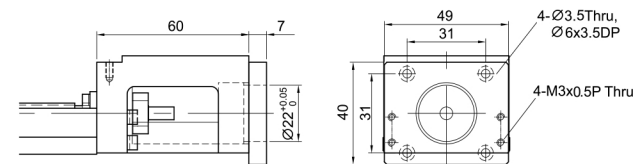
馬達連接法蘭 F1



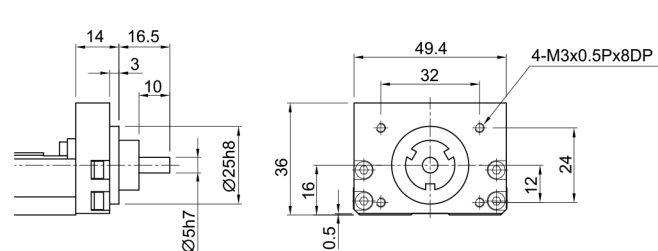
馬達連接法蘭 F2



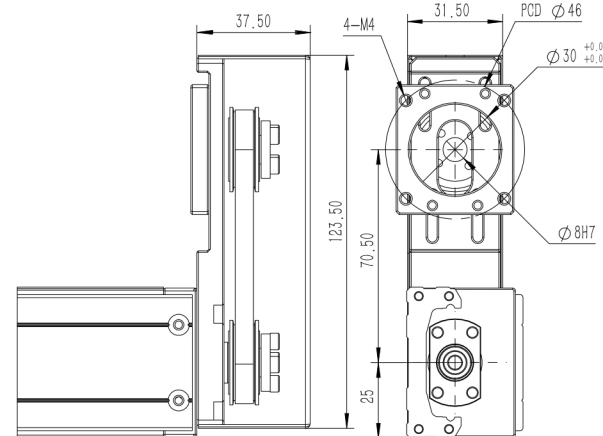
馬達連接法蘭 F3



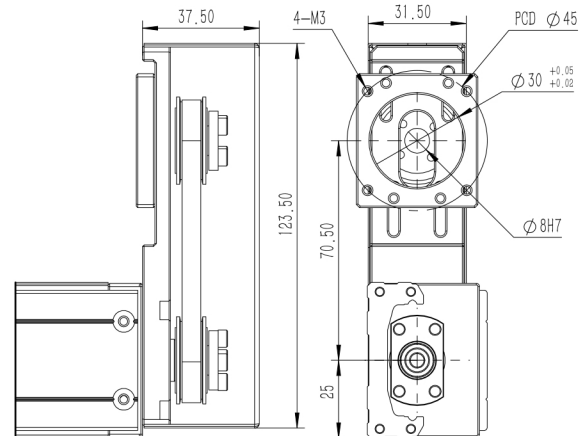
轉接固定座 H0



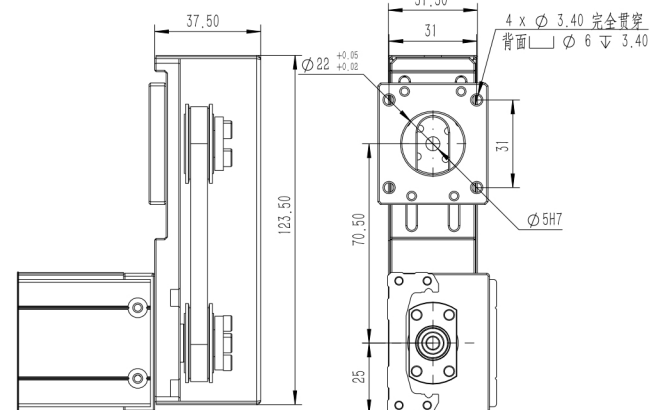
馬達轉折型 T1



馬達轉折型 T2

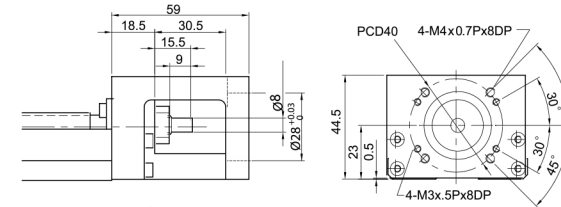


馬達轉折型 T3

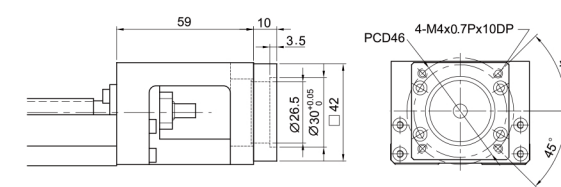


KS 60D

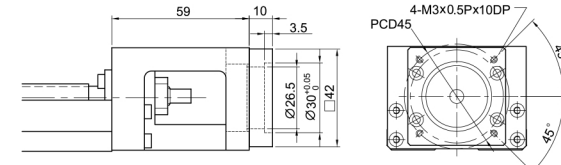
馬達座 F0



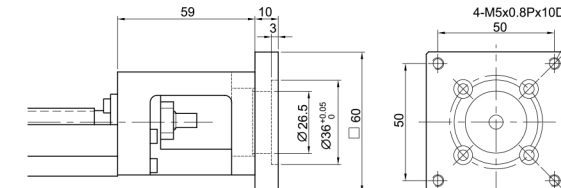
馬達連接法蘭 F1



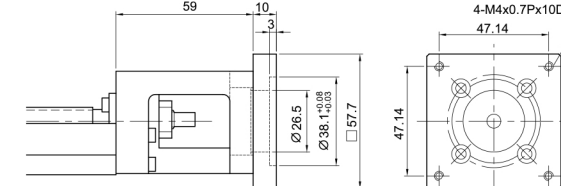
馬達連接法蘭 F2



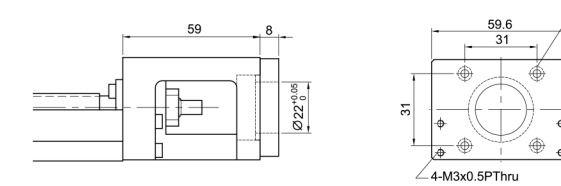
馬達連接法蘭 F3



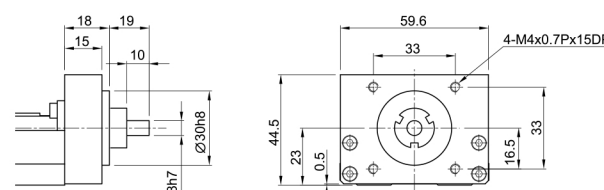
馬達連接法蘭 F4



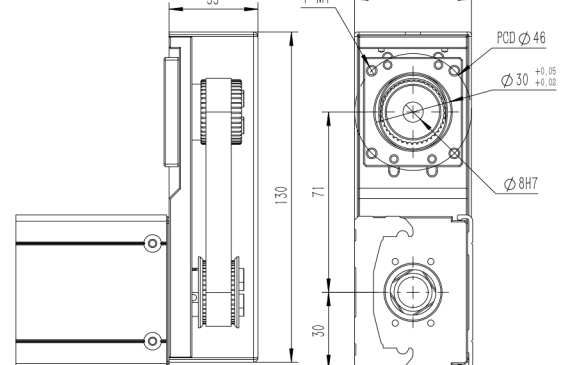
馬達連接法蘭 F5



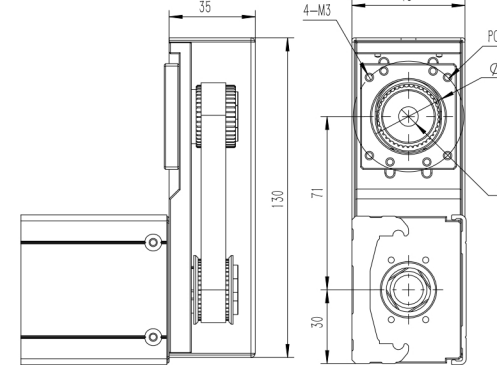
轉接固定座 H0



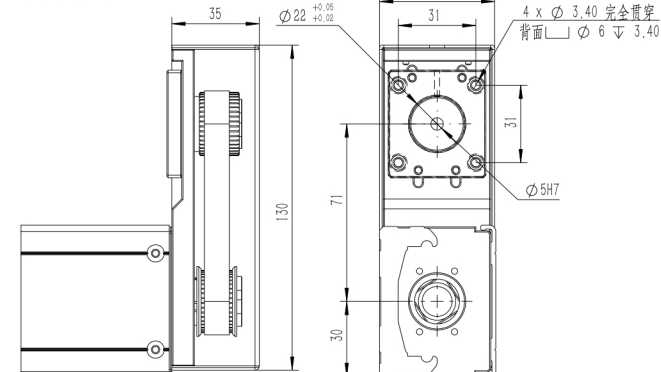
轉折模塊-T1



轉折模塊-T2

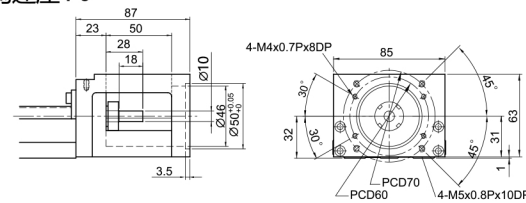


轉折模塊-T5

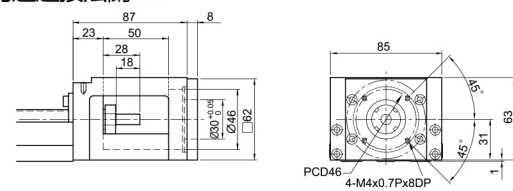


KS86D

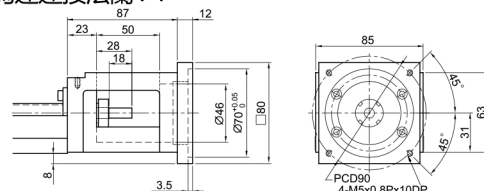
馬達座 F0



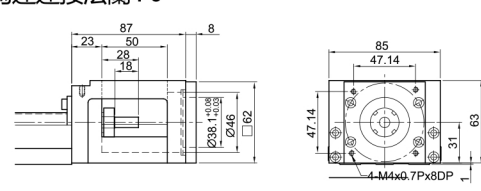
馬達連接法蘭 F2



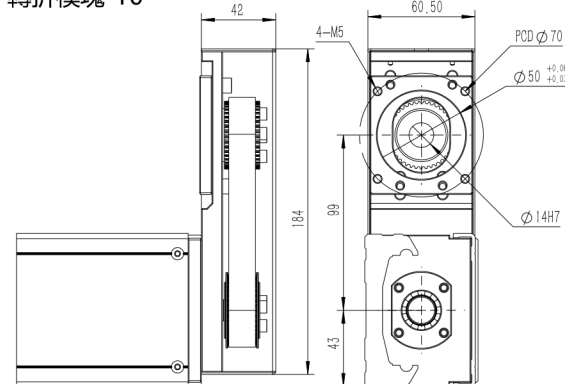
馬達連接法蘭 F4



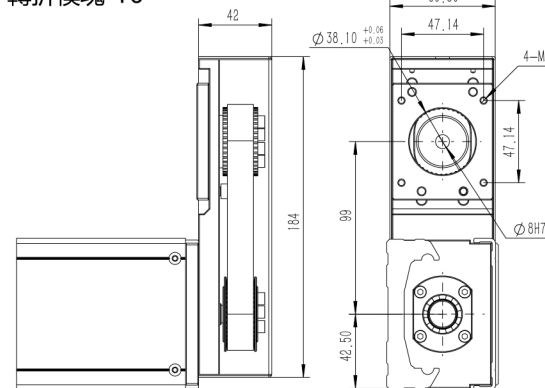
馬達連接法蘭 F6



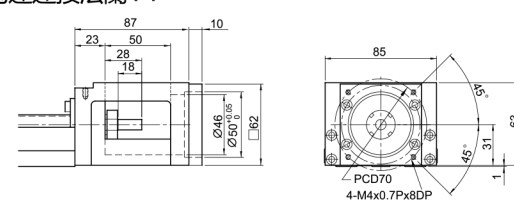
轉折模塊-T0



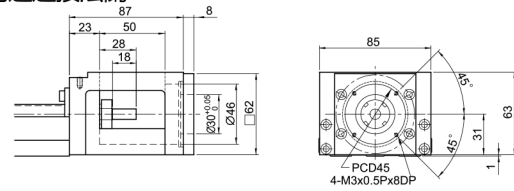
轉折模塊-T6



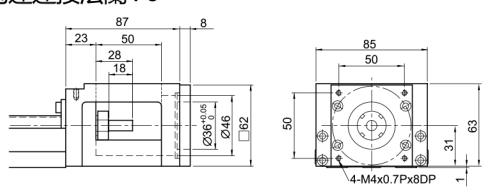
馬達連接法蘭 F1



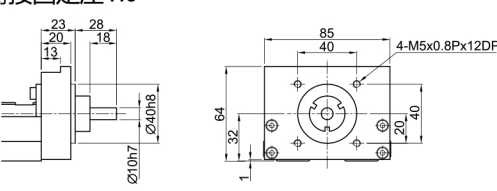
馬達連接法蘭 F3



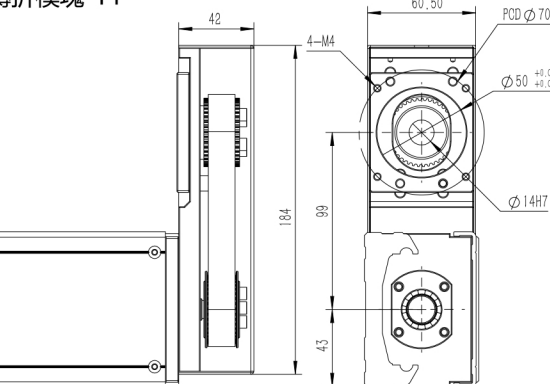
馬達連接法蘭 F5



轉接固定座 H0

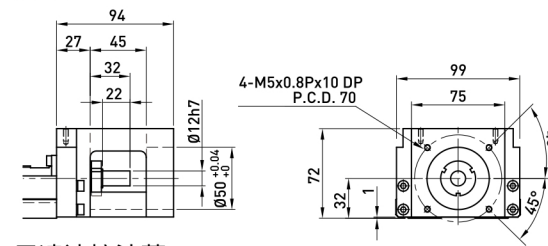


轉折模塊-T1

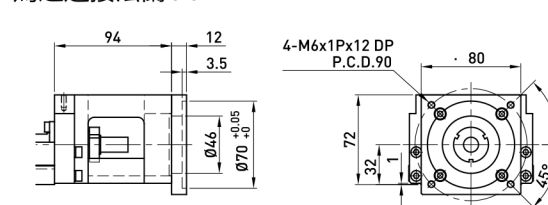


KS100

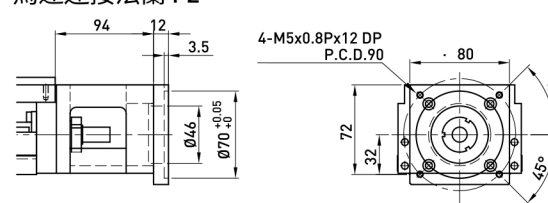
馬達座 F0



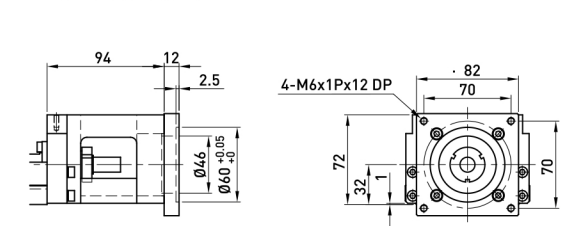
馬達連接法蘭 F1



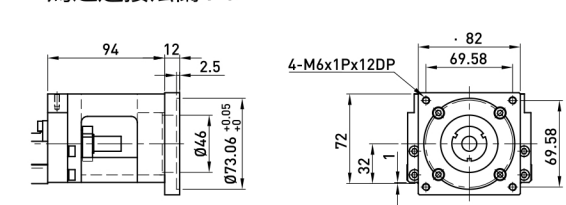
馬達連接法蘭 F2



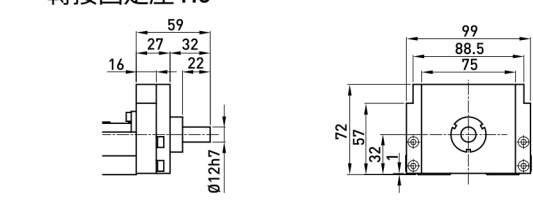
馬達連接法蘭 F3



馬達連接法蘭 F4



轉接固定座 H0



適用馬達對照表

三菱 Mitsubishi 伺服馬達

輸出 功率	馬達	重量 (Kg)	適用法蘭					附剎車 (Kg)	驅動器	重量 (Kg)	備註
			KS40	KS50	KS60	KS86	KS100				
10W	HC-AQ0135D	0.19	-	-	-	-	-	0.29	M2-JR-03A5	0.2	
20W	HC-AQ0235D	0.22	-	-	-	-	-	0.32	M2-JR-03A5	0.2	
50W	HF-KP053	0.35	F1	F1	F1 / T1	F2	-	0.75	MR-J3S-10A	0.8	220V
100W	HF-KP13	0.56	F1	F1	F1 / T1	F2	-	0.89	MR-J3S-10A	0.8	220V
200W	HF-KP23	0.94	-	-	-	F0 / T0	F0	1.6	MR-J3S-20A	0.8	220V
400W	HF-KP43	1.5	-	-	-	F0 / T0	F0	2.1	MR-J3S-40A	1	220V
750W	HF-KP73	2.9	-	-	-	-	F1	4	MR-J3S-70A	1.4	220V

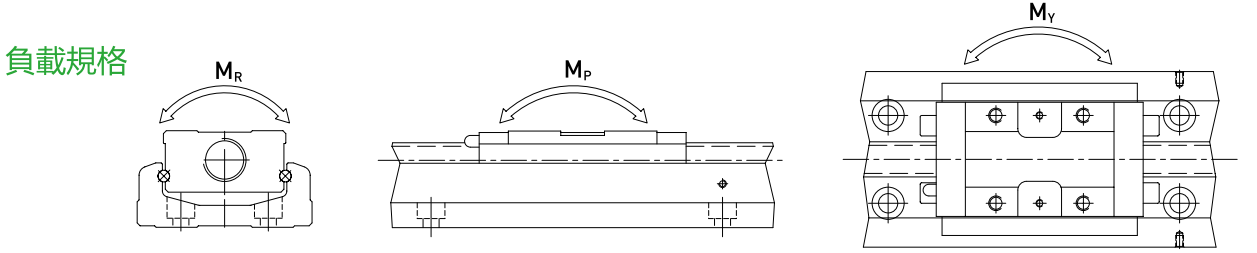
松下 Panasonic 伺服馬達

輸出 功率	馬達	重量 (Kg)	適用法蘭					附剎車 (Kg)	驅動器	重量 (Kg)	備註
			KS40	KS50	KS60	KS86	KS100				
50W	MSMD5AZP1	0.32	F2	F2	F2 / T2	F3	-	0.53	MADDT1105	0.8	110V
50W	MSMD5AZP1	0.32	F2	F2	F2 / T2	F3	-	0.53	MADDT1205	0.8	220V
100W	MSMD011P1	0.47	F2	F2	F2 / T2	F3	-	0.68	MADDT1107	0.8	110V
100W	MSMD012P1	0.47	F2	F2	F2 / T2	F3	-	0.68	MADDT1205	0.8	220V
200W	MSMD021P1	0.82	-	-	-	F1 / T1	-	1.3	MADDT2110	1.1	110V
200W	MSMD022P1	0.82	-	-	-	F1 / T1	-	1.3	MADDT1207	0.8	220V
400W	MSMD041P1	1.2	-	-	-	F1 / T1	-	1.7	MADDT3120	1.5	110V
400W	MSMD042P1	1.2	-	-	-	F1 / T1	-	1.7	MADDT2210	1.1	220V
750W	MSMD082S1	2.3	-	-	-	F4	F2	3.1	MADDT3520	1.5	220V

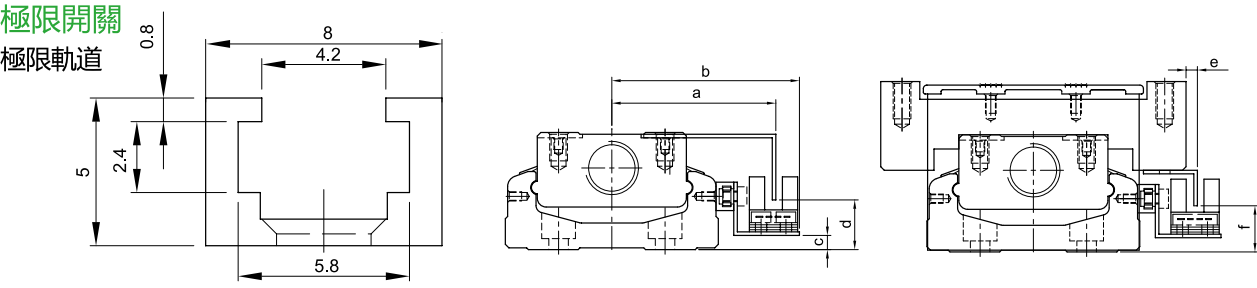
安川伺服馬達

輸出 功率	馬達	重量 (Kg)	適用法蘭					附剎車 (Kg)	驅動器	重量 (Kg)	備註
			KS40	KS50	KS60	KS86	KS100				
10W	SGMMV-A1A2A21	0.13	-	-	-	-	-	0.215	SGDV-R90A01A	0.9	200V
20W	SGMMV-A2A2A21	0.17	-	-	-	-	-	0.27	SGDV-R90A01A	0.9	200V
50W	SGMAV-A5ADA61	0.3	F1	F1	F1 / T1	F2	-	-	SGDV-R70A01A	0.9	有鍵
50W	SGMAV-A5ADA2C	0.3	F1	F1	F1 / T1	F2	-	-	SGDV-R70A01A	0.9	無鍵
50W	SGMAV-A5ADA21	0.3	F1	F1	F1 / T1	F2	-	0.75	SGDV-R70A01A	0.9	中慣量
100W	SGMAV-01ADA64	0.4	F1	F1	F1 / T1	F2	-	0.89	SGDV-R90A01A	0.9	
200W	SGMAV-02ADA65	0.9	-	-	-	F0 / T0	F0	1.6	SGDV-1R6A01A	0.9	
400W	SGMAV-04ADA66	1.2	-	-	-	F0 / T0	F0	2.1	SGDV-2R8A01A	1	
750W	SGMAV-08ADA67	2.6	-	-	-	-	F1	4	SGDV-5R5A01A	1.5	

負載規格



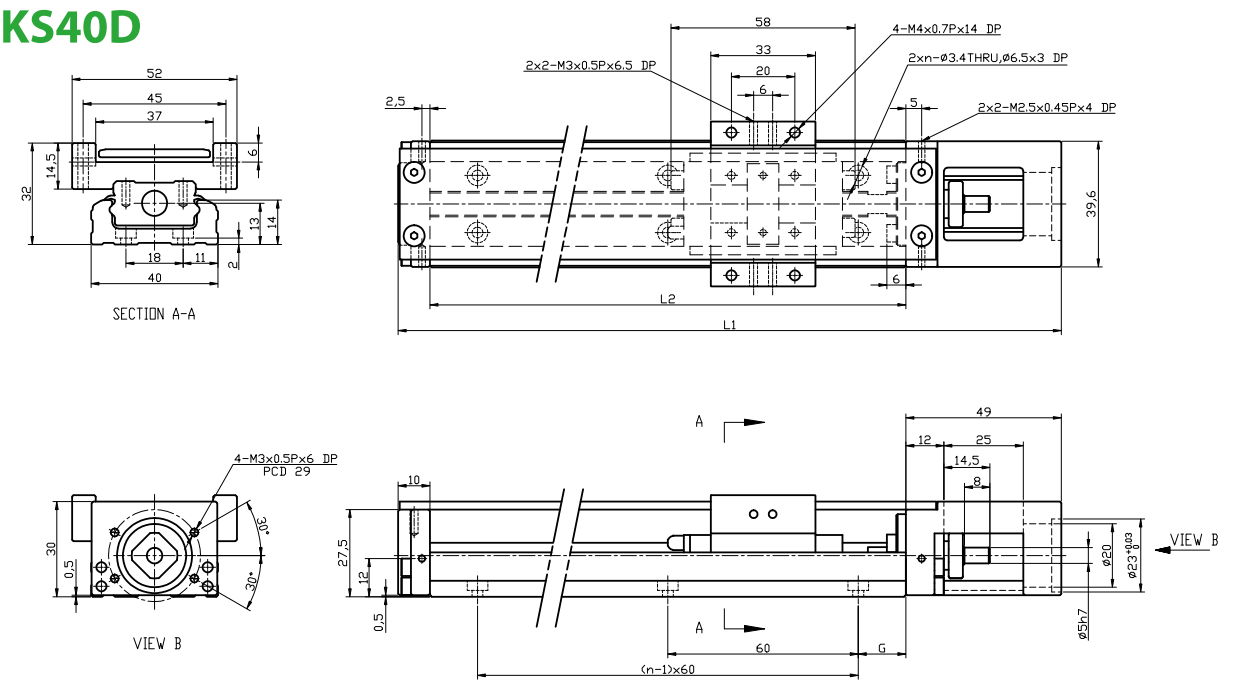
極限開關
極限軌道



尺寸	a	b	c	d	e	f
KS40	36.5	44.3	1	9.8	10.5	12
KS50	41.3	48	1	10.5	10.2	11
KS60	46.2	52.8	4	14	3.2	13
KS86	59	65.7	8	18	3	18
KS100	66	73	10	20	4.2	20

含護蓋

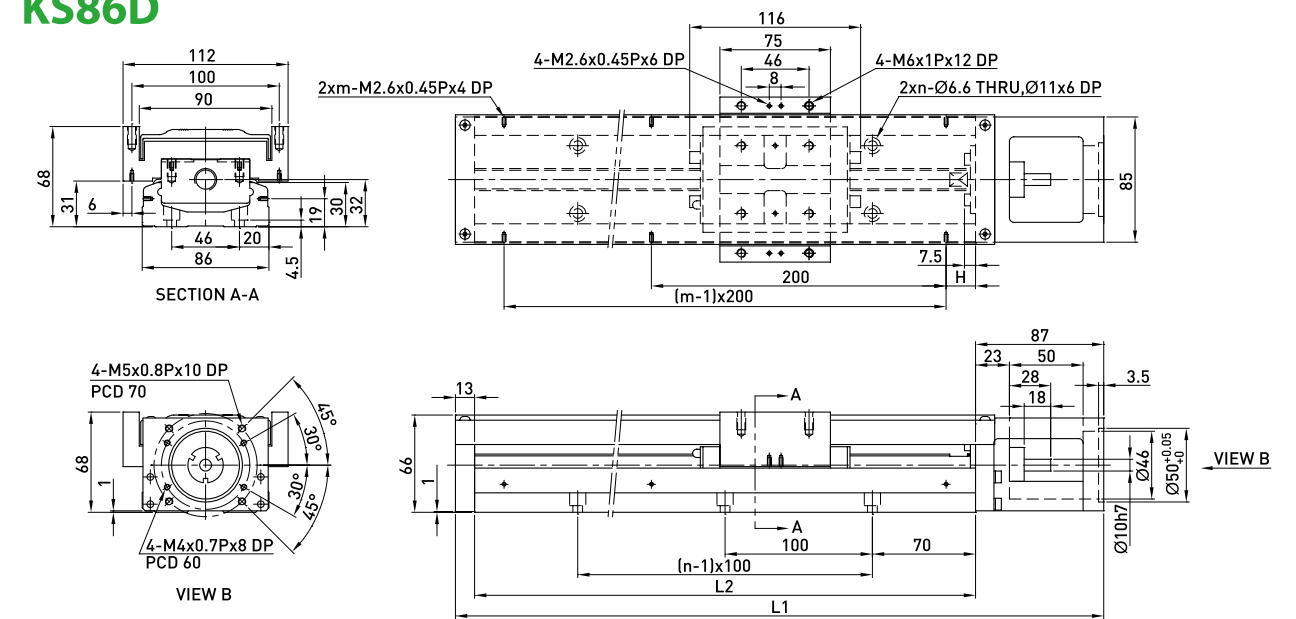
KS40D



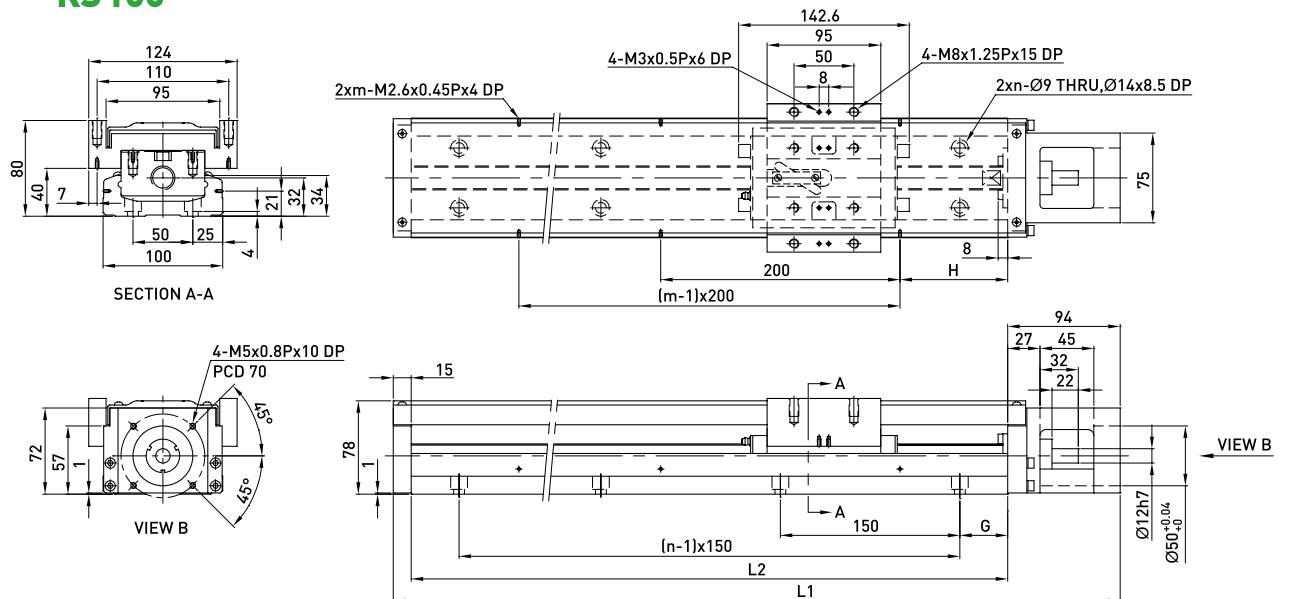
軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		G (mm)	n	重量 (kg)	
		A1 滑座	A2 滑座			A1 滑座	A2 滑座
100	159	36	-	20	2	0.55	-
150	209	86	34	15	3	0.68	0.76
200	259	136	84	40	3	0.82	0.89

軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		G (mm)	K (mm)	n	重量 (kg)	
		A1 滑座	A2 滑座				A1 滑座	A2 滑座
150	220	70	-	35	80	2	1.1	-
200	270	120	55	20	160	3	1.3	1.5
250	320	170	105	45	160	3	1.6	1.8
300	370	220	155	30	240	4	1.8	2.0

軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		G (mm)	K (mm)	n	m	重量 (kg)	
		A1 滑座	A2 滑座					A1 滑座	A2 滑座
150	220	60	-	25	100	2	2	1.7	-
200	270	110	-	50	100	2	2	2.1	-
300	370	210	135	50	200	3	2	2.7	3.0
400	470	310	235	50	100	4	4	3.3	3.6
500	570	410	335	50	200	5	3	3.9	4.2
600	670	510	435	50	100	6	6	4.6	5.0



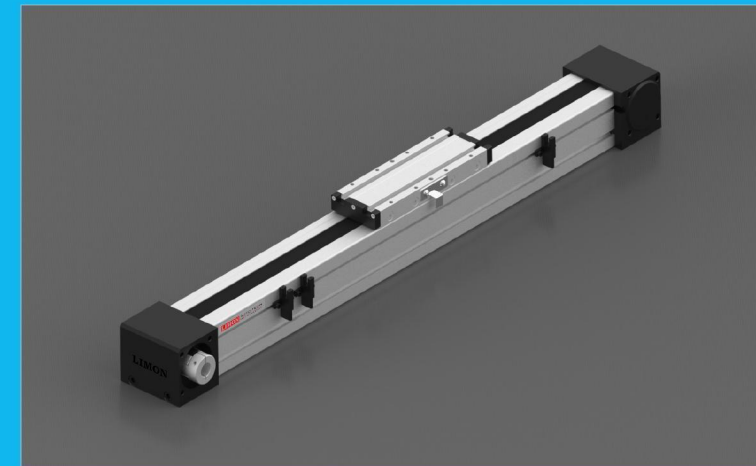
軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		H (mm)	n	m	重量 (kg)	
		A1 滑座	A2 滑座				A1 滑座	A2 滑座
340	440	210	100	70	3	2	6.5	7.3
440	540	310	200	20	4	3	7.8	8.6
540	640	410	300	70	5	3	9.0	9.8
640	740	510	400	20	6	4	10.3	11.3
740	840	610	500	70	7	4	11.6	12.4
940	1040	810	700	70	9	5	13.0	13.8



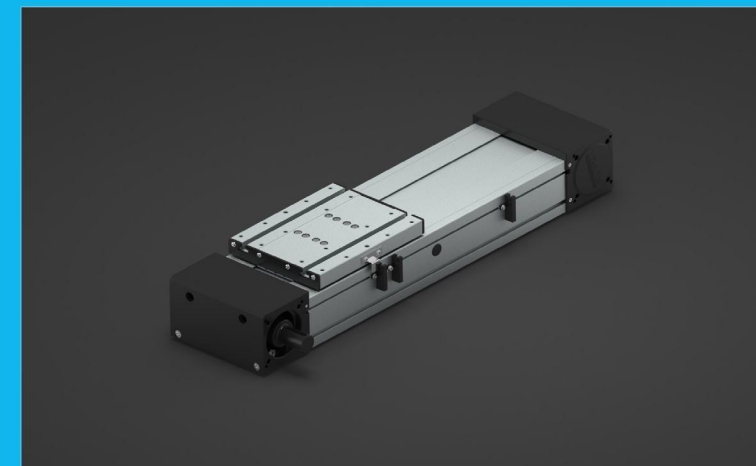
軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		G (mm)	H (mm)	n	m	重量 (kg)	
		A1 滑座	A2 滑座					A1 滑座	A2 滑座
980	1089	828	700	40	90	7	5	20.4	22.1
1080	1189	928	800	15	40	8	6	22.2	23.9
1180	1289	1028	900	65	90	8	6	24.0	25.7
1280	1389	1128	1000	40	40	9	7	25.7	27.4
1380	1489	1228	1100	15	90	10	7	27.5	29.2

欧标半密式同步带驱动型

European standard semi-dense synchronous belt drive type



ITO 40 / 60 / 60L / 80 / 80L / 100 / 100L / 140 / 140L



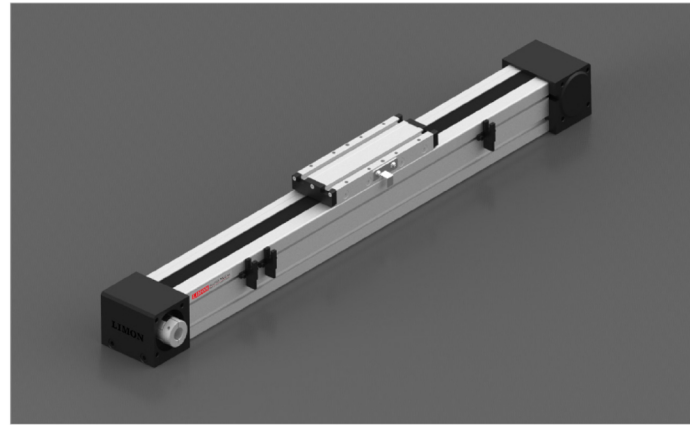
ITO 160

ITO 40/60 80/100/140 欧标半密式同步带驱动型

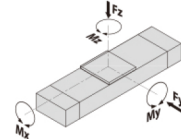
European standard semi-dense synchronous belt drive type

订购型号代码 Code

ITO60	L	500	DB	D01	GB2	22	P3	A001
本体型号 Item NO.	是否加长滑块 未标注:标准滑块 L: 加长滑块	行程 Stroke 100-4000,间隔Gap100	辅助滑块 未填写:单滑块 DB: 辅助滑块	马达方向 Motor Mounting Direction D01 D02 D03 D04 D05	马达座型号 Motor type GB1 GB2 GB3 GB4	联轴器内孔尺寸 Hole dimension of coupling 注3: Note3	限位传感器数量 Photoelectric Sensor P1: 1个 1PCS P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 No Mark: No Sensor	特注式样 Special Order No. 未标记: 无 NoMark: No Sensor



最大动力和力矩 Max Permissible Forces And Torques

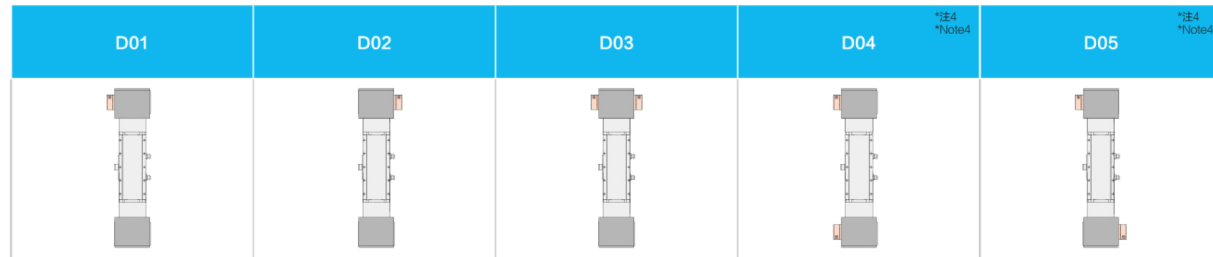


规格 Type	40	60	60L	80	80L	100	100L	140	140L
■F(y) (N)	993	2457	5235	3131	7277	4375	11675	6373	17175
■F(z) (N)	993	3375	5335	5120	7277	7860	11675	11450	17175
■M(x) (N·m)	6	22	40	75	75	115	136	198	217
■M(y) (N·m)	20	78	231	210	558	310	1322	763	1678
■M(z) (N·m)	20	78	231	210	558	310	1322	763	1678

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

马达安装方向 Motor Mounting Position Version



基本规格 Basic Specification

ITO		ITO40	ITO60	ITO60L	ITO80	ITO80L	ITO100	ITO100L	ITO140	ITO140L
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	±0.05								
	AS 皮带轮导程 Pulley Lead (mm)	99	130		176		224		256	
	皮带型号 Belt Lead (mm)	3M-10	5M-25		8M-30		8M-50		8M-70	
	最高速度 Maximum Speed (mm/s)	3000	5000		5000		5000		5000	
	最大可搬重量 Maximum Payload									
	水平使用 Horizontal (kg)	10	30	45	50	75	80	120	130	200
	垂直使用 Vertical (kg)	8	20	30	40	60	60	90	100	150
基本规格 Basic Specification	最大空载扭矩 Max.No-load Driving Torque (N·m)	0.1	0.35	0.35	0.5	0.5	0.9	0.9	1.2	1.2
	最大扭矩 Max.Driving Torque (N·m)	6	13.3	13.3	49.8	49.8	105.7	105.7	112.7	112.7
	标准行程 Stroke(mm)	100-1500mm/pitch	100-2000mm/100pitch		100-4000mm/100pitch					
	AC伺服 AC Servo Motor Output(W)	100	200/400		400/750		750/1000		750/1000	
	直线滑轨 Linear Guide	12# x 1PCS	15# x 1PCS		20# x 1PCS		25# x 1PCS		30# x 1PCS	
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	42 x 53	80 x 79		100 x 106		130 x 130		170 x 135	
	原点感应器 Home Sensor	EE-SX952-R(NPN)			EE-SX672(NPN)					

注1:辅助滑块选项相关参数参见样本P217.

Note1: Refer to catalogue P217 for relevant parameters of auxiliary carriage option

注2:马达座型号相关参数参见样本P89.

Note 2: Refer to catalogue P89 for relevant parameters of motor model

注3:减速机联轴器孔径尺寸

Note3: Hole dimension of coupling (reducer side)

注4: ITO40无D04和D05

Note4: ITO40 without D04 and D05

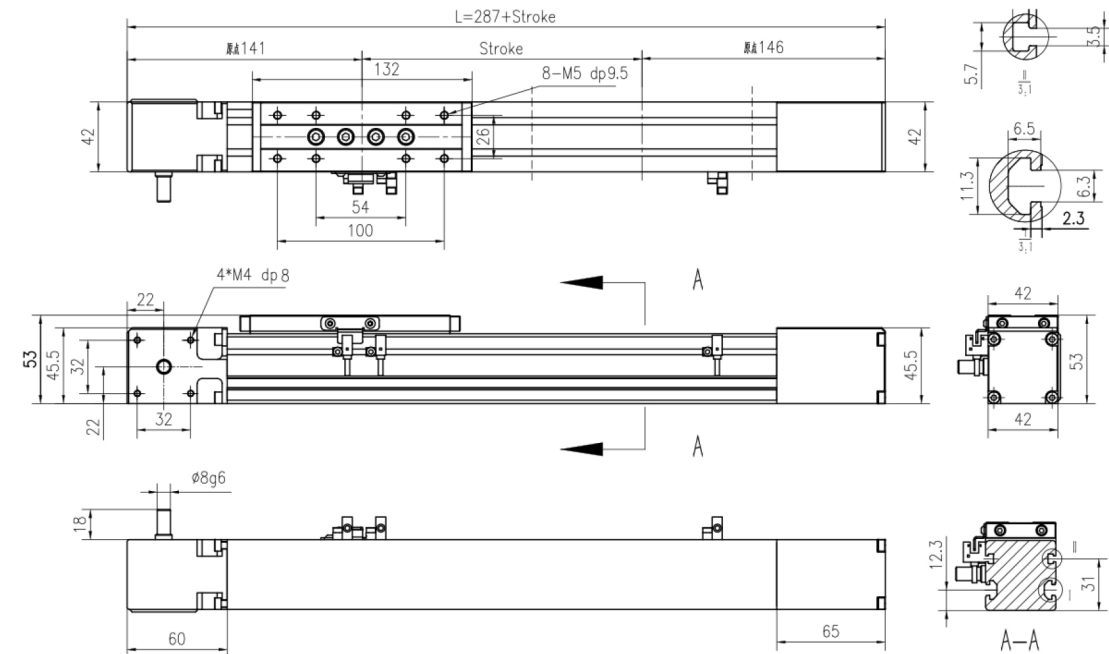
注5:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件.

Note5: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

欧标半密式同步带驱动型 ITO 40/60 80/100/140

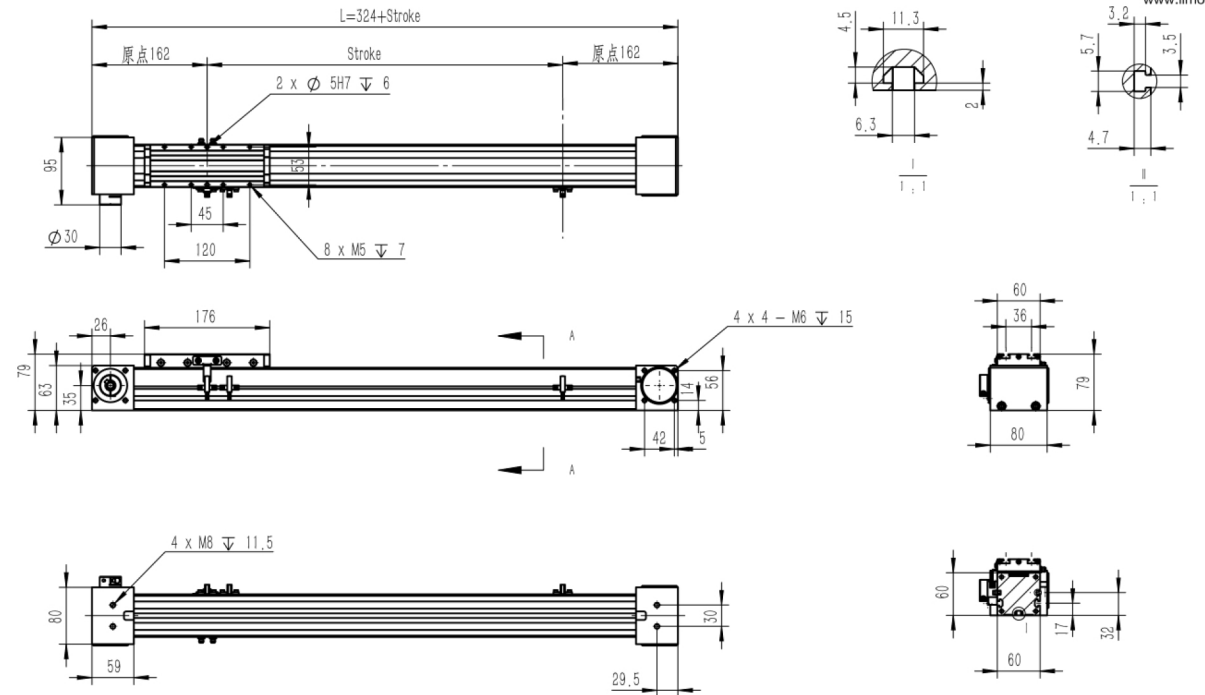
European standard semi-dense synchronous belt drive type

ITO 40



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
L	387	487	587	687	787	887	987	1087	1187	1287	1387	1487	1587	1687	1787
重量 Weight (kg)	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.5

ITO 60



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	424	524	624	724	824	924	1024	1124	1224	1324	1424	1524	1624	1724	1824	1924	2024	2124	2224	2324
重量 Weight (kg)	2.5	3.0	3.5	4.0	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.7	10.2	10.7	11.2	11.7	12.2
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2424	2524	2624	2724	2824	2924	3024	3124	3224	3324	3424	3524	3624	3724	3824	3924	4024	4124	4224	4324
重量 Weight (kg)	12.7	13.2	13.7	14.2	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3	18.8	19.3	19.9	20.4	20.9	21.4	21.9	22.4

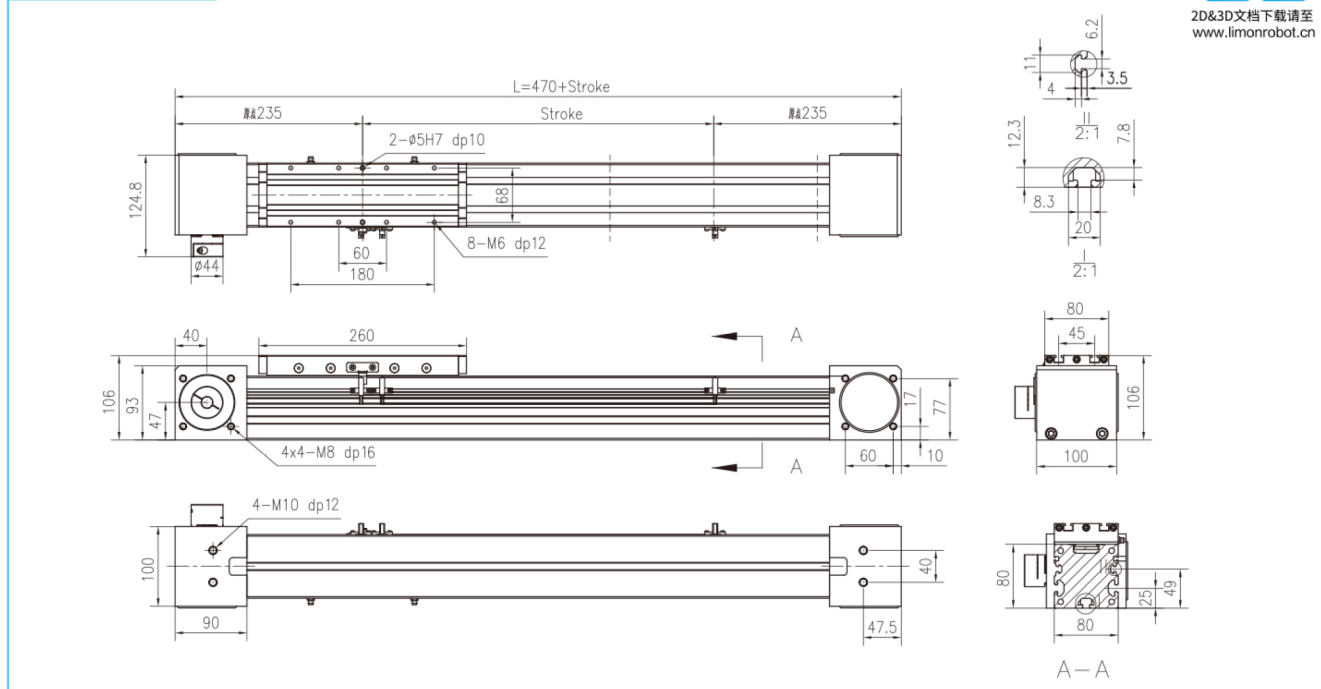
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ITO 40/60/80/100/140 欧标半密式同步带驱动型

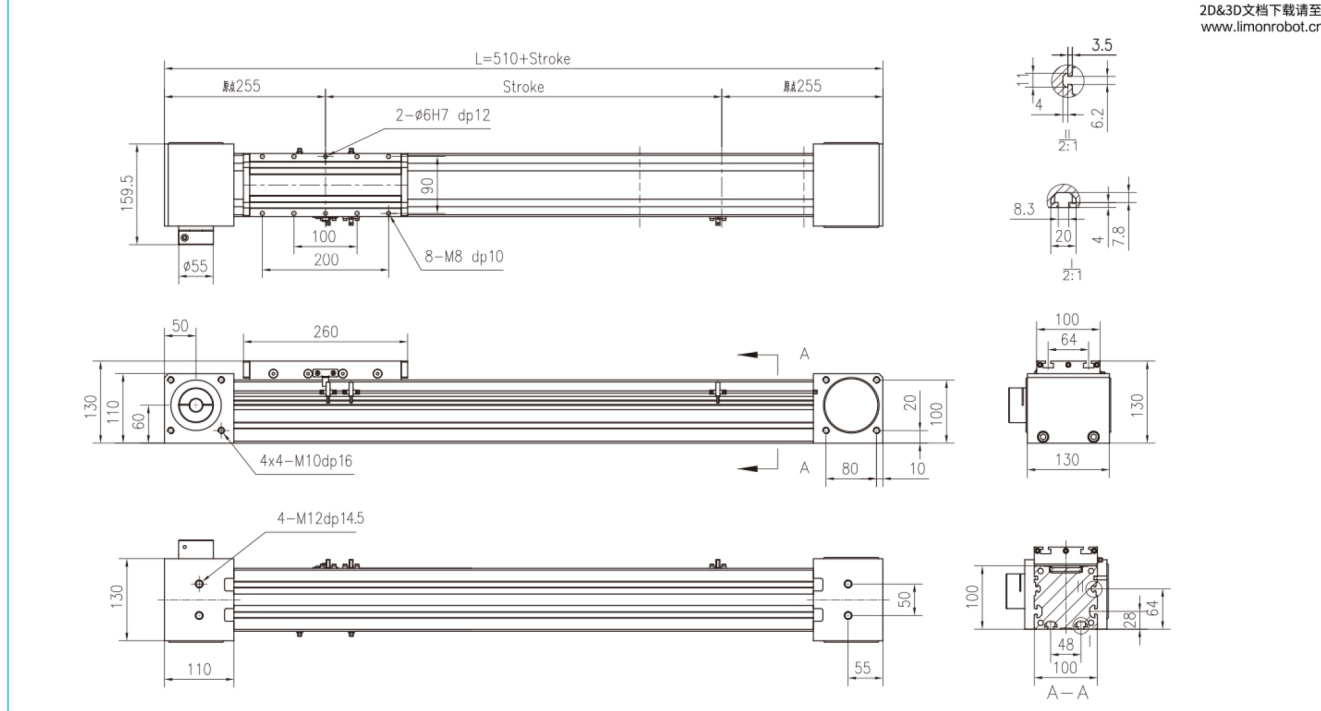
European standard semi-dense synchronous belt drive type

ITO 80



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	570	670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370	2470
重量 Weight (kg)	9.1	9.9	10.8	11.6	12.5	13.4	14.2	15.1	15.9	16.8	17.7	18.5	19.4	20.2	21.1	22.0	22.8	23.7	24.5	25.4
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2570	2670	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070	4170	4270	4370	4470
重量 Weight (kg)	26.3	27.1	28.0	28.8	29.7	30.6	31.4	32.3	33.1	34	34.9	35.7	36.6	37.4	38.3	39.2	40.0	40.9	41.7	42.6

ITO 100

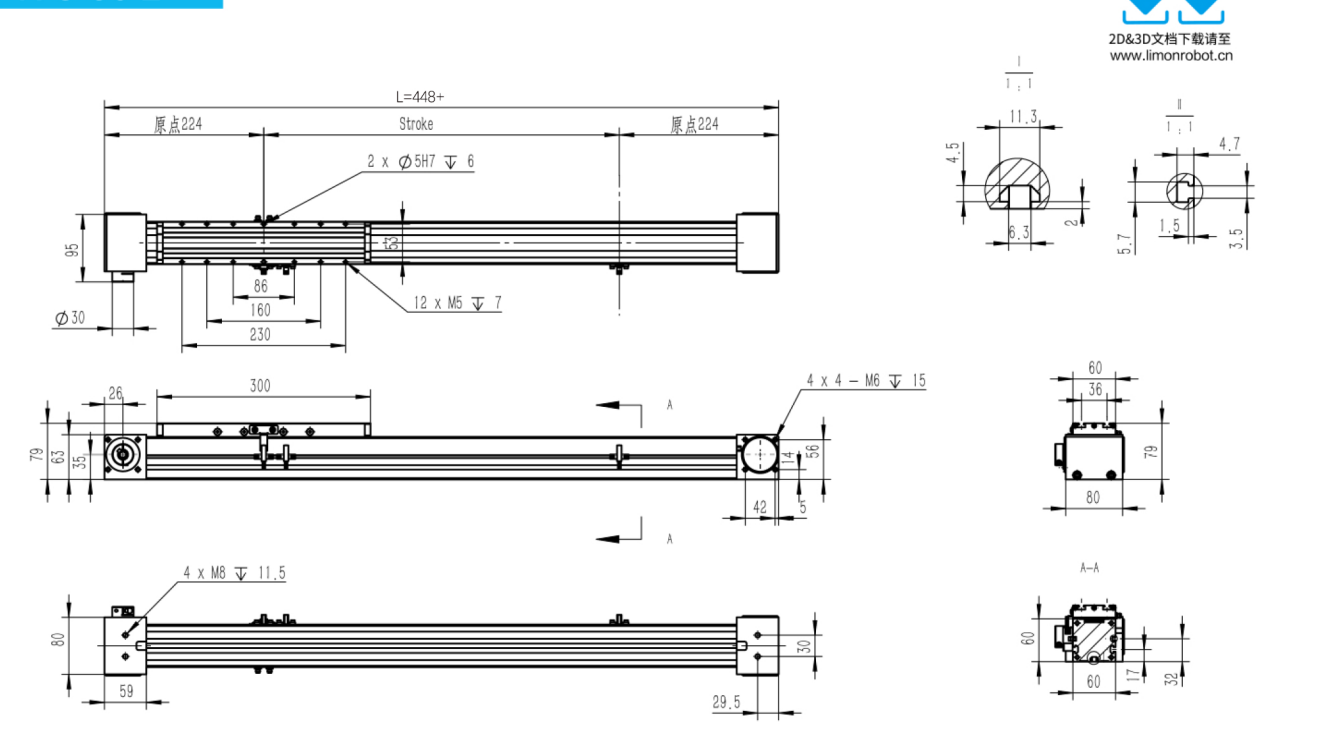


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510
重量 Weight (kg)	15.5	16.8	18.0	19.2	20.5	21.7	22.9	24.1	25.4	26.6	27.8	29.1	30.3	31.5	32.8	34.0	35.2	36.4	37.7	38.9
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	3810	3910	4010	4110	4210	4310	4410	4510
重量 Weight (kg)	40.1	41.4	42.6	43.8	45.1	46.3	47.5	48.7	50.0	51.2	52.4	53.7	54.9	56.1	57.4	58.6	59.8	61.0	62.3	63.5

欧标半密式同步带驱动型 ITO 40/60/80/100/140

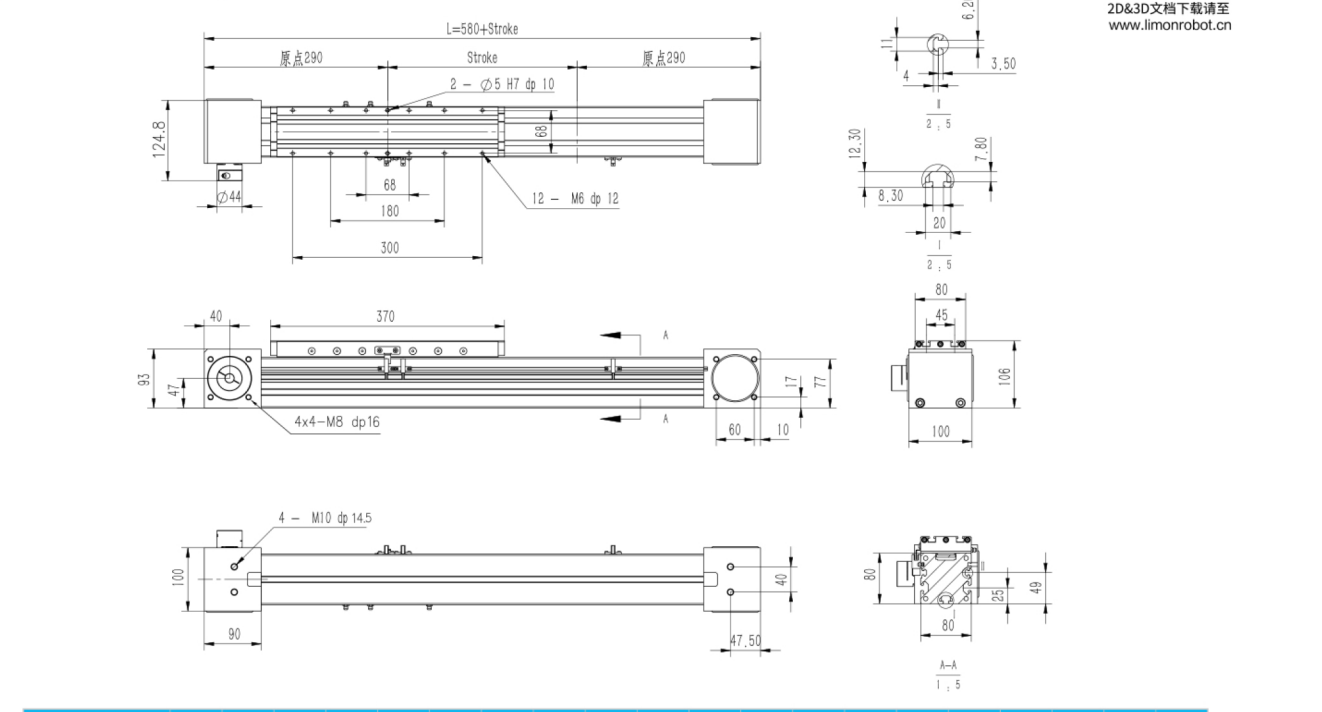
European standard semi-dense synchronous belt drive type

ITO 60 L



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	548	648	748	848	948	1048	1148	1248	1348	1448	1548	1648	1748	1848	1948	2048	2148	2248	2348	2448
重量 Weight (kg)	2.8	3.3	3.8	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2548	2648	2748	2848	2948	3048	3148	3248	3348	3448	3548	3648	3748	3848	3948	4048	4148	4248	4348	4448
重量 Weight (kg)	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3	18.8	19.3	19.8	20.3	20.8	21.3	21.8	22.3

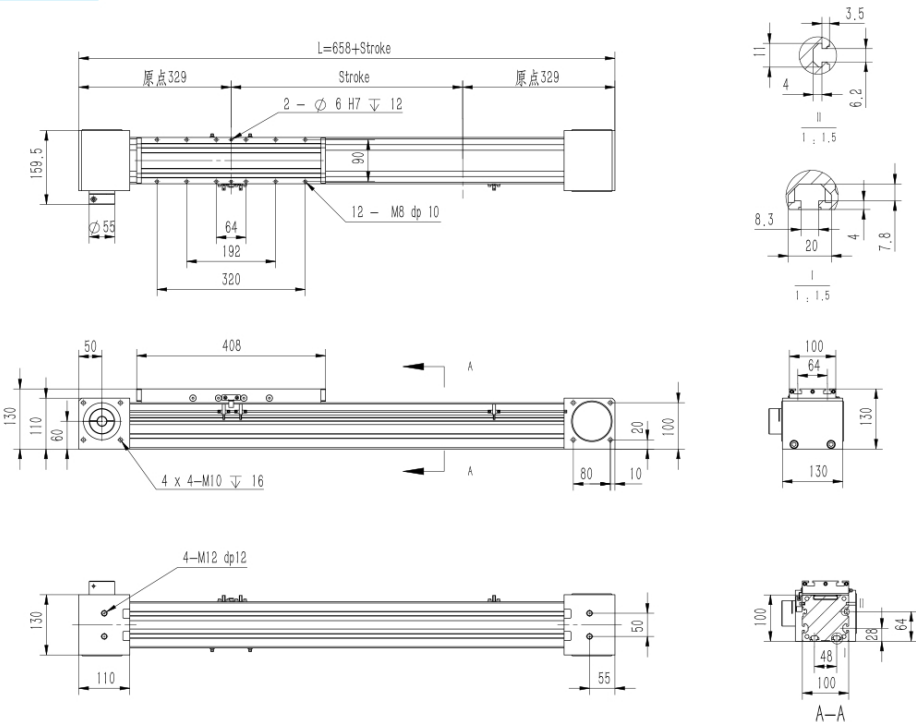
ITO 80 L



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	680	780	880	980	1080	1180	1280	1380	1480	1580	1680	1780	1880	1980	2080	2180	2280	2380	2480	2580
重量 Weight (kg)	9.8	10.6	11.4	12.2	13	13.8	14.6	15.4	16.2	17	17.8	18.6	19.4	20.2	21	21.8	22.6	23.4	24.2	25
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2680	2780	2880	2980	3080	3180	3280	3380	3480	3580	3680	3780	3880	3980	4080	4180	4280	4380	4480	4580
重量 Weight (kg)	25.8	26.6	27.4	28.2	29	29.8	30.6	31.4	32.2	33	33.8	34.6	35.4	36.2	37	37.8	38.6	39.4	40.2	41

ITO 40/60/80/100/140 欧标半密式同步带驱动型
European standard semi-dense synchronous belt drive type

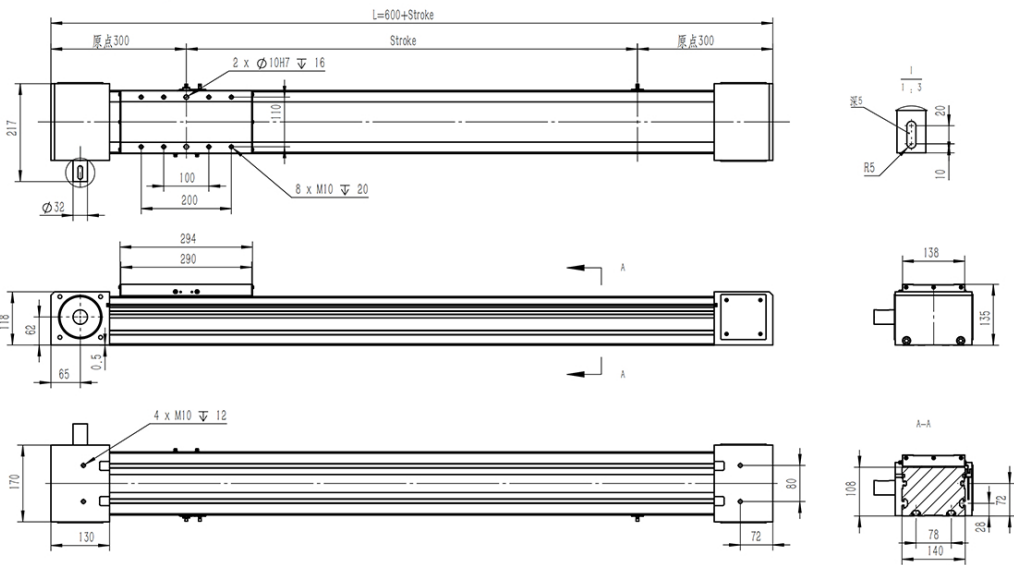
ITO 100 L



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Table with 20 columns (Stroke 100-2000mm) and 4 rows (L, Weight, Stroke, Weight).

ITO 140

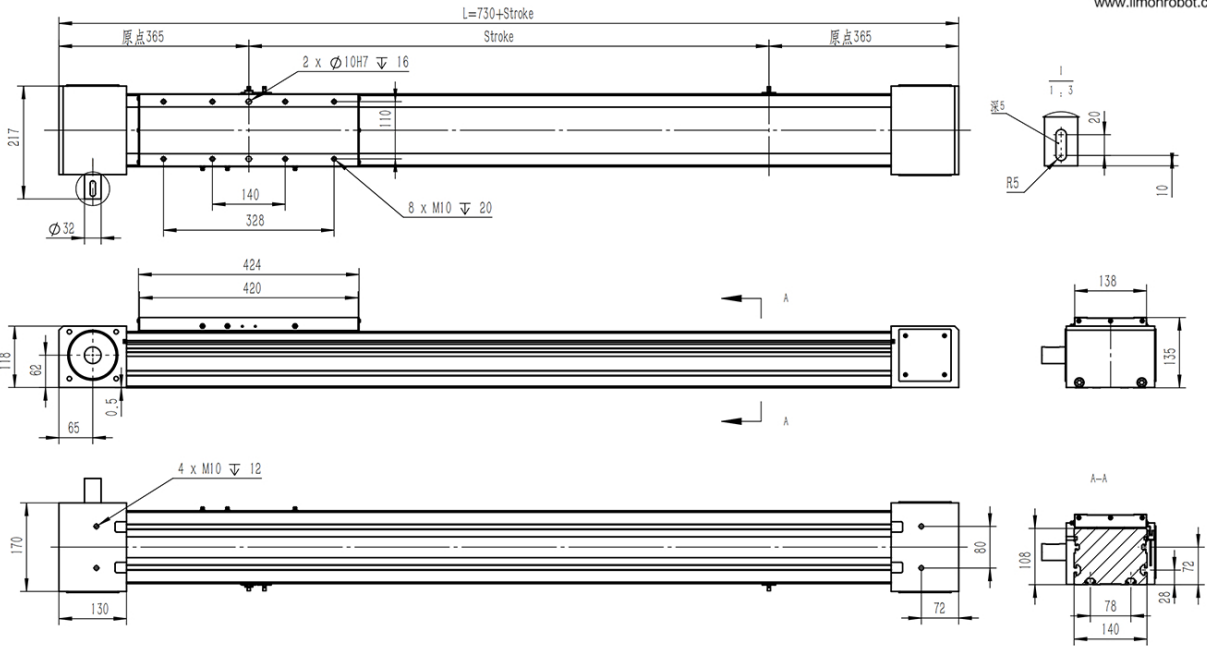


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Table with 20 columns (Stroke 100-2000mm) and 4 rows (L, Weight, Stroke, Weight).

ITO 40/60/80/100/140 欧标半密式同步带驱动型
European standard semi-dense synchronous belt drive type

ITO 140L



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Table with 20 columns (Stroke 100-2000mm) and 4 rows (L, Weight, Stroke, Weight).

ITO Series

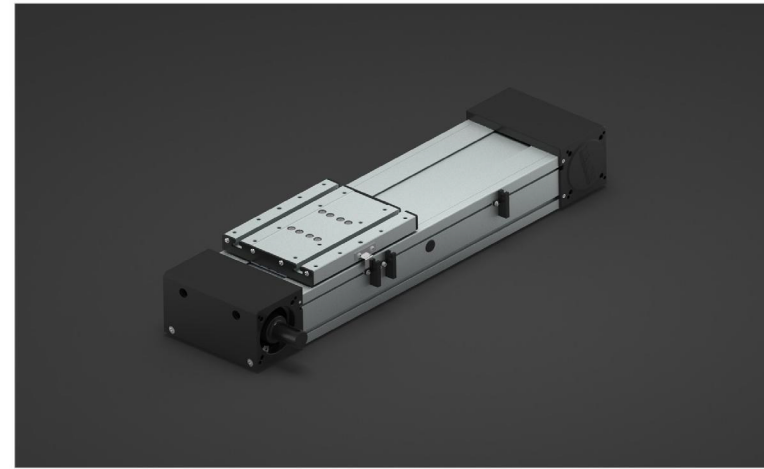
ITO Series

ITO 160 欧标半密式同步带驱动型
European standard semi-dense synchronous belt drive type

订购型号代码 Code

Table with 8 columns: ITO160, 500, D01, DB, GB2, 22, P3, A001. Sub-headers include Item NO., Stroke, Motor Mounting Direction, Motor type, Coupling hole dimension, Photoelectric Sensor, and Special Order No.

注:辅助滑块选项相关参数参见样本P217.



最大动力和力矩
Max Permissible Forces And Torques

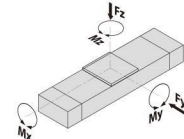


Table with 2 columns: 规格 Type and 160. Rows list force and torque values for X, Y, and Z axes.

除了满足最大负载和力矩外,还必须满足以下公式:

Formula for force and torque limits: Fy max. + Fz max. + Mx max. + My max. + Mz max. ≤ 1

马达安装方向 Motor Mounting Position Version

Table showing motor mounting positions D01 through D05 with corresponding diagrams.

基本规格 Basic Specification

Table with 2 columns: ITO and 160. Rows include technical parameters like Repetitive Accuracy, Pulley Lead, Belt Type, Maximum Speed, Maximum Payload, Driving Torque, and basic specifications like Stroke, AC Servo Motor Output, Linear Guide, and Max Outline.

注1:辅助滑块选项相关参数参见样本P217.
Note1:Refer to catalogue P217 for relevant parameters of auxiliary carriage option
注2:马达座型号相关参数参见样本P89.
Note 2: Refer to catalogue P89 for relevant parameters of motor model
注3:减速机端联轴器孔径尺寸
Note3:Hole dimension of coupling (reducer side)
注4:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件.
Note4:Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.

欧标半密式同步带驱动型 ITO 160
European standard semi-dense synchronous belt drive type

ITO 160

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www.limonrobot.cn

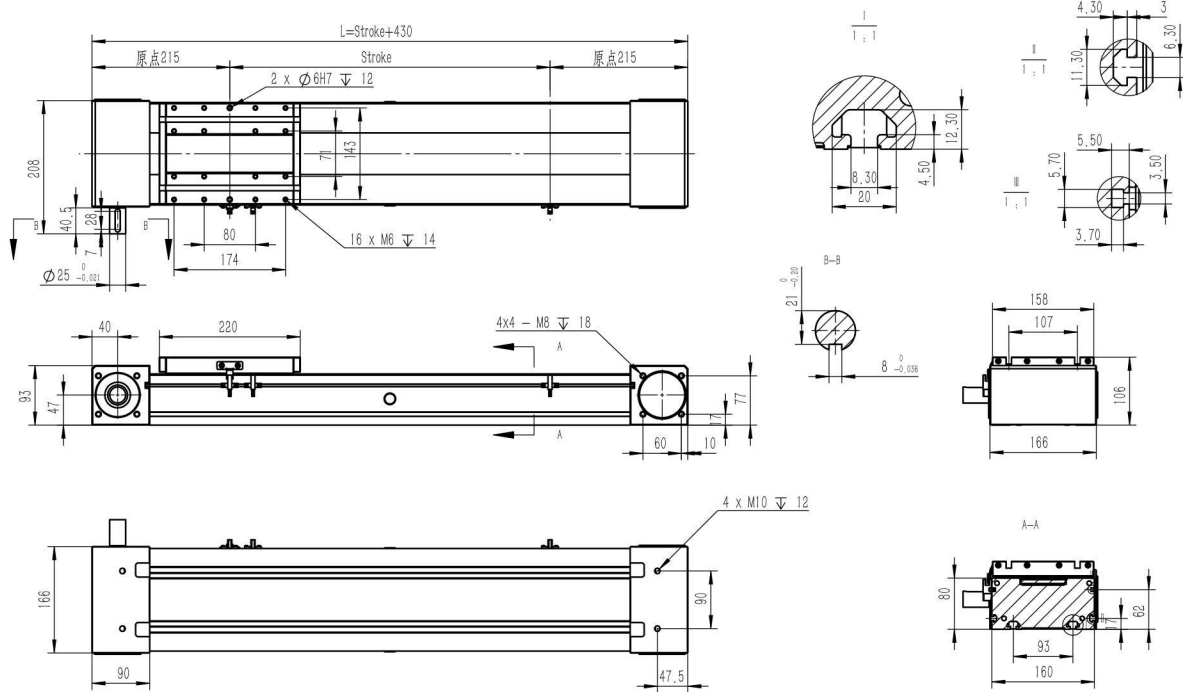
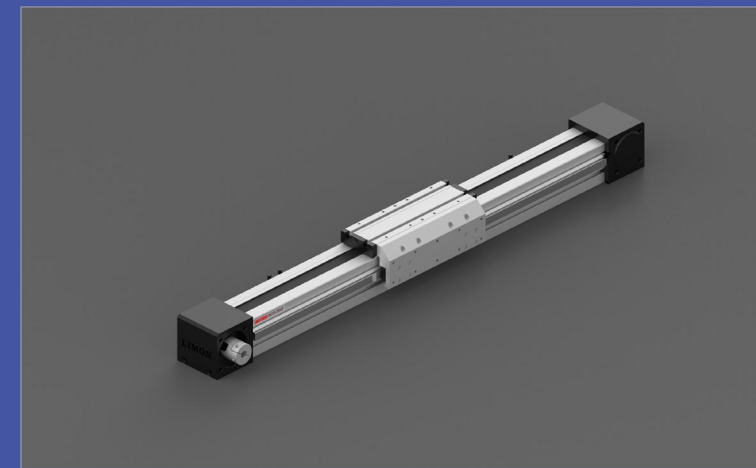


Table with 20 columns for stroke (100-2000 mm) and 2 rows for weight (kg).

ITO Series

欧标半密式同步带驱动侧轨加强型

European standard semi-dense synchronous belt drive side rail reinforced type



HTO 60 / 80 / 80L / 100 / 100L / 140 / 140L

HTO 60 80/100/140 欧标半密式同步带驱动侧轨加强型
European standard semi-dense synchronous belt drive side rail reinforced type

订购型号代码 Code

Table with 10 columns: HTO80, L, 500, DB, D01, GB2, 22, P3, A001. It details the configuration of the HTO series, including motor type, stroke, and various options.

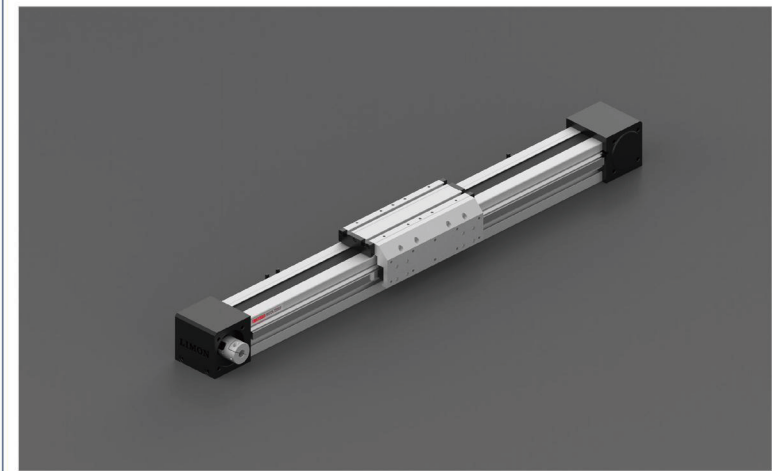


Table showing Max Permissible Forces And Torques for various HTO models (60, 80, 80L, 100, 100L, 140, 140L). It lists force (Fy, Fz) and torque (Mx, My, Mz) values in N and Nm.

马达安装方向 Motor Mounting Position Version

Table showing Motor Mounting Position Version for models D01 through D06, with corresponding diagrams for each.

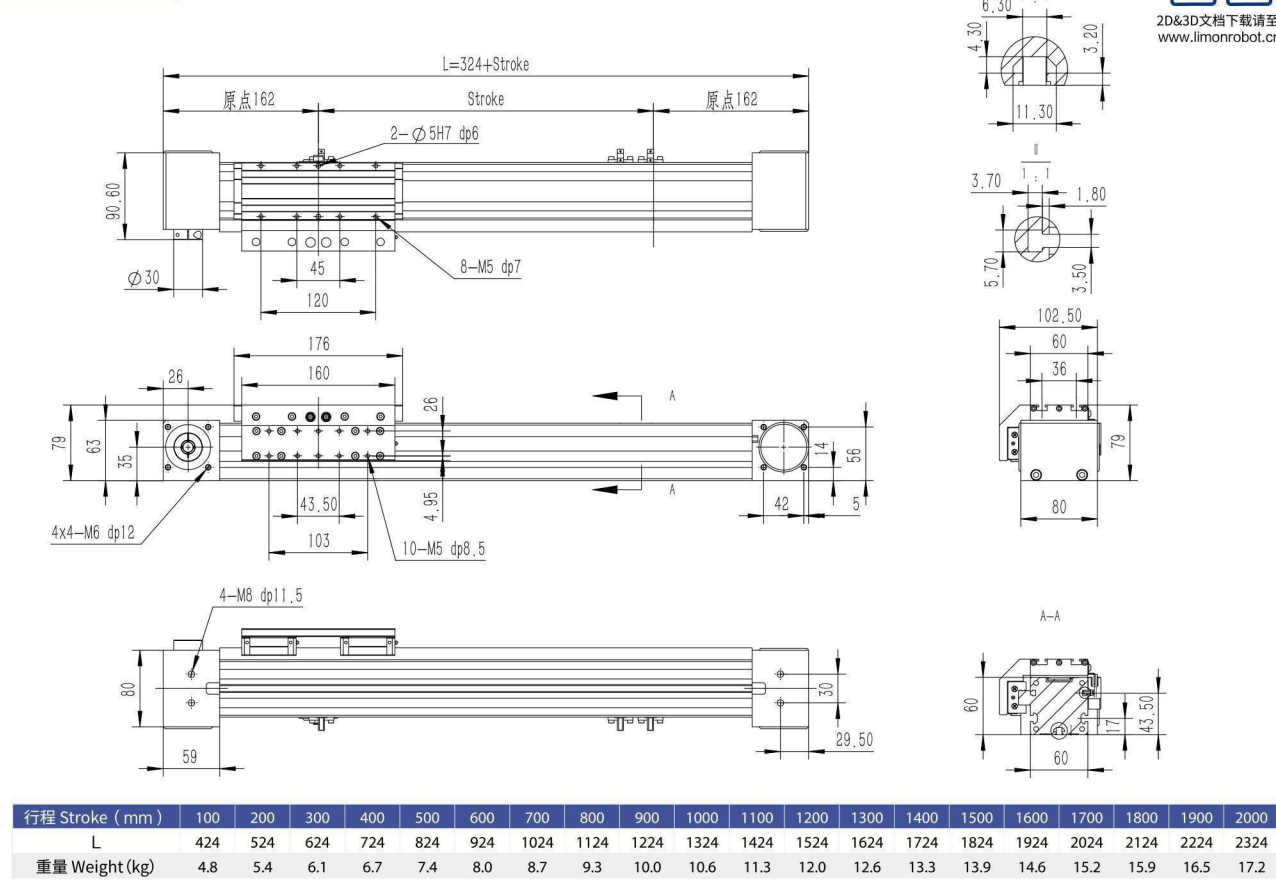
基本规格 Basic Specification

Table with 8 columns (HTO, HTO60, HTO80, HTO80L, HTO100, HTO100L, HTO140, HTO140L) and 10 rows of technical specifications including accuracy, speed, torque, and dimensions.

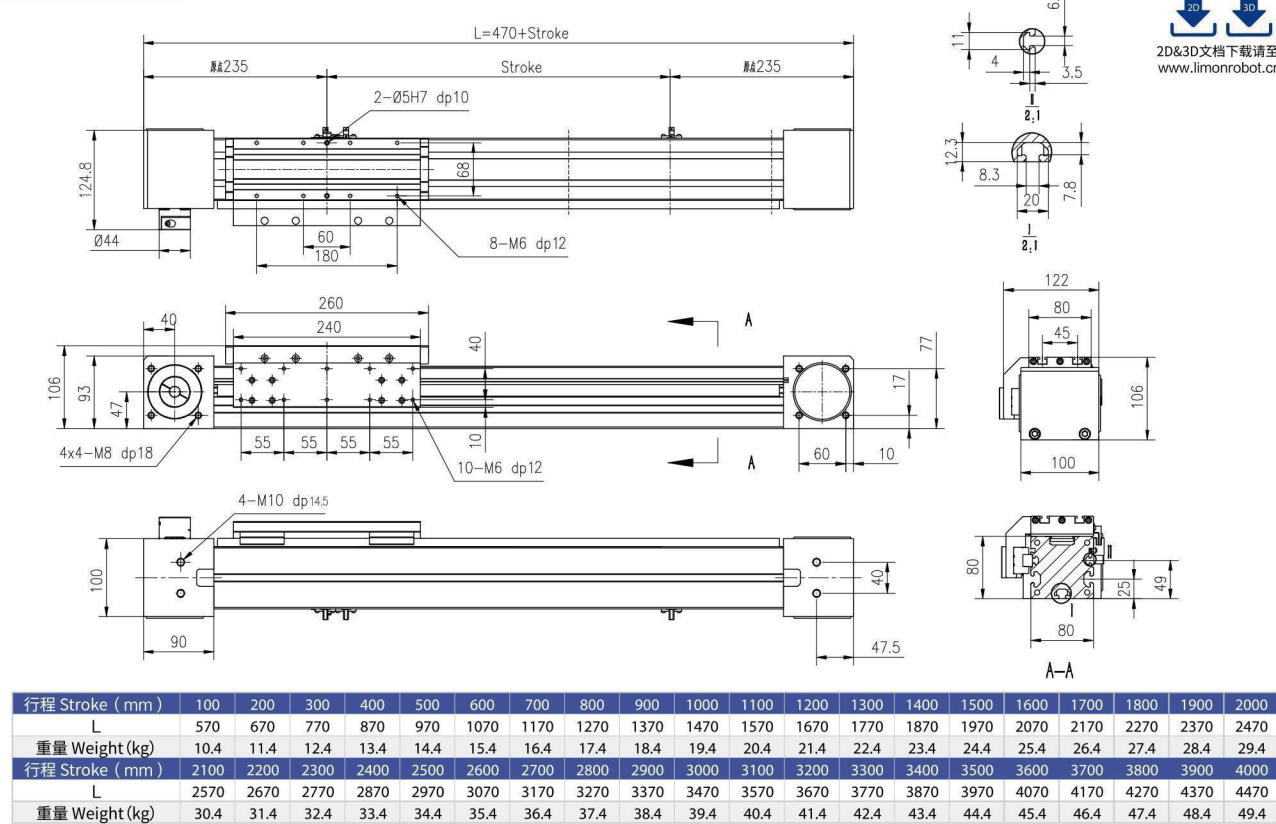
注1:辅助滑块选项相关参数参见样本P217.
Note1:Refer to catalogue P217 for relevant parameters of auxiliary carriage option
注2:马达型号相关参数参见样本P89.
Note2:Refer to catalogue P89 for relevant parameters of motor model
注3:减速机端联轴器孔尺寸
Note3:Hole dimension of coupling (reducer side)
注4:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件.
Note4:Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.

欧标半密式同步带驱动侧轨加强型 HTO 60 80/100/140
European standard semi-dense synchronous belt drive side rail reinforced type

HTO 60



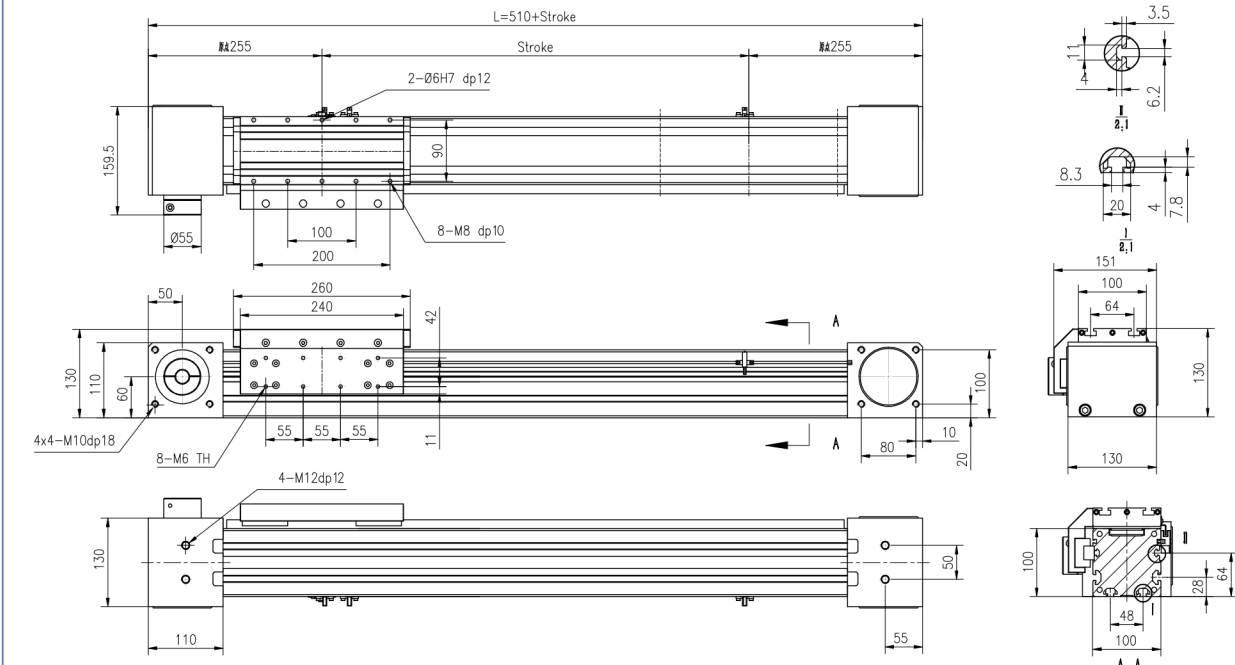
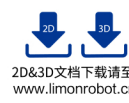
HTO 80



HTO 60 80/100/140 欧标半密式同步带驱动侧轨加强型

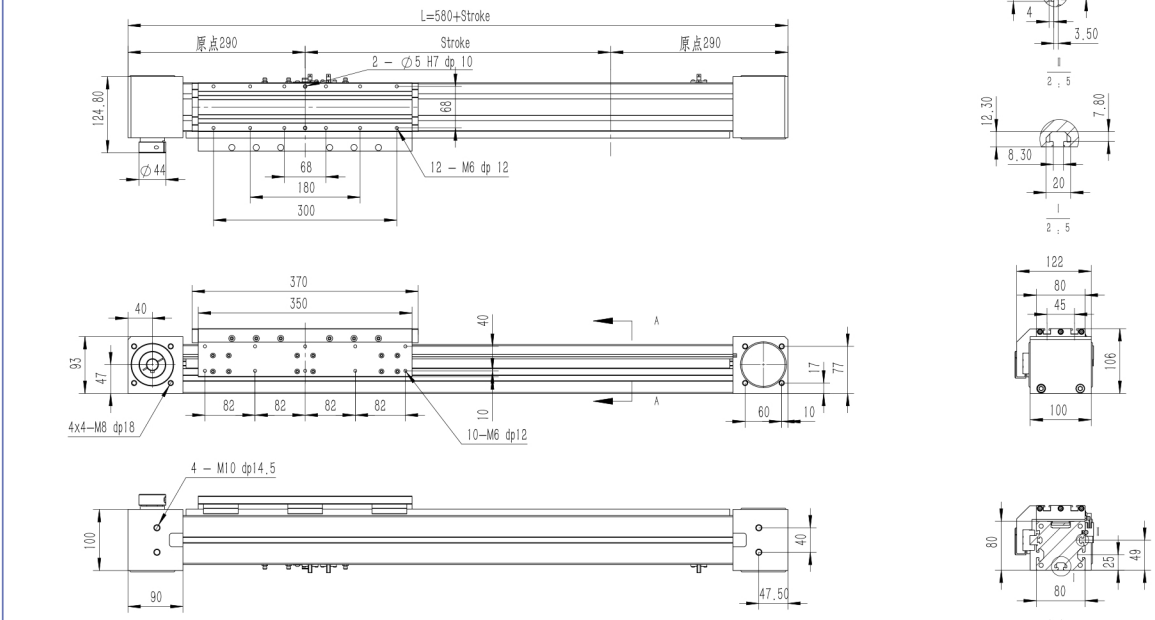
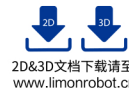
European standard semi-dense synchronous belt drive side rail reinforced type

HTO 100



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510
重量 Weight (kg)	17.4	18.85	20.30	21.75	23.20	24.65	26.10	27.55	29.00	30.45	31.90	33.35	34.80	36.25	37.70	39.15	40.60	42.05	43.50	44.95
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	3810	3910	4010	4110	4210	4310	4410	4510
重量 Weight (kg)	46.40	47.85	49.30	50.75	52.20	53.65	55.10	56.55	58.00	59.45	60.90	62.35	63.80	65.25	66.70	68.15	69.60	71.05	72.50	73.95

HTO 80L

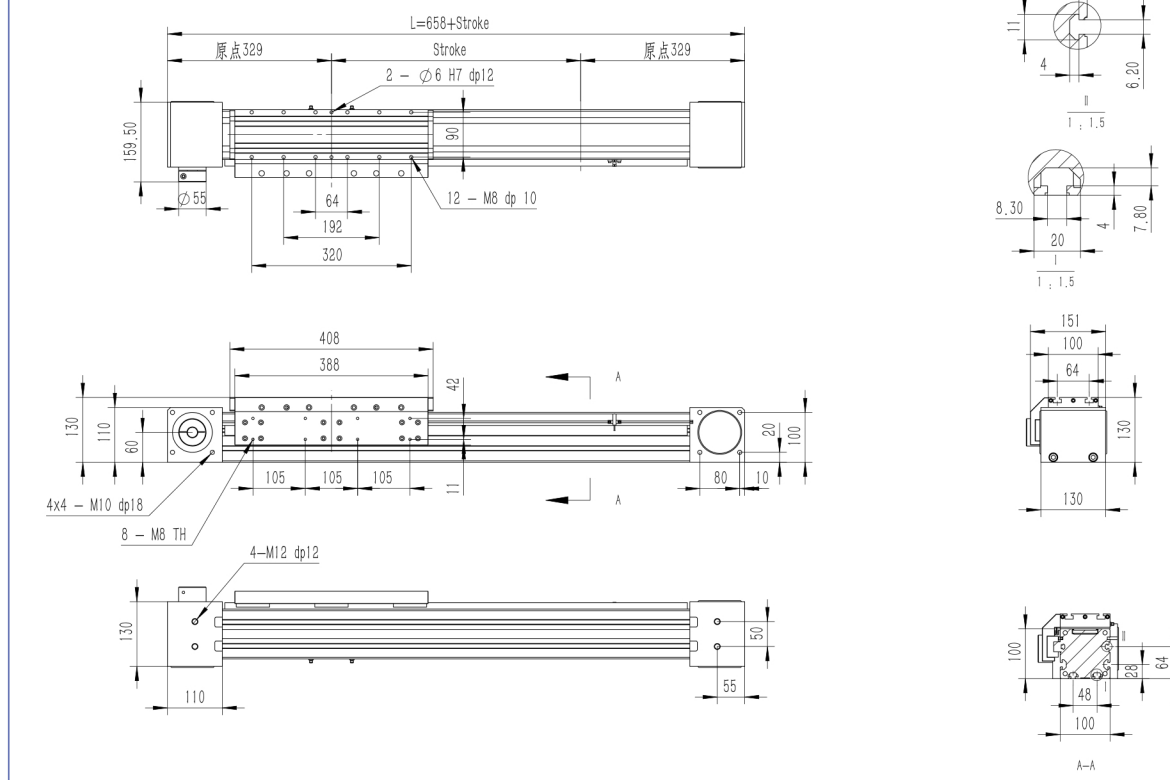
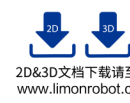


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	680	780	880	980	1080	1180	1280	1380	1480	1580	1680	1780	1880	1980	2080	2180	2280	2380	2480	2580
重量 Weight (kg)	12.70	13.68	14.66	15.64	16.62	17.60	18.58	19.56	20.54	21.52	22.50	23.48	24.46	25.44	26.42	27.40	28.38	29.36	30.34	31.32
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2680	2780	2880	2980	3080	3180	3280	3380	3480	3580	3680	3780	3880	3980	4080	4180	4280	4380	4480	4580
重量 Weight (kg)	32.30	33.28	34.26	35.24	36.22	37.20	38.18	39.16	40.14	41.12	42.10	43.08	44.06	45.04	46.02	47.00	47.98	48.96	49.94	50.92

欧标半密式同步带驱动侧轨加强型HTO 60 80/100/140

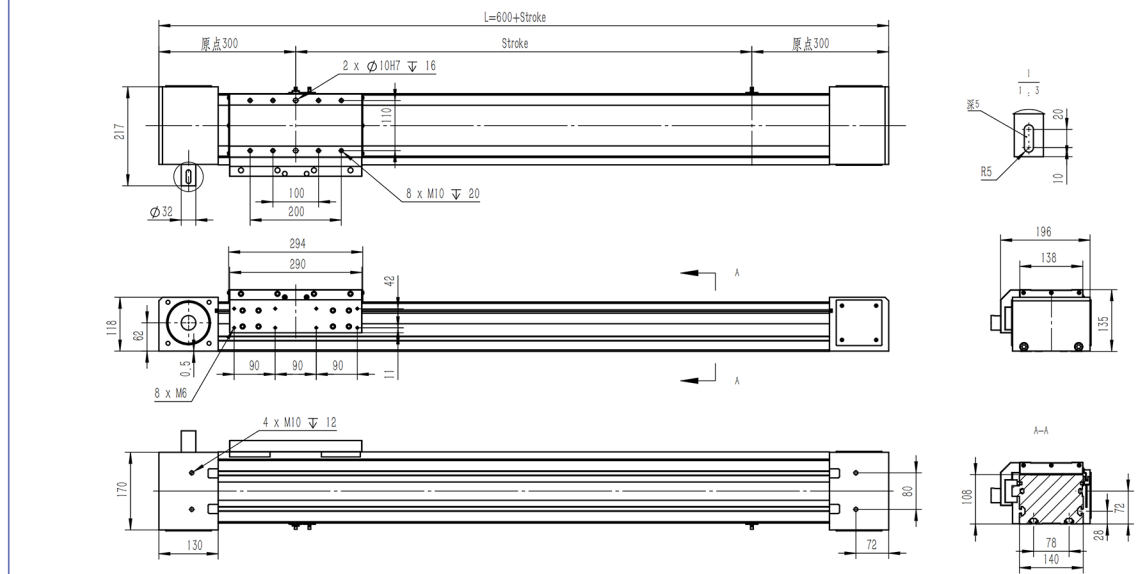
European standard semi-dense synchronous belt drive side rail reinforced type

HTO 100L



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	758	858	958	1058	1158	1258	1358	1458	1558	1658	1758	1858	1958	2058	2158	2258	2358	2458	2558	2658
重量 Weight (kg)	22.50	22.50	23.95	25.40	26.85	28.30	29.75	31.20	32.65	34.10	35.55	37.00	38.45	39.90	41.35	42.80	44.25	45.70	47.15	48.60
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2758	2858	2958	3058	3158	3258	3358	3458	3558	3658	3758	3858	3958	4058	4158	4258	4358	4458	4558	4658
重量 Weight (kg)	50.05	51.50	52.95	54.40	55.85	57.30	58.75	60.20	61.65	63.10	64.55	66.00	67.45	68.90	70.35	71.80	73.25	74.70	76.15	77.60

HTO140

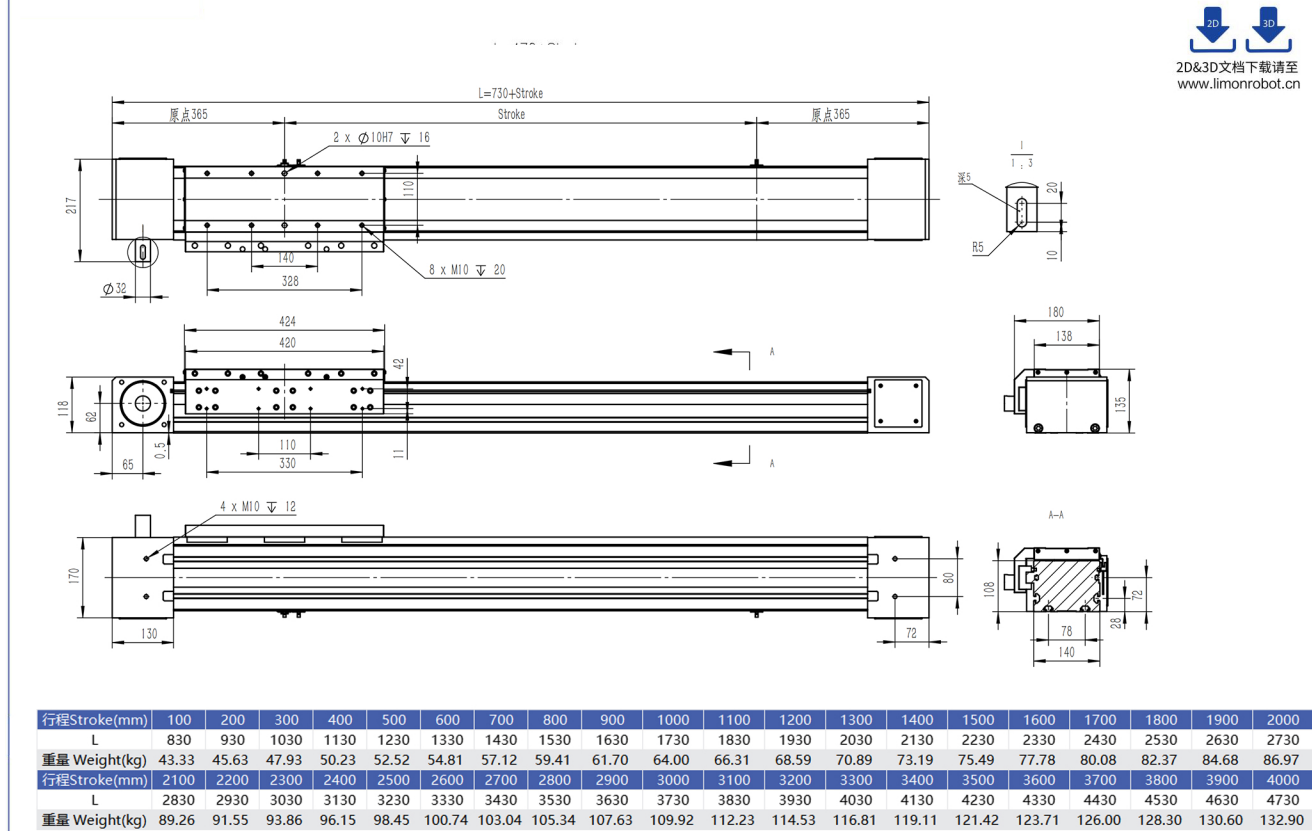


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
重量 Weight (kg)	36.43	38.74	41.03	43.33	45.61	47.92	50.22	52.51	54.80	57.11	59.40	61.69	63.99	66.29	68.59	70.88	73.17	75.48	77.78	80.06
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600
重量 Weight (kg)	82.36	84.67	86.96	89.25	91.55	93.85	96.14	98.44	100.73	103.04	105.33	107.62	109.92	112.23	114.51	116.81	119.10	121.41	123.70	126.00

HTO 140 欧标半密式同步带驱动侧轨加强型

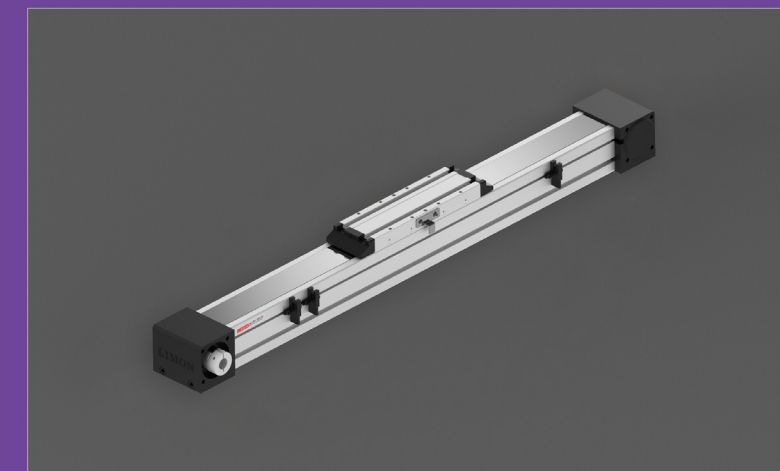
European standard semi-dense synchronous belt drive side rail reinforced type

HTO 140L



欧标全密式同步带驱动型

European standard fully dense synchronous belt drive type



ITC 60 / 60L / 80 / 80L / 100 / 100L

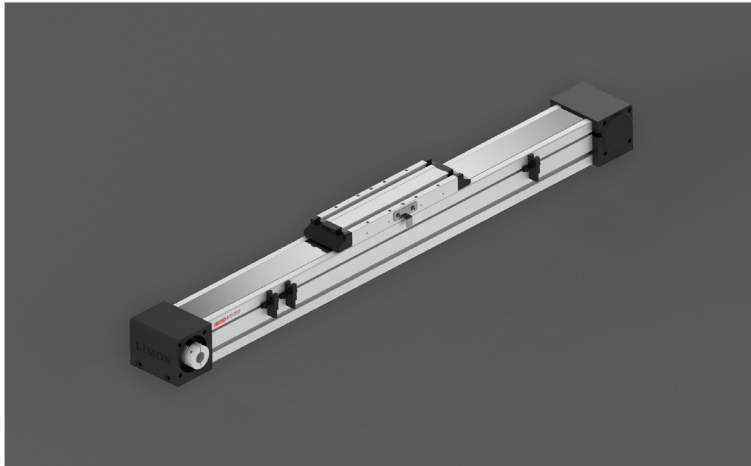
ITC 60/80/100 欧标全密式同步带驱动型

European standard fully dense synchronous belt drive type

订购型号代码 Code

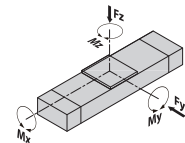
ITC60	L	500	DB	注	D01	GB2	22	P3	A001
本体型号 Item NO.	是否加长滑块	行程 Stroke	辅助滑块 Auxiliary Block		马达方向 Motor Mounting Direction	马达座型号 Motor type	联轴器内孔尺寸 Hole dimension of coupling	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
ITC 60	未标注:标准滑块	100-4000,间隔Gap100	未填写:单滑块		D01	GB2		P1: 1个 1PC	未标注: 无
ITC 80	L: 加长滑块		DB: 辅助滑块		D02	GB3		P2: 2个 2PCS	NoMark: NoSensor
ITC100					D03	GB4		P3: 3个 3PCS	
					D04			未标注: 无	
					D05			NoMark: NoSensor	

注: 辅助滑块选项相关参数参见样本P217.



最大动态力和力矩

Max Permissible Forces And Torques



规格 Type	60	60L	80	80L	100	100L
■ F(y) (N)	2457	5235	3131	7277	4375	11675
■ F(z) (N)	3375	5335	5120	7277	7860	11675
■ M(x)(N·m)	22	40	75	75	115	135
■ M(y)(N·m)	78	231	210	558	310	1322
■ M(z)(N·m)	78	231	210	558	310	1322

除了满足最大负载和力矩外, 还必须满足以下公式:

$$\frac{F_y}{F_y \max} + \frac{F_z}{F_z \max} + \frac{M_x}{M_x \max} + \frac{M_y}{M_y \max} + \frac{M_z}{M_z \max} \leq 1$$

马达安装方向 Motor Mounting Position Version

D01	D02	D03	D04	D05

基本规格 Basic Specification

ITC			60	60L	80	80L	100	100L
技术 参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)		± 0.05					
	皮带轮导程 Pulley Lead (mm)		130		176		224	
	皮带型号 Belt Type		5M-25		8M-30		8M-50	
	最高速度 Maximum Speed (mm/s)		5000		5000		5000	
	最大可搬重量 Maximum Payload	注1 *Note 1 水平使用Horizontal (kg)	30	45	50	75	80	120
		垂直使用Vertical (kg)	20	30	40	60	60	90
	最大空载扭矩 Max. No-load Driving Torque (N·m)		0.35	0.35	0.5	0.5	0.9	0.9
	最大扭矩 Max. Driving Torque (N·m)		13.3	13.3	49.8	49.5	105.7	105.7
基本 规格 Basic Specification	标准行程 Stroke (mm)		100-4000mm/100pitch					
	AC伺服马达容量 AC Servo Motor Output (W)		200 / 400		400 / 750		750 / 1000	
	高刚性直线滑轨 Linear Guide		15# × 1PCS		20# × 1PCS		25# × 1PCS	
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)		80 × 79		100 × 106		130 × 130	
	原点感应器 Home Sensor		EE-SX672(NPN)					

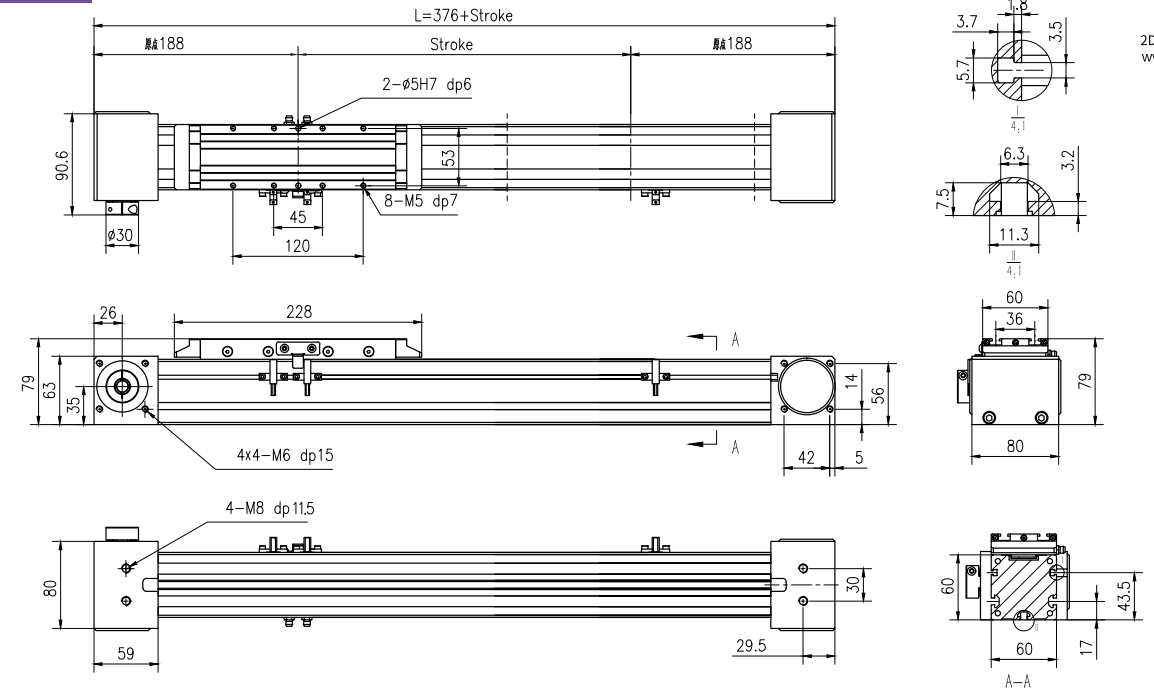
#注1: 测定条件为无力矩的理论数据, 根据力矩和加速度数据会相应改变, 具体请参考选型软件。

#Note1: Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.

欧标全密式同步带驱动型 ITC 60/80/100

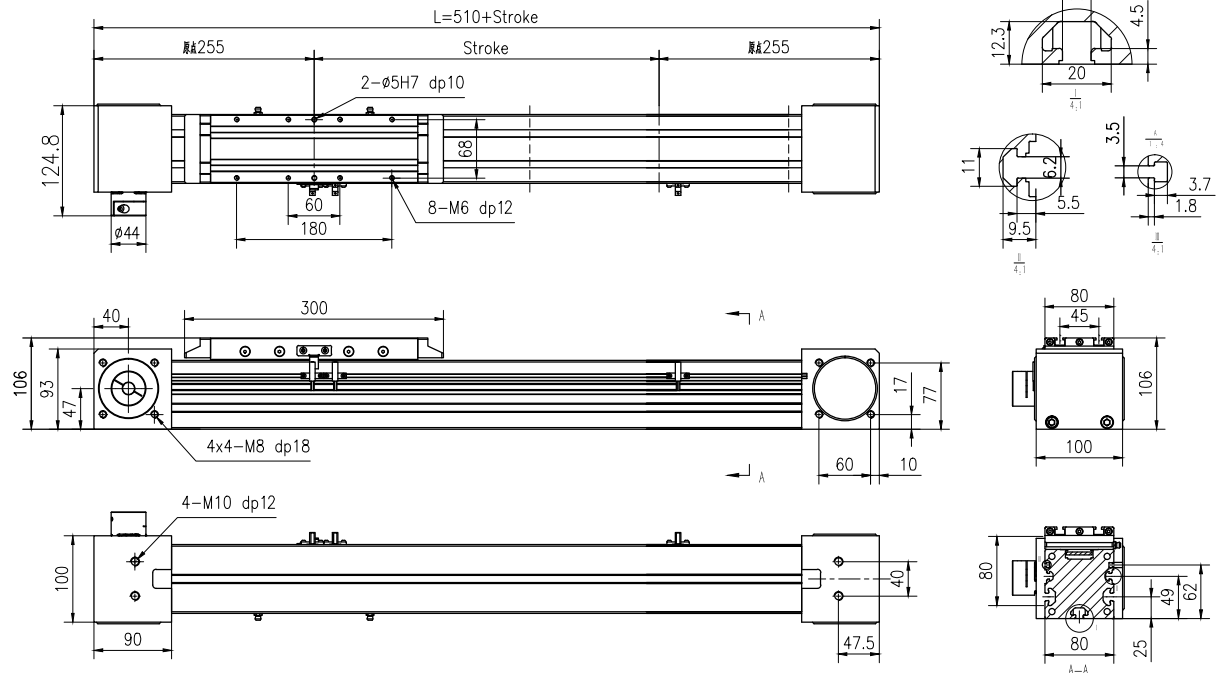
European standard fully dense synchronous belt drive type

ITC 60



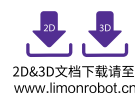
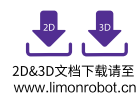
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	476	576	676	776	876	976	1076	1176	1276	1376	1476	1576	1676	1776	1876	1976	2076	2176	2276	2376
重量 Weight (kg)	2.8	3.3	3.8	4.3	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	10	10.5	11	11.5	12	12.5

ITC 80



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510
重量 Weight (kg)	9.4	10.2	11.1	11.9	12.8	13.7	14.5	15.4	16.2	17.1	18	18.8	19.7	20.5	21.4	22.3	23.1	24	24.8	25.7
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	3810	3910	4010	4110	4210	4310	4410	4510
重量 Weight (kg)	26.6	27.4	28.3	29.1	30	30.9	31.7	32.6	33.4	34.3	35.2	36	36.9	37.7	38.6	39.5	40.3	41.2	42	42.9

ITC 100

ITC 60L

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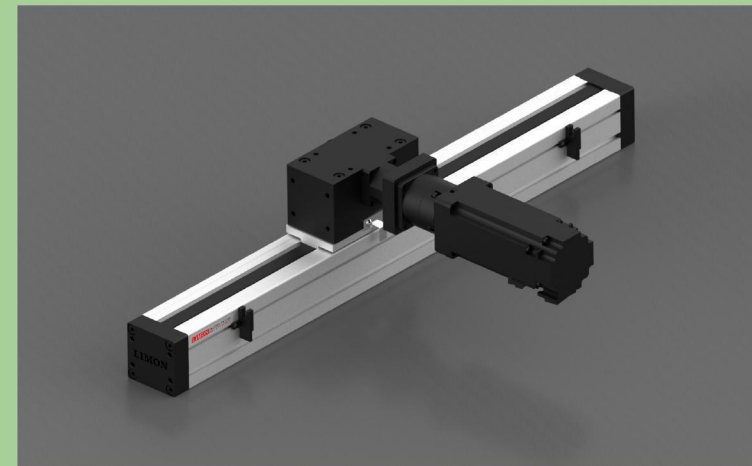
ITC 80L

ITC 100L

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欧标Z轴提升专用型

European standard Z-axis lifting special type



ITZ 60



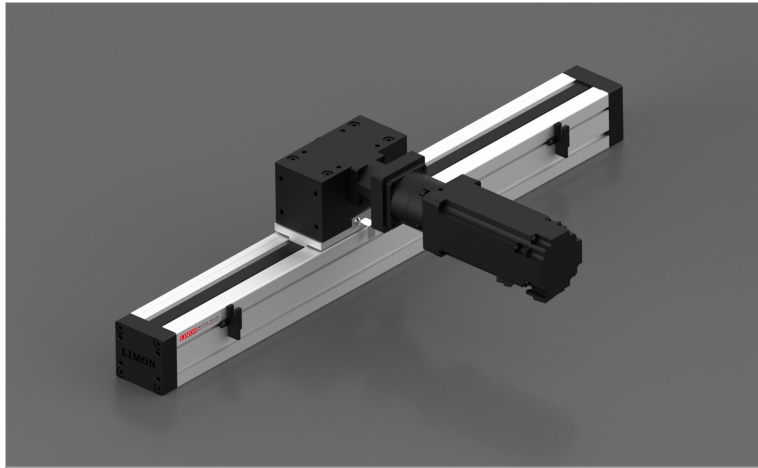
HTZ 60/80

ITZ 60 欧标Z轴提升专用型
European standard Z-axis lifting special type

订购型号代码 Code

Table with 7 columns: ITZ60, 500, DB, D01, GB2, 16, P3, A001. Sub-headers include Item NO., Stroke, Auxiliary Block, Motor Mounting Direction, Motor type, Hole dimension of coupling, Photoelectric Sensor, and Special Order No.

注:辅助滑块选项相关参数参见样本P217.



最大动态力和力矩
Max Permissible Forces And Torques

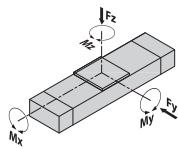


Table with 2 columns: 规格 Type and 60. Rows include F(y), F(z), M(x), M(y), and M(z) with their respective values.

除了满足最大负载和力矩外,还必须满足以下公式:

All forces and torques relate to the following:
Fy max. + Fz max. + Mx max. + My max. + Mz max. ≤ 1

马达安装方向 Motor Mounting Position Version

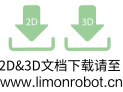
Table comparing motor mounting positions D01 and D02 with corresponding diagrams.

基本规格 Basic Specification

Table with 2 columns: ITZ and 60. Rows include technical parameters like Repetitive Accuracy, Pulley Lead, Belt Type, Maximum Speed, Maximum Payload, Driving Torque, and basic specifications like Stroke, AC Servo Motor Output, Linear Guide, Max Outline of Main Engine's Cross Section, and Home Sensor.

注1:辅助滑块选项相关参数参见样本P217.
Note1:Refer to catalogue P217 for relevant parameters of auxiliary carriage option
注2:马达座型号相关参数参见样本P38.
Note2:Refer to catalogue P38 for relevant parameters of motor model
注3: 减速机端联轴器孔径尺寸
Note3: Hole dimension of coupling (reducer side)
注4:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。
Note4:Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.

欧标Z轴提升专用型 ITZ 60
European standard Z-axis lifting special type



2D&3D文档下载请至
www.limonrobot.cn

ITZ 60

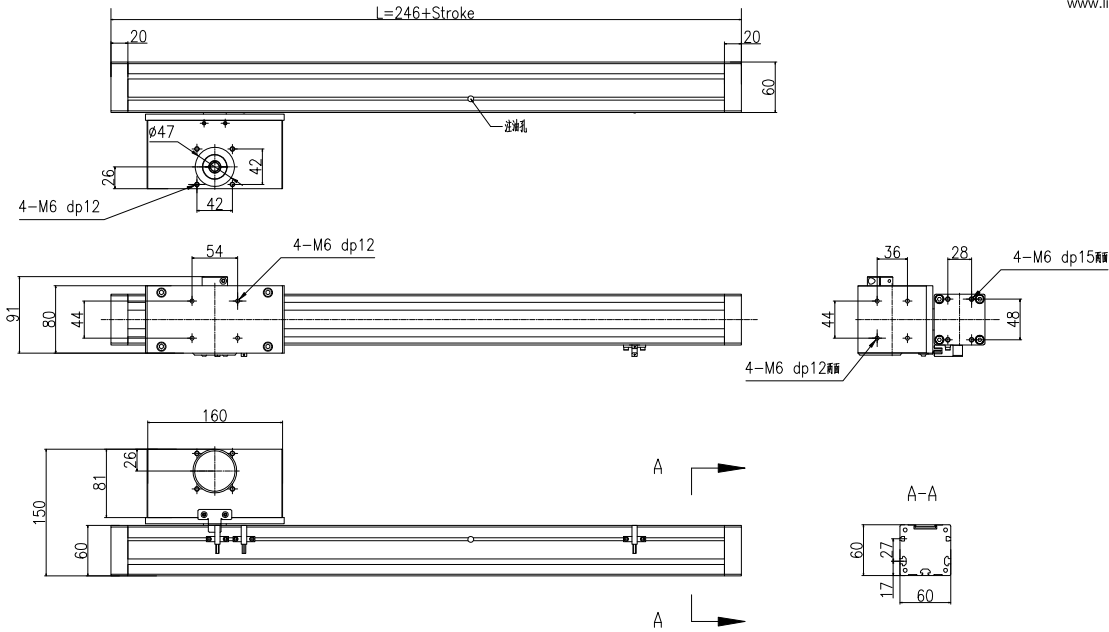
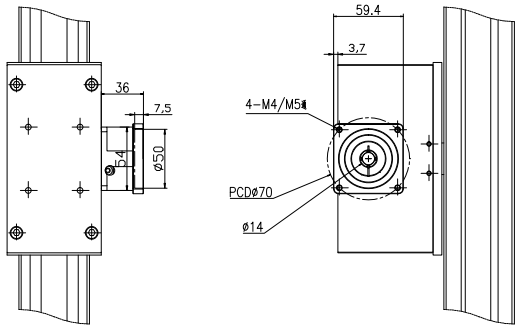
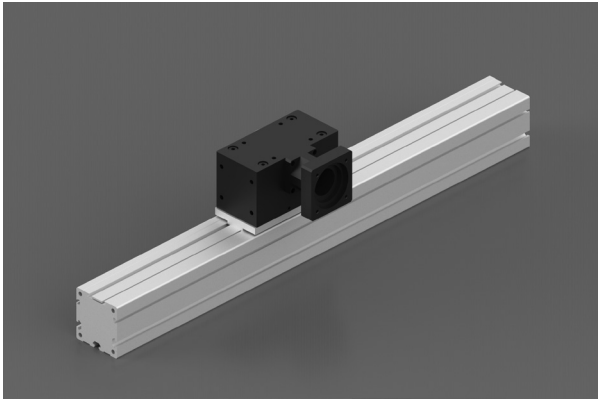


Table with 2 columns: 行程 Stroke (mm) and 重量 Weight (kg). Rows show values for strokes from 100 to 1500 mm.

马达座尺寸图 Dimentional Drawing of Motor Base



#注1: 上表尺寸个针对亚系主流马达品牌,如客户马达或减速机尺寸不在上表内,请在下单时说明。
Note 1: Size above aims at Asia main motor brand, if customer and reduction box's size is not included, please note in order.
#注2: 此零件为选购件,如需订购请在下单时备注。
Note 2: This is optional accessory, please remark if needed.

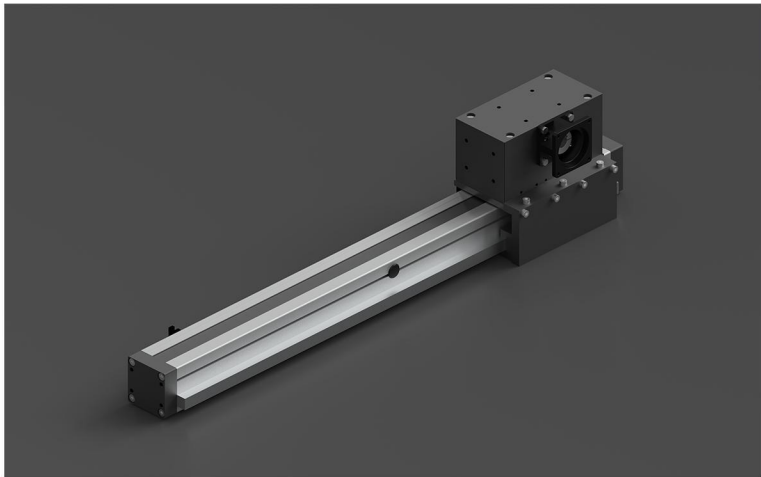
HTZ 60 欧标Z轴提升专用型

European standard Z-axis lifting special type

订购型号代码 Code

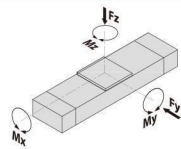
HTZ60	500	DB	D01	GB2	16	P3	A001
本体型号 Item NO.	行程 Stroke	辅助滑块 Auxiliary Block	马达方向 Motor Mounting Direction	马达座型号 Motor type	联轴器内孔尺寸 Hole dimension of coupling	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
HTZ60	100-1500,间隔Gap100	未填写:单滑块 DB:辅助滑块	D01 D02	GB2		P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark-NoSensor	未标记: 无 NoMark-NoSensor

注:辅助滑块选项相关参数参见样本P217.



最大动力和力矩

Max Permissible Forces And Torques



规格 Type	60
■F(y) (N)	999
■F(z) (N)	2684
■M(x) (N·m)	20
■M(y) (N·m)	61
■M(z) (N·m)	61

•除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

马达安装方向 Motor Mounting Position Version

D01	D02

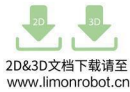
基本规格 Basic Specification

HTZ		60
技术 参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	± 0.05
	皮带轮导程 Pulley Lead (mm)	130
	皮带型号 Belt Type	5M-25
	最高速度 Maximum Speed (mm/s)	1500
	最大可搬重量 Maximum Payload	10
	最大空载扭矩 Max. No-load Driving Torque (N·m)	0.35
	最大扭矩 Max. Driving Torque (N·m)	13.3
基本 规格 Basic Specification	标准行程 Stroke (mm)	1-1500
	AC伺服马达容量 AC Servo Motor Output (W)	400
	高刚性直线滑轨 Linear Guide	15# × 2PCS
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	106 × 150.5
原点感应器 Home Sensor		EE-SX672(NPN)

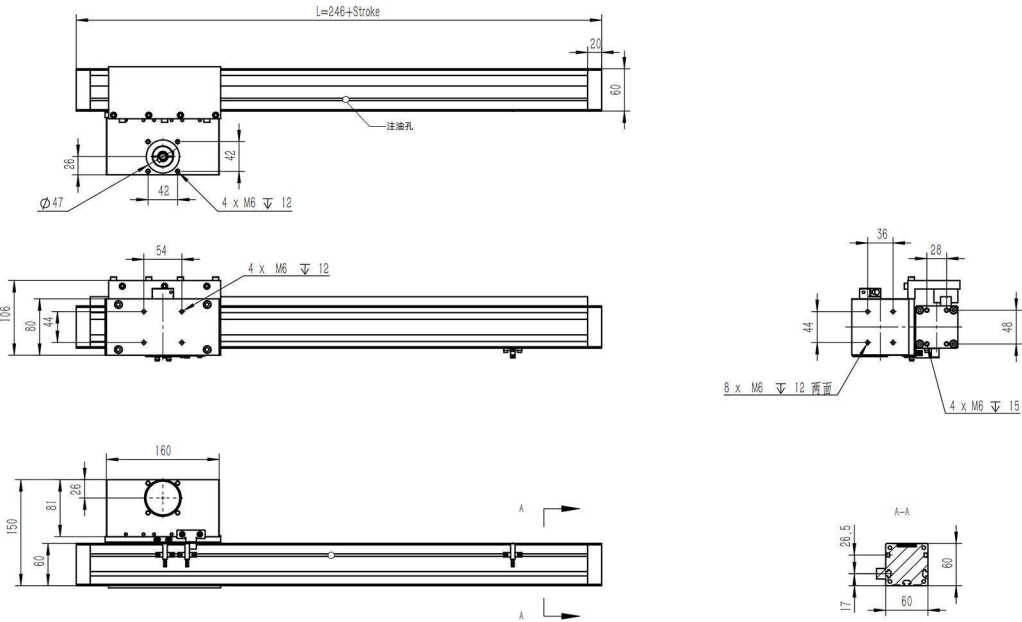
注1:辅助滑块选项相关参数参见样本P217.
Note1:Refer to catalogue P217 for relevant parameters of auxiliary carriage option
注2:马达座型号相关参数参见样本P38.
Note2:Refer to catalogue P38 for relevant parameters of motor model
注3: 减速机端联轴器孔径尺寸
Note3:Hole dimension of coupling (reducer side)
注4:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。
Note4:Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.

欧标Z轴提升专用型 HTZ 60

European standard Z-axis lifting special type

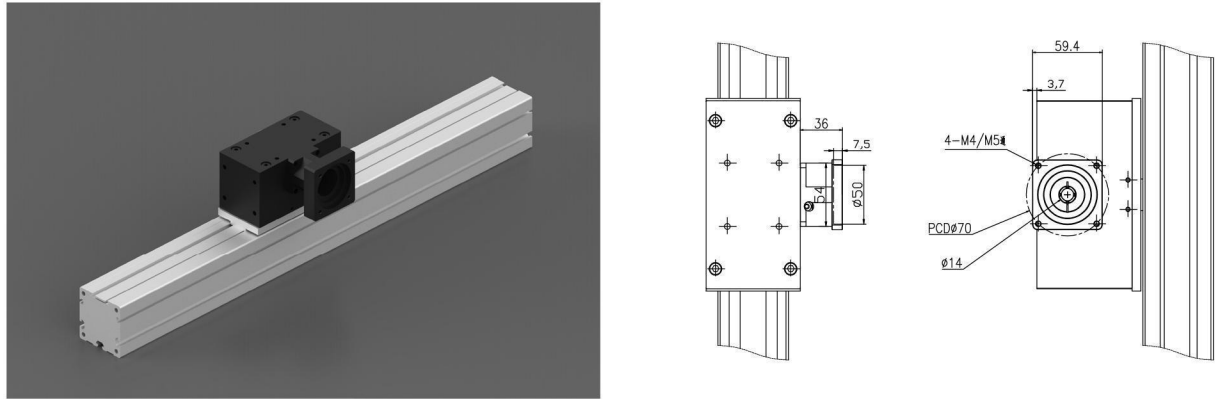


HTZ 60



行程 Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
L	346	446	546	646	746	846	946	1046	1146	1246	1346	1446	1546	1646	1746
重量 Weight(kg)	6.7	7.34	8	8.65	9.3	9.95	10.6	11.25	11.9	12.56	13.2	13.86	14.51	15.16	15.81

马达座尺寸图 Dimentional Drawing of Motor Base



#注1: 上表尺寸个针对亚系主流马达品牌,如客户马达或减速机尺寸不在上表内,请在下单时说明。
Note 1:Size above aims at Asia main motor brand, if customer and reduction box's size is not included, please note in order.
#注2: 此零件为选购件,如需订购请在下单时备注。
Note 2:This is optional accessory, please remark if needed.

HTZ 80 欧标Z轴提升专用型

European standard Z-axis lifting special type

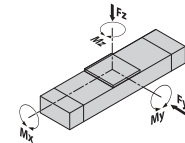
订购型号代码 Code

HTZ80	500	DB	D01	GB2	22	P3	A001
本体型号 Item NO.	行程 Stroke	辅助滑块 Auxiliary Block	马达方向 Motor Mounting Position	马达座型号 Motor type	联轴器内孔尺寸 Hole dimension of coupling	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
HTZ80	100-1500,间隔Gap100	未填写:单滑块 DB:辅助滑块	D01	GB2 GB3	注3 Note3	P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark:NoSensor	未标记: 无 NoMark:NoSensor

注:辅助滑块选项相关参数参见样本P217.



最大动力和力矩 Max Permissible Forces And Torques

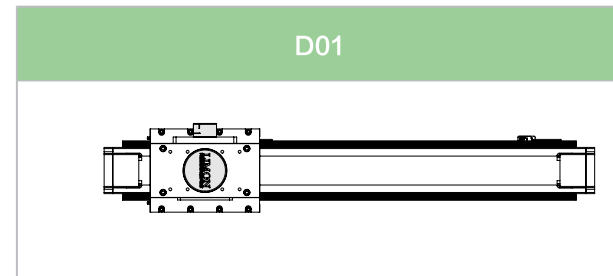


规格 Type	80
■F(y) (N)	8370
■F(z) (N)	8370
■M(x) (N·m)	140
■M(y) (N·m)	400
■M(z) (N·m)	400

•除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

马达安装方向 Motor Mounting Position Version



基本规格 Basic Specification

HTZ		80
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	±0.05
	皮带轮导程 Pulley Lead (mm)	210
	皮带型号 Belt Type	5M-50
	最高速度 Maximum Speed (mm/s)	2000
	最大可搬重量 Maximum Payload (kg)	30
	垂直使用Vertical	
基本规格 Basic Specification	最大空载扭矩 Max. No-load Driving Torque (N·m)	0.9
	最大扭矩 Max. Driving Torque (N·m)	49.8
	标准行程 Stroke (mm)	1-1500
	AC伺服马达容量 AC Servo Motor Output (W)	400/750
	高刚性直线滑轨 Linear Guide	15#×2PCS
基本规格 Basic Specification	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	94×190
	原点感应器 Home Sensor	PM-Y45(NPN)

注1:辅助滑块选项相关参数参见样本P217.

Note1:Refer to catalogue P217 for relevant parameters of auxiliary carriage option

注2:马达座型号相关参数参见样本P38.

Note2:Refer to catalogue P38 for relevant parameters of motor model

注3: 减速机端联轴器孔径尺寸

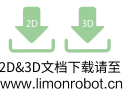
Note3:Hole dimension of coupling (reducer side)

注4:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。

Note4:Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.

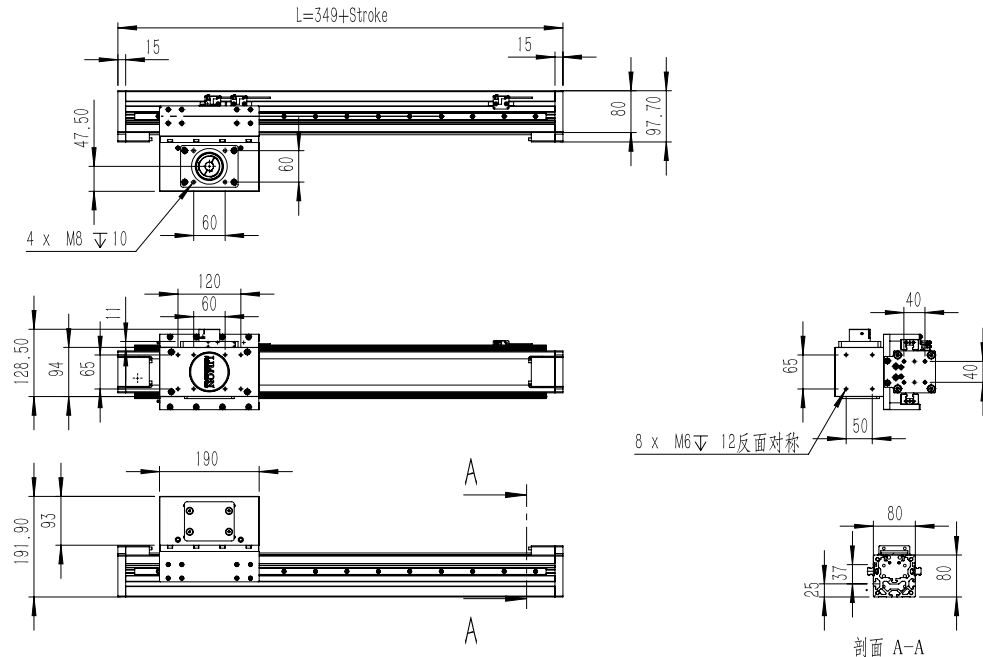
欧标Z轴提升专用型 HTZ 80

Belt Driven Linear Actuator



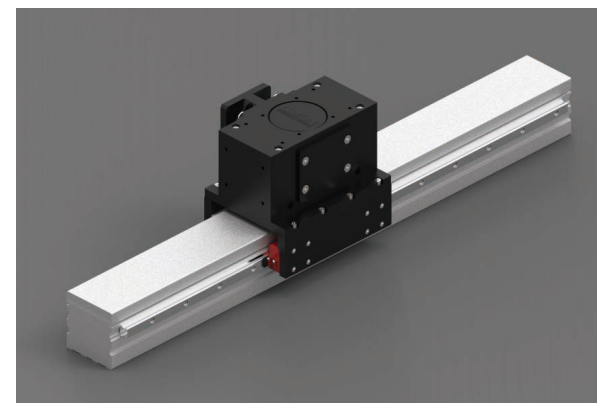
2D&3D文档下载请至
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HTZ 80



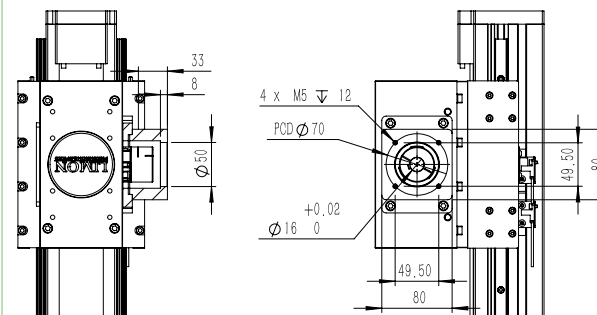
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
L	449	549	649	749	849	949	1049	1149	1249	1349	1449	1549	1649	1749	1849
重量 Weight (kg)	14.6	15.4	16.2	17	17.8	18.6	19.4	20.2	21	21.8	22.6	23.4	24.2	25	25.8

马达座尺寸图 Dimentional Drawing of Motor Base

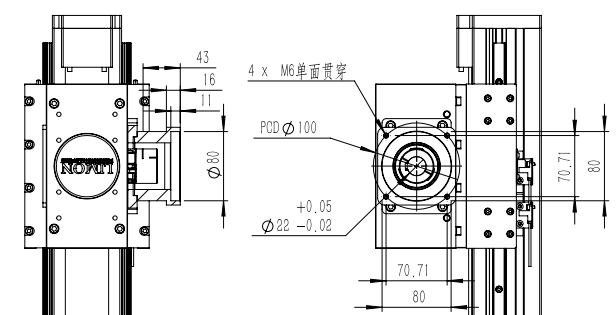


#注1: 此零件为选购件,如需订购请在下单时备注。
Note 1:This is optional accessory, please remark if needed.

I80-MDZ-GB2

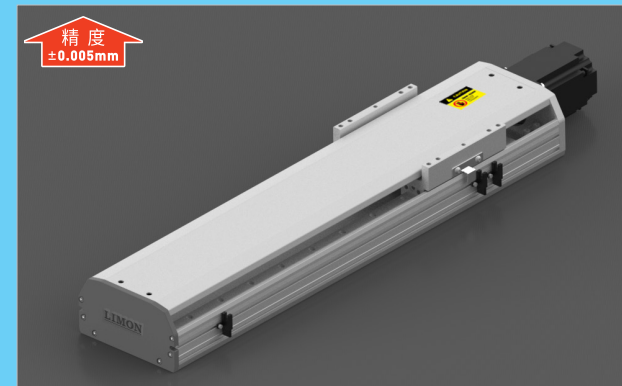


I80-MDZ-GB3

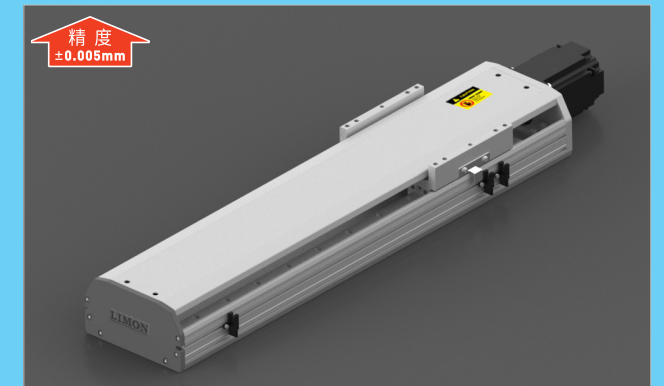


亚标半密式螺杆驱动型

Sub-standard semi-tight screw drive type



YSO 135



YSO 135G



YSO 170



YSO 220

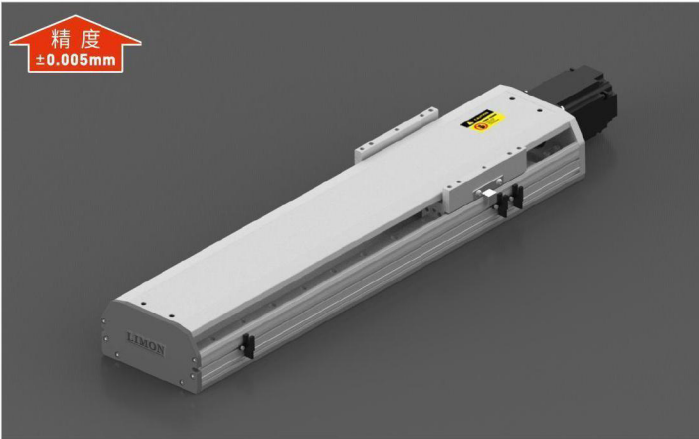
YSO 135 亚标半密式螺杆驱动型

Sub-standard semi-tight screw drive type

订购型号代码 Code

YSO135	L10	500	DB	2P	MS	M40	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead	行程 Stroke	辅助滑块 Auxiliary Block	直线导轨滑块数量 Block Quantity	马达方向 Motor Mounting Direction	马达品牌、功率 Motor Brand, Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	05 10 16 20	100-1250, 间隔Gap50	未填写:单滑块 DB: 辅助滑块	2P 4P	MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting	M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台达 Delta 75 - 1K -	P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark: NoSensor	未标记: 无 NoMark: NoSensor

注: 辅助滑块选项相关参数参见样本P217.



最大动力和力矩 Max Permissible Forces And Torques

Type	2P	4P
■ F(y) (N)	2684	5370
■ F(z) (N)	2684	5370
■ M(x) (N·m)	95	142
■ M(y) (N·m)	32	104
■ M(z) (N·m)	172	346

除了满足最大负载和力矩外, 还必须满足以下公式:
All forces and torques relate to the following:
$$\frac{F_y}{F_y \max} + \frac{F_z}{F_z \max} + \frac{M_x}{M_x \max} + \frac{M_y}{M_y \max} + \frac{M_z}{M_z \max} \leq 1$$

马达安装方向 Motor Mounting Position Version

MS Type 马达直接安装 Straight Motor Mounting	ML Type 马达左折安装 Left Motor Mounting	MR Type 马达右折安装 Right Motor Mounting	MD Type 马达下折安装 Down Motor Mounting

基本规格 Basic Specification

YSO135		2P(导轨滑块数量)Block quantity				4P(导轨滑块数量)Block quantity				
技术 参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	± 0.005								
	螺杆导程 Ball Screw Lead (mm)	5	10	16	20	5	10	16	20	
	最高速度 Maximum Speed (mm/s)	250	500	800	1000	250	500	800	1000	
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	60	45	40	30	100	80	60	45
		垂直使用Vertical (kg)	20	15	12	8	50	30	22	16
	定格推力 Rated Thrust (N)	1388	694	433	347	1388	694	433	347	
	最大空载扭矩 Max. No-load Driving Torque (N · m)	0.12	0.12	0.2	0.22	0.12	0.15	0.2	0.22	
最大扭矩 Max. Driving Torque (N · m)	10.9	12.5	14	16.7	10.9	12.5	14	16.7		
基本 规格 Basic Specification	标准行程 Stroke (mm)	100~1250 mm/ 50 Pitch								
	AC伺服马达容量 AC Servo Motor Output (W)	200/400								
	滚珠螺杆外径 Ball Screw Diameter (mm)	ø16 / ø20								
	高刚性直線滑軌 Linear Guide (mm)	15# × 2 PCS								
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	135 × 78								
	原点感应器 Home Sensor	EE-SX672(NPN)								

#注1: 行程超过900mm时, 可能会产生严重的共振现象, 此时应参考图纸下侧表格所对应的速度。

#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

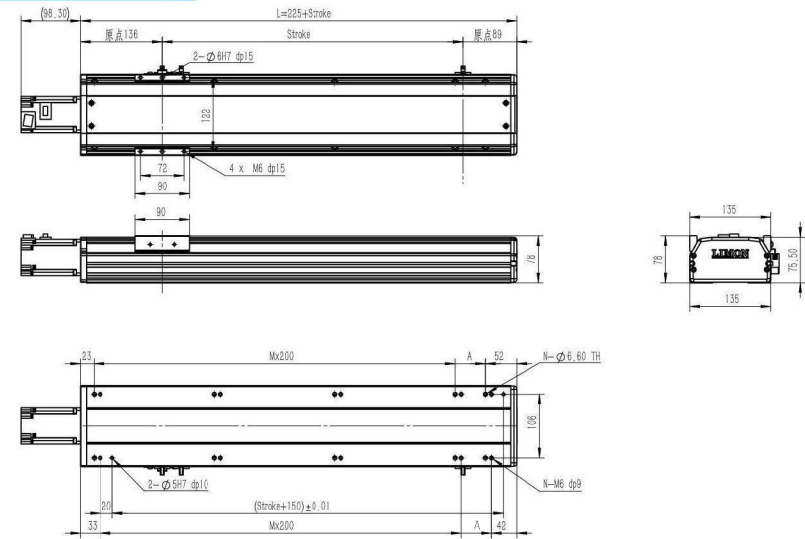
#注2: 测定条件为无力矩的理论数据, 根据力矩和加速度数据会相应改变, 具体请参考选型软件。

#Note 2: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

亚标半密式螺杆驱动型 YSO 135

Sub-standard semi-tight screw drive type

YSO135-2P-MS 马达直接安装 Straight Motor Mounting

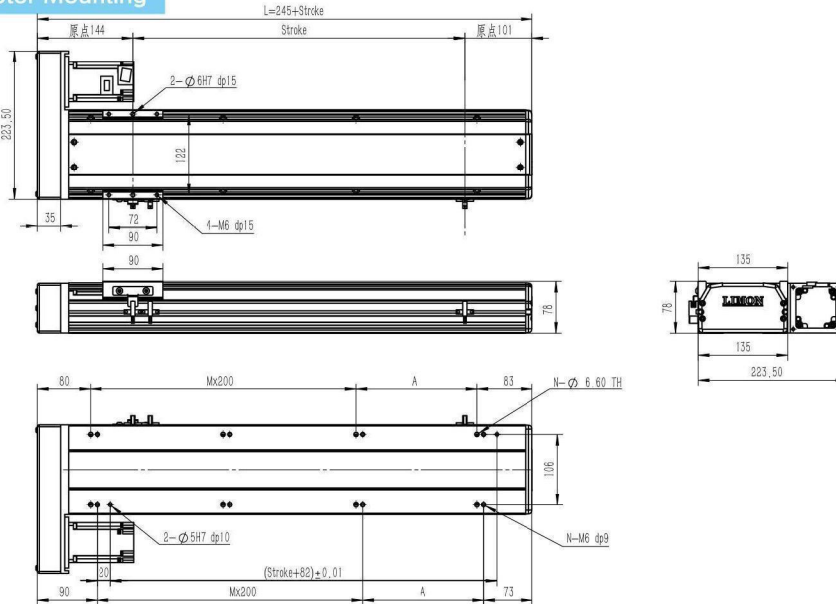


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	
L	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475	
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	
重量 Weight (kg)	6.0	6.4	6.9	7.4	7.9	8.3	8.8	9.3	9.8	10.2	10.7	11.2	11.7	12.1	12.6	13.0	13.6	14.0	14.5	15.0	15.5	15.9	16.4	16.9	
最高速度 Max speed (mm/sec)	导程 Pitch 20																			800		650		500	
	导程 Pitch 16																			800		640		520	
	导程 Pitch 10																			500		400		325	
	导程 Pitch 05																			250		200		162.5	

#注1: 行程超过900mm时, 可能会产生严重的共振现象, 此时应参考图纸下侧表格所对应的速度。

#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO135-2P-ML 马达左折安装 Left Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	
L	345	395	445	495	545	595	645	695	745	795	845	895	945	995	1045	1045	1145	1195	1195	1295	1345	1395	1445	1495	
A	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	
重量 Weight (kg)	7.0	7.4	7.9	8.4	8.9	9.3	9.8	10.3	10.8	11.2	11.7	12.2	12.7	13.1	13.6	14.1	14.6	15.0	15.5	16.0	16.5	16.9	17.4	17.9	
最高速度 Max speed (mm/sec)	导程 Pitch 20																			800		650		500	
	导程 Pitch 16																			640		520		400	
	导程 Pitch 10																			400		325		250	
	导程 Pitch 05																			200		162.5		125	

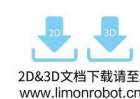
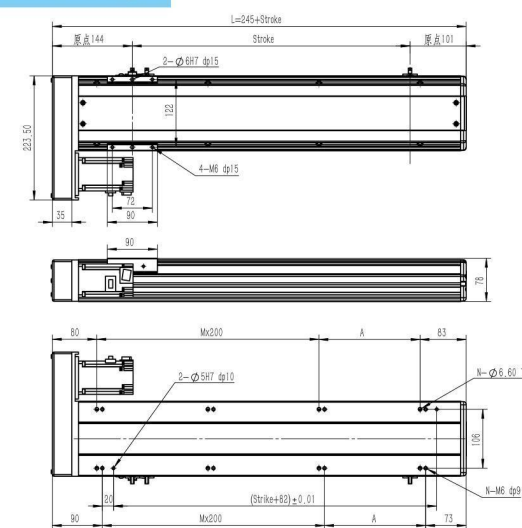
#注1: 行程超过900mm时, 可能会产生严重的共振现象, 此时应参考图纸下侧表格所对应的速度。

#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO 135 亚标半密式螺杆驱动型

Sub-standard semi-tight screw drive type

YSO135-2P-MR 马达右折安装 Right Motor Mounting

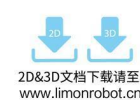
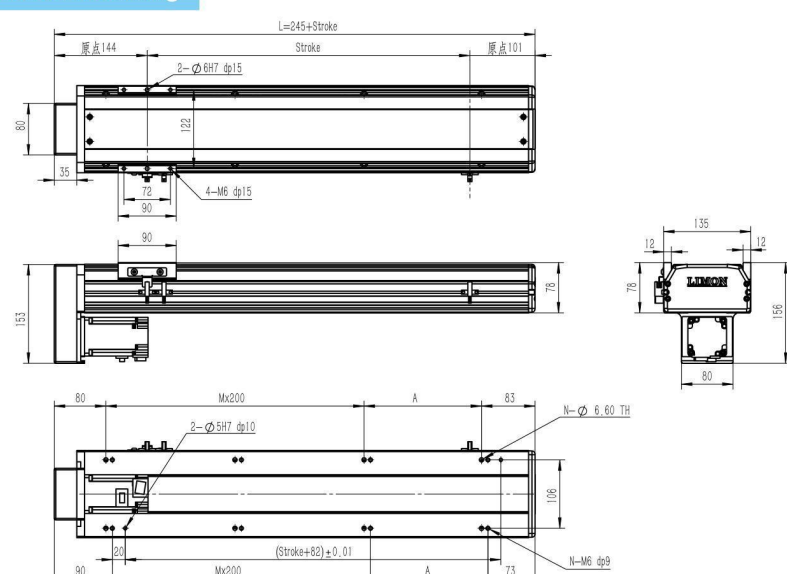


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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250		
L	345	395	445	495	545	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495		
A	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132		
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6		
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16		
重量 Weight (kg)	7.0	7.4	7.9	8.4	8.9	9.3	9.8	10.3	10.8	11.2	11.7	12.2	12.7	13.1	13.6	14.1	14.6	15.0	15.5	16.0	16.5	16.9	17.4	17.9		
最高速度 Max speed (mm/sec)	导程 Pitch 20																		800	650	500	450				
	导程 Pitch 16																		800		640	520	400	360		
	导程 Pitch 10																		500		400	325	250	225		
	导程 Pitch 05																		250		200	162.5	125	112.5		

#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSO135-2P-MD 马达下折安装 Down Motor Mounting



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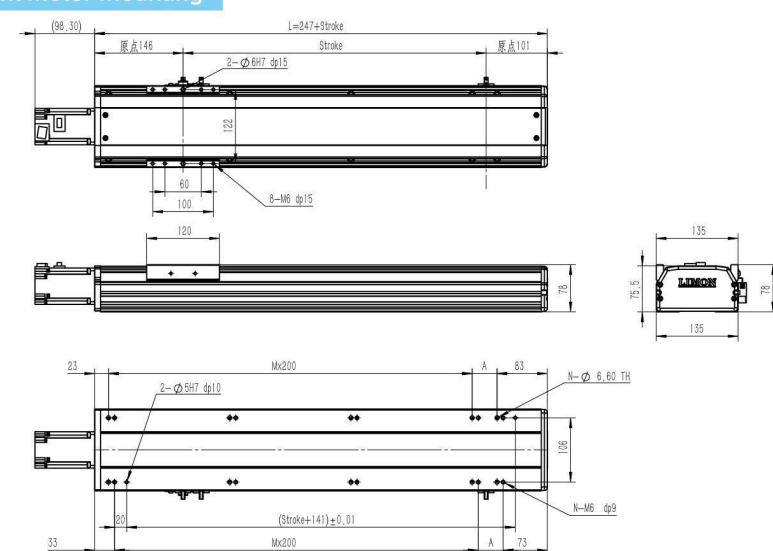
行程 Stroke (mm)		100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250				
最高速度 Max speed (mm/sec)	导程 Pitch 20	345	395	445	495	545	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495				
	导程 Pitch 16	182	32	82	132	182	232	282	332	382	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132				
	导程 Pitch 10	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6				
	导程 Pitch 05	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16				
重量 Weight (kg)		7.0	7.4	7.9	8.4	8.9	9.3	9.8	10.3	10.8	11.2	11.7	12.2	12.7	13.1	13.6	14.1	14.6	15.0	15.5	16.0	16.5	16.9	17.4	17.9				
最高速度 Max speed (mm/sec)	导程 Pitch 20																			800			650			500			450
	导程 Pitch 16																			640			520			400			360
	导程 Pitch 10																			400			325			250			225
	导程 Pitch 05																												

#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

亚标半密式螺杆驱动型 YSO 135

Sub-standard semi-tight screw drive type

YSO135-4P-MS 马达直接安装 StRight Motor Mounting

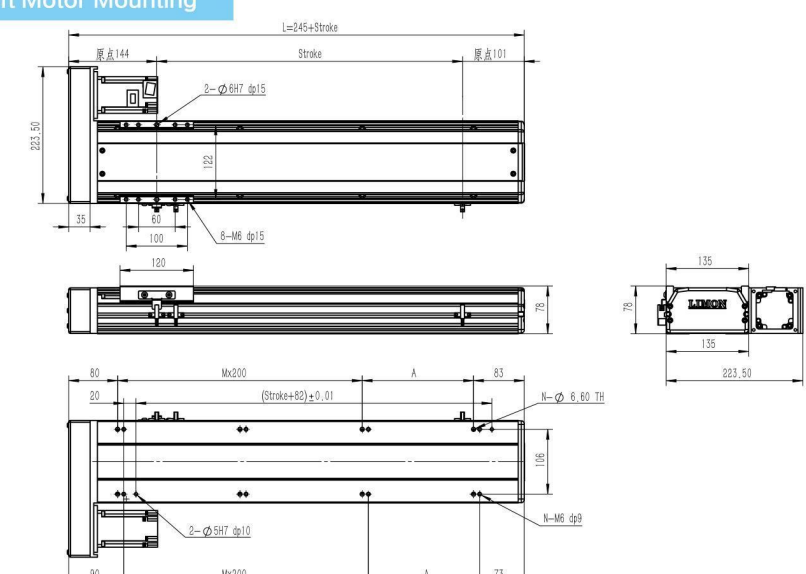


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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	347	397	447	497	547	597	647	697	747	797	847	897	947	997	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497
A	41	91	141	191	41	91	141	191	41	91	141	191	41	91	141	191	41	91	141	191	41	91	141	191
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
重量 Weight (kg)	6.2	6.6	7.1	7.6	8.1	8.5	9.0	9.5	10.0	10.4	10.9	11.4	11.9	12.3	12.8	13.3	13.8	14.2	14.7	15.2	15.7	16.1	16.6	17.1
最高速度 Max speed (mm/sec)	导程 Pitch 20																	800	650	500	450			
	导程 Pitch 16																	640	520	400	360			
	导程 Pitch 10																	400	325	250	225			
	导程 Pitch 05																	200	162.5	125	112.5			

#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSO135-4P-ML 马达左折安装 Left Motor Mounting



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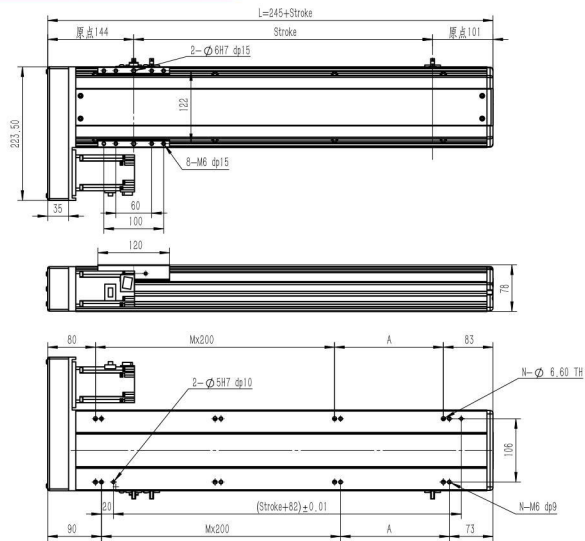
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行程 Stroke (mm)		100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950	5000	5050	5100	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850	5900	5950	6000	6050	6100	6150	6200	6250	6300	6350	6400	6450	6500	6550	6600	6650	6700	6750	6800	6850	6900	6950	7000	7050	7100	7150	7200	7250	7300	7350	7400	7450	7500	7550	7600	7650	7700	7750	7800	7850	7900	7950	8000	8050	8100	8150	8200	8250	8300	8350	8400	8450	8500	8550	8600	8650	8700	8750	8800	8850	8900	8950	9000	9050	9100	9150	9200	9250	9300	9350	9400	9450	9500	9550	9600	9650	9700	9750	9800	9850	9900	9950	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
最高速度 Max speed (mm/sec)	L	345	345	445	495	545	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495	1545	1595	1645	1695	1745	1795	1845	1895	1945	1995	2045	2095	2145	2195	2245	2295	2345	2395	2445	2495	2545	2595	2645	2695	2745	2795	2845	2895	2945	2995	3045	3095	3145	3195	3245	3295	3345	3395	3445	3495	3545	3595	3645	3695	3745	3795	3845	3895	3945	3995	4045	4095	4145	4195	4245	4295	4345	4395	4445	4495	4545	4595	4645	4695	4745	4795	4845	4895	4945	4995	5045	5095	5145	5195	5245	5295	5345	5395	5445	5495	5545	5595	5645	5695	5745	5795	5845	5895	5945	5995	6045	6095	6145	6195	6245	6295	6345	6395	6445	6495	6545	6595	6645	6695	6745	6795	6845	6895	6945	6995	7045	7095	7145	7195	7245	7295	7345	7395	7445	7495	7545	7595	7645	7695	7745	7795	7845	7895	7945	7995	8045	8095	8145	8195	8245	8295	8345	8395	8445	8495	8545	8595	8645	8695	8745	8795	8845	8895	8945	8995	9045	9095	9145	9195	9245	9295	9345	9395	9445	9495	9545	9595	9645	9695	9745	9795	9845	9895	9945	9995	10045	10095	10145	10195	10245	10295	10345	10395	10445	10495	10545	10595	10645	10695	10745	10795	10845	10895	10945	10995	11045	11095	11145	11195	11245	11295	11345	11395	11445	11495	11545	11595	11645	11695	11745	11795	11845	11895	11945	11995	12045	12095	12145	12195	12245	12295	12345	12395	12445	12495	12545	12595	12645	12695	12745	12795	12845	12895	12945	12995	13045	13095	13145	13195	13245	13295	13345	13395	13445	13495	13545	13595	13645	13695	13745	13795	13845	13895	13945	13995	14045	14095	14145	14195	14245	14295	14345	14395	14445	14495	14545	14595	14645	14695	14745	14795	14845	14895	14945	14995	15045	15095	15145	15195	15245	15295	15345	15395	15445	15495	15545	15595	15645	15695	15745	15795	15845	15895	15945	15995	16045	16095	16145	16195	16245	16295	16345	16395	16445	16495	16545	16595	16645	16695	16745	16795	16845	16895	16945	16995	17045	17095	17145	17195	17245	17295	17345	17395	17445	17495	17545	17595	17645	17695	17745	17795	17845	17895	17945	17995	18045	18095	18145	18195	18245	18295	18345	18395	18445	18495	18545	18595	18645	18695	18745	18795	18845	18895	18945	18995	19045	19095	19145	19195	19245	19295	19345	19395	19445	19495	19545	19595	19645	19695	19745	19795	19845	19895	19945	19995	20045	20095	20145	20195	20245	20295	20345	20395	20445	20495	20545	20595	20645	20695	20745	20795	20845	20895	20945	20995	21045	21095	21145	21195	21245	21295	21345	21395	21445	21495	21545	21595	21645	21695	21745	21795	21845	21895	21945	21995	22045	22095	22145	22195	22245	22295	22345	22395	22445	22495	22545	22595	22645	22695	22745	22795	22845	22895	22945	22995	23045	23095	23145	23195	23245	23295	23345	23395	23445	23495	23545	23595	23645	23695	23745	23795	23845	23895	23945	23995	24045	24095	24145	24195	24245	24295	24345	24395	24445	24495	24545	24595	24645	24695	24745	24795	24845	24895	24945	24995	25045	25095	25145	25195	25245	25295	25345	25395	25445	25495	25545	25595	25645	25695	25745	25795	25845	25895	25945	25995	26045	26095	26145	26195	26245	26295	26345	26395	26445	26495	26545	26595	26645	26695	26745	26795	26845	26895	26945	26995	27045	27095	27145	27195	27245	27295	27345	27395	27445	27495	27545	27595	27645	27695	27745	27795	27845	27895	27945	27995	28045	28095	28145	28195	28245	28295	28345	28395	28445	28495	28545	28595	28645	28695	28745	28795	28845	28895	28945	28995	29045	29095	29145	29195	29245	29295	29345	29395	29445	29495	29545	29595	29645	29695	29745	29795	29845	29895	29945	29995	30045	30095	30145	30195	30245	30295	30345	30395	30445	30495	30545	30595	30645	30695	30745	30795	30845	30895	30945	30995	31045	31095	31145	31195	31245	31295	31345	31395	31445	31495	31545	31595	31645	31695	31745	31795	31845	31895	31945	31995	32045	32095	32145	32195	32245	32295	32345	32395	32445	32495	32545	32595	32645	32695	32745	32795	32845	32895	32945	32995	33045	33095	33145	33195	33245	33295	33345	33395	33445	33495	33545	33595	33645	33695	33745	33795	33845	33895	33945	33995	34045	34095	34145	34195	34245	34295	34345	34395	34445	34495	34545	34595	34645	34695	34745	34795	34845	34895	34945	34995	35045	35095	35145	35195	35245	35295	35345	35395	35445	35495	35545	35595	35645	35695	35745	35795	35845	35895	35945	35995	36045	36095	36145	36195	36245	36295	36345	36395	36445	36495	36545	36595	36645	36695	36745	36795	36845	36895	36945	36995	37045	37095	37145	37195	37245	37295	37345	37395	37445	37495	37545	37595	37645	37695	37745	37795	37845	37895	37945	37995	38045	38095	38145	38195	38245	38295	38345	38395	38445	38495	38545	38595	38645	38695	38745	38795	38845	38895	38945	38995	39045	39095	39145	39195	39245	39295	39345	39395	39445	39495	39545	39595	39645	39695	39745	39795	39845	39895	39945	39995	40045	40095	40145	40195	40245	40295	40345	40395	40445	40495	40545	40595	40645	40695	40745	40795	40845	40895	40945	40995	41045	41095	41145	41195	41245	41295	41345	41395	41445	41495	41545	41595	41645	41695	41745	41795	41845	41895	41945	41995	42045	42095	42145	42195	42245	42295	42345	42395	42445	42495	42545	42595	42645	42695	42745	42795	42845	42895	42945	42995	43045	43095	43145	43195	43245	43295	43345	43395	43445	43495	43545	43595	4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#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSO 135 亚标半密式螺杆驱动型

Sub-standard semi-tight screw drive type

YSO135-4P-MR 马达右折安装 Right Motor Mounting

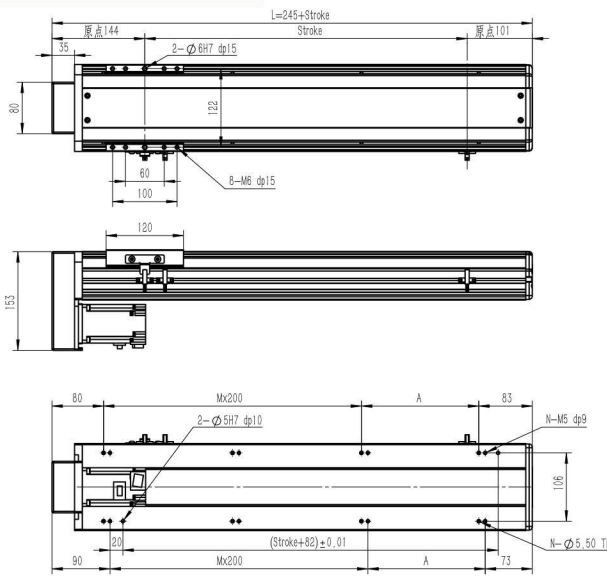


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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	345	395	445	495	545	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495
A	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
重量 Weight (kg)	7.2	7.6	8.1	8.6	9.1	9.5	10.0	10.5	11.0	11.4	11.9	12.4	12.9	13.3	13.8	14.3	14.8	15.2	15.7	16.2	16.7	17.1	17.6	18.1
最高速度 Max speed (mm/sec)	导程 Pitch 20																		800	650	500	450	导程 Pitch 16	
																			800	650	500	450		
																			640	520	400	360		
																			400	325	250	225		
																			200	162.5	125	112.5		

#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSO135-4P-MD 马达下折安装 Down Motor Mounting



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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	345	395	445	495	545	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495
A	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
重量 Weight (kg)	7.2	7.6	8.1	8.6	9.1	9.5	10.0	10.5	11.0	11.4	11.9	12.4	12.9	13.3	13.8	14.3	14.8	15.2	15.7	16.2	16.7	17.1	17.6	18.1
最高速度 Max speed (mm/sec)	导程 Pitch 20																		800	650	500	450	导程 Pitch 16	
																			800	650	500	450		
																			640	520	400	360		
																			400	325	250	225		
																			200	162.5	125	112.5		

#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

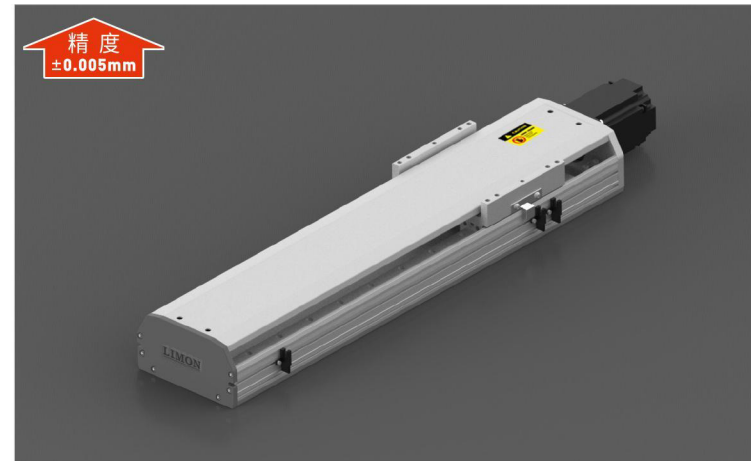
亚标半密式螺杆驱动型 YSO 135G

Sub-standard semi-tight screw drive type

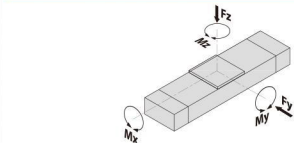
订购型号代码 Code

YSO135G	L10	500	DB	4P	MS	M40	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead	行程 Stroke	辅助滑块 Auxiliary Block	直线导轨滑块数量 Block Quantity	马达方向 Motor Mounting Direction	马达厂牌、功率 Motor Brand, Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	05	100-1250, 间隔Gap50	未填写:单滑块 DB:辅助滑块	4P	MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting	M 三菱 Mitsubishi 10 P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台达 Delta 75 1K	P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark:NoSensor	未标记: 无 NoMark:NoSensor

注:辅助滑块选项相关参数参见样本P217.



最大动态力和力矩 Max Permissible Forces And Torques



Type	4P
F(y) (N)	5370
F(z) (N)	5370
M(x) (N·m)	142
M(y) (N·m)	104
M(z) (N·m)	346

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:
$$\frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

马达安装方向 Motor Mounting Position Version

MS Type 马达直接安装 Straight Motor Mounting	ML Type 马达左折安装 Left Motor Mounting	MR Type 马达右折安装 Right Motor Mounting	MD Type 马达下折安装 Down Motor Mounting

基本规格 Basic Specification

YSO135G		4P(导轨滑块数量)Block quantity				
技术 参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	± 0.005				
	螺杆导程 Ball Screw Lead (mm)	5	10	16	20	
	最高速度 Maximum Speed (mm/s)	250	500	800	1000	
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	100	80	60	45
		垂直使用Vertical (kg)	50	30	22	16
	定格推力 Rated Thrust (N)	1388	694	433	347	
	最大空载扭矩 Max. No-load Driving Torque (N · m)	0.12	0.15	0.2	0.22	
	最大扭矩 Max. Driving Torque (N · m)	10.9	12.5	14	16.7	
基本 规格 Basic Specification	标准行程 Stroke (mm)	100~1250 mm/ 50 Pitch				
	AC伺服马达容量 AC Servo Motor Output (W)	200/400				
	滚珠螺杆外径 Ball Screw Diameter (mm)	Ø16 / Ø20				
	高刚性直線滑軌 Linear Guide (mm)	15# × 2 PCS				
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	135 × 78				
	原点感应器 Home Sensor	EE-SX672(NPN)				

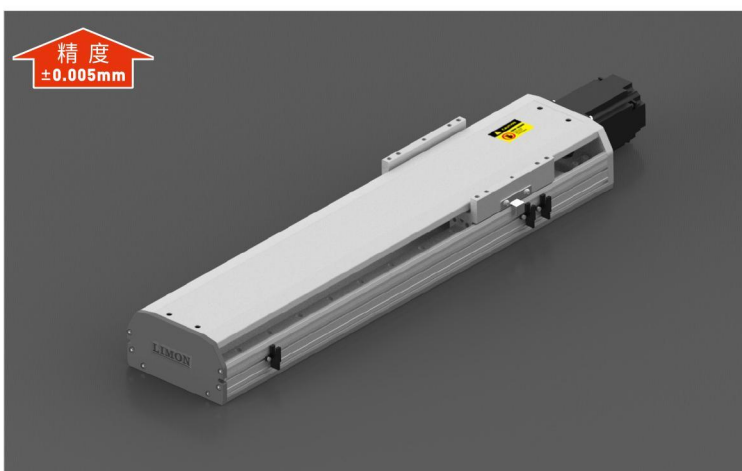
#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.
#注2:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。
#Note 2:Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.

YSO 170 亚标半密式螺杆驱动型
Sub-standard semi-tight screw drive type

订购型号代码 Code

Table with 9 columns: YSO170, L10, 500, DB, 4P, MS, M40, P3, A001. Each column contains specific product details like ball screw lead, stroke, auxiliary block, block quantity, motor mounting direction, motor brand/power, photoelectric sensor, and special order number.

注:辅助滑块选项相关参数参见样本P217.



最大动态力和力矩 Max Permissible Forces And Torques. Includes a diagram of force vectors and a table of values for Type 4P across various force and torque metrics.

马达安装方向 Motor Mounting Position Version

Table showing four motor mounting types: MS Type (Straight Motor Mounting), ML Type (Left Motor Mounting), MR Type (Right Motor Mounting), and MD Type (Down Motor Mounting), each with a corresponding diagram.

基本规格 Basic Specification

Table with 2 main sections: Technical Parameters (位置重复精度, 螺杆导程, 最高速度, etc.) and Basic Specification (标准行程, AC伺服马达容量, 滚珠螺杆外径, etc.).

#注1:行程超过850mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

亚标半密式螺杆驱动型 YSO 170
Sub-standard semi-tight screw drive type

YSO170-4P-MS 马达直接安装 Straight Motor Mounting

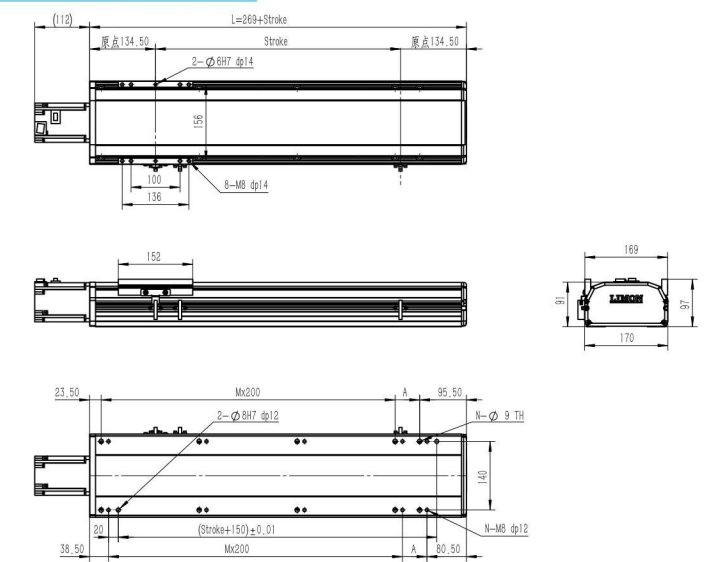


Table with 2 rows: 行程 Stroke (mm) and 重量 Weight (kg). Columns represent different stroke lengths from 100 to 1250 mm.

#注1:行程超过850mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO170-4P-ML 马达左折安装 Left Motor Mounting

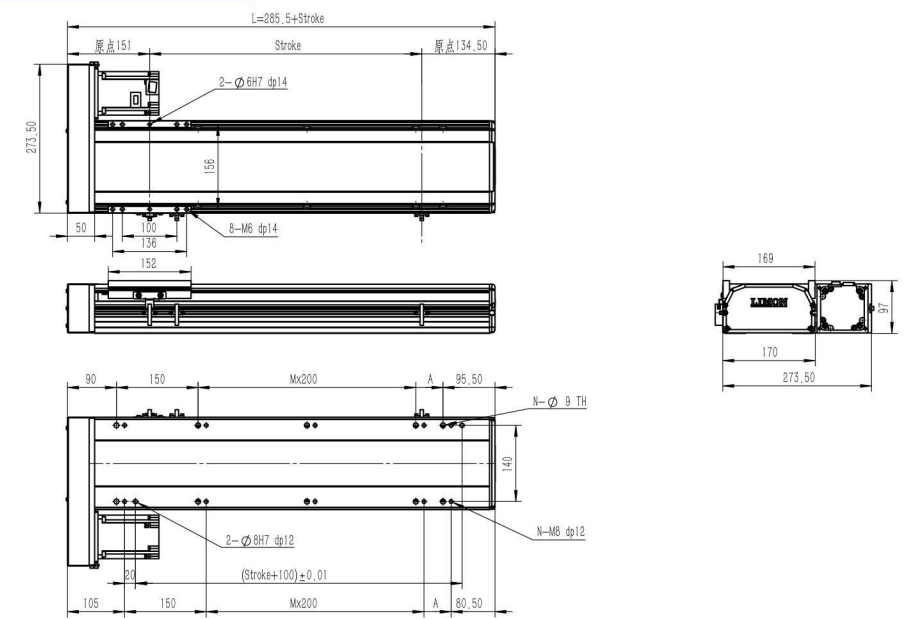


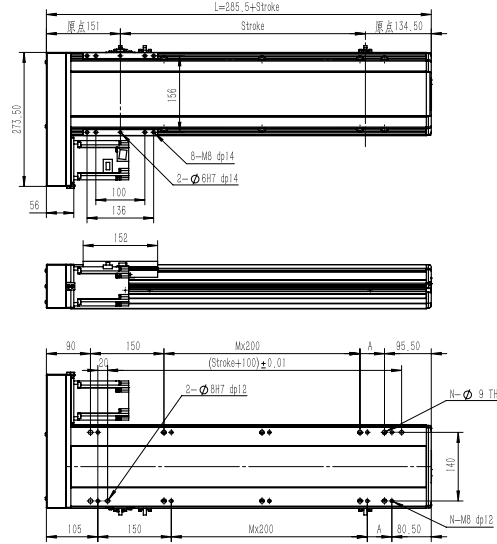
Table with 2 rows: 行程 Stroke (mm) and 重量 Weight (kg). Columns represent different stroke lengths from 100 to 1250 mm.

#注1:行程超过850mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO 170 亚标半密式螺杆驱动型

Sub-standard semi-tight screw drive type

YSO170-4P-MR 马达右折安装 Right Motor Mounting

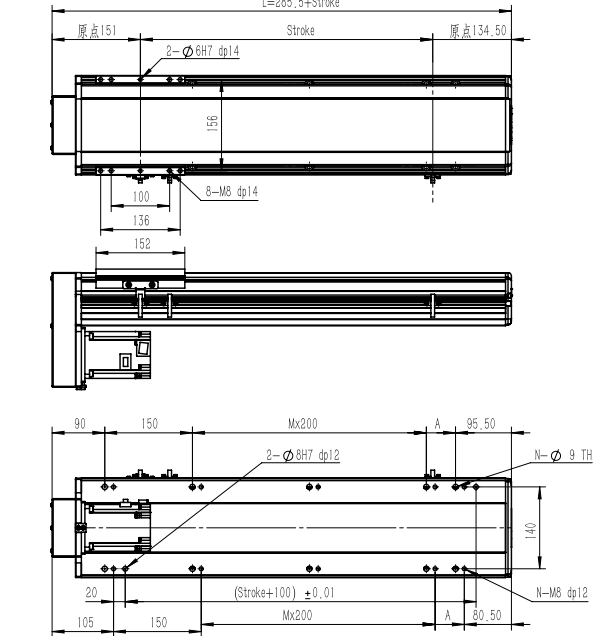


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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	385.5	435.5	485.5	535.5	585.5	635.5	685.5	735.5	785.5	835.5	885.5	935.5	985.5	1035.5	1085.5	1135.5	1185.5	1235.5	1285.5	1335.5	1385.5	1435.5	1485.5	1535.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
重量 Weight (kg)	11.8	12.6	13.4	14.2	14.9	15.7	16.5	17.3	18.0	18.8	19.6	20.4	21.1	21.9	22.7	23.5	24.2	25.0	25.8	26.6	27.4	28.2	29.0	29.8
最高速度 Max speed (mm/sec)	导程 Pitch 40																	1600	1500	1000	900	导程 Pitch 20		
																		800	650	500	450	导程 Pitch 10		
																		400	325	250	225	导程 Pitch 05		
																		200	162.5	125	112.5			

#注1:行程超过850mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO170-4P-MD 马达下折安装 Down Motor Mounting



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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	385.5	435.5	485.5	535.5	585.5	635.5	685.5	735.5	785.5	835.5	885.5	935.5	985.5	1035.5	1085.5	1135.5	1185.5	1235.5	1285.5	1335.5	1385.5	1435.5	1485.5	1535.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
重量 Weight (kg)	11.8	12.6	13.4	14.2	14.9	15.7	16.5	17.3	18.0	18.8	19.6	20.4	21.1	21.9	22.7	23.5	24.2	25.0	25.8	26.6	27.4	28.2	29.0	29.8
最高速度 Max speed (mm/sec)	导程 Pitch 40																	1600	1500	1000	900	导程 Pitch 20		
																		800	650	500	450	导程 Pitch 10		
																		400	325	250	225	导程 Pitch 05		
																		200	162.5	125	112.5			

#注1:行程超过850mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

亚标半密式螺杆驱动型 YSO 220

Sub-standard semi-tight screw drive type

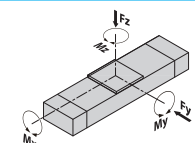
订购型号代码 Code

YSO220	L10	500	DB	4P	MS	M75	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead	行程 Stroke	辅助滑块 Auxiliary Block	直线导轨滑块数量 Block Quantity	马达方向 Motor Mounting Direction	马达厂牌、功率 Motor Brand、Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	05 10 25 32	100-1500, 间隔Gap50	未填写:单滑块 DB:辅助滑块	4P	MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting	M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 - Y 安川 Yaskawa 40 - D 台达 Delta 75 750W 1K -	P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark:NoSensor	未标记: 无 NoMark:NoSensor

注:辅助滑块选项相关参数参见样本P217.



最大动态力和力矩 Max Permissible Forces And Torques



Type	4P
F(y) (N)	11923.1
F(z) (N)	11923.1
M(x) (N·m)	1203.8
M(y) (N·m)	528.5
M(z) (N·m)	760.8

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:
$$\frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

马达安装方向 Motor Mounting Position Version

MS Type 马达直接安装 Straight Motor Mounting	ML Type 马达左折安装 Left Motor Mounting	MR Type 马达右折安装 Right Motor Mounting	MD Type 马达下折安装 Down Motor Mounting

基本规格 Basic Specification

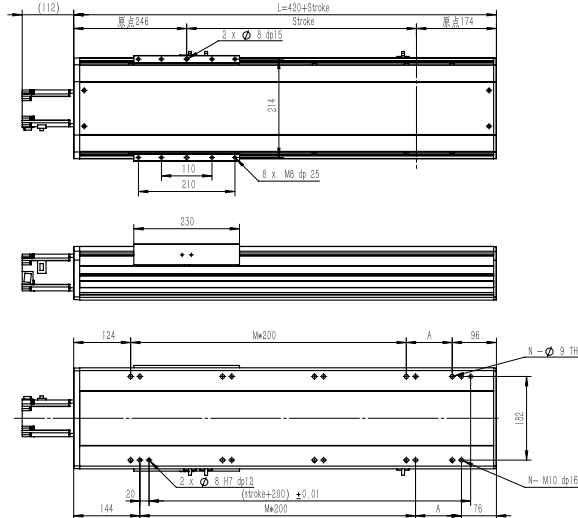
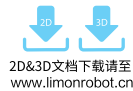
YSO220		4P(导轨滑块数量) Block Quantity				
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	± 0.005				
	螺杆导程 Ball Screw Lead (mm)	5	10	25	32	
	最高速度 Maximum Speed (mm/s)	250	500	1250	1600	
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	160	160	140	80
		垂直使用Vertical (kg)	80	70	45	30
	定格推力 Rated Thrust (N)	2563	1281	640	320	
	最大空载扭矩 Max. No-load Driving Torque (N · m)	0.1	0.12	0.16	0.2	
	最大扭矩 Max. Driving Torque (N · m)	10.9	12.5	14	16	
基本规格 Basic Specification	标准行程 Stroke (mm)	100~1500 mm/ 50 Pitch				
	AC伺服马达容量 AC Servo Motor Output (W)	750				
	滚珠螺杆外径 Ball Screw Diameter (mm)	Ø25 / Ø32				
	高刚性直線滑軌 Linear Guide (mm)	25# × 2 PCS				
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	230 × 97				
	原点感应器 Home Sensor	EE-SX672(NPN)				

#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。
#Note 2:Date changes relevently according to different torque and accelarated speed. Please refer to the LIMON calculate software.

YSO 220 亚标半密式螺杆驱动型

Sub-standard semi-tight screw drive type

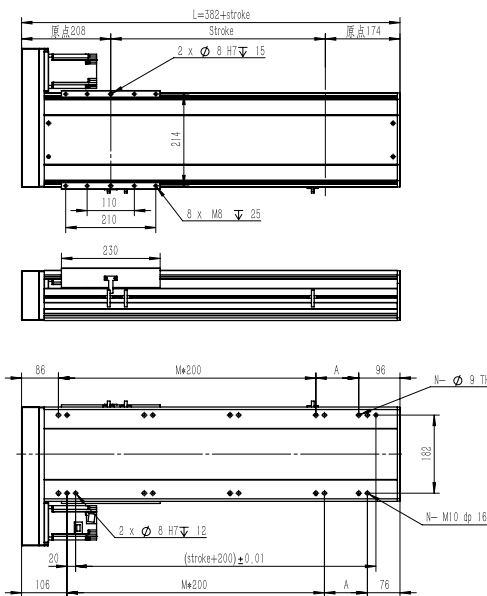
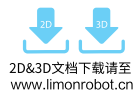
YSO220-MS 马达直接安装 Straight Motor Mounting



行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820	1870	1920
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
重量 Weight (kg)	25.4	26.9	28.3	29.8	31.2	32.7	34.2	36.6	37.1	38.5	40	41.5	42.9	44.4	45.8	47.3	48.8	50.2	51.7	53.1	54.6	56.1	57.5	59	60.4	61.9	63.4	64.8	66.3	67.7
最高速度 Max speed (mm/sec)	导程 Pitch 32	1600																		1440		1280	1180		960		800		640	
	导程 Pitch 25	1250																		1125		1000	875		750		625		500	
	导程 Pitch 10	500																		450		400	350		300		250		200	
	导程 Pitch 05	250																		225		200	175		150		125		100	

#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO220-ML 马达左折安装 Left Motor Mounting



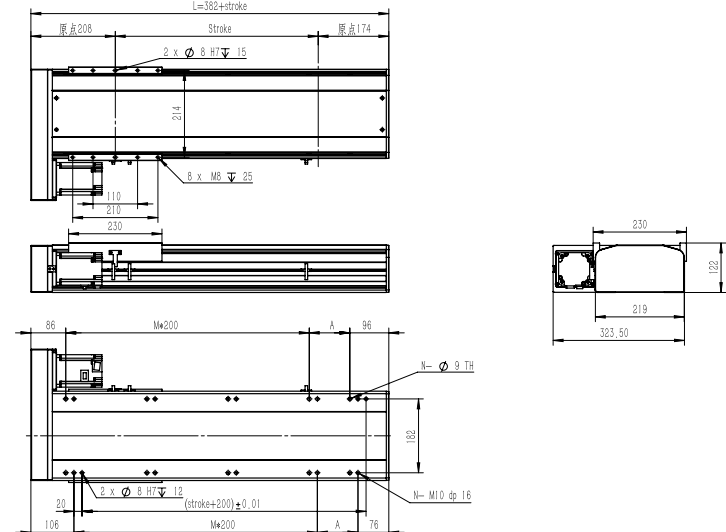
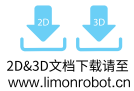
行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500			
L	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532	1582	1632	1682	1732	1782	1832	1882			
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100			
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8			
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20			
重量 Weight (kg)	24.2	25.7	27.1	28.6	30.0	31.5	33.0	34.4	35.9	37.3	38.8	40.3	41.7	43.2	44.6	46.1	47.6	49.0	50.5	51.9	53.4	54.9	56.3	57.8	59.2	60.7	62.2	63.6	65.1	66.5			
最高速度 Max speed (mm/sec)	导程 Pitch 32	1600																		1440		1280		1180		960		800		640		480	
	导程 Pitch 25	1250																		1125		1000		875		750		625		500			
	导程 Pitch 10	500																		450		400		350		300		250		200			
	导程 Pitch 05	250																		225		200		175		150		125		100			

#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

亚标半密式螺杆驱动型 YSO 220

Sub-standard semi-tight screw drive type

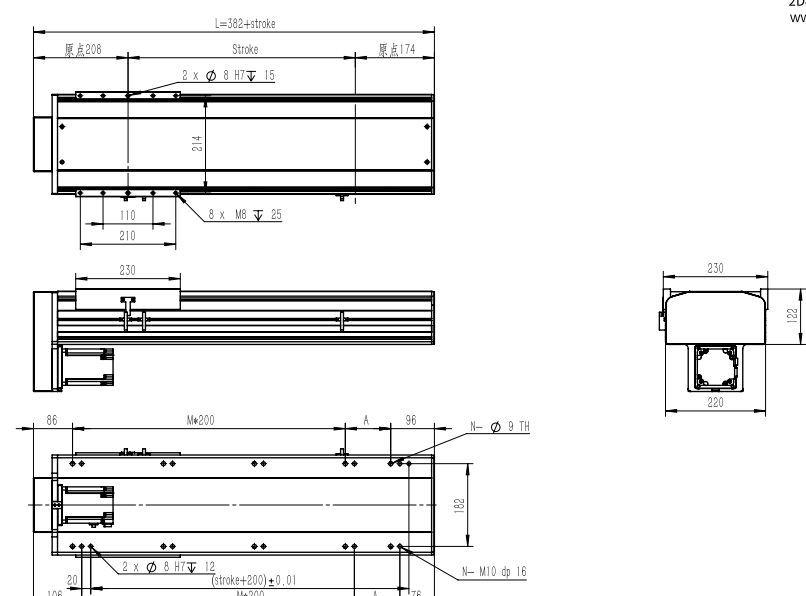
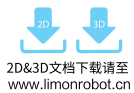
YSO220-MR 马达右折安装 Right Motor Mounting



行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
L	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532	1582	1632	1682	1732	1782	1832	1882	
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	
N	6	6	6	6	8	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
重量 Weight (kg)	24.2	25.7	27.1	28.6	30.0	31.5	33.0	34.4	35.9	37.3	38.8	40.3	41.7	43.2	44.6	46.1	47.6	49.0	50.5	51.9	53.4	54.9	56.3	57.8	59.2	60.7	62.2	63.6	65.1	66.5	
最高速度 Max speed (mm/sec)	导程 Pitch 32	1600																		1440		1280	1180	960	800	640	480				
	导程 Pitch 25	1250																		1125		1000	875	750	625	500					
	导程 Pitch 10	500																		450		400	350	300	250	200					
	导程 Pitch 05	250																		225		200	175	150	125	100					

#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO220-MD 马达下折安装 Down Motor Mounting

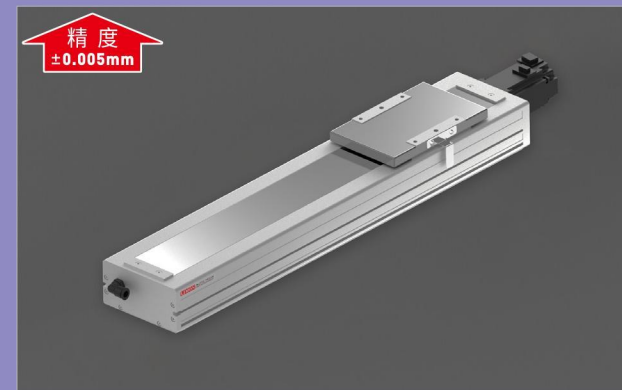


行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532	1582	1632	1682	1732	1782	1832	1882
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
重量 Weight (kg)	24.2	25.7	27.1	28.6	30.0	31.5	33.0	34.4	35.9	37.3	38.8	40.3	41.7	43.2	44.6	46.1	47.6	49.0	50.5	51.9	53.4	54.9	56.3	57.8	59.2	60.7	62.2	63.6	65.1	66.5
最高速度 Max speed (mm/sec)	导程 Pitch 32	1600																		1440	1280	1180	960	800	640	480				
	导程 Pitch 25	1250																		1125	1000	875	750	625	500					
	导程 Pitch 10	500																		450	400	350	300	250	200					
	导程 Pitch 05	250																		225	200	175	150	125	100					

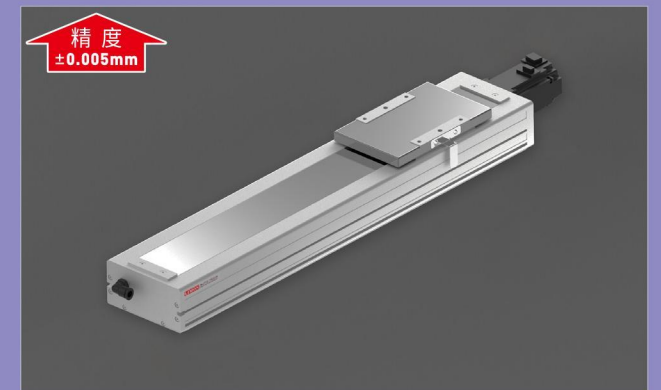
#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

亚标全密式螺杆驱动型

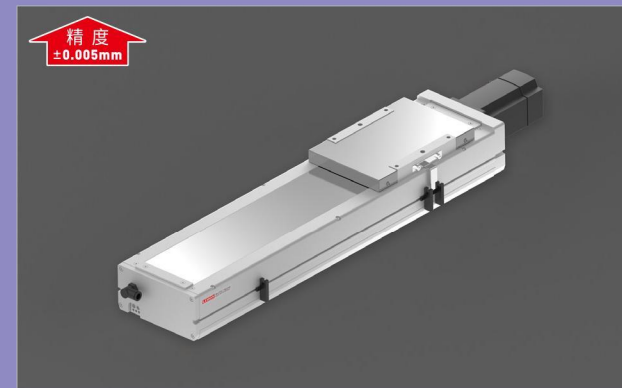
Sub-standard full-tight screw drive type



YSC 135



YSC 135G



YSC 170



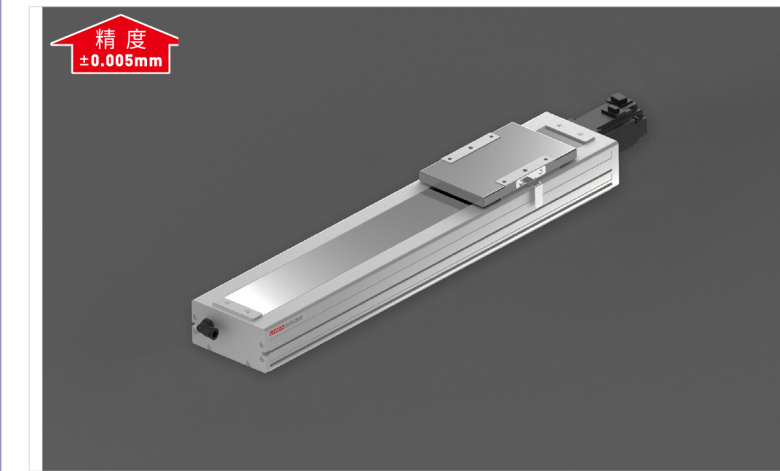
YSC 220

YSC 135 亚标全密式螺杆驱动型
Sub-standard full-tight screw drive type

订购型号代码 Code

Table with 9 columns: YSC135, L10, 500, DB, 4P, MS, M40, P3, A001. Sub-headers include Item NO., Ball Screw Lead, Stroke, Auxiliary Block, Block Quantity, Motor Brand, Power Output, Photoelectric Sensor, and Special Order No.

注:辅助滑块选项相关参数参见样本P217.

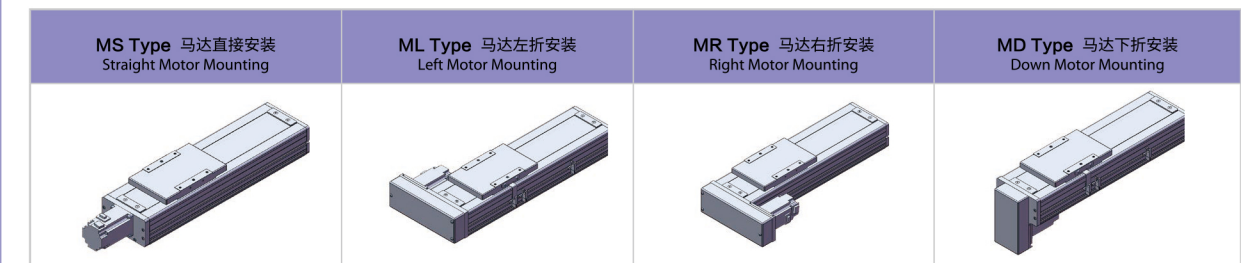


最大动力和力矩
Max Permissible Forces And Torques

Table showing Max Permissible Forces And Torques for Type 2P and 4P. Columns include Type, F(y), F(z), M(x), M(y), and M(z) with values in N and N·m.

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:
Fy max. + Fz max. + Mx max. + My max. + Mz max. ≤ 1

马达安装方向 Motor Mounting Position Version



基本规格 Basic Specification

Table with 2 main sections: YSC135 and 4P(导轨滑块数量) Block Quantity. It lists technical parameters like Repetitive Accuracy, Maximum Speed, and basic specifications like Stroke, Motor Output, and Ball Screw Diameter.

注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.
#注2:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。

亚标全密式螺杆驱动型 YSC 135
Sub-standard full-tight screw drive type

YSC135-4P-MS
马达直接安装 Straight Motor Mounting

2D&3D文档下载请至
www.limonrobot.cn

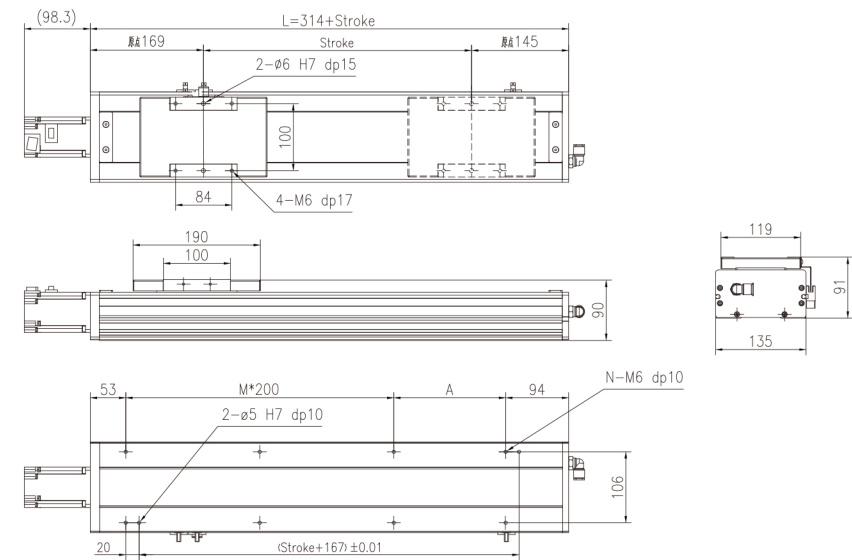


Table with 20 columns for Stroke (mm) from 100 to 1250. Rows include L, A, M, N, Weight, and Max speed for different pitch values.

#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.

YSC135-4P-ML
马达左折安装 Left Motor Mounting

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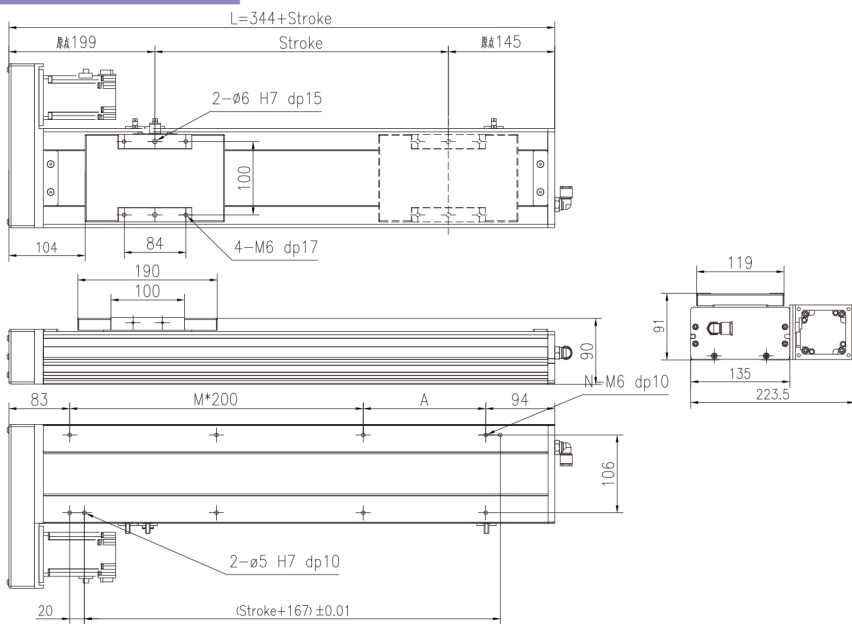


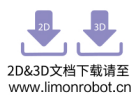
Table with 20 columns for Stroke (mm) from 100 to 1250. Rows include L, A, M, N, Weight, and Max speed for different pitch values.

#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.

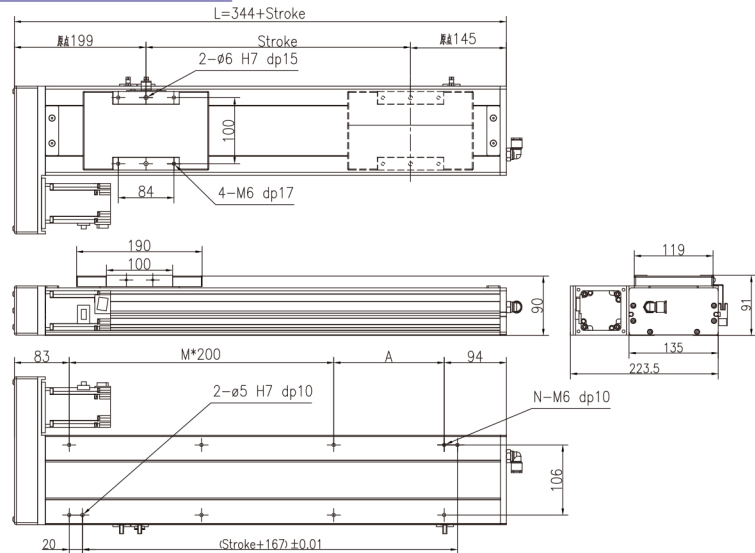
YSC 135 亚标全密式螺杆驱动型

Sub-standard full-tight screw drive type

YSC135-4P-MR 马达右折安装 Right Motor Mounting



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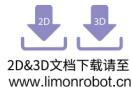


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544	1594
A	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18
重量 Weight (kg)	8.6	9.1	9.6	10.0	10.5	11.0	11.5	11.9	12.4	12.9	13.4	13.8	14.3	14.8	15.3	15.7	16.2	16.7	17.2	17.6	18.1	18.6	19.1	19.5
最高速度 Max speed (mm/sec)																			800	650	500	450		
导程 Pitch 20																			800	650	500	450		
导程 Pitch 16																			640	520	400	360		
导程 Pitch 10																			400	325	250	225		
导程 Pitch 05																			200	162.5	125	112.5		

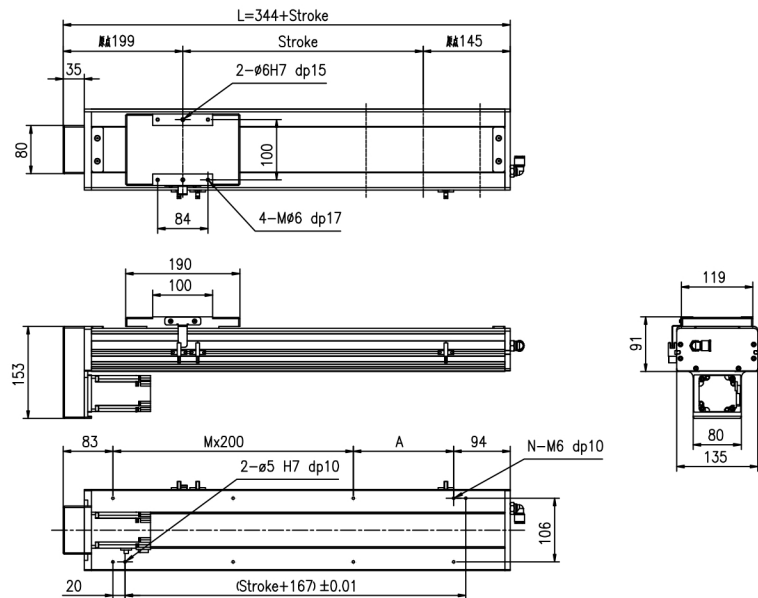
#注1:行程超过900mm时,可能会产生严重的共振现象,此时应参考图纸下侧表格所对应的速度。

#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSC135-4P-MD 马达下折安装 Down Motor Mounting



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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544	1594
A	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17
M	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	5	5	5	5	6	6	6	6	7
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18
重量 Weight (kg)	8.6	9.1	9.6	10.0	10.5	11.0	11.5	11.9	12.4	12.9	13.4	13.8	14.3	14.8	15.3	15.7	16.2	16.7	17.2	17.6	18.1	18.6	19.1	19.5
最高速度 Max speed (mm/sec)																			800	650	500	450		
导程 Pitch 20																			800	650	500	450		
导程 Pitch 16																			640	520	400	360		
导程 Pitch 10																			400	325	250	225		
导程 Pitch 05																			200	162.5	125	112.5		

#注1:行程超过900mm时,可能会产生严重的共振现象,此时应参考图纸下侧表格所对应的速度。

#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

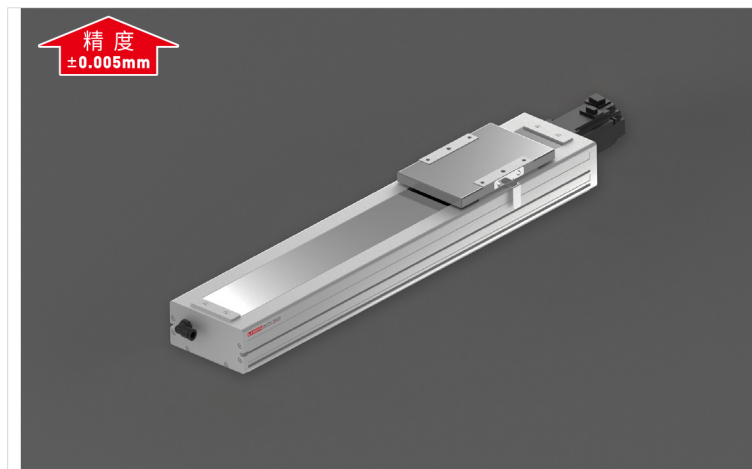
亚标全密式螺杆驱动型 YSC 135G

Sub-standard full-tight screw drive type

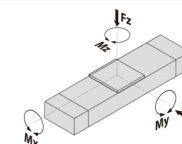
订购型号代码 Code

YSC135G	L10	500	4P	MS	DB	M40	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead	行程 Stroke 100-1250, 间隔Gap50	直线导轨滑块数量 Block Quantity 4P	马达方向 MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting	辅助滑块 Auxiliary Block 未填写:单滑块 3B:辅助滑块	马达厂牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 10 P 松下 Panasonic 20 Y 安川 Yaskawa 40 D 台达 Delta 75	限位传感器数量 Photoelectric Sensor P1: 1个 1PCS P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 No Mark/NoSensor	特注式样 Special Order No. 未标记: 无 NoMark/NoSensor

注:辅助滑块选项相关参数参见样本P217.



最大动态力和力矩 Max Permissible Forces And Torques



Type	2P	4P
■F(y) (N)	2684	5370
■F(z) (N)	2684	5370
■M(x) (N·m)	95	142
■M(y) (N·m)	32	104
■M(z) (N·m)	172	346

除了满足最大负载和力矩外,还必须满足以下公式:

All forces and torques relate to the following:
$$\frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

马达安装方向 Motor Mounting Position Version

MS Type 马达直接安装 Straight Motor Mounting	ML Type 马达左折安装 Left Motor Mounting	MR Type 马达右折安装 Right Motor Mounting	MD Type 马达下折安装 Down Motor Mounting

基本规格 Basic Specification

YSC135G		4P(导轨滑块数量) Block Quantity			
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	±0.005			
	螺杆导程 Ball Screw Lead (mm)	5	10	16	20
	最高速度 Maximum Speed (mm/s)	250	500	800	1000
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	100	80	60
		垂直使用Vertical (kg)	50	30	22
	定格推力 Rated Thrust (N)	1388	694	433	347
	最大空载扭矩 Max. No-load Driving Torque (N·m)	0.12	0.15	0.2	0.22
基本规格 Basic Specification	最大扭矩 Max. Driving Torque (N·m)	10.9	12.5	14	16.7
	标准行程 Stroke (mm)	100-1250 mm/ 50 Pitch			
	AC伺服马达容量 AC Servo Motor Output (W)	200/400			
	滚珠螺杆外径 Ball Screw Diameter (mm)	Ø16 / Ø20			
	高刚性直线滑轨 Linear Guide (mm)	15# × 2 PCS			
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	135 × 91			
	原点感应器 Home Sensor	EE-SX672(NPN)			

#注1:行程超过900mm时,可能会产生严重的共振现象,此时应参考图纸下侧表格所对应的速度。

#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

#注2:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。

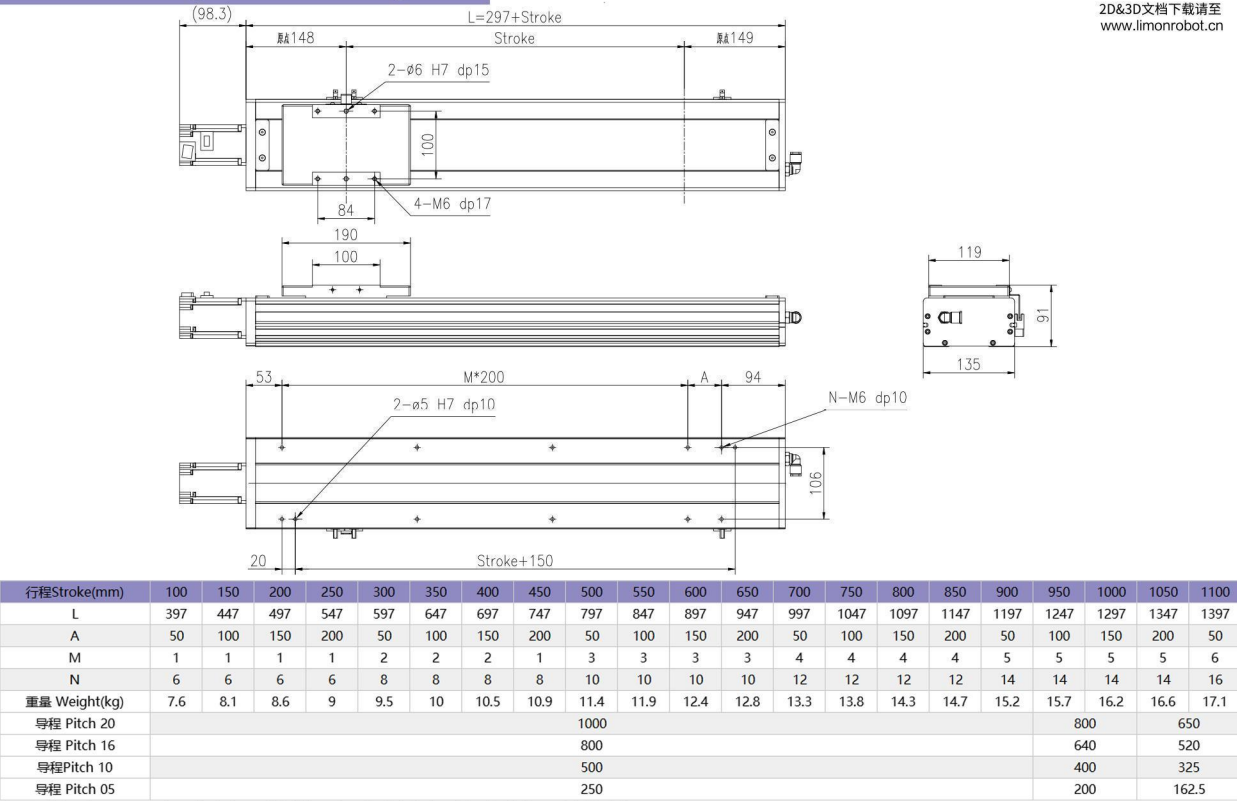
#Note 2:Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.

YSC 135G 亚标全密式螺杆驱动型

Sub-standard full-tight screw drive type

YSC135G-4P-MS 马达直接安装 Straight Motor Mounting

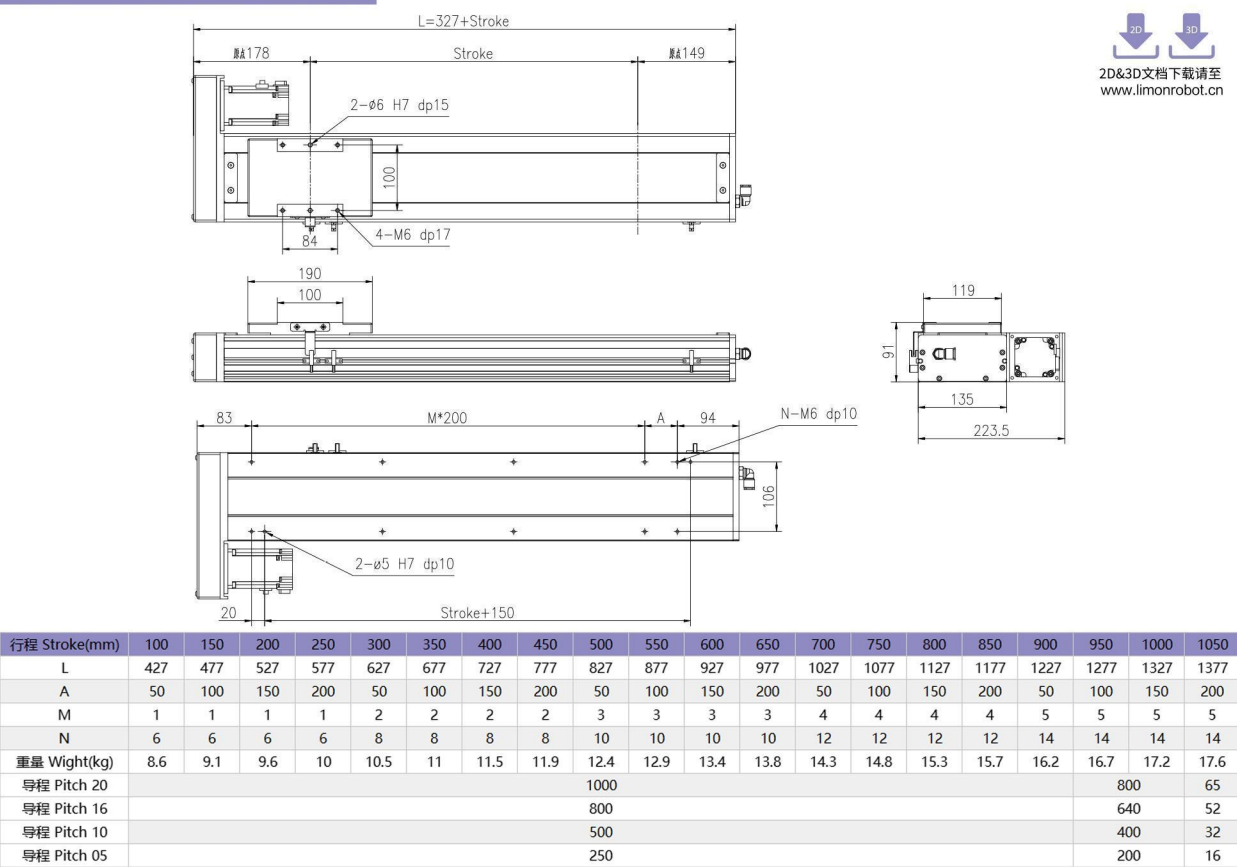
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#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSC135G-4P-ML 马达左折安装 Left Motor Mounting

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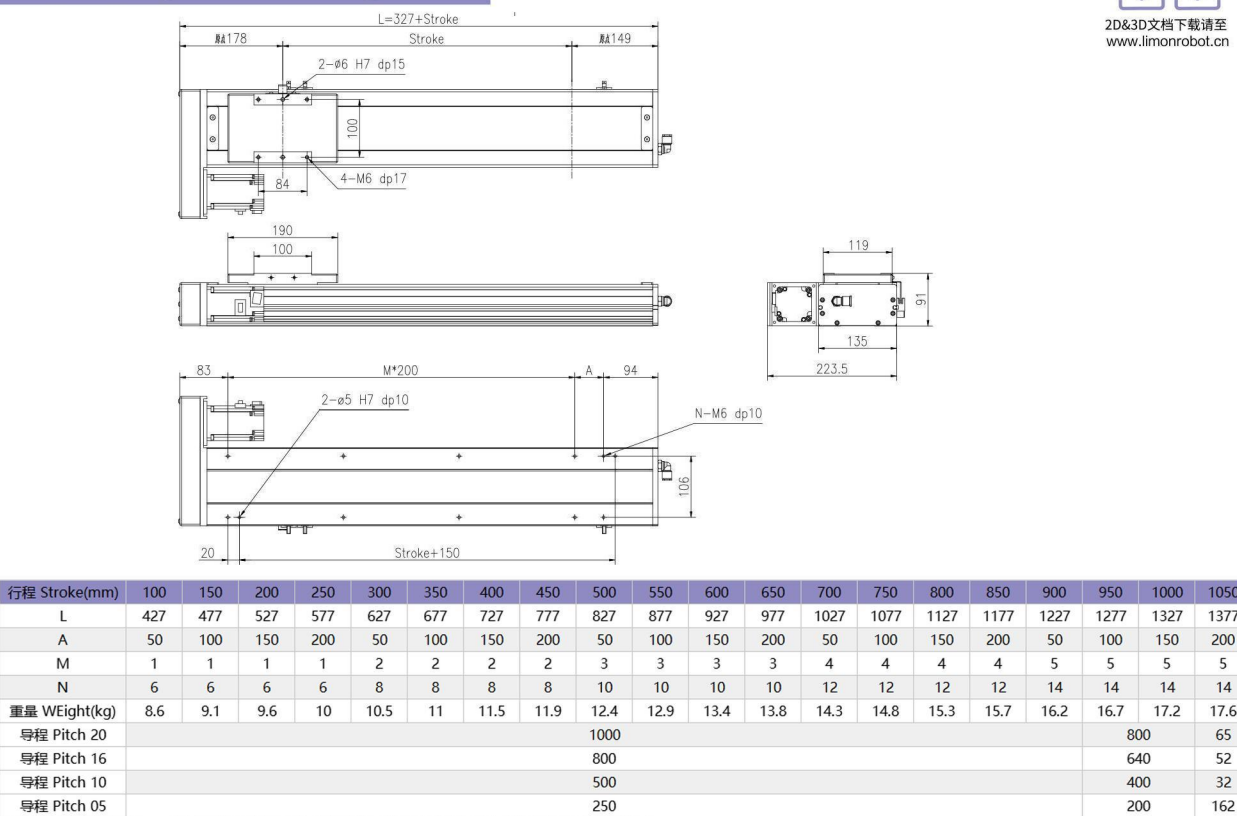
#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

亚标全密式螺杆驱动型 YSC 135G

Sub-standard full-tight screw drive type

YSC135G-4P-MR 马达右折安装 Right Motor Mounting

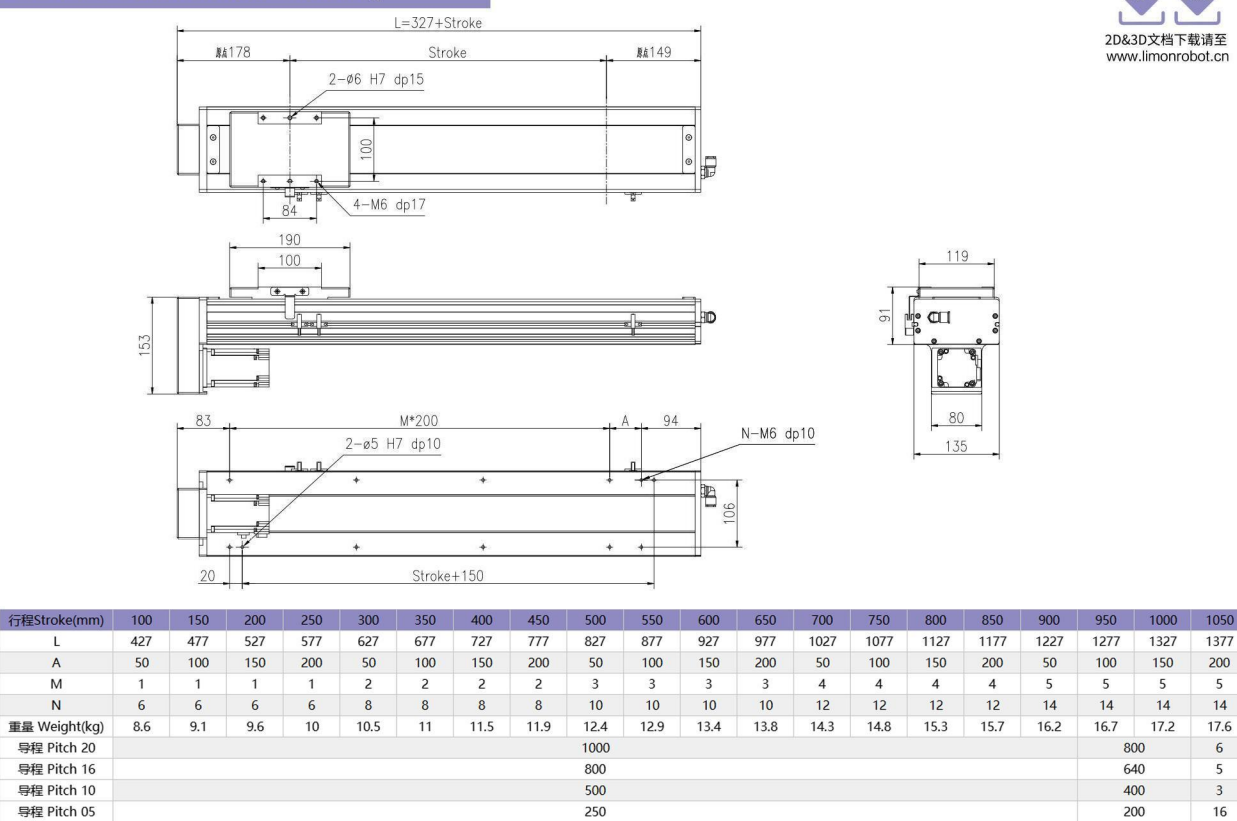
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#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSC135G-4P-MD 马达下折安装 Down Motor Mounting

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#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

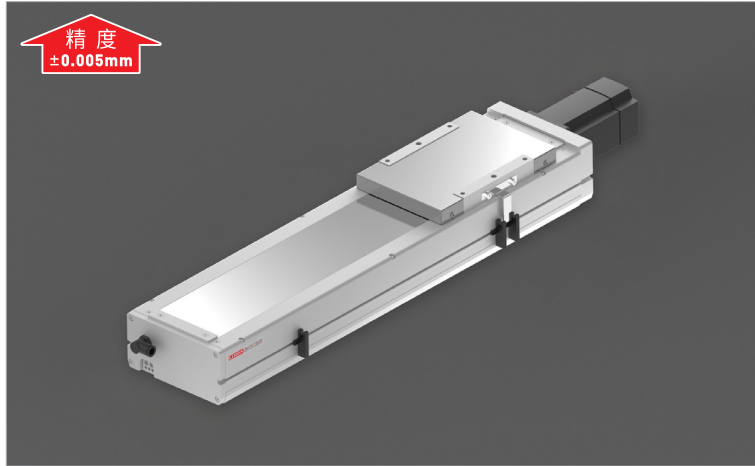
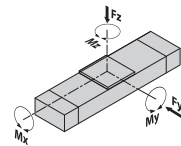
YSC 170

亚标全密式螺杆驱动型
Sub-standard full-tight screw drive type

订购型号代码 Code

YSC170	L10	500	DB	4P	MS	M40	P3	A001
本体型号 Item NO.	螺桿导程 Ball Screw Lead	行程 Stroke	辅助滑块 Auxiliary Block	直线导轨滑块数量 Block Quantity	马达方向 Motor Mounting Direction	马达品牌、功率 Motor Brand、Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	05	100-1250, 间隔Gap50	未填写:单滑块 DB...:辅助滑块	4P	MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting	M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台达 Delta 75 750W 1K -	P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark:NoSensor	未标记: 无 NoMark:NoSensor

注:辅助滑块选项相关参数参见样本P217.

最大动力和力矩
Max Permissible Forces And Torques

Type	4P
■F(y) (N)	7463
■F(z) (N)	7463
■M(x) (N·m)	339
■M(y) (N·m)	178
■M(z) (N·m)	742

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

马达安装方向 Motor Mounting Position Version

MS Type 马达直接安装 Straight Motor Mounting	ML Type 马达左折安装 Left Motor Mounting	MR Type 马达右折安装 Right Motor Mounting	MD Type 马达下折安装 Down Motor Mounting

基本规格 Basic Specification

YSC170		4P(导轨滑块数量) Block Quantity			
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	±0.005			
	螺桿导程 Ball Screw Lead (mm)	5	10	20	40
	最高速度 Maximum Speed (mm/s)	*注1*Note1			
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	120	100	85
		垂直使用Vertical (kg)	60	50	35
	定格推力 Rated Thrust (N)	2563	1281	640	320
	最大空载扭矩 Max. No-load Driving Torque (N·m)	0.1	0.12	0.16	0.2
基本规格 Basic Specification	最大扭矩 Max. Driving Torque (N·m)	10.9	12.5	14	16
	标准行程 Stroke (mm)	100-1250 mm/ 50 Pitch			
	AC伺服马达容量 AC Servo Motor Output (W)	400 / 750			
	滚珠螺桿外径 Ball Screw Diameter (mm)	ø20 / ø25			
	高刚性直线滑轨 Linear Guide (mm)	20#×2 PCS			
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	170×107			
	原点感应器 Home Sensor	EE-SX672(NPN)			

#注1:行程超过850mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。

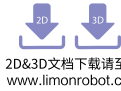
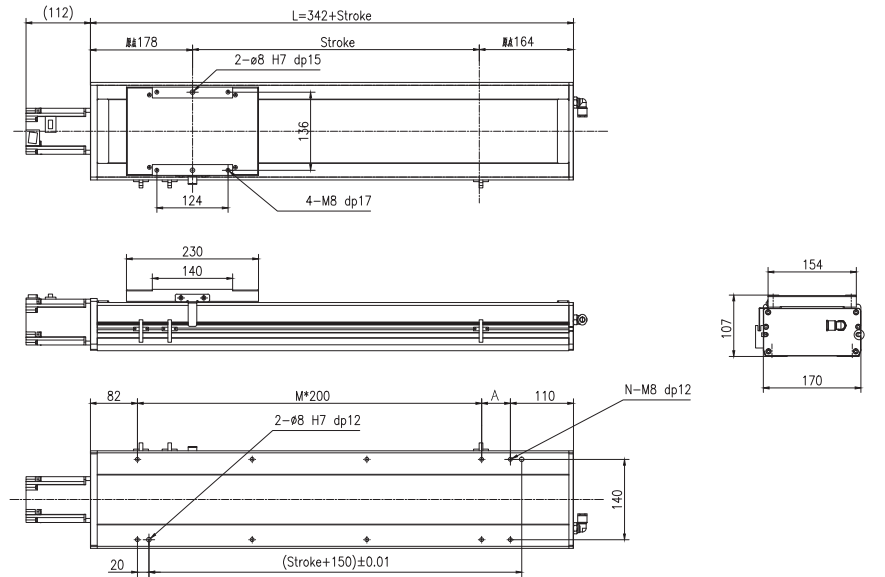
#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

#注2:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。

#Note 2:Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.

亚标全密式螺杆驱动型
Sub-standard full-tight screw drive type

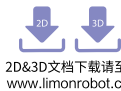
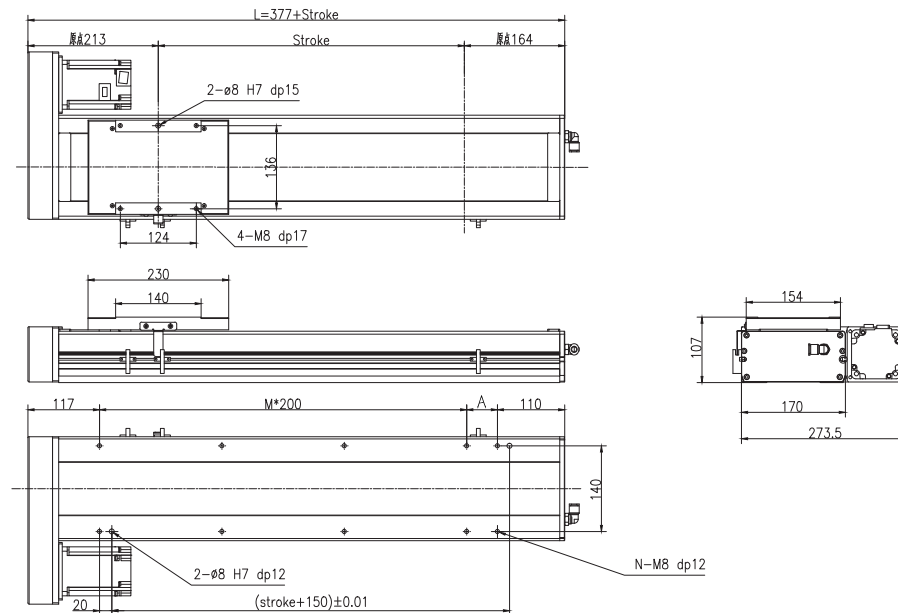
YSC 170

YSC170-4P-MS
马达直接安装 Straight Motor Mounting2D&3D文档下载请至
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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	442	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292	1342	1392	1442	1492	1542	1592
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
重量 Weight (kg)	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21.0	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28.0	28.8	29.6	30.4	31.2	32.0	32.8
最高速度 Max speed (mm/sec)																		1600	1300	1000	900			
																		1000	650	500	450			
																		500	325	250	225			
																		250	162.5	125	112.5			

#注1:行程超过850mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。

#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSC170-4P-ML
马达左折安装 Left Motor Mounting2D&3D文档下载请至
www.limonrobot.cn

行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
重量 Weight (kg)	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21.0	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28.0	28.8	29.6	30.4	31.2	32.0	32.8
最高速度 Max speed (mm/sec)																		1600	1300	1000	900			
																		1000	650	500	450			
																		500	325	250	225			
																		250	162.5	125	112.5			

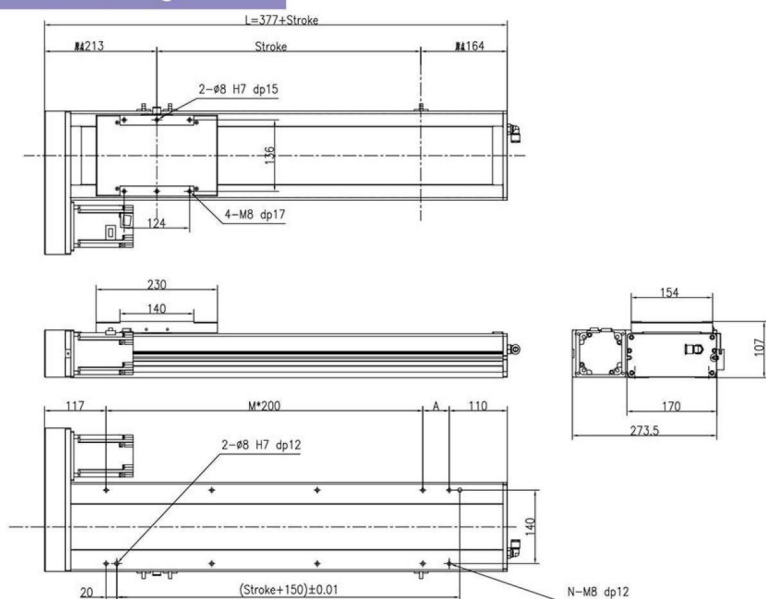
#注1:行程超过850mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。

#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSC 170 亚标全密式螺杆驱动型

Sub-standard full-tight screw drive type

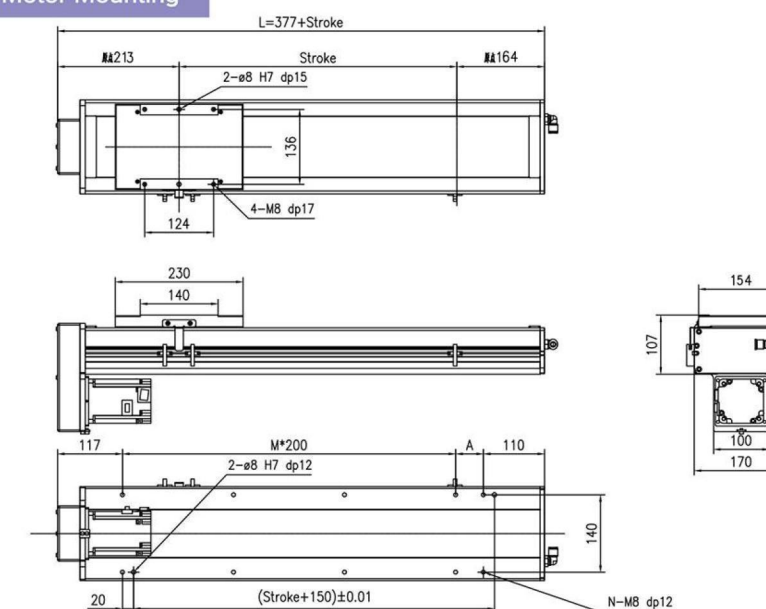
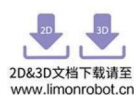
YSC170-4P-MR 马达右折安装 Right Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
重量 Weight (kg)	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21.0	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28.0	28.8	29.6	30.4	31.2	32.0	32.8
导程 Pitch 40	2000																	1600	1300	1000	900			
导程 Pitch 20	1000																	800	650	500	450			
导程 Pitch 10	500																	400	325	250	225			
导程 Pitch 05	250																	200	162.5	125	112.5			

#注1:行程超过850mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSC170-4P-MD 马达下折安装 Down Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
重量 Weight (kg)	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21.0	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28.0	28.8	29.6	30.4	31.2	32.0	32.8
导程 Pitch 40	2000																	1600	1300	1000	900			
导程 Pitch 20	1000																	800	650	500	450			
导程 Pitch 10	500																	400	325	250	225			
导程 Pitch 05	250																	200	162.5	125	112.5			

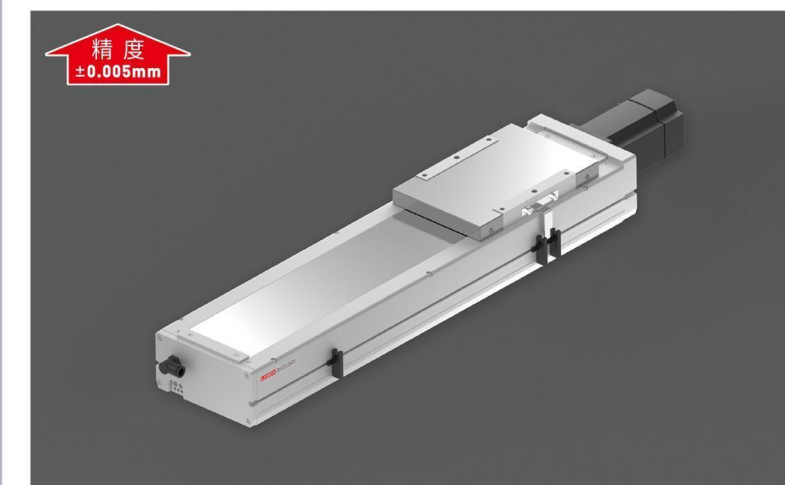
#注1:行程超过850mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

亚标全密式螺杆驱动型 YSC220

Sub-standard full-tight screw drive type

订购型号代码 Code

YSC220	L10	500	DB	4P	MS	M75	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead	行程 Stroke	辅助滑块 Auxiliary Block	直线导轨滑块数量 Block Quantity	马达方向 Motor Mounting Direction	马达厂牌、功率 Motor Brand, Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	05 10 25 32	100-1500 间隔Gap50	未填写:单滑块 DB:辅助滑块	4P	MS: 马达直接安装 Straight Motor Mounting ML: 马达左折安装 Left Motor Mounting MR: 马达右折安装 Right Motor Mounting MD: 马达下折安装 Down Motor Mounting	M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台达 Delta 75 750W 1K -	P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark: NoSensor	未标记: 无 NoMark: NoSensor



最大动态力和力矩 Max Permissible Forces And Torques

Type	4P
■ F(y) (N)	11923.1
■ F(z) (N)	11923.1
■ M(x) (N·m)	1203.8
■ M(y) (N·m)	528.5
■ M(z) (N·m)	760.8

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

马达安装方向 Motor Mounting Position Version

MS Type 马达直接安装 Straight Motor Mounting	ML Type 马达左折安装 Left Motor Mounting	MR Type 马达右折安装 Right Motor Mounting	MD Type 马达下折安装 Down Motor Mounting

基本规格 Basic Specification

YSC220		4P(导轨滑块数量) Block Quantity			
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	±0.005			
	螺桿导程 Ball Screw Lead (mm)	5	10	25	32
	最高速度 Maximum Speed (mm/s)	*注1*Note1			
	最大可搬重量 Maximum Payload	*注2*Note2 水平使用Horizontal (kg)		160	80
		垂直使用Vertical (kg)		70	30
	定格推力 Rated Thrust (N)	2563	1281	640	320
	最大空载扭矩 Max. No-load Driving Torque (N·m)	0.1	0.12	0.16	0.2
基本规格 Basic Specification	最大扭矩 Max. Driving Torque (N·m)	10.9	12.5	14	16
	标准行程 Stroke (mm)	100-1500 mm/ 50 Pitch			
	AC伺服马达容量 AC Servo Motor Output (W)	750			
	滚珠螺桿外径 Ball Screw Diameter (mm)	Ø25 / Ø32			
	高刚性直線滑軌 Linear Guide (mm)	25# × 2 PCS			
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	220 × 138			
原点感应器 Home Sensor		EE-SX672(NPN)			

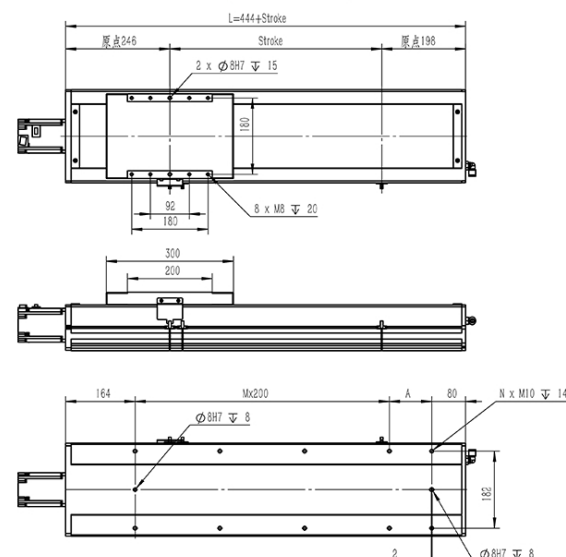
#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。
#Note 2: Date changes relevently according to different torque and accelrated speed. Please refer to the LIMON calculate software.

YSC 220 亚标全密式螺杆驱动型

Sub-standard full-tight screw drive type

YSC220-MS 马达直接安装 Straight Motor Mounting

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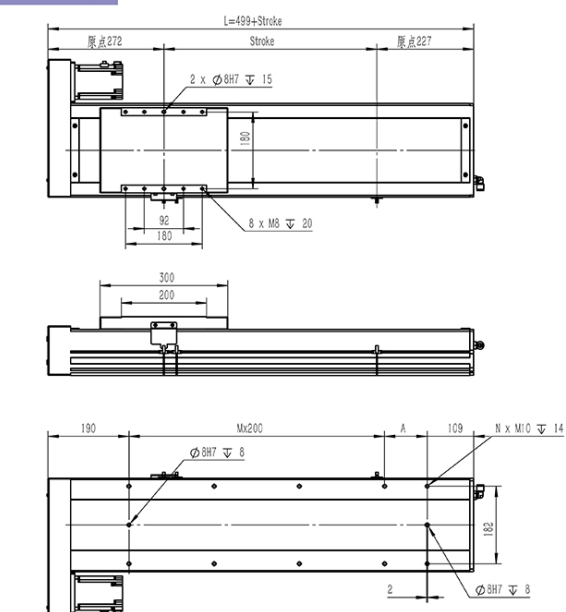


行程Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544	1594	1644	1694	1744	1794	1844	1894	1944
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	16	16	16	16	18	18	18	18	20	20	20
重量 Weight(kg)	27.5	29.0	30.4	31.9	33.3	34.8	36.3	37.7	39.2	40.6	42.1	43.6	45.0	46.5	47.9	49.4	50.9	52.3	53.8	55.2	56.7	58.2	59.6	61.1	62.5	64.0	65.5	66.9	68.4	69.8
最高速度 导程 Pitch 32	1600																			1440										
Max speed 导程 Pitch 25	1250																			1000										
导程 Pitch 10	500																			450										
(mm/sec) 导程 Pitch 08	250																			225										

#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSC220-ML 马达左折安装 Left Motor Mounting

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行程Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	549	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	16	16	16	16	18	18	18	18	20	20	20
重量 Weight(kg)	28.6	30.1	31.5	33.0	34.4	35.9	37.4	38.8	40.3	41.7	43.2	44.7	46.1	47.6	49.0	50.5	52.0	53.4	54.9	56.3	57.8	59.3	60.7	62.2	63.6	65.1	66.6	68.0	69.5	70.9
最高速度 导程 Pitch 32	1600																			1440										
Max speed 导程 Pitch 25	1250																			1000										
导程 Pitch 10	500																			450										
(mm/sec) 导程 Pitch 08	250																			225										

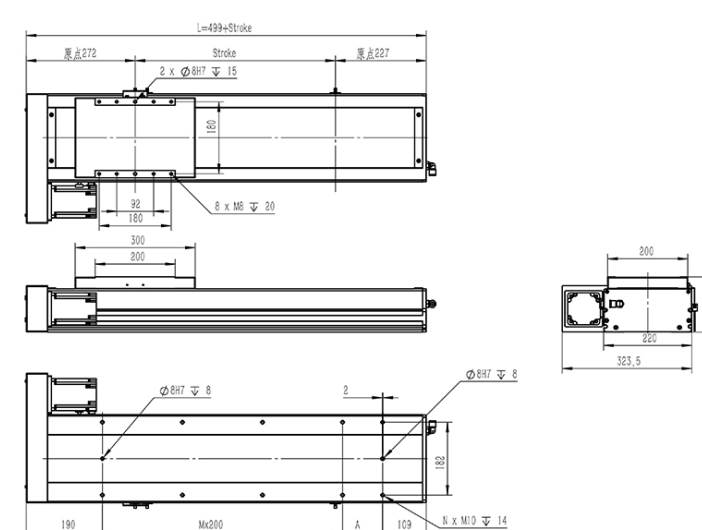
#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

亚标全密式螺杆驱动型 YSC 220

Sub-standard full-tight screw drive type

YSC220-MR 马达右折安装 Right Motor Mounting

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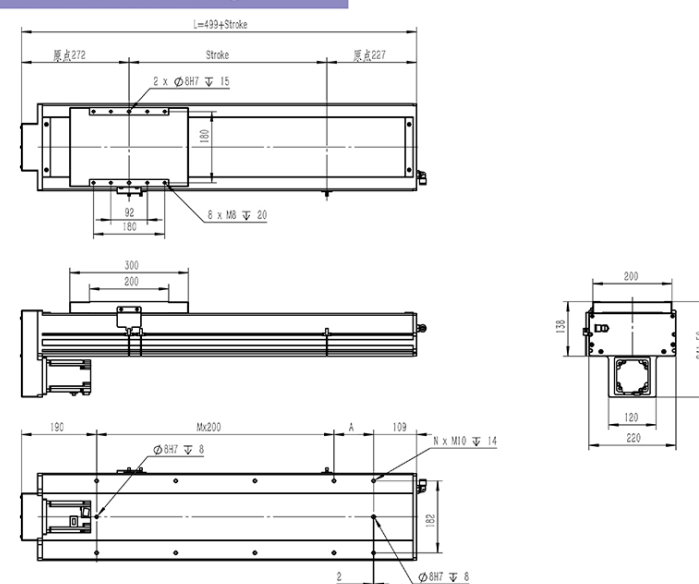


行程Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	549	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	16	16	16	16	18	18	18	18	20	20	20
重量 Weight(kg)	28.6	30.1	31.5	33.0	34.4	35.9	37.4	38.8	40.3	41.7	43.2	44.7	46.1	47.6	49.0	50.5	52.0	53.4	54.9	56.3	57.8	59.3	60.7	62.2	63.6	65.1	66.6	68.0	69.5	70.9
最高速度 导程 Pitch 32	1600																			1440										
Max speed 导程 Pitch 25	1250																			1000										
导程 Pitch 10	500																			450										
(mm/sec) 导程 Pitch 08	250																			225										

#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSC220-MD 马达下折安装 Down Motor Mounting

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行程Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	549	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	16	16	16	16	18	18	18	18	20	20	20
重量 Weight(kg)	28.6	30.1	31.5	33.0	34.4	35.9	37.4	38.8	40.3	41.7	43.2	44.7	46.1	47.6	49.0	50.5	52.0	53.4	54.9	56.3	57.8	59.3	60.7	62.2	63.6	65.1	66.6	68.0	69.5	70.9
最高速度 导程 Pitch 32	1600																			1440										
Max speed 导程 Pitch 25	1250																			1000										
导程 Pitch 10	500																			450										
(mm/sec) 导程 Pitch 08	250																			225										

#注1:行程超过900mm时,可能会产严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

亚标半密式同步带驱动型

Sub-standard semi-dense synchronous belt drive type



YTO 135



YTO 170



YTO 220

YTO135 亚标半密式同步带驱动型

Sub-standard semi-dense synchronous belt drive type

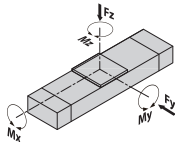
订购型号代码 Code

YTO135	-	500	-	DB	-	4P	-	D01	-	M40	-	P3	-	A001
本体型号 Item NO.		行程 Stroke 100-4000, 间隔Gap100		辅助滑块 Auxiliary Block 未填写:单滑块 DB :辅助滑块		直线导轨滑块数量 Block Quantity 4P		马达方向 Motor Mounting Direction D01 D02 D03 D04 D05 D06 D07 D08 D09		马达厂牌、功率 Motor Brand、Power Output M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台达 Delta 75 - 1K -		限位传感器数量 Photoelectric Sensor P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 No Mark/No Sensor		特注式样 Special Order 未标记: 无 NoMark/NoSensor

注:辅助滑块选项相关参数参见样本P217.



最大动力和力矩 Max Permissible Forces And Torques



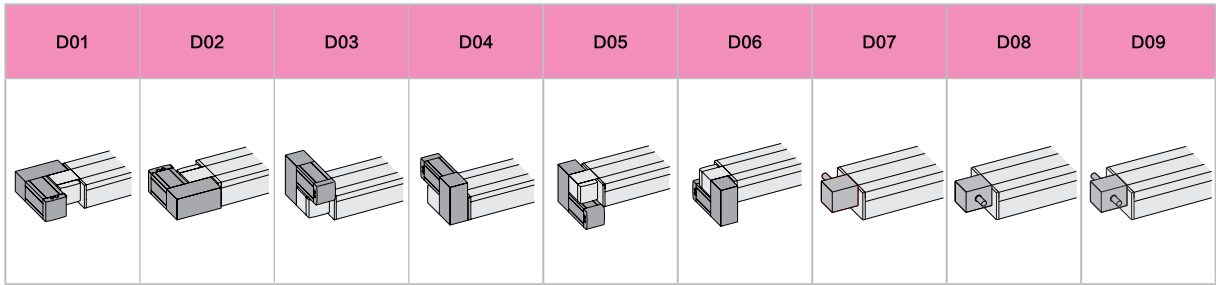
Type		4P
■F(y)	(N)	5370
■F(z)	(N)	5370
■M(x)	(N · m)	142
■M(y)	(N · m)	104
■M(z)	(N · m)	346

·除了满足最大负载和力矩外,还必须满足以下公式:

All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

马达安装方向 Motor Mounting Position Version



基本规格 Basic Specification

YTO135		4P(导轨滑块数量) Block Quantity
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	± 0.05
	皮带轮导程 Pulley Lead (mm)	110 / 50 #注2#Note2
	皮带型号 Belt type	5M-25
	最高速度 Maximum Speed (mm/s)	3000
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg) 40 垂直使用Vertical (kg) 12
	最大空载扭矩 Max. No-load Driving Torque (N · m)	0.3
基本规格 Basic Specification	最大扭矩 Max. Driving Torque (N · m)	6
	标准行程 Stroke (mm)	100-4000 mm/ 100 Pitch
	AC伺服马达容量 AC Servo Motor Output (W)	400
	高刚性直线导轨 Linear Guide (mm)	15# × 2 PCS
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	135 × 93
	原点感应器 Home Sensor	EE-SX672(NPN)

#注1:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。

#Note1:Date changes revently according to different torque and accelrated speed.Please refer to the LIMON calculate software.

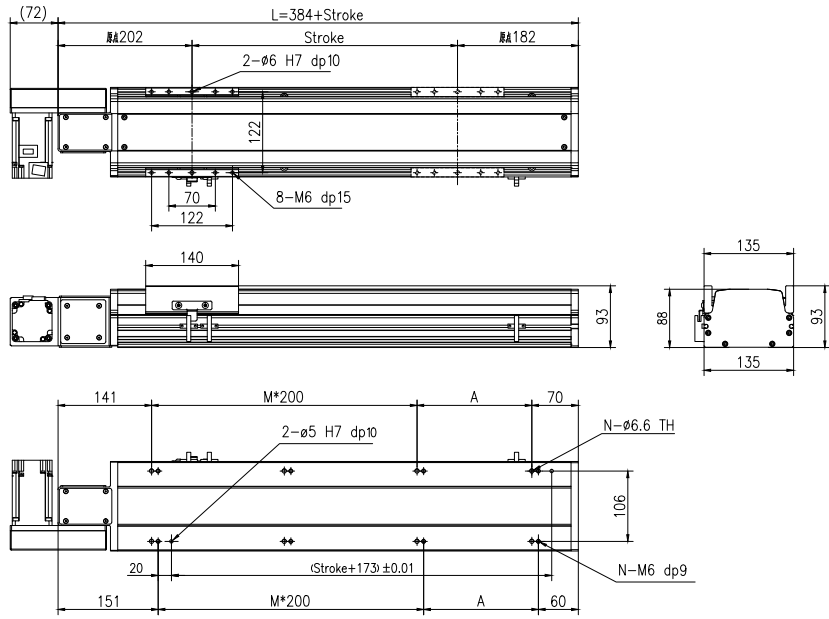
#注2:皮带轮原始导程为110mm,标准品默认附减速机构,减速后导程为50mm。

Note 2:Pulley's original lead is 110mm,which standard type is equipped with reduction facility normally, and its lead is 50mm after deceleration.

亚标半密式同步带驱动型 YTO135

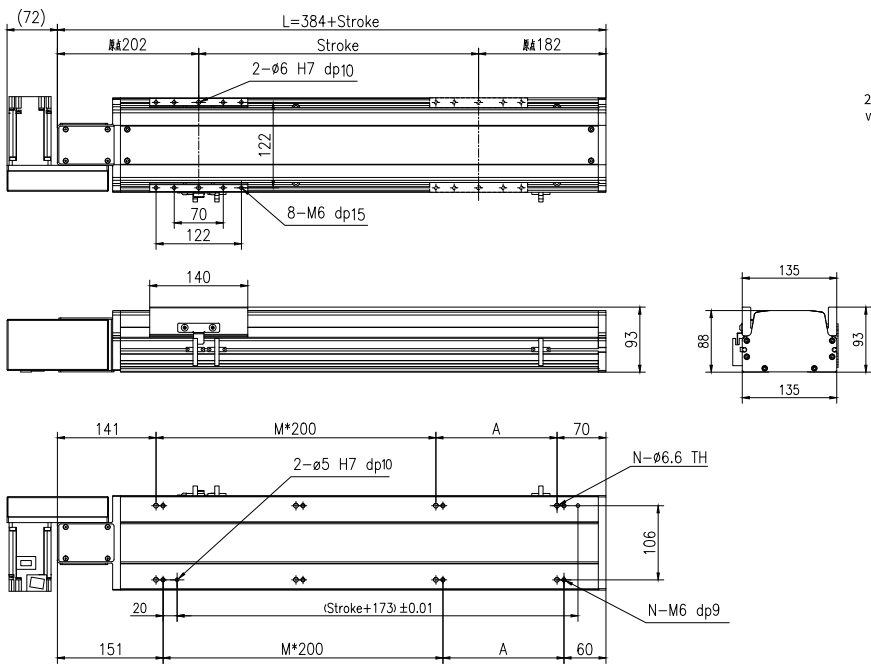
Sub-standard semi-dense synchronous belt drive type

YTO135-4P-D01

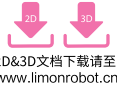


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	9	9.6	10.3	10.9	11.6	12.2	12.9	13.5	14.2	14.8	15.5	16.1	16.8	17.4	18.1	18.7	19.4	20	20.7	21.3
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2484	2584	2684	2784	2884	2984	3084	3184	3284	3384	3484	3584	3684	3784	3884	3984	4084	4184	4284	4384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	22	22.6	23.3	23.9	24.6	25.2	25.9	26.5	27.2	27.8	28.5	29.1	29.8	30.4	31.1	31.7	32.4	33	33.7	34.3

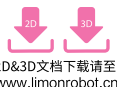
YTO135-4P-D02



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	9	9.6	10.3	10.9	11.6	12.2	12.9	13.5	14.2	14.8	15.5	16.1	16.8	17.4	18.1	18.7	19.4	20	20.7	21.3
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2484	2584	2684	2784	2884	2984	3084	3184	3284	3384	3484	3584	3684	3784	3884	3984	4084	4184	4284	4384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	22	22.6	23.3	23.9	24.6	25.2	25.9	26.5	27.2	27.8	28.5	29.1	29.8	30.4	31.1	31.7	32.4	33	33.7	34.3



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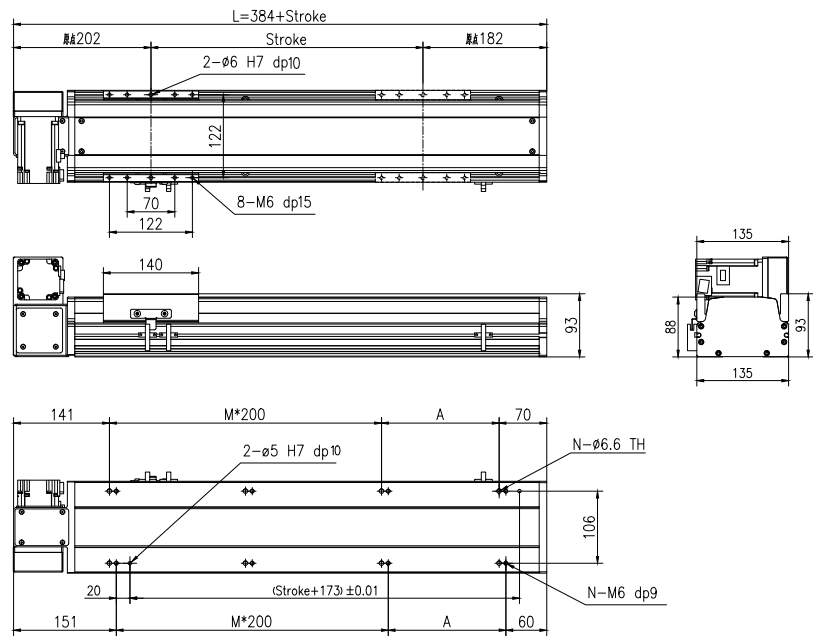


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YTO135 亚标半密式同步带驱动型

Sub-standard semi-dense synchronous belt drive type

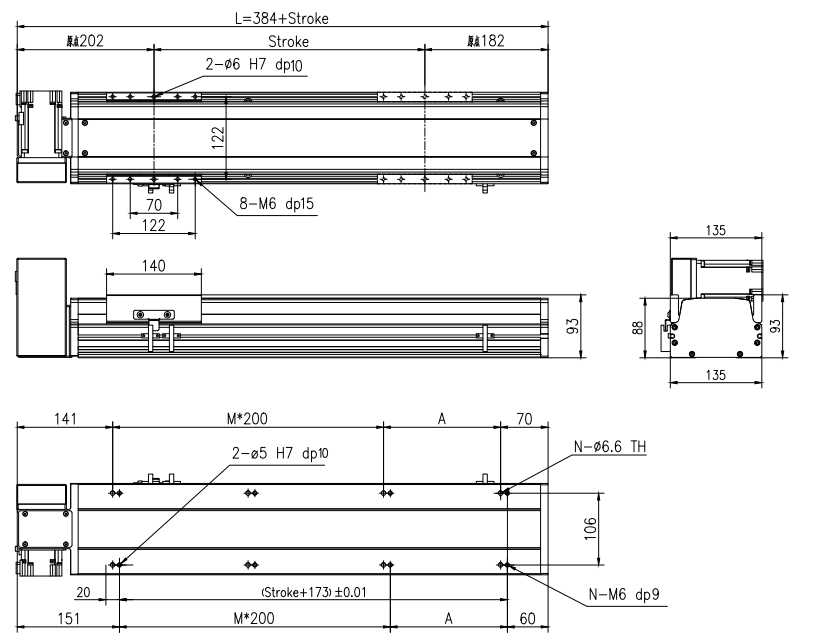
YTO135-4P-D03



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	273	373	473	573	673	773	873	973	1073	1173	1273	1373	1473	1573	1673	1773	1873	1973
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	9	9.6	10.3	10.9	11.6	12.2	12.9	13.5	14.2	14.8	15.5	16.1	16.8	17.4	18.1	18.7	19.4	20	20.7	21.3
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2484	2584	2684	2784	2884	2984	3084	3184	3284	3384	3484	3584	3684	3784	3884	3984	4084	4184	4284	4384
A	73	173	273	373	473	573	673	773	873	973	1073	1173	1273	1373	1473	1573	1673	1773	1873	1973
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	22	22.6	23.3	23.9	24.6	25.2	25.9	26.5	27.2	27.8	28.5	29.1	29.8	30.4	31.1	31.7	32.4	33	33.7	34.3

YTO135-4P-D04



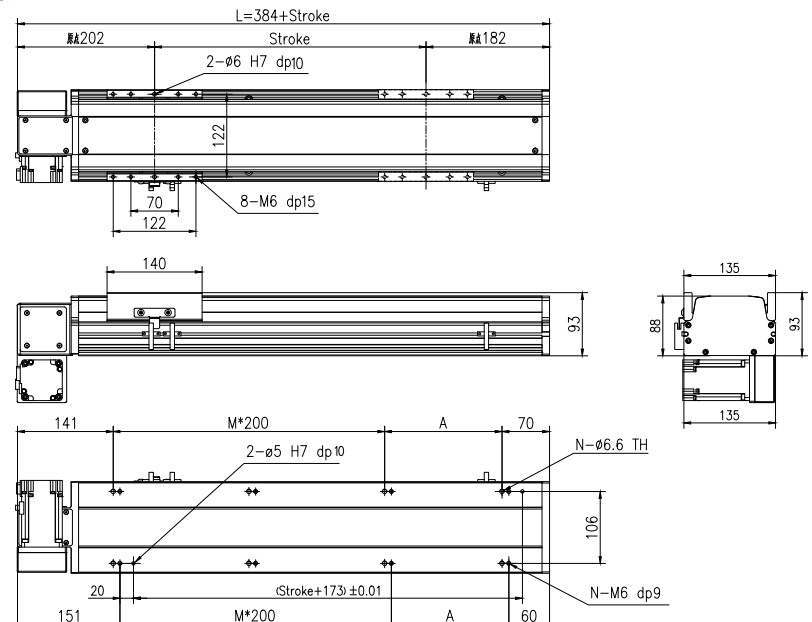
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	273	373	473	573	673	773	873	973	1073	1173	1273	1373	1473	1573	1673	1773	1873	1973
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	9	9.6	10.3	10.9	11.6	12.2	12.9	13.5	14.2	14.8	15.5	16.1	16.8	17.4	18.1	18.7	19.4	20	20.7	21.3
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2484	2584	2684	2784	2884	2984	3084	3184	3284	3384	3484	3584	3684	3784	3884	3984	4084	4184	4284	4384
A	73	173	273	373	473	573	673	773	873	973	1073	1173	1273	1373	1473	1573	1673	1773	1873	1973
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	22	22.6	23.3	23.9	24.6	25.2	25.9	26.5	27.2	27.8	28.5	29.1	29.8	30.4	31.1	31.7	32.4	33	33.7	34.3

亚标半密式同步带驱动型 YTO135

Sub-standard semi-dense synchronous belt drive type

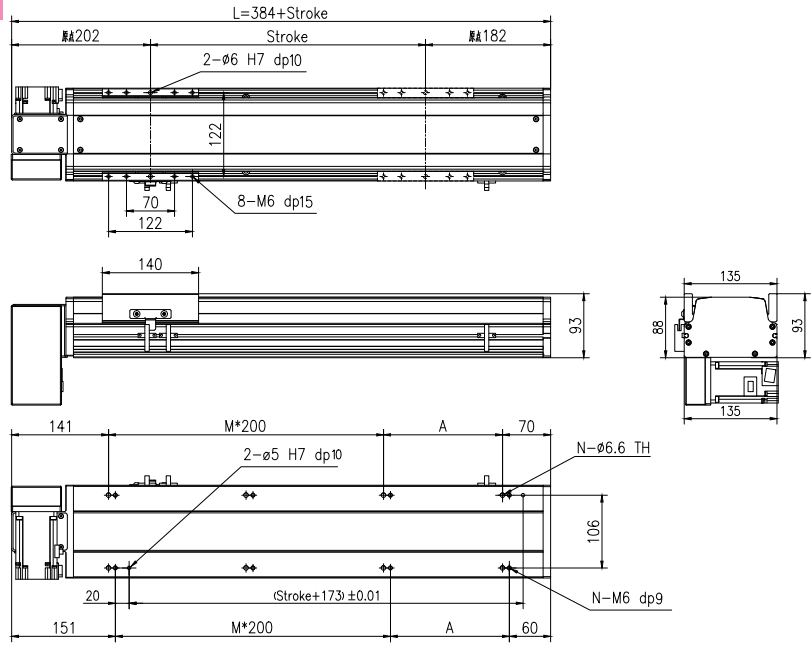
YTO135-4P-D05



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	273	373	473	573	673	773	873	973	1073	1173	1273	1373	1473	1573	1673	1773	1873	1973
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	9	9.6	10.3	10.9	11.6	12.2	12.9	13.5	14.2	14.8	15.5	16.1	16.8	17.4	18.1	18.7	19.4	20	20.7	21.3
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2484	2584	2684	2784	2884	2984	3084	3184	3284	3384	3484	3584	3684	3784	3884	3984	4084	4184	4284	4384
A	73	173	273	373	473	573	673	773	873	973	1073	1173	1273	1373	1473	1573	1673	1773	1873	1973
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	22	22.6	23.3	23.9	24.6	25.2	25.9	26.5	27.2	27.8	28.5	29.1	29.8	30.4	31.1	31.7	32.4	33	33.7	34.3

YTO135-4P-D06



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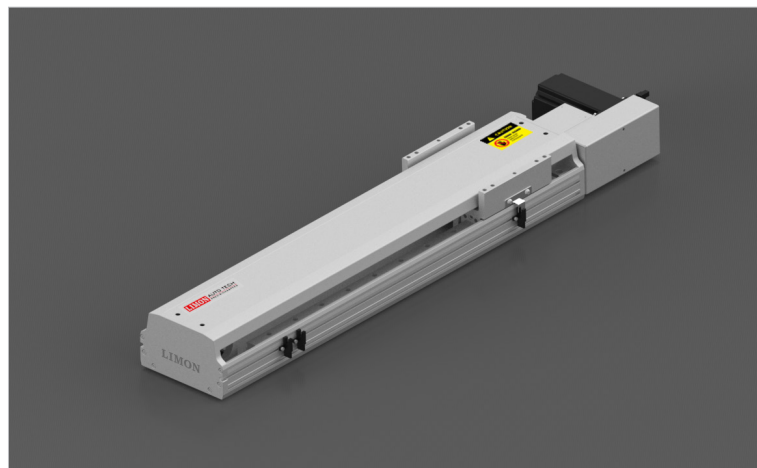
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	273	373	473	573	673	773	873	973	1073	1173	1273	1373	1473	1573	1673	1773	1873	1973
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	9	9.6	10.3	10.9	11.6	12.2	12.9	13.5	14.2	14.8	15.5	16.1	16.8	17.4	18.1	18.7	19.4	20	20.7	21.3
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2484	2584	2684	2784	2884	2984	3084	3184	3284	3384	3484	3584	3684	3784	3884	3984	4084	4184	4284	4384
A	73	173	273	373	473	573	673	773	873	973	1073	1173	1273	1373	1473	1573	1673	1773	1873	1973
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	22	22.6	23.3	23.9	24.6	25.2	25.9	26.5	27.2	27.8	28.5	29.1	29.8	30.4	31.1	31.7	32.4	33	33.7	34.3

订购型号代码 Code

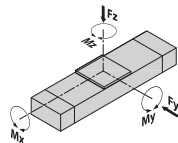
YTO170 - 500 - DB - 4P - D01 - M40 - P3 - A001

本体型号 Item NO.	行程 Stroke 100-4000,间隔Gap100	辅助滑块 Auxiliary Block 未填写:单滑块 DB -辅助滑块	直线导轨滑块数量 Block Quantity 4P	马达方向 Motor Mounting Direction D01 D02 D03 D04 D05 D06 D07 D08 D09	马达厂牌、功率 Motor Brand、Power Output M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台达 Delta 75 750W 1K -	限位传感器数量 Photoelectric Sensor P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 No Mark/No Sensor	特注式样 Special Order No. 未标记: 无 NoMark/NoSensor
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注:辅助滑块选项相关参数参见样本P217.



最大动力和力矩
Max Permissible Forces And Torques

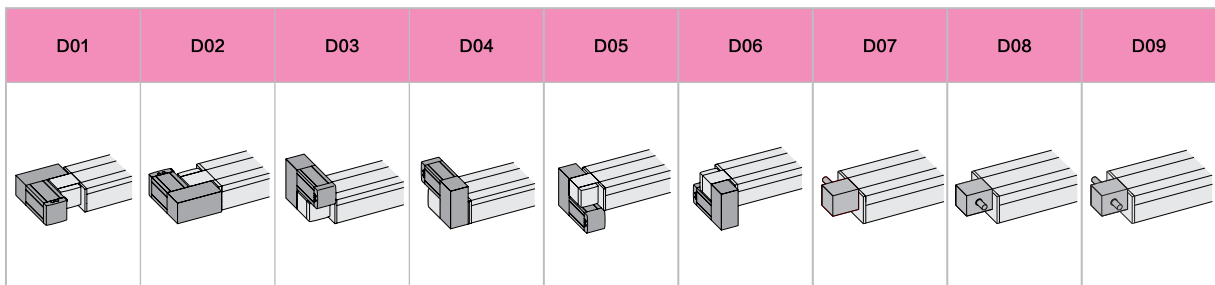


Type	4P
■F(y) (N)	7463
■F(z) (N)	7463
■M(x) (N·m)	339
■M(y) (N·m)	178
■M(z) (N·m)	742

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

马达安装方向 Motor Mounting Position Version



基本规格 Basic Specification

YTO 170		4P(导轨滑块数量) Block Quantity
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	± 0.05
	皮带轮导程 Pulley Lead (mm)	100 / 40 #注2#Note2
	皮带型号 Belt type	5M-30
	最高速度 Maximum Speed (mm/s)	2400
	最大可搬重量 Maximum Payload	60 20
	最大空载扭矩 Max. No-load Driving Torque (N·m)	0.3
基本规格 Basic Specification	最大扭矩 Max. Driving Torque (N·m)	6
	标准行程 Stroke (mm)	100-4000 mm/ 100 Pitch
	AC伺服马达容量 AC Servo Motor Output (W)	400 / 750
	高刚性直线滑轨 Linear Guide (mm)	20# × 2 PCS
	皮带宽度 Belt Width	30
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	170 × 108
原点感应器 Home Sensor		EE-SX672(NPN)

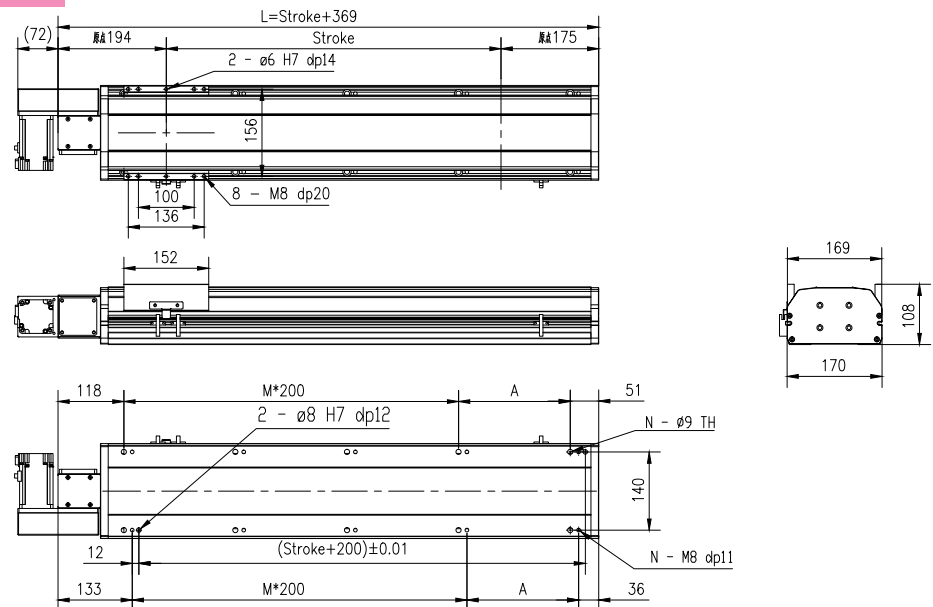
#注1:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。

#Note1:Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.

#注2:皮带轮原始导程为100mm,标准品默认附减速机构,减速后导程为40mm。

#Note 2:Pulley's original lead is 100mm,which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

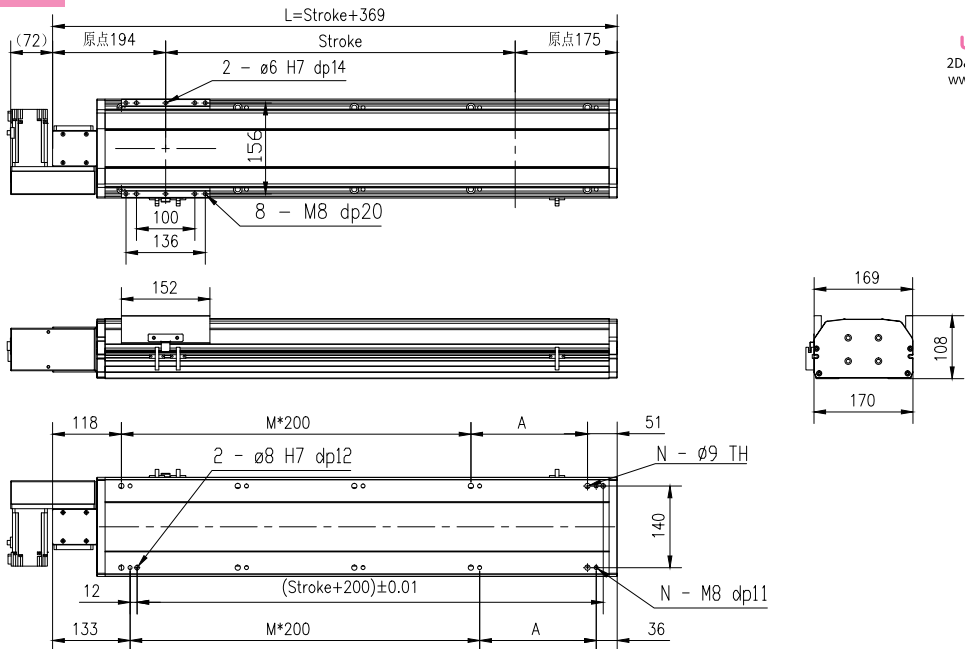
YTO170-4P-D01



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2469	2569	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	43.1	44.6	46.1	47.6	49.1	50.6	52.1	53.6	55.1	56.6	58.1	59.6	61.1	62.6	64.1	65.6	67.1	68.6	70.1	71.6

YTO170-4P-D02



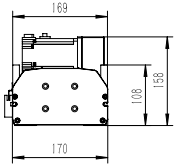
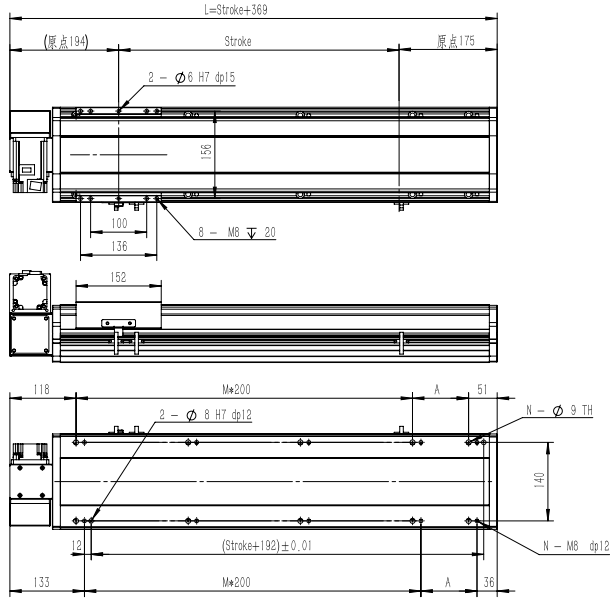
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2469	2569	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	43.1	44.6	46.1	47.6	49.1	50.6	52.1	53.6	55.1	56.6	58.1	59.6	61.1	62.6	64.1	65.6	67.1	68.6	70.1	71.6

YTO 170 亚标半密式同步带驱动型

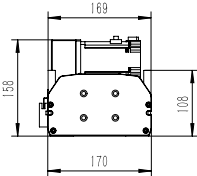
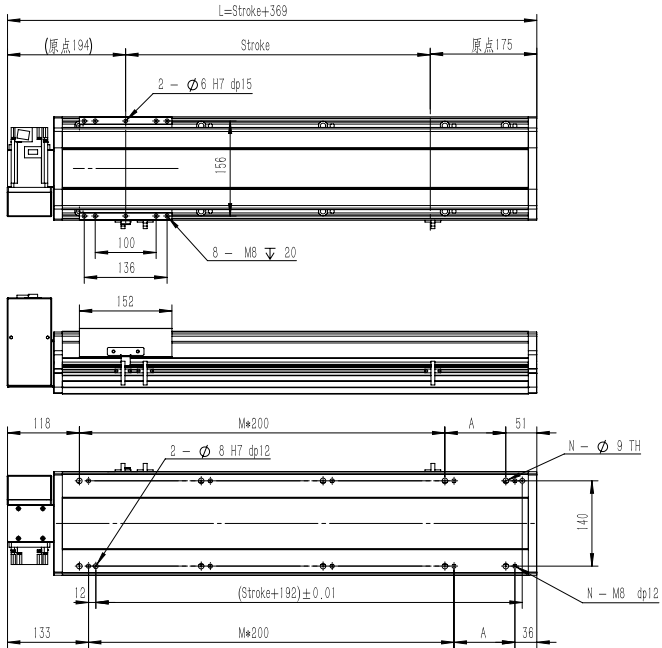
Sub-standard semi-dense synchronous belt drive type

YTO170-4P-D03

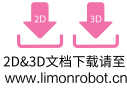


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2469	2569	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	43.1	44.6	46.1	47.6	49.1	50.6	52.1	53.6	55.1	56.6	58.1	59.6	61.1	62.6	64.1	65.6	67.1	68.6	70.1	71.6

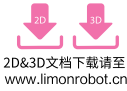
YTO170-4P-D04



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2469	2569	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	43.1	44.6	46.1	47.6	49.1	50.6	52.1	53.6	55.1	56.6	58.1	59.6	61.1	62.6	64.1	65.6	67.1	68.6	70.1	71.6



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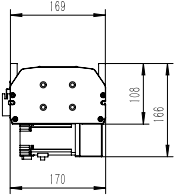
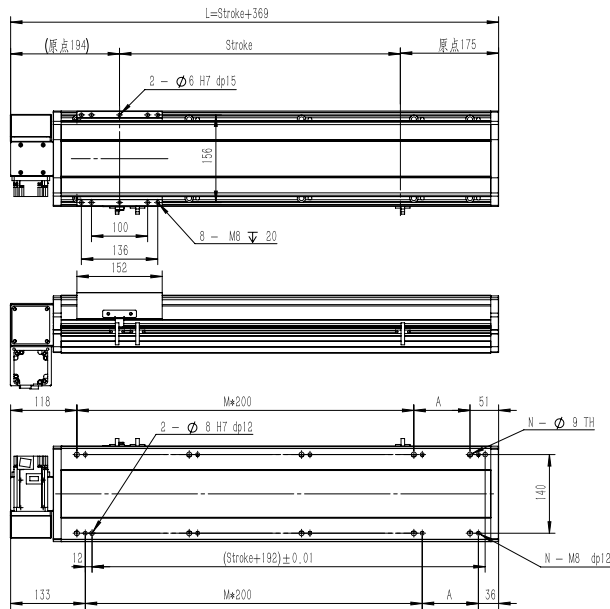


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亚标半密式同步带驱动型 YTO 170

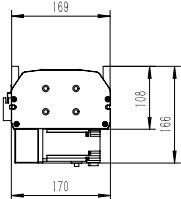
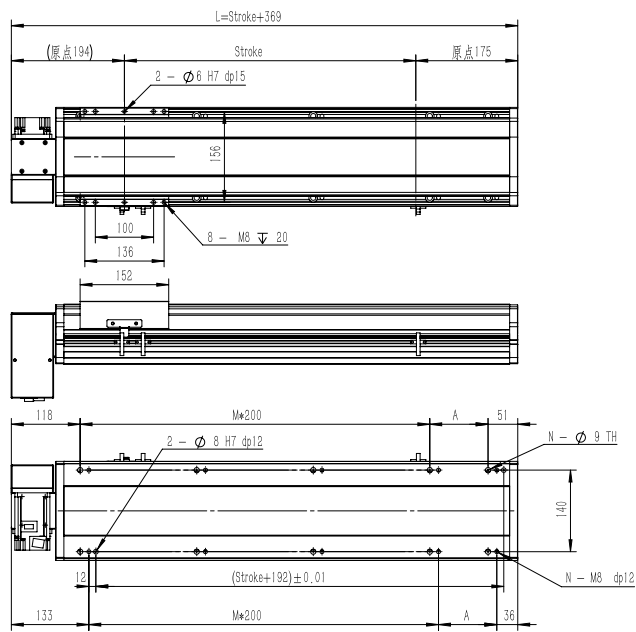
Sub-standard semi-dense synchronous belt drive type

YTO170-4P-D05

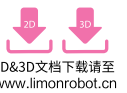


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2469	2569	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	43.1	44.6	46.1	47.6	49.1	50.6	52.1	53.6	55.1	56.6	58.1	59.6	61.1	62.6	64.1	65.6	67.1	68.6	70.1	71.6

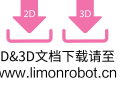
YTO170-4P-D06



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2469	2569	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	43.1	44.6	46.1	47.6	49.1	50.6	52.1	53.6	55.1	56.6	58.1	59.6	61.1	62.6	64.1	65.6	67.1	68.6	70.1	71.6



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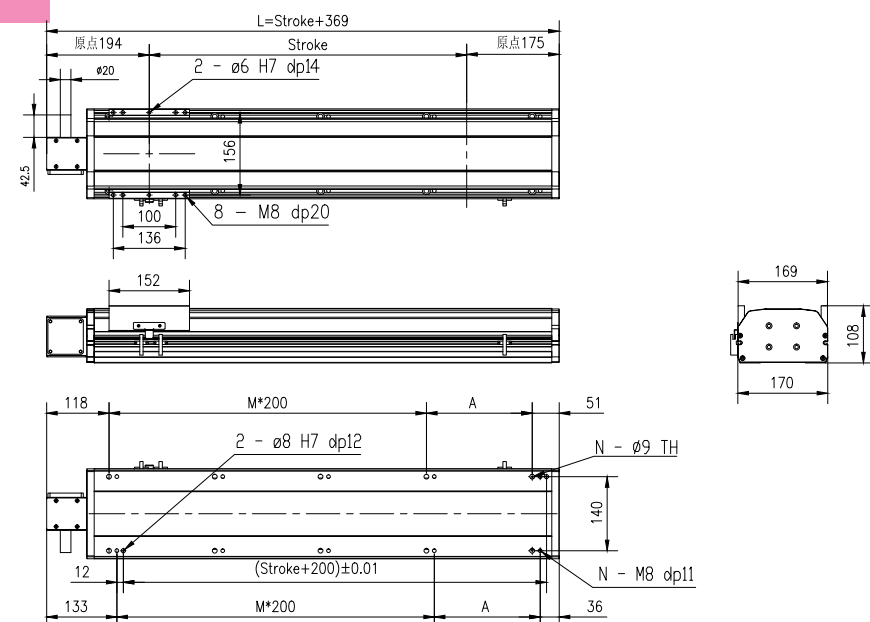


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YTO 170 亚标半密式同步带驱动型

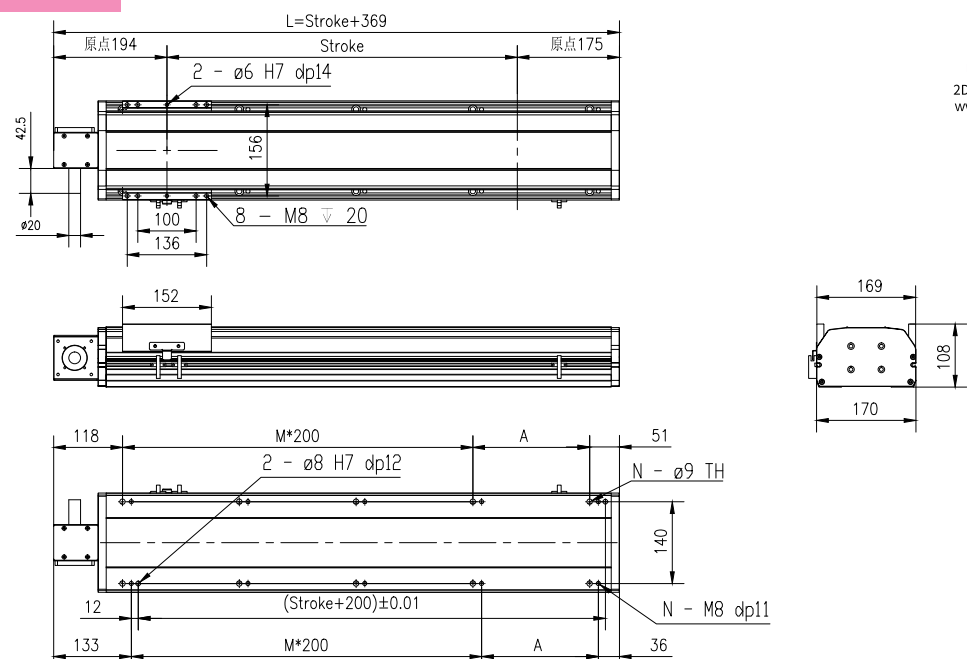
Sub-standard semi-dense synchronous belt drive type

YTO170-4P-D07



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2469	2569	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	43.1	44.6	46.1	47.6	49.1	50.6	52.1	53.6	55.1	56.6	58.1	59.6	61.1	62.6	64.1	65.6	67.1	68.6	70.1	71.6

YTO170-4P-D08

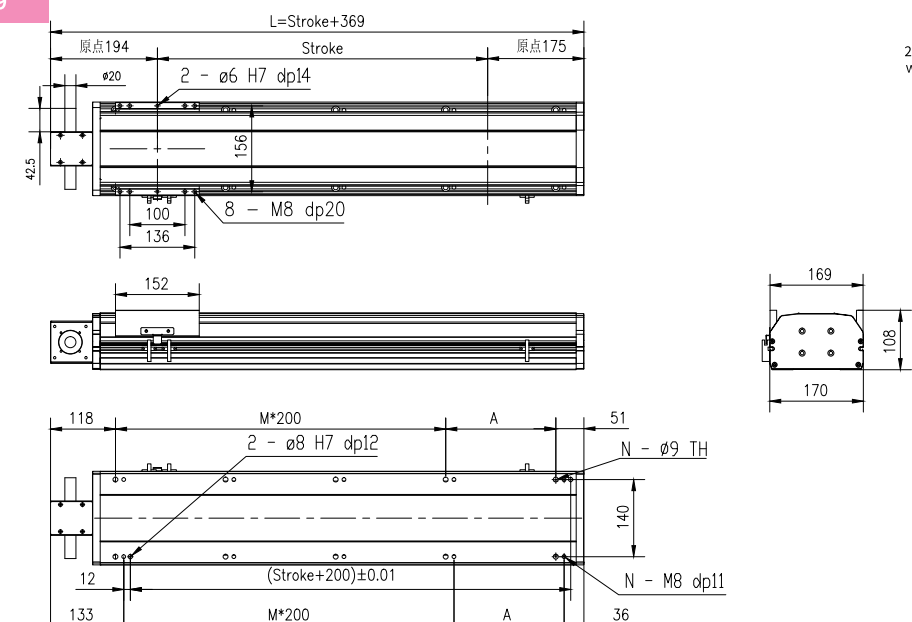


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2469	2569	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	43.1	44.6	46.1	47.6	49.1	50.6	52.1	53.6	55.1	56.6	58.1	59.6	61.1	62.6	64.1	65.6	67.1	68.6	70.1	71.6

亚标半密式同步带驱动型 YTO 170

Sub-standard semi-dense synchronous belt drive type

YTO170-4P-D09



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2469	2569	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	43.1	44.6	46.1	47.6	49.1	50.6	52.1	53.6	55.1	56.6	58.1	59.6	61.1	62.6	64.1	65.6	67.1	68.6	70.1	71.6

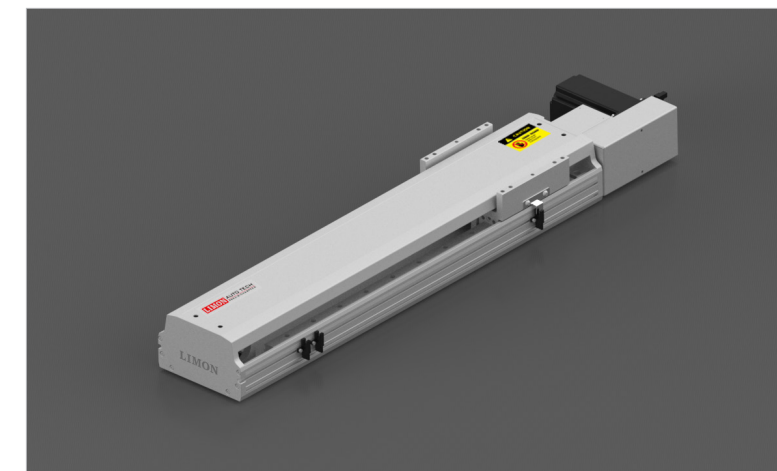
YTO 220 亚标半密式同步带驱动型
Sub-standard semi-dense synchronous belt drive type

订购型号代码 Code

YTO220 - 500 - DB - 4P - D01 - M75 - P3 - A001

本体型号 Item NO. 行程 Stroke 100-3050,间隔Gap50 辅助滑块 Auxiliary Block 未填写:单滑块 DB:辅助滑块 直线导轨滑块数量 Block Quantity 4P 马达方向 Motor Mounting Direction D01 D02 D03 D04 D05 D06 D07 D08 D09 马达厂牌、功率 Motor Brand、Power Output M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 - Y 安川 Yaskawa 40 - D 台达 Delta 75 750W 1K - 限位传感器数量 Photoelectric Sensor P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 No Mark/No Sensor 特注式样 Special Order No. 未标记: 无 NoMark/NoSensor

注:辅助滑块选项相关参数参见样本P217.



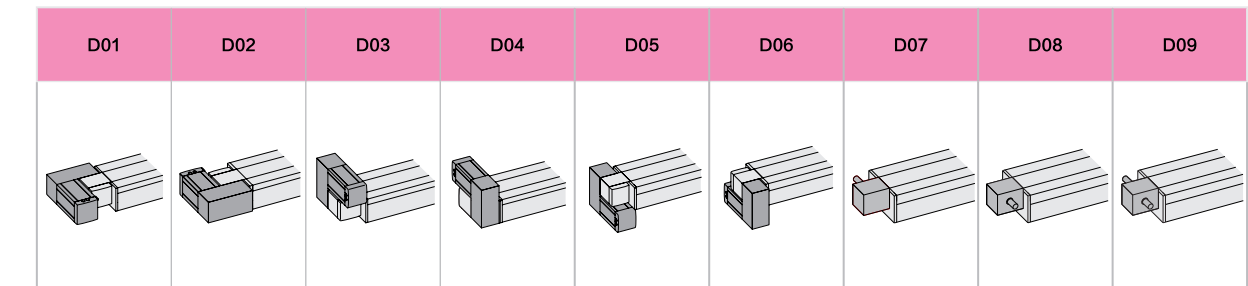
最大动力和力矩
Max Permissible Forces And Torques

Diagram showing force and torque vectors (Fy, Fz, Mx, My, Mz) applied to the rail.

Type	4P
■F(y) (N)	10333.3
■F(z) (N)	10333.3
■M(x) (N·m)	2052
■M(y) (N·m)	2052
■M(z) (N·m)	1810

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:
(Fy max. + Fz max. + Mx max. + My max. + Mz max.) / (Fy max. + Fz max. + Mx max. + My max. + Mz max.) ≤ 1

马达安装方向 Motor Mounting Position Version



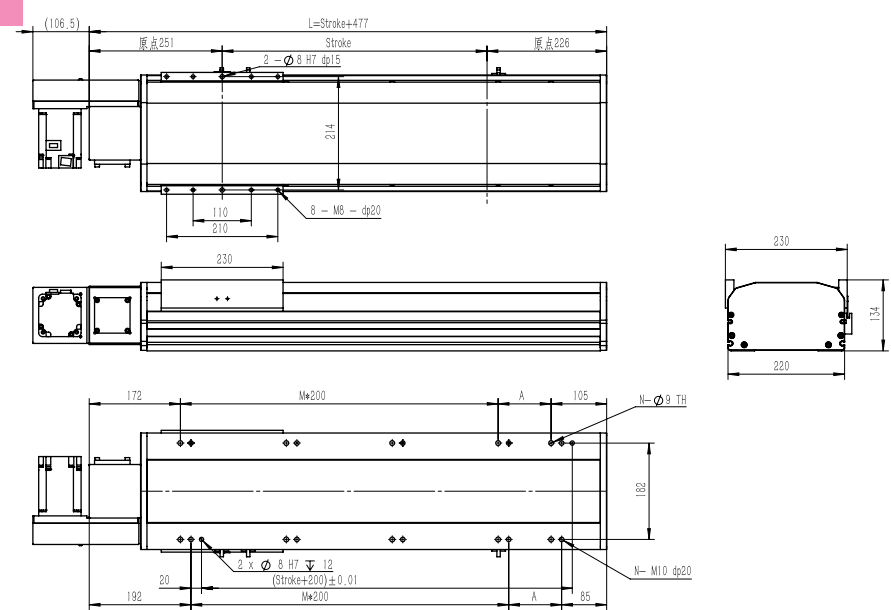
基本规格 Basic Specification

YTO 220		4P(导轨滑块数量) Block Quantity
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	± 0.05
	皮带轮导程 Pulley Lead (mm)	100 / 40 #注2#Note2
	皮带型号 Belt type	5M-50
	最高速度 Maximum Speed (mm/s)	2400
	最大可搬重量 Maximum Payload	90
	最大空载扭矩 Max. No-load Driving Torque (N·m)	0.3
基本规格 Basic Specification	标准行程 Stroke (mm)	100-3050 mm/ 50 Pitch
	AC伺服马达容量 AC Servo Motor Output (W)	750
	高刚性直线滑轨 Linear Guide (mm)	25# × 2 PCS
	皮带宽度 Belt Width	50
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	230 × 134
	原点感应器 Home Sensor	EE-SX672(NPN)

#注1:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。
#Note1:Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.
#注2:皮带轮原始导程为100mm,标准品默认附减速机构,减速后导程为40mm。
#Note 2:Pulley's original lead is 100mm,which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

亚标半密式同步带驱动型 YTO 220
Sub-standard semi-dense synchronous belt drive type

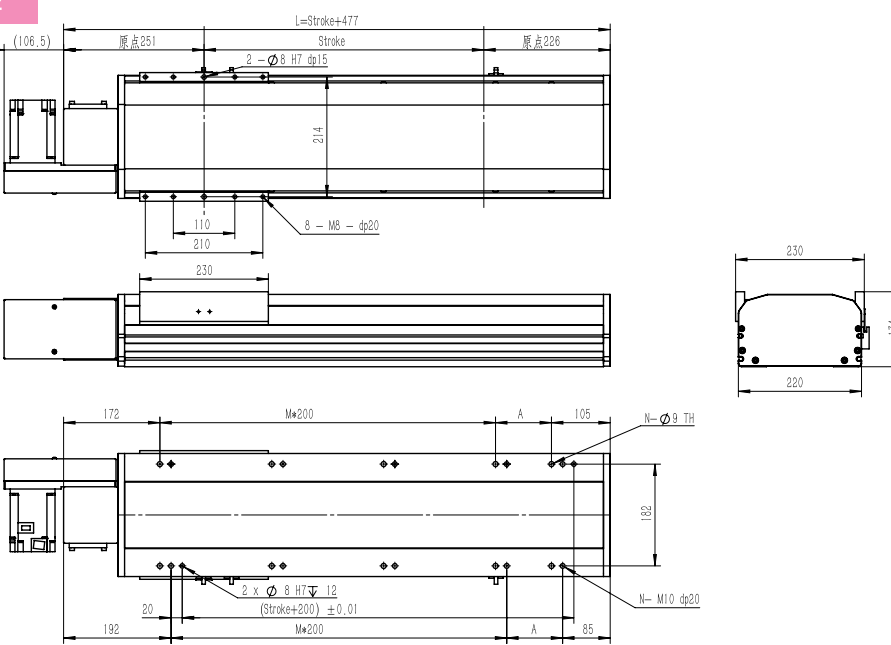
YTO220-D01



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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
重量 Weight(kg)	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8
行程 Stroke(mm)	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527	
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
M	8	9	9	9	9	10	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	
重量 Weight(kg)	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8	

YTO220-D02

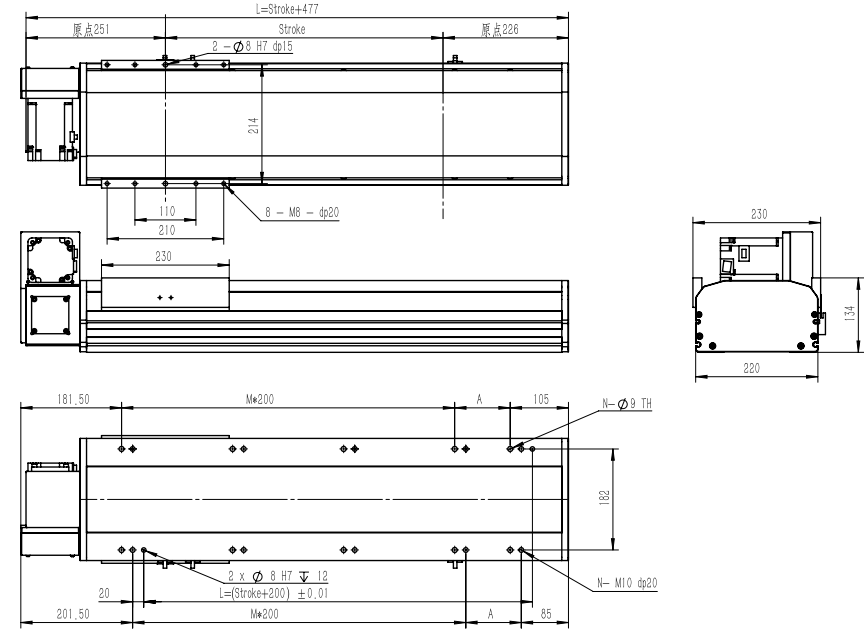


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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
重量 Weight(kg)	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8
行程 Stroke(mm)	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527	
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
M	8	9	9	9	9	10	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	
重量 Weight(kg)	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8	

YTO 220 亚标半密式同步带驱动型
Sub-standard semi-dense synchronous belt drive type

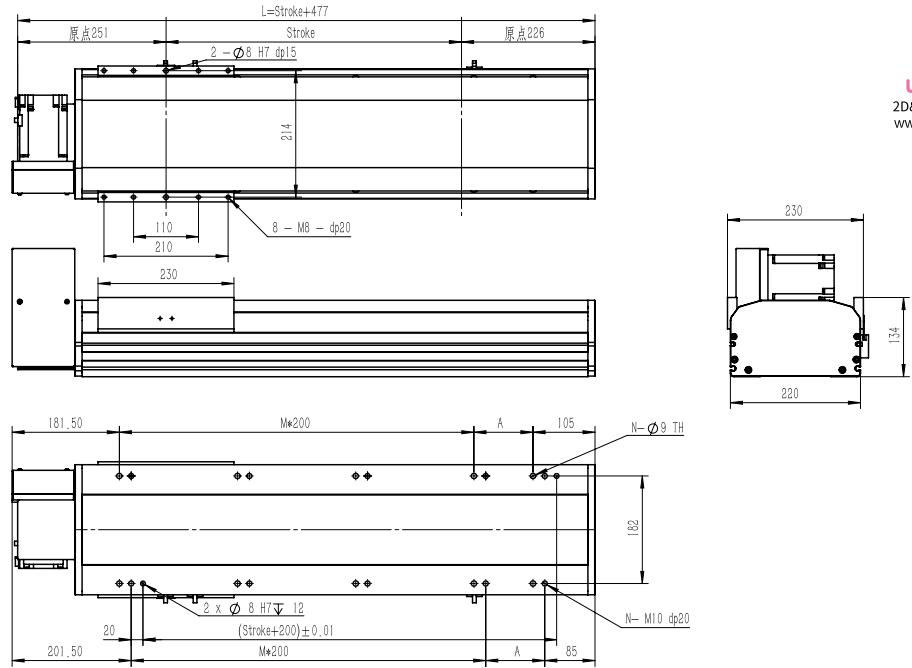
YTO220-D03



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Table with 20 columns (Stroke 50 to 1550) and 10 rows (L, A, M, N, Weight, Stroke, L, A, M, N, Weight). Contains dimensions and weights for YTO220-D03.

YTO220-D04

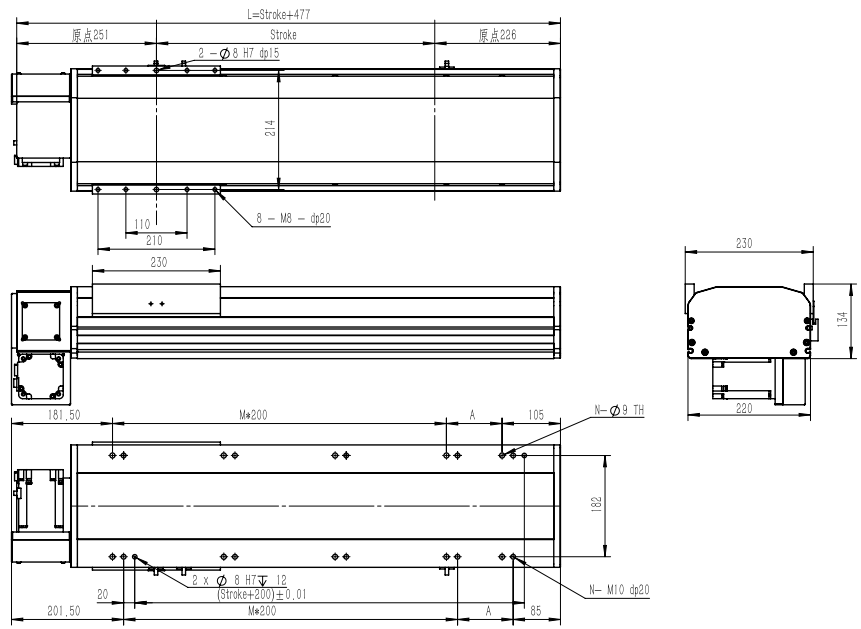


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Table with 20 columns (Stroke 50 to 1550) and 10 rows (L, A, M, N, Weight, Stroke, L, A, M, N, Weight). Contains dimensions and weights for YTO220-D04.

亚标半密式同步带驱动型 YTO 220
Sub-standard semi-dense synchronous belt drive type

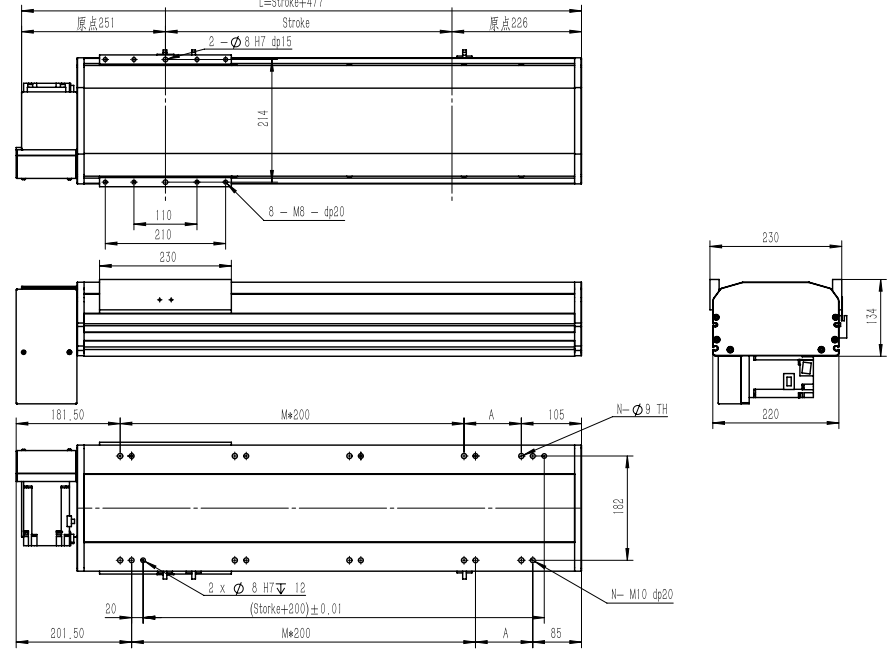
YTO220-D05



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Table with 20 columns (Stroke 50 to 1550) and 10 rows (L, A, M, N, Weight, Stroke, L, A, M, N, Weight). Contains dimensions and weights for YTO220-D05.

YTO220-D06

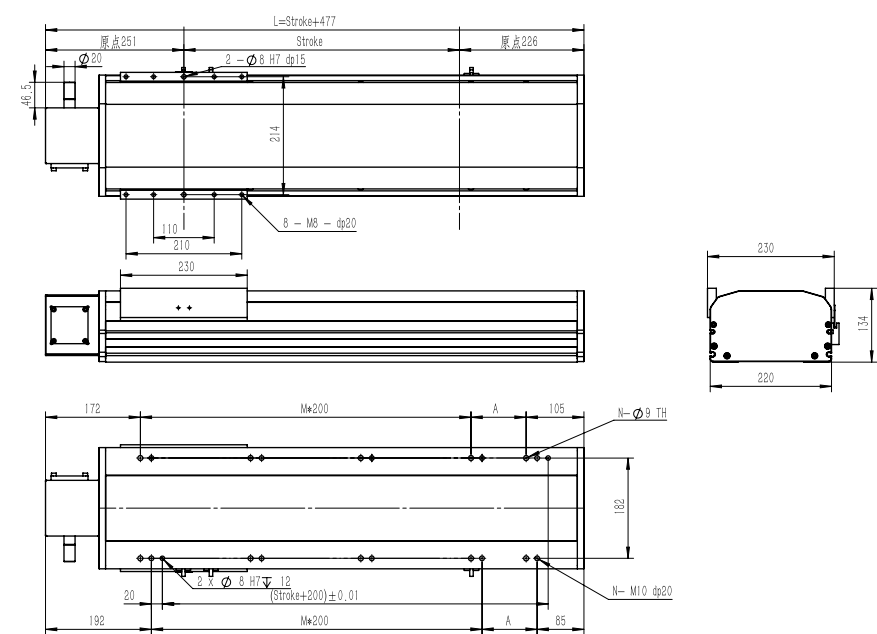


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Table with 20 columns (Stroke 50 to 1550) and 10 rows (L, A, M, N, Weight, Stroke, L, A, M, N, Weight). Contains dimensions and weights for YTO220-D06.

YTO 220 亚标半密式同步带驱动型
Sub-standard semi-dense synchronous belt drive type

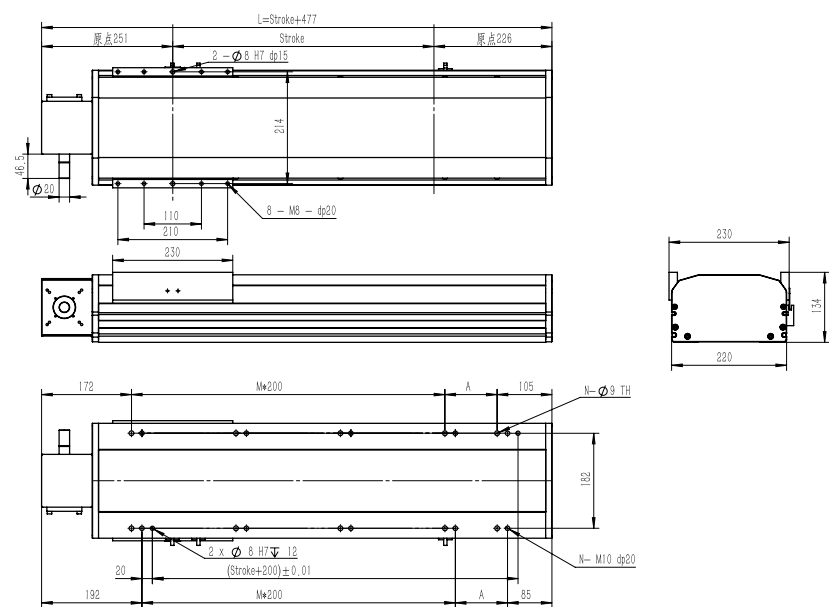
YTO220-D07



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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	7	7	7	7	8	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	18	18	18	18	20	20	20	20
重量 Weight(kg)	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8
行程 Stroke(mm)	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527	
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	
重量 Weight(kg)	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8	

YTO220-D08

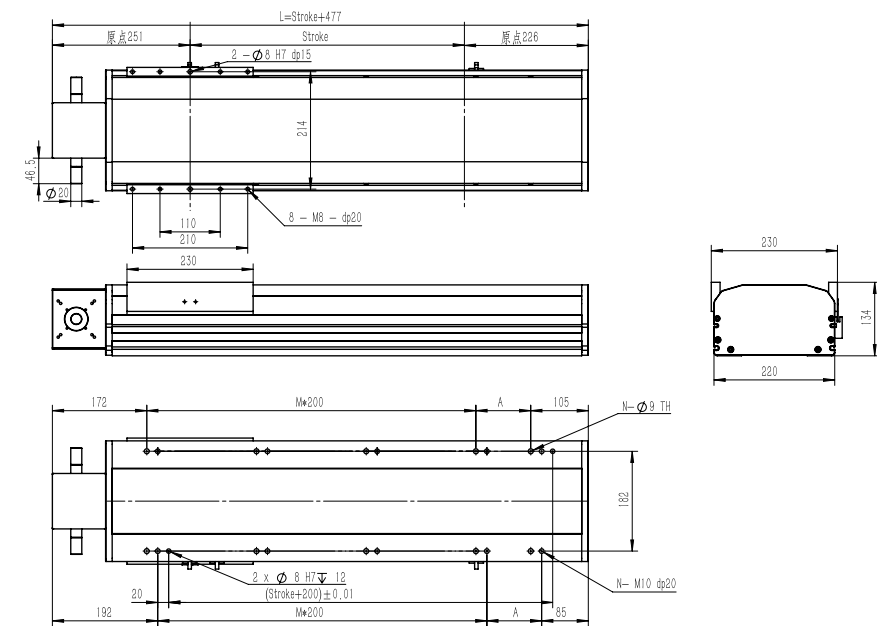


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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	7	7	7	7	8	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	18	18	18	18	20	20	20	20
重量 Weight(kg)	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8
行程 Stroke(mm)	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527	
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	
重量 Weight(kg)	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8	

亚标半密式同步带驱动型 YTO 220
Sub-standard semi-dense synchronous belt drive type

YTO220-D09



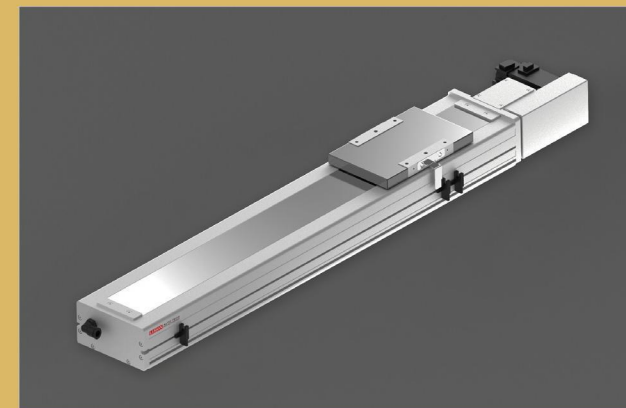
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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
重量 Weight(kg)	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8
行程 Stroke(mm)	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527	
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	
重量 Weight(kg)	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8	

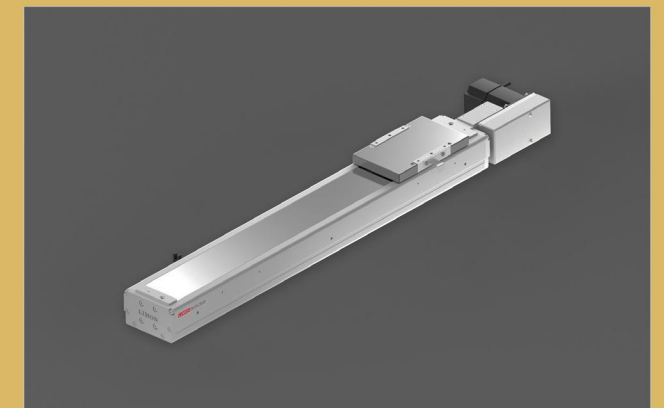
YTO Series

亚标全密式同步带驱动型

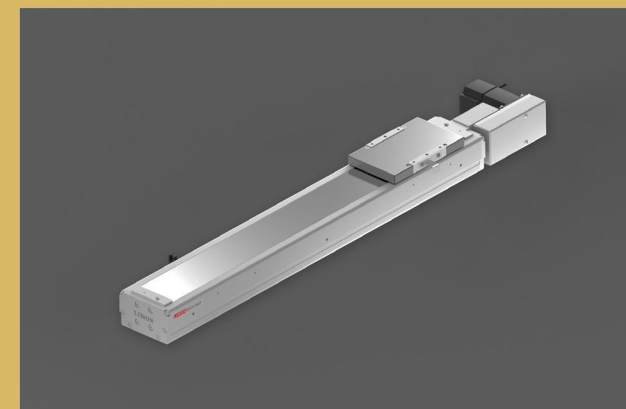
Sub-standard full-density synchronous belt drive type



YTC 135



YTC 170



YTC 220

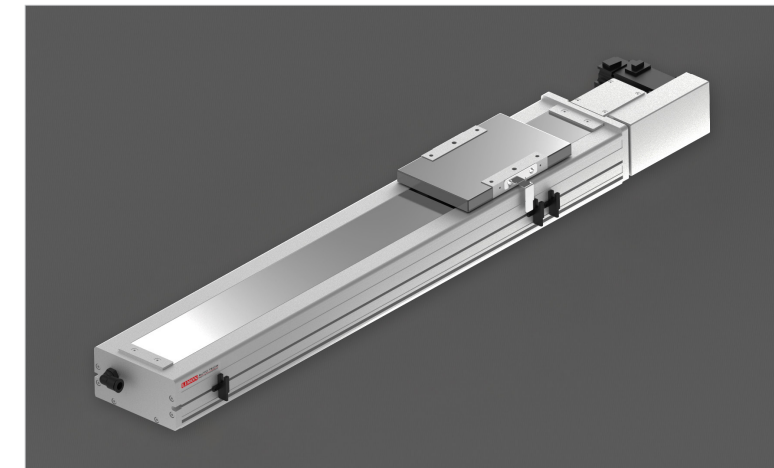
YTC135 亚标全密式同步带驱动型
Sub-standard full-density synchronous belt drive type

订购型号代码 Code

YTC135 - 500 - DB - 4P - D01 - M40 - P3 - A001

Table with 4 columns: Item NO., Stroke, Auxiliary Block, Block Quantity, Motor Mounting Direction, Motor Brand, Power Output, Photoelectric Sensor, Special Order No.

注:辅助滑块选项相关参数参见样本P217.



最大动力和力矩
Max Permissible Forces And Torques

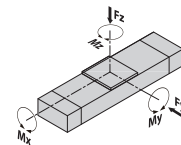
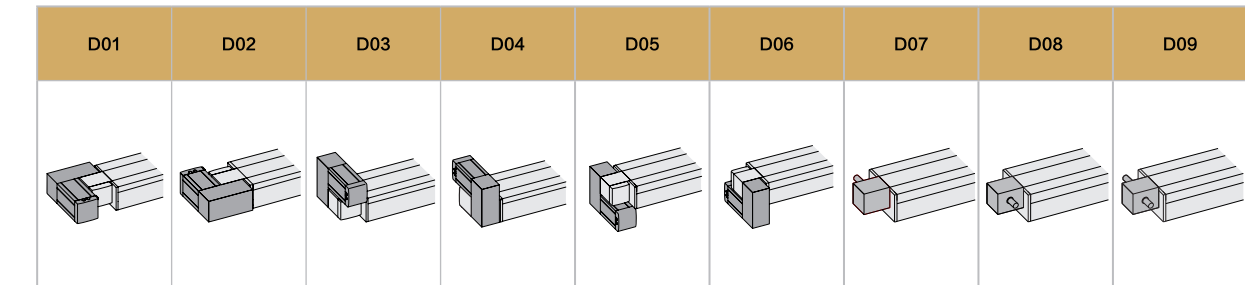


Table with 2 columns: Type, 4P. Rows include F(y), F(z), M(x), M(y), M(z) with their respective values.

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:

Fy max. + Fz max. + Mx max. + My max. + Mz max. ≤ 1

马达安装方向 Motor Mounting Position Version



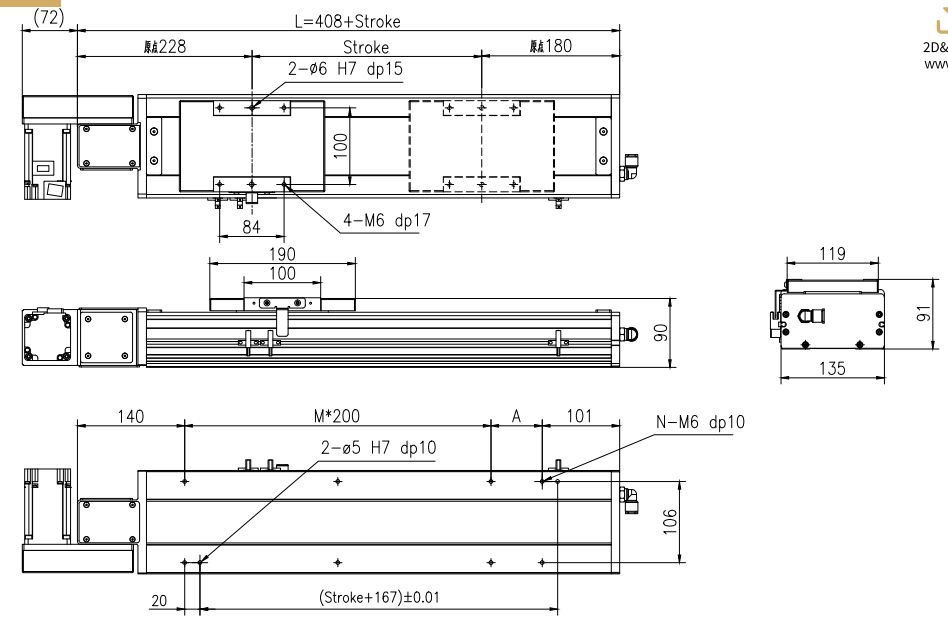
基本规格 Basic Specification

Table with 2 columns: YTC135, 4P(导轨滑块数量) Block Quantity. Rows include technical parameters like Repetitive Accuracy, Belt type, Maximum Speed, etc.

#注1:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。
#Note1:Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.
#注2:皮带轮原始导程为110mm,标准品默认附减速机机构,减速后导程为50mm。
#Note 2:Pulley's original lead is 110mm,which standard type is equipped with reduction facility normally, and its lead is 50mm after deceleration.

亚标全密式同步带驱动型 YTC135
Sub-standard full-density synchronous belt drive type

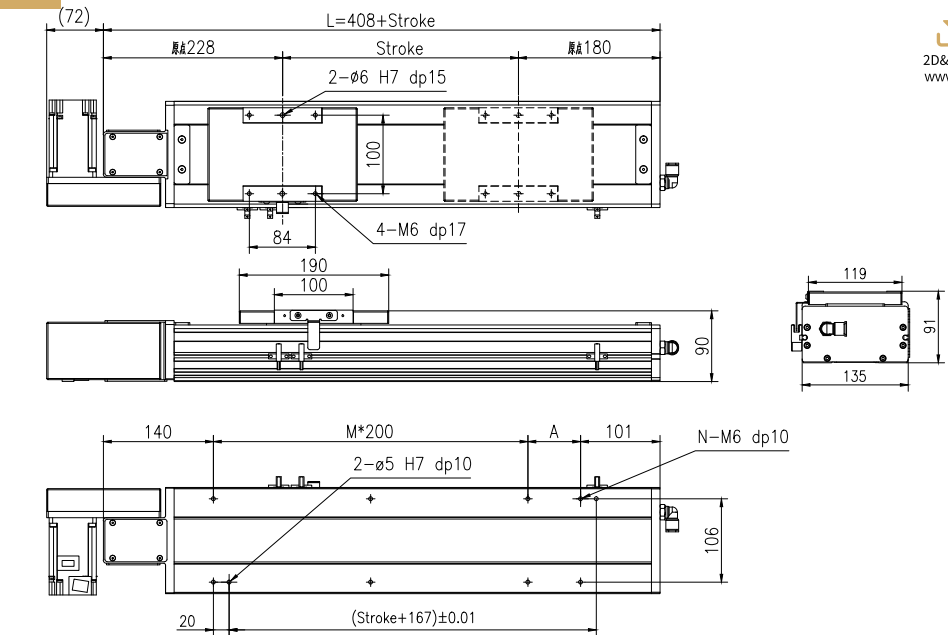
YTC135-4P-D01



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Table with 2 columns: Stroke (mm), Weight (kg). Rows include L, A, M, N, and weight values for various stroke lengths.

YTC135-4P-D02



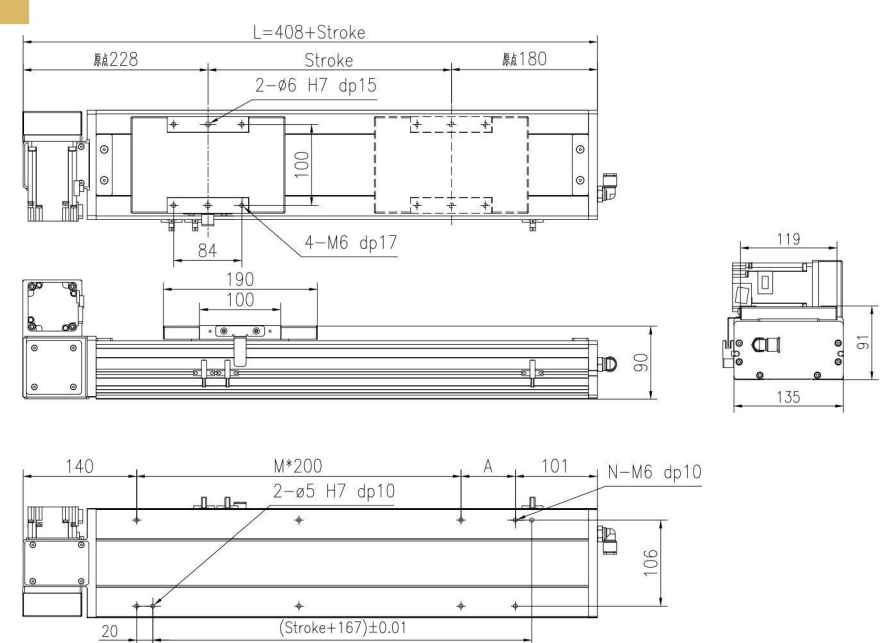
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Table with 2 columns: Stroke (mm), Weight (kg). Rows include L, A, M, N, and weight values for various stroke lengths.

YTC135 亚标全密式同步带驱动型

Sub-standard full-density synchronous belt drive type

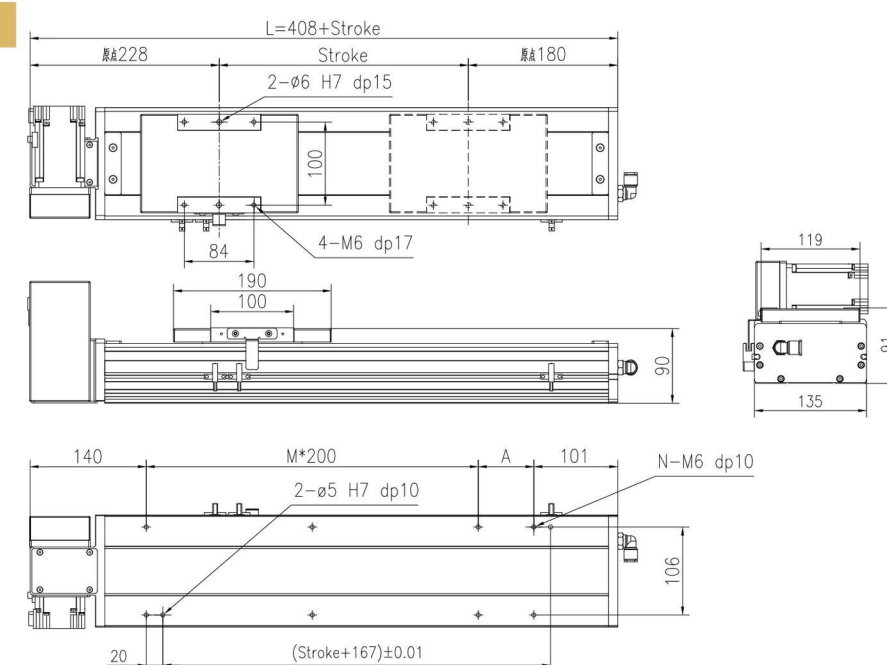
YTC135-4P-D03



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	8.7	9.3	10	10.6	11.2	11.8	12.4	13.1	13.7	14.3	14.9	15.5	16.2	16.8	17.4	18	18.6	19.3	19.9	20.5
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2508	2608	2708	2808	2908	3008	3108	3208	3308	3408	3508	3608	3708	3808	3908	4008	4108	4208	4308	4408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	21.1	21.7	22.4	23	23.6	24.2	24.8	25.5	26.1	26.7	27.3	27.9	28.6	29.2	29.8	30.4	31	31.7	32.3	32.9

YTC135-4P-D04



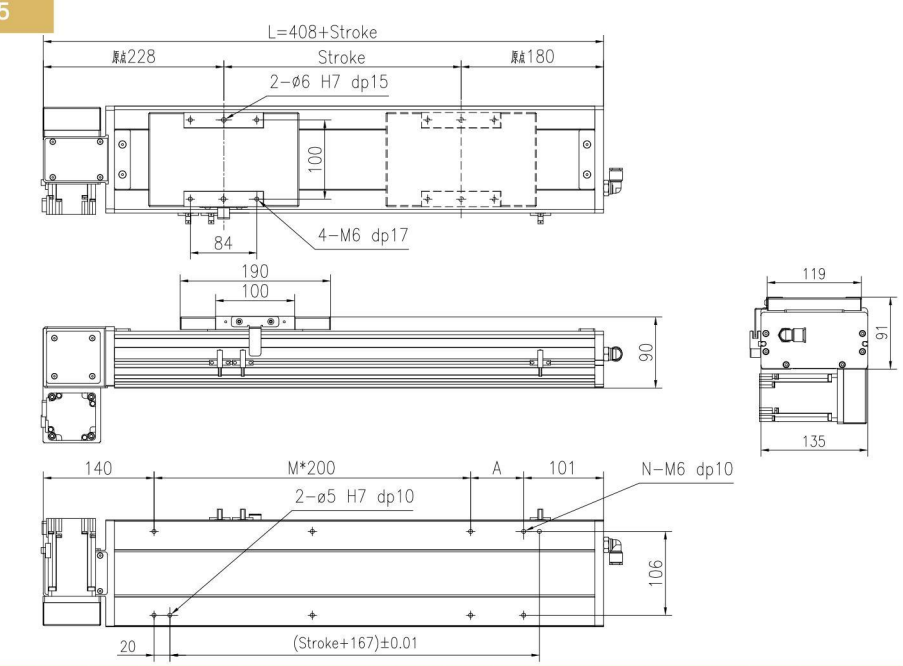
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	8.7	9.3	10	10.6	11.2	11.8	12.4	13.1	13.7	14.3	14.9	15.5	16.2	16.8	17.4	18	18.6	19.3	19.9	20.5
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2508	2608	2708	2808	2908	3008	3108	3208	3308	3408	3508	3608	3708	3808	3908	4008	4108	4208	4308	4408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	21.1	21.7	22.4	23	23.6	24.2	24.8	25.5	26.1	26.7	27.3	27.9	28.6	29.2	29.8	30.4	31	31.7	32.3	32.9

亚标全密式同步带驱动型 YTC135

Sub-standard full-density synchronous belt drive type

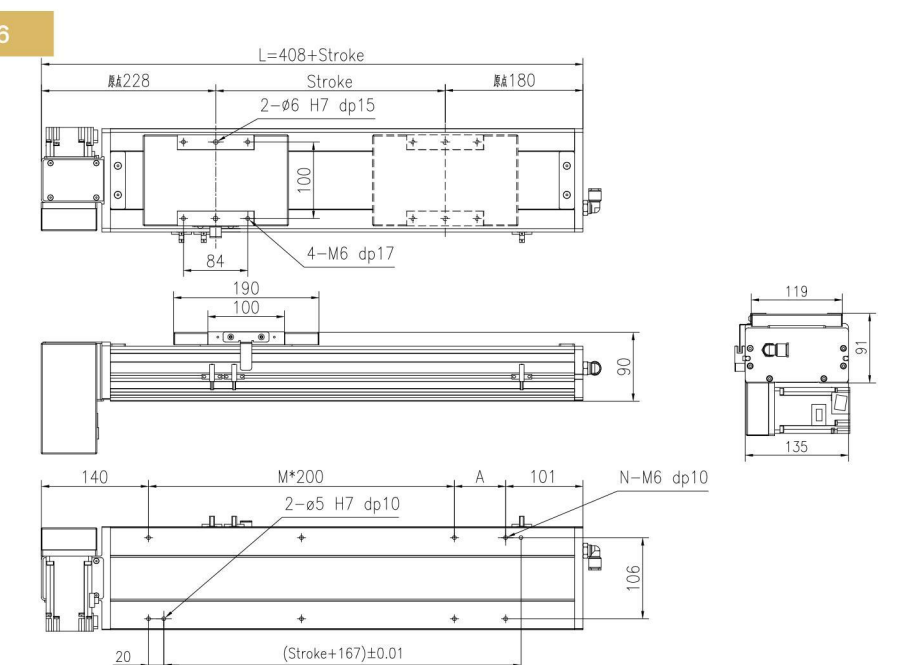
YTC135-4P-D05



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	8.7	9.3	10	10.6	11.2	11.8	12.4	13.1	13.7	14.3	14.9	15.5	16.2	16.8	17.4	18	18.6	19.3	19.9	20.5
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2508	2608	2708	2808	2908	3008	3108	3208	3308	3408	3508	3608	3708	3808	3908	4008	4108	4208	4308	4408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	21.1	21.7	22.4	23	23.6	24.2	24.8	25.5	26.1	26.7	27.3	27.9	28.6	29.2	29.8	30.4	31	31.7	32.3	32.9

YTC135-4P-D06



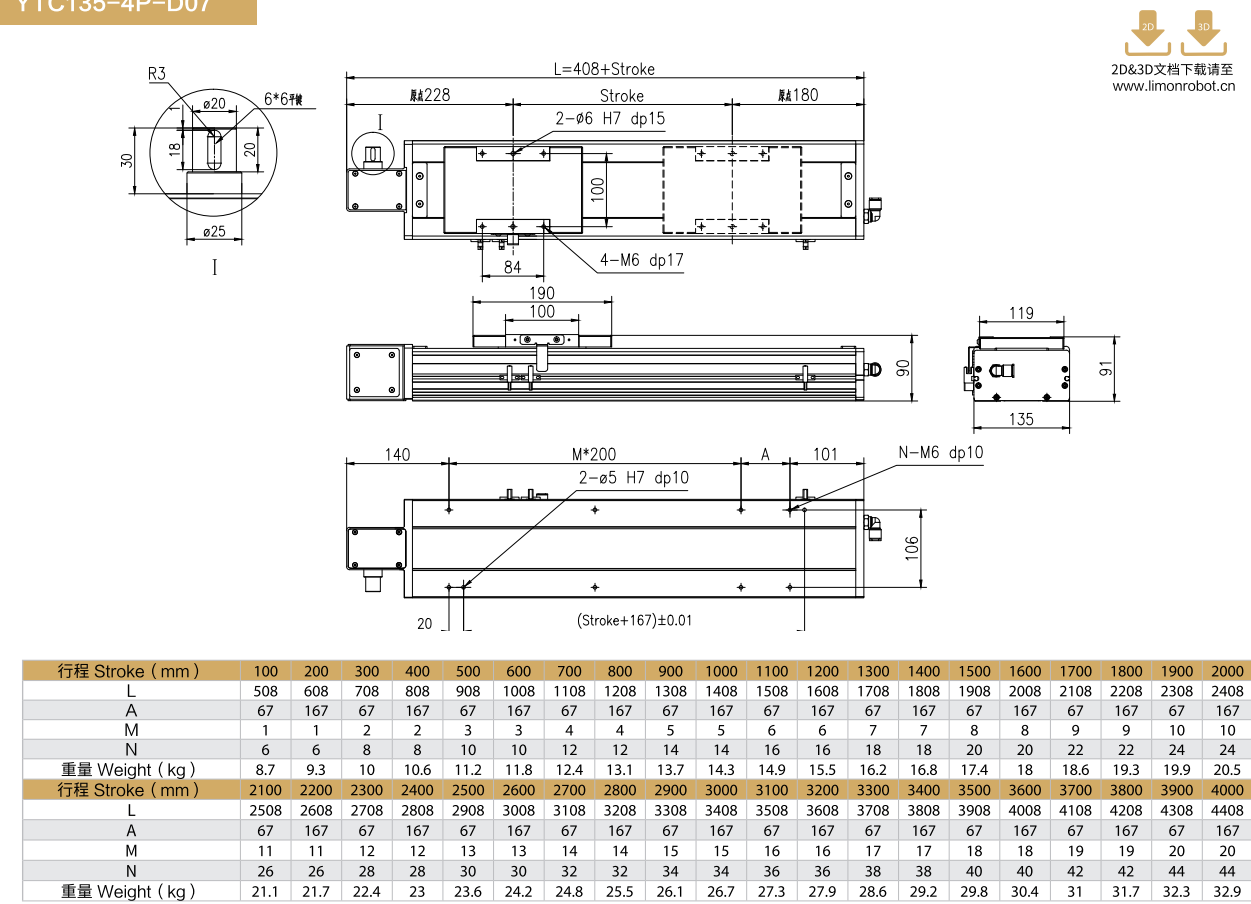
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	8.7	9.3	10	10.6	11.2	11.8	12.4	13.1	13.7	14.3	14.9	15.5	16.2	16.8	17.4	18	18.6	19.3	19.9	20.5
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2508	2608	2708	2808	2908	3008	3108	3208	3308	3408	3508	3608	3708	3808	3908	4008	4108	4208	4308	4408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	21.1	21.7	22.4	23	23.6	24.2	24.8	25.5	26.1	26.7	27.3	27.9	28.6	29.2	29.8	30.4	31	31.7	32.3	32.9

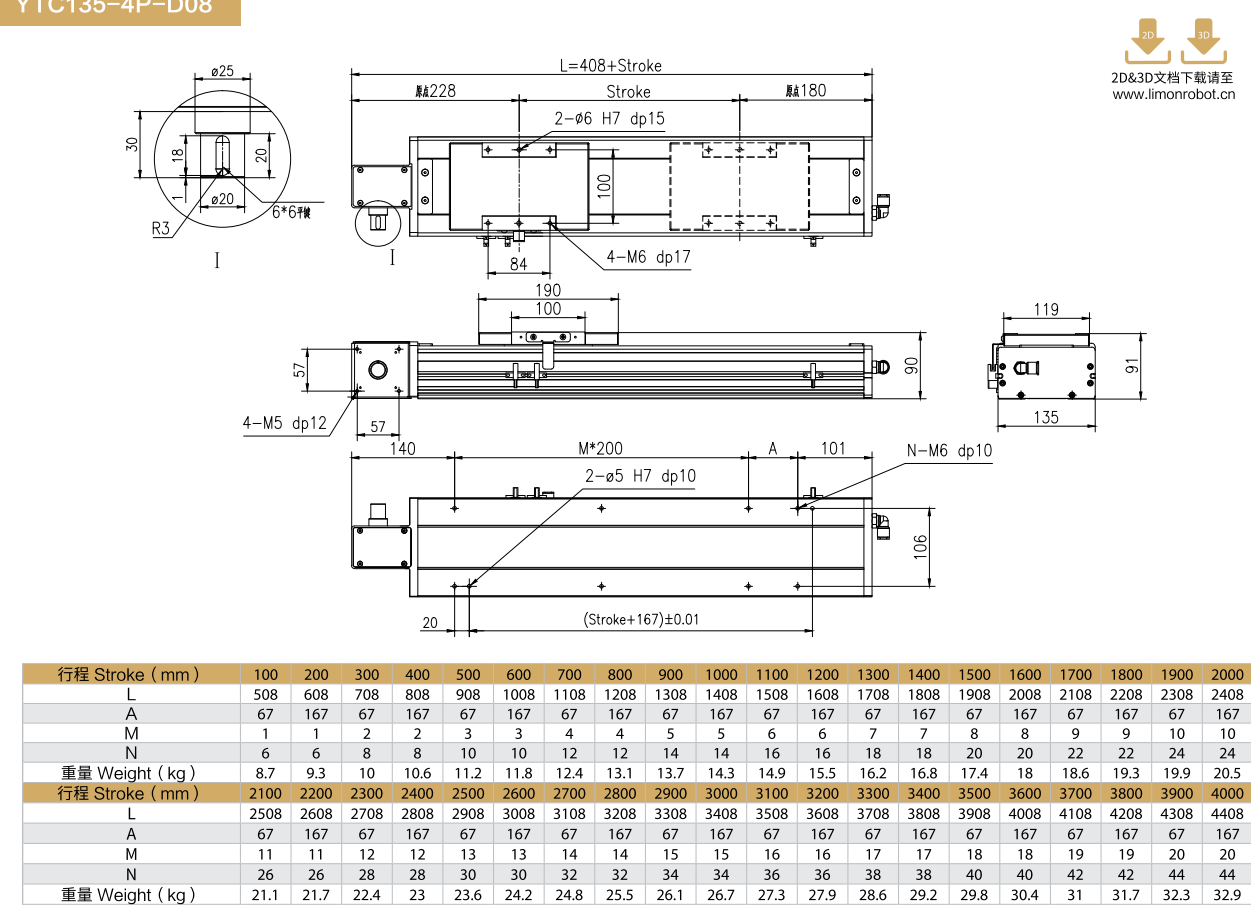
YTC135

亚标全密式同步带驱动型
Sub-standard full-density synchronous belt drive type

YTC135-4P-D07



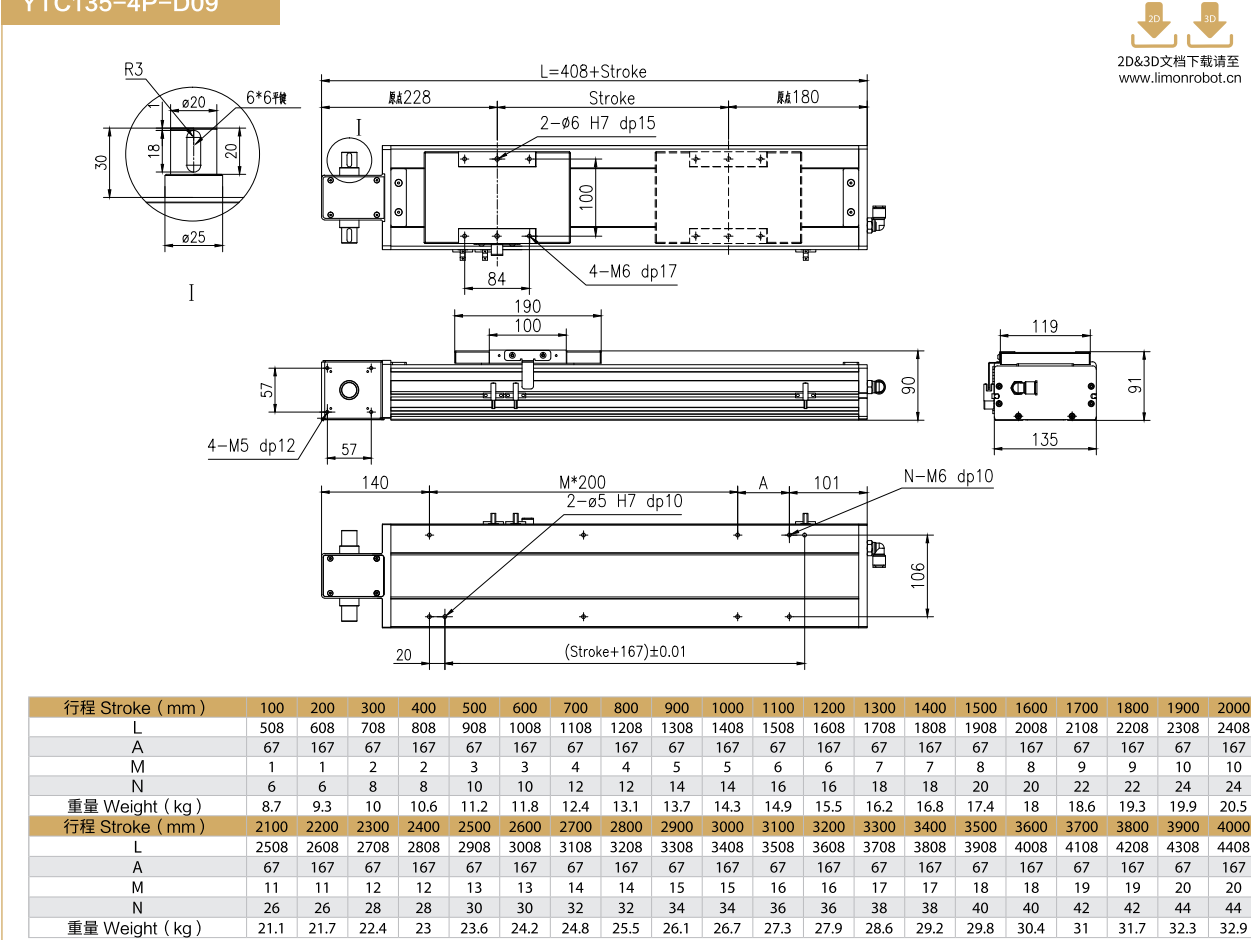
YTC135-4P-D08



YTC135

亚标全密式同步带驱动型
Sub-standard full-density synchronous belt drive type

YTC135-4P-D09



YTC170 亚标全密式同步带驱动型
Sub-standard full-density synchronous belt drive type

订购型号代码 Code

YTC170 - 500 - DB - 4P - D01 - M40 - P3 - A001

本体型号 Item NO.

行程 Stroke
100-4000,
间隔Gap100

辅助滑块 Auxiliary Block
未填写:单滑块
DB...辅助滑块

直线导轨滑块数量 Block Quantity
4P

马达方向 Motor Mounting Direction
D01
D02
D03
D04
D05
D06
D07
D08
D09

马达厂牌、功率 Motor Brand、Power Output
M 三菱 Mitsubishi 10 -
P 松下 Panasonic 20 200W
Y 安川 Yaskawa 40 400W
D 台达 Delta 75 750W
1K -

限位传感器数量 Photoelectric Sensor
P1: 1个 1PC
P2: 2个 2PCS
P3: 3个 3PCS
未标记: 无
No Mark/No Sensor

特注式样 Special Order No.
未标记: 无
NoMark/NoSensor

注:辅助滑块选项相关参数参见样本P217

最大动态力和力矩
Max Permissible Forces And Torques

Type	4P
■F(y) (N)	7463
■F(z) (N)	7463
■M(x) (N·m)	339
■M(y) (N·m)	178
■M(z) (N·m)	742

除了满足最大负载和力矩外, 还必须满足以下公式:
All forces and torques relate to the following:
$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

马达安装方向 Motor Mounting Position Version

基本规格 Basic Specification

YTC 170		4P(导轨滑块数量) Block Quantity
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	± 0.05
	皮带轮导程 Pulley Lead (mm)	100 / 40 #注2#Note2
	皮带型号 Belt type	5M-30
	最高速度 Maximum Speed (mm/s)	2400
	最大可搬重量 *注1#Note1 Maximum Payload	水平使用Horizontal (kg) 60 垂直使用Vertical (kg) 20
	最大空载扭矩 Max. No-load Driving Torque (N·m)	0.3
基本规格 Basic Specification	最大扭矩 Max. Driving Torque (N·m)	6
	标准行程 Stroke (mm)	100-4000 mm/ 100 Pitch
	AC伺服马达容量 AC Servo Motor Output (W)	400
	高刚性直线滑轨 Linear Guide (mm)	20# × 2 PCS
	皮带宽度 Belt Width	30
主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)		170 × 107
原点感应器 Home Sensor		EE-SX672(NPN)

#注1:测定条件为无力矩的理论数据, 根据力矩和加速度数据会相应改变, 具体请参考选型软件。
#Note1:Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.
#注2: 皮带轮原始导程为100mm, 标准品默认附减速机构, 减速后导程为40mm。
#Note 2:Pulley's original lead is 100mm,which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

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亚标全密式同步带驱动型 YTC170
Sub-standard full-density synchronous belt drive type

YTC170-4P-D01

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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4

YTC170-4P-D02

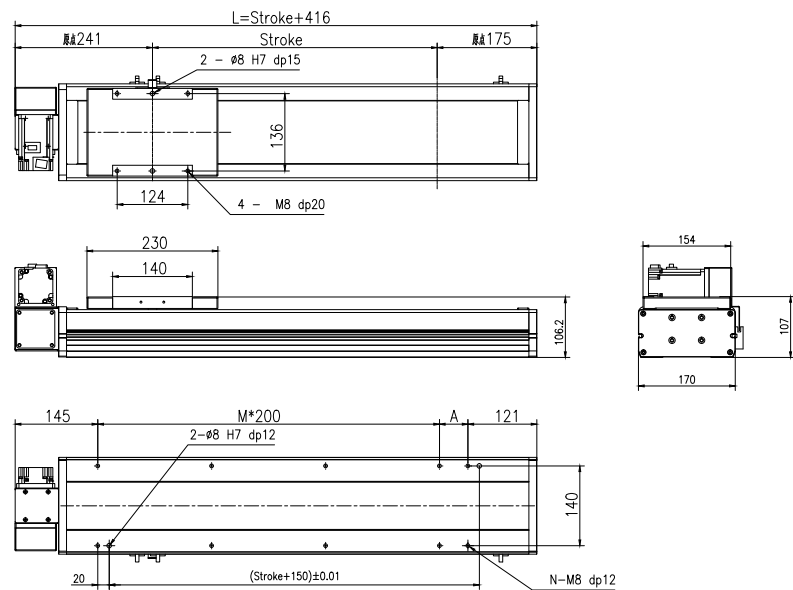
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4

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YTC 170 亚标全密式同步带驱动型
Sub-standard full-density synchronous belt drive type

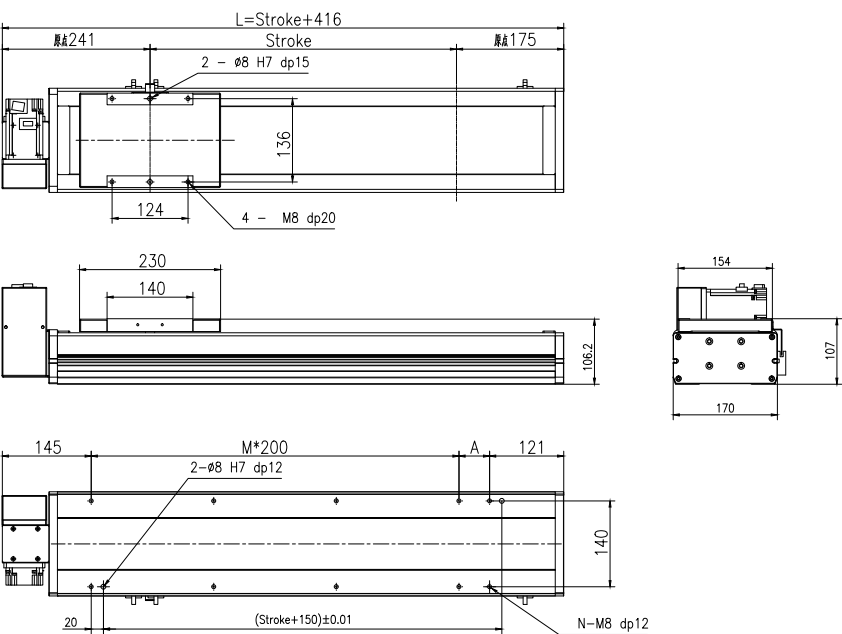
YTC170-4P-D03



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4

YTC170-4P-D04

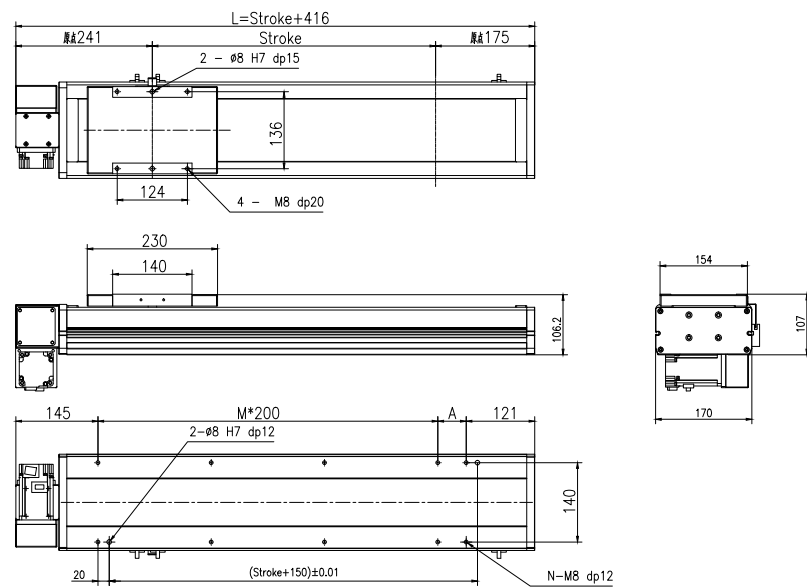


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4

亚标全密式同步带驱动型 YTC 170
Sub-standard full-density synchronous belt drive type

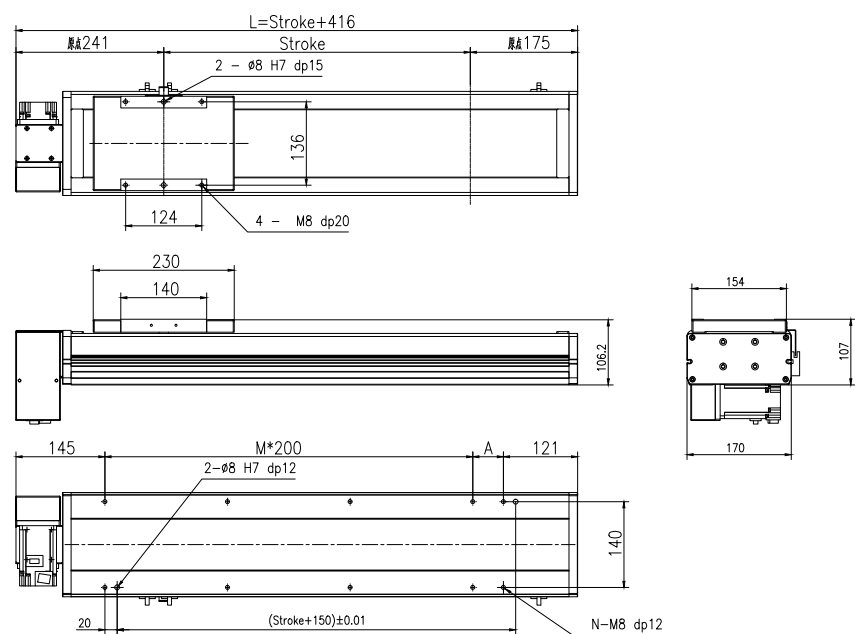
YTC170-4P-D05



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4

YTC170-4P-D06

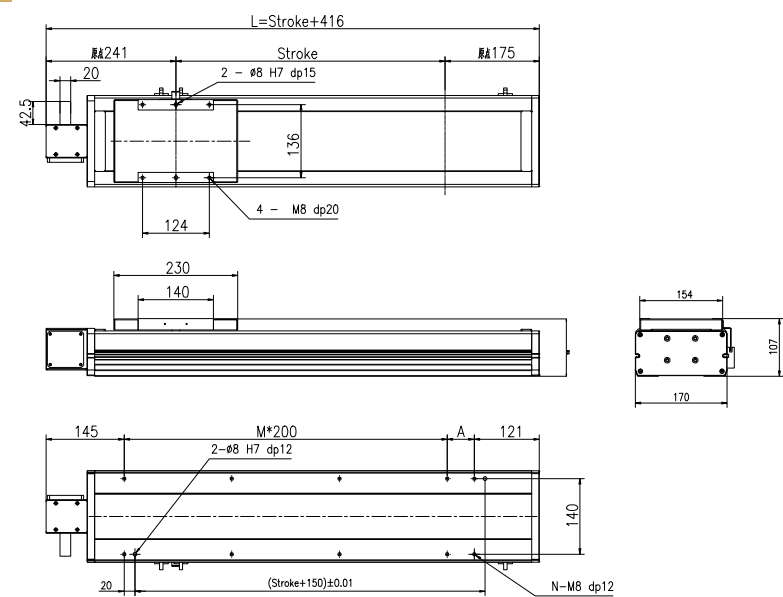


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4

YTC 170 亚标全密式同步带驱动型
Sub-standard full-density synchronous belt drive type

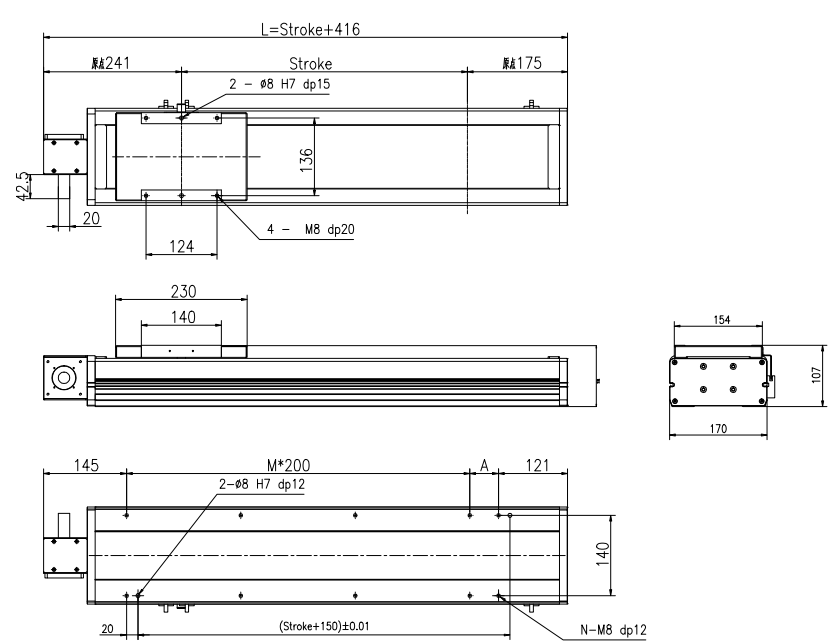
YTC170-4P-D07



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4

YTC170-4P-D08

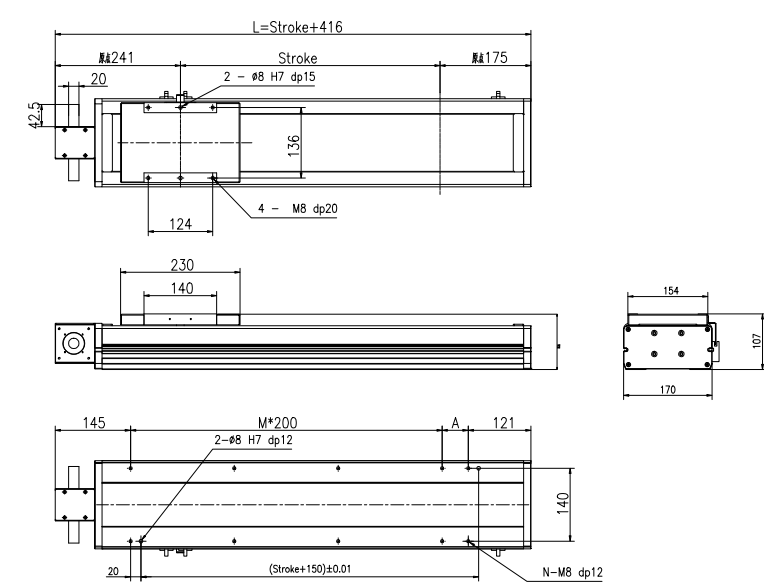


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4

亚标全密式同步带驱动型 YTC 170
Sub-standard full-density synchronous belt drive type

YTC170-4P-D09



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4

YTC220 亚标全密式同步带驱动型

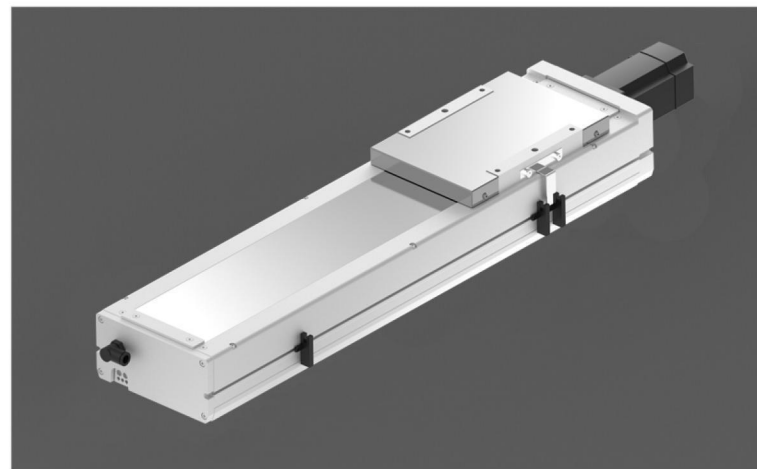
Sub-standard full-density synchronous belt drive type

订购型号代码 Code

YTC220	-	500	-	DB	-	4P	-	D01	-	M40	-	P3	-	A001
本体型号 Item NO.	行程 Stroke	辅助滑块 Auxiliary Block	直线导轨滑块数量 Block Quantity	马达方向 Motor Mounting Direction	马达厂牌、功率 Motor Brand - Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.							
	100-4000, 间隔Gap100	未填写:单滑块 DB...辅助滑块	4P	D01 D02 D03 D04 D05 D06 D07 D08 D09	M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台达 Delta 75 750W 1K -	P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 No Mark/No Sensor	未标记: 无 NoMark/NoSensor							

注:辅助滑块选项相关参数参见样本P217

注:辅助滑块选项相关参数参见样本P217



最大动态力和力矩 Max Permissible Forces And Torques

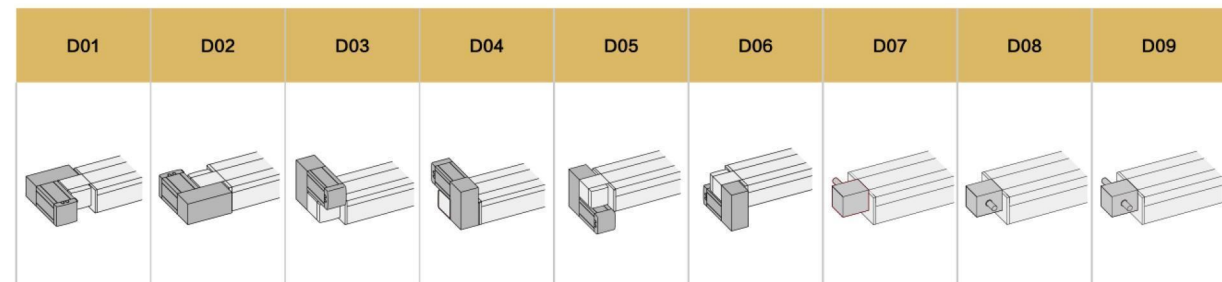
Type	4P
■F(y) (N)	10333.3
■F(z) (N)	10333.3
■M(x) (N·m)	1810
■M(y) (N·m)	2052
■M(z) (N·m)	2052

除了满足最大负载和力矩外,还必须满足以下公式:

All forces and torques relate to the following:

$$\frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

马达安装方向 Motor Mounting Position Version



基本规格 Basic Specification

YTC 220		4P(导轨滑块数量) Block Quantity
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	± 0.05
	皮带轮导程 Pulley Lead (mm)	100 / 40 #注2#Note2
	皮带型号 Belt type	5M-50
	最高速度 Maximum Speed (mm/s)	2000
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg) 85 垂直使用Vertical (kg) /
	最大空载扭矩 Max. No-load Driving Torque (N·m)	0.3
	最大扭矩 Max. Driving Torque (N·m)	6
基本规格 Basic Specification	标准行程 Stroke (mm)	100-4000 mm/ 100 Pitch
	AC伺服马达容量 AC Servo Motor Output (W)	750
	高刚性直线导轨 Linear Guide (mm)	25# × 2 PCS
	皮带宽度 Belt Width	50
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	220 × 138
原点感应器 Home Sensor		EE-SX672(NPN)

#注1:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。

#Note1:Date changes relevantly according to different torque and accelerated speed.Please refer to the LIMON calculate software.

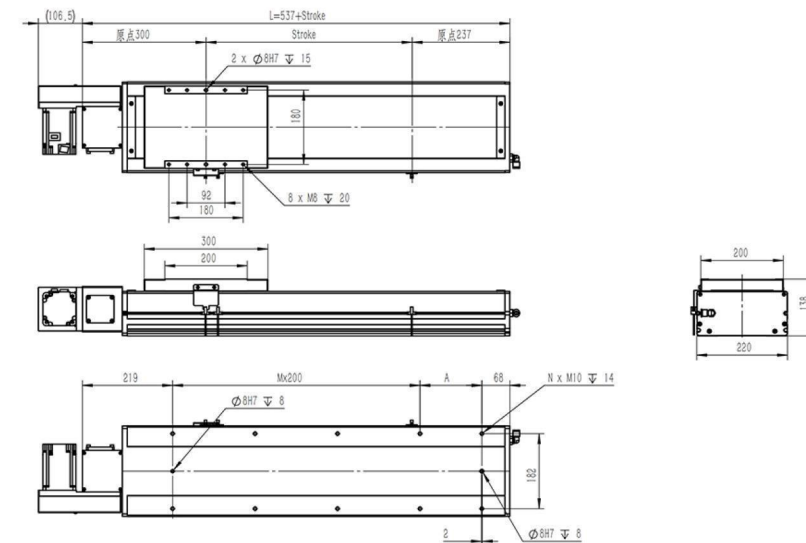
#注2:皮带轮原始导程为100mm,标准品默认附减速机构,减速后导程为40mm。

#Note 2:Pulley's original lead is 100mm,which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

亚标全密式同步带驱动型 YTC220

Sub-standard full-density synchronous belt drive type

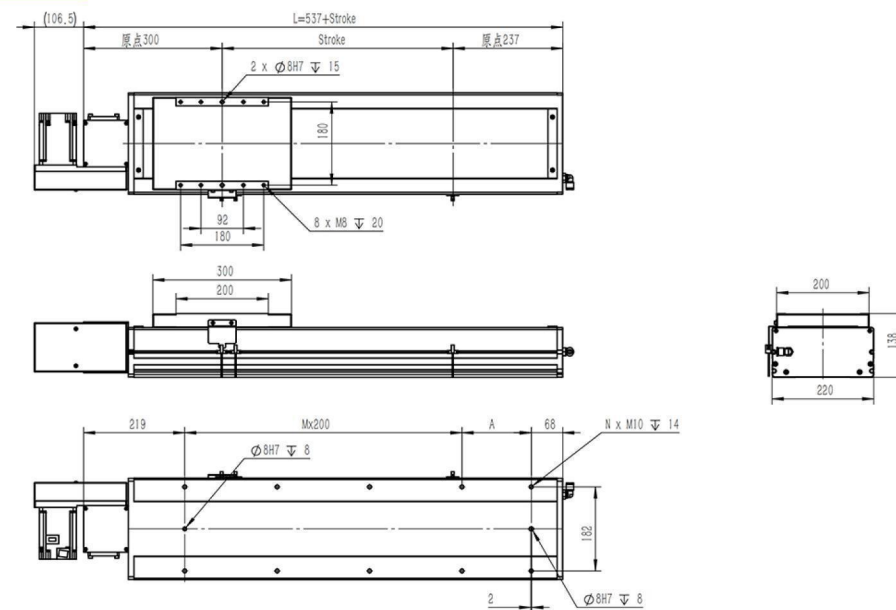
YTC220-4P-D01



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行程Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	637	737	837	937	1037	1137	1237	1337	1437	1537	1637	1737	1837	1937	2037	2137	2237	2337	2437	2537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
重量Weight(kg)	33.0	35.4	37.8	40.2	42.6	45.0	47.4	49.8	52.2	54.6	57.0	59.4	61.8	64.2	66.6	69.0	71.4	73.8	76.2	78.6
行程Stroke(mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2637	2737	2837	2937	3037	3137	3237	3337	3437	3537	3637	3737	3837	3937	4037	4137	4237	4337	4437	4537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21
N	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46
重量Weight(kg)	81.0	83.4	85.8	88.2	90.6	93.0	95.4	97.8	100.2	102.6	105.0	107.4	109.8	112.2	114.6	117.0	119.4	121.8	124.2	126.6

YTC220-4P-D02

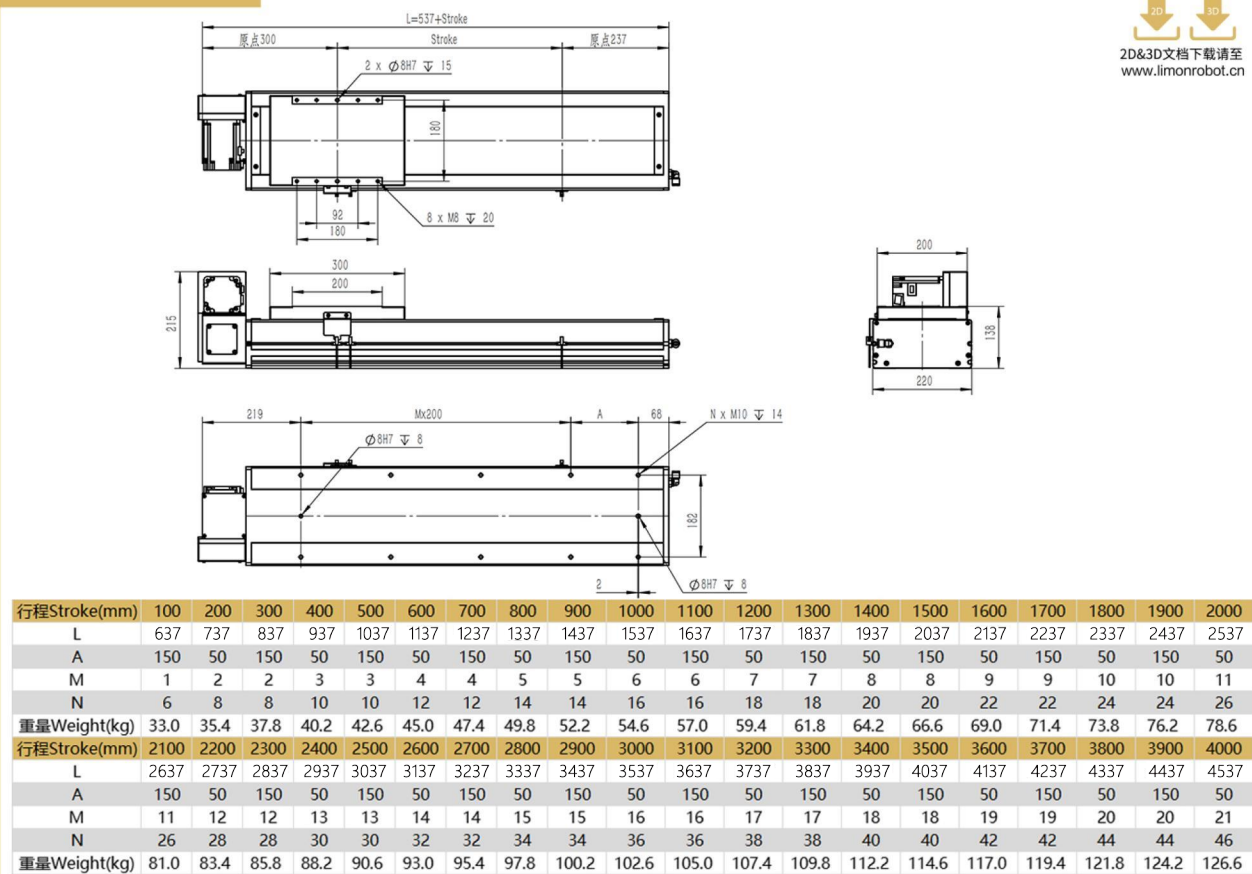


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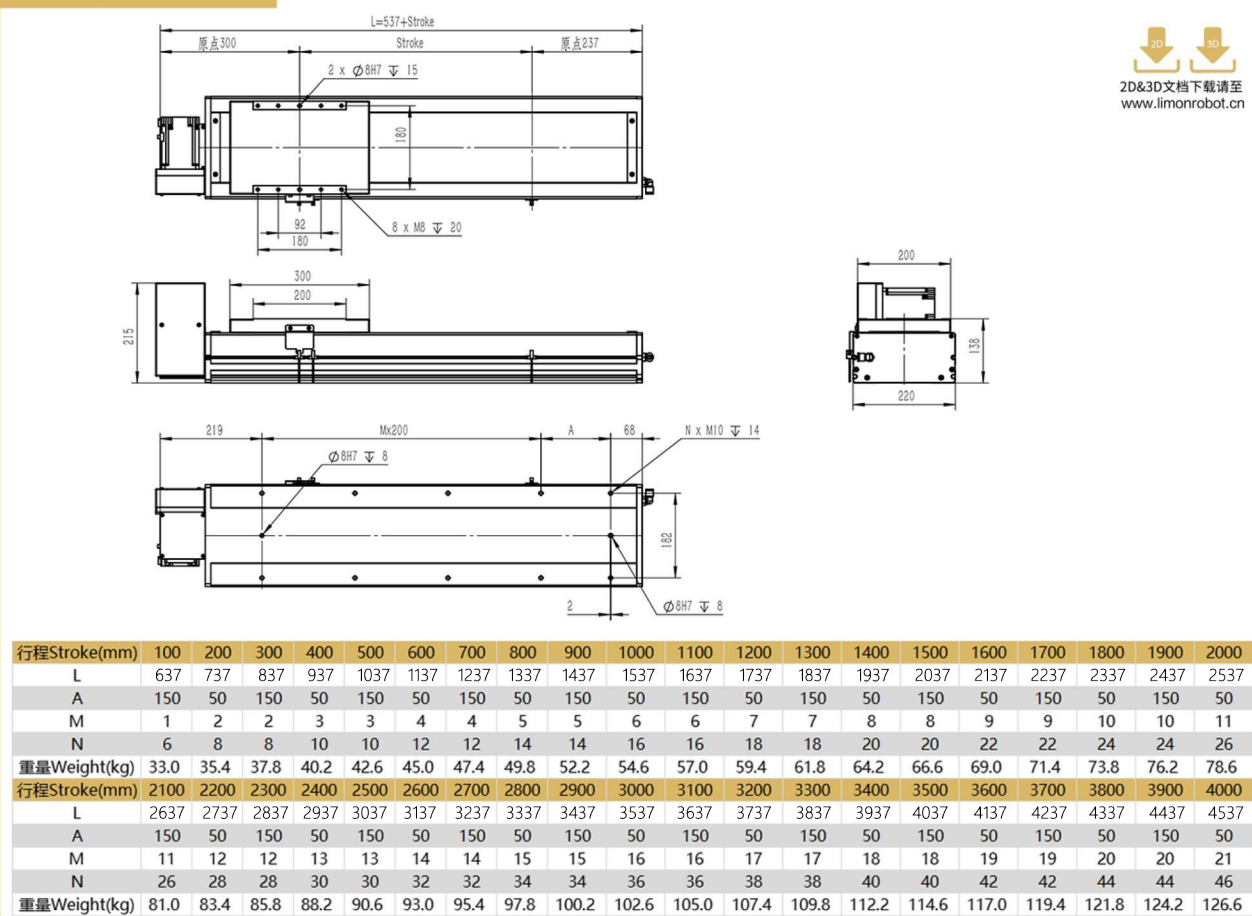
行程Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	637	737	837	937	1037	1137	1237	1337	1437	1537	1637	1737	1837	1937	2037	2137	2237	2337	2437	2537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
重量Weight(kg)	33.0	35.4	37.8	40.2	42.6	45.0	47.4	49.8	52.2	54.6	57.0	59.4	61.8	64.2	66.6	69.0	71.4	73.8	76.2	78.6
行程Stroke(mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2637	2737	2837	2937	3037	3137	3237	3337	3437	3537	3637	3737	3837	3937	4037	4137	4237	4337	4437	4537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21
N	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46
重量Weight(kg)	81.0	83.4	85.8	88.2	90.6	93.0	95.4	97.8	100.2	102.6	105.0	107.4	109.8	112.2	114.6	117.0	119.4	121.8	124.2	126.6

YTC 220 亚标全密式同步带驱动型
Sub-standard full-density synchronous belt drive type

YTC220-4P-D03

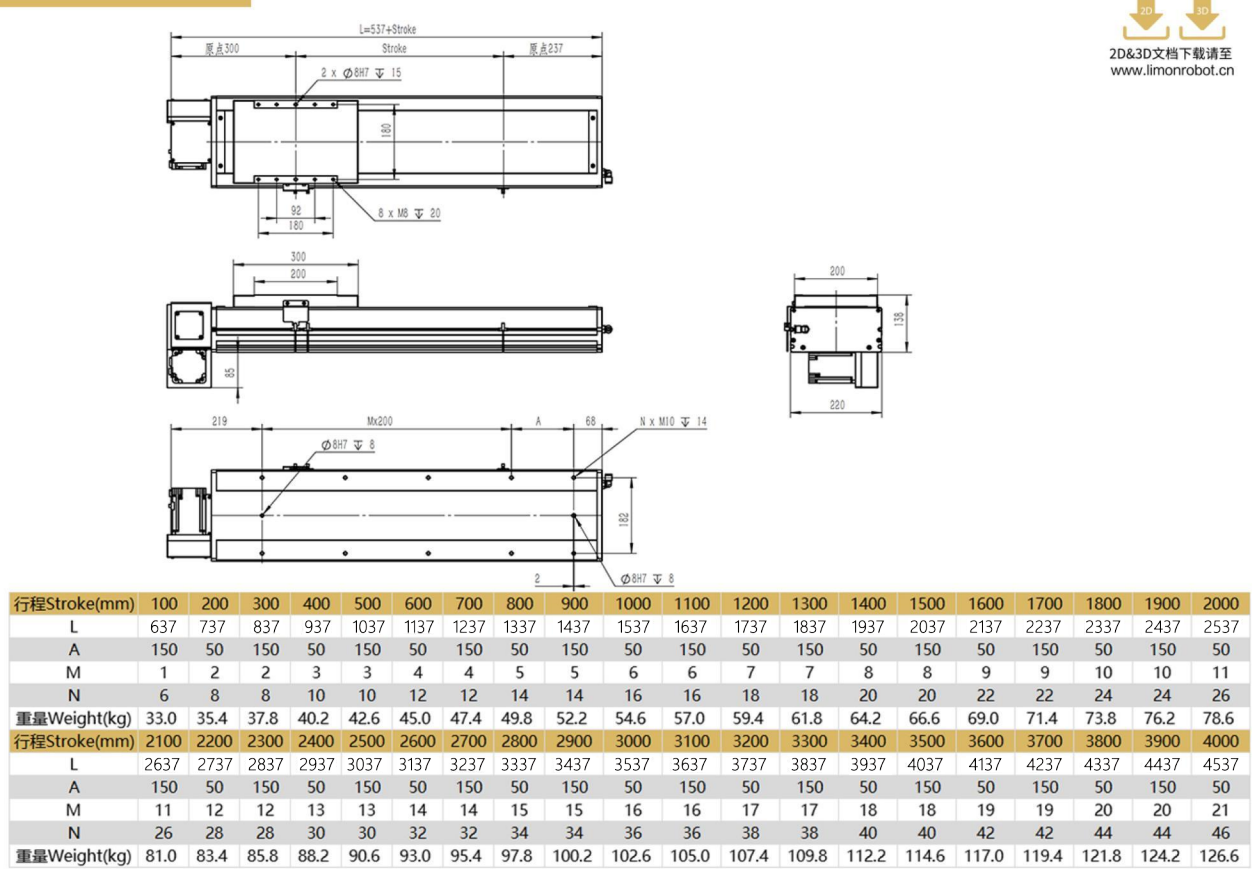


YTC220-4P-D04

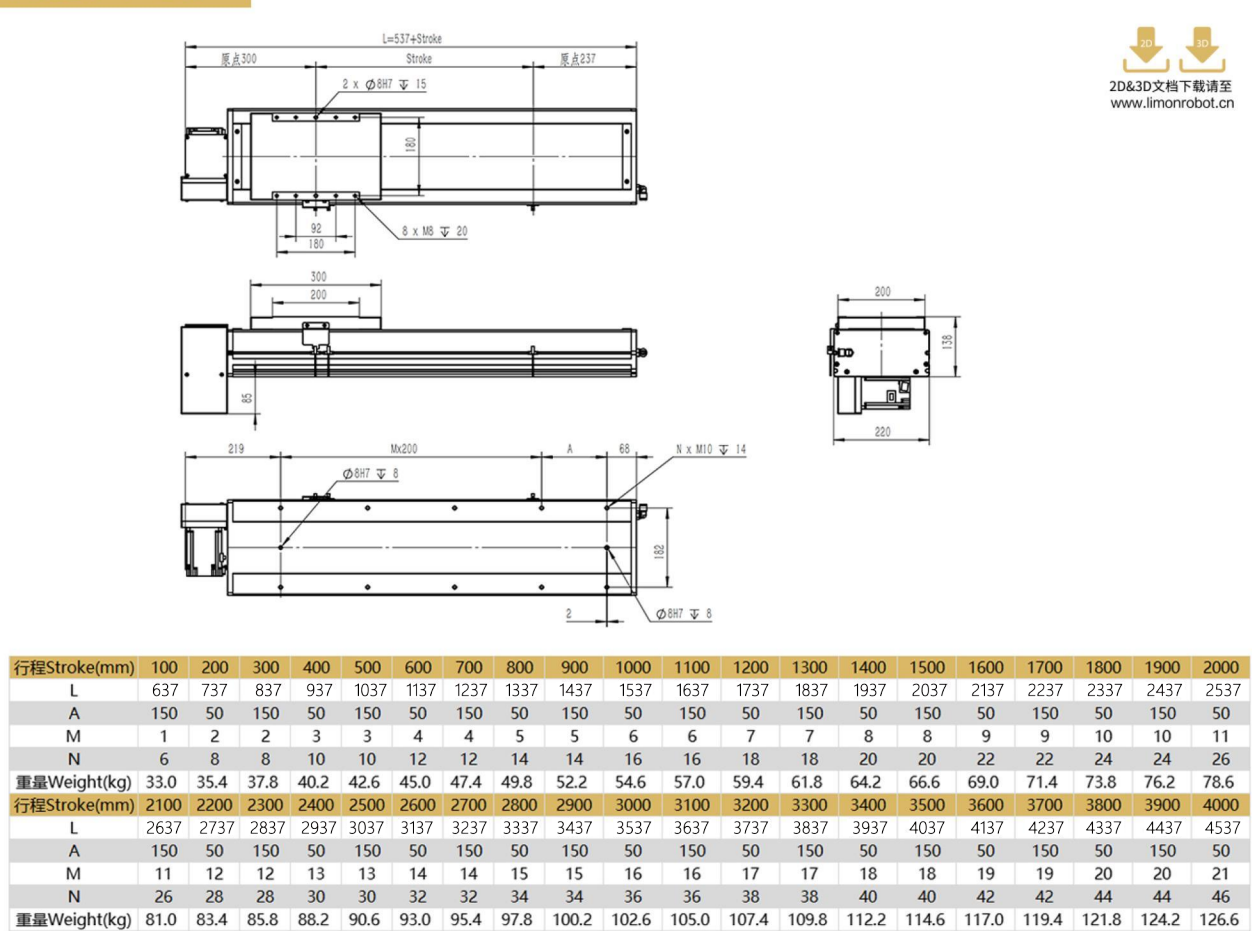


亚标全密式同步带驱动型 YTC 220
Sub-standard full-density synchronous belt drive type

YTC220-4P-D05

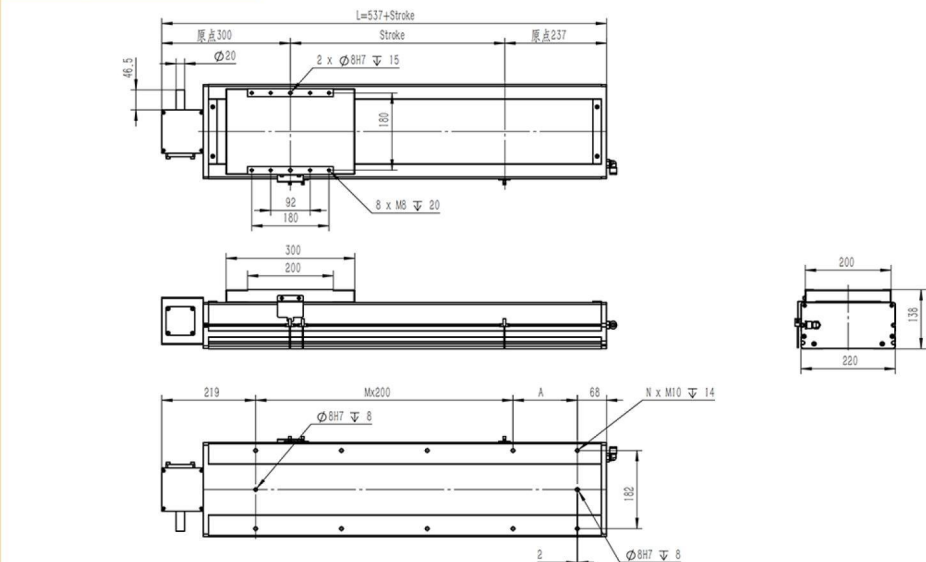


YTC220-4P-D06



YTC 220 亚标全密式同步带驱动型
Sub-standard full-density synchronous belt drive type

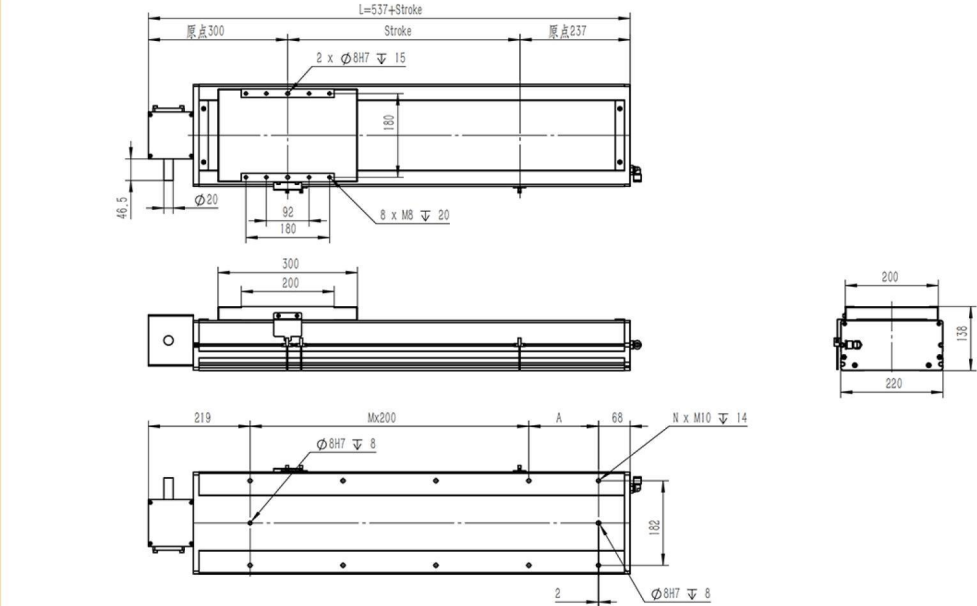
YTC220-4P-D07



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行程Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	637	737	837	937	1037	1137	1237	1337	1437	1537	1637	1737	1837	1937	2037	2137	2237	2337	2437	2537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
重量Weight(kg)	33.0	35.4	37.8	40.2	42.6	45.0	47.4	49.8	52.2	54.6	57.0	59.4	61.8	64.2	66.6	69.0	71.4	73.8	76.2	78.6
行程Stroke(mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2637	2737	2837	2937	3037	3137	3237	3337	3437	3537	3637	3737	3837	3937	4037	4137	4237	4337	4437	4537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21
N	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46
重量Weight(kg)	81.0	83.4	85.8	88.2	90.6	93.0	95.4	97.8	100.2	102.6	105.0	107.4	109.8	112.2	114.6	117.0	119.4	121.8	124.2	126.6

YTC220-4P-D08

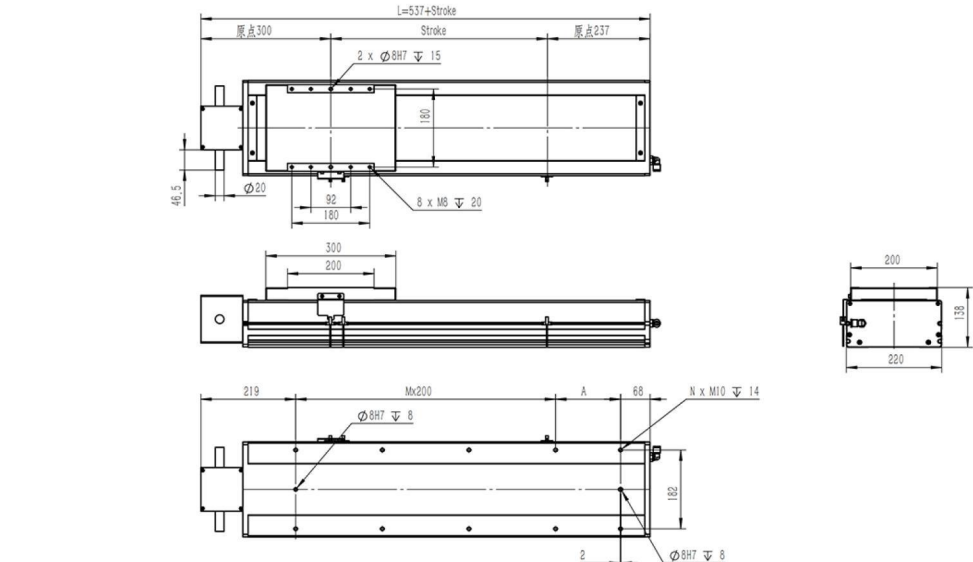


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行程Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	637	737	837	937	1037	1137	1237	1337	1437	1537	1637	1737	1837	1937	2037	2137	2237	2337	2437	2537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
重量Weight(kg)	33.0	35.4	37.8	40.2	42.6	45.0	47.4	49.8	52.2	54.6	57.0	59.4	61.8	64.2	66.6	69.0	71.4	73.8	76.2	78.6
行程Stroke(mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2637	2737	2837	2937	3037	3137	3237	3337	3437	3537	3637	3737	3837	3937	4037	4137	4237	4337	4437	4537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21
N	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46
重量Weight(kg)	81.0	83.4	85.8	88.2	90.6	93.0	95.4	97.8	100.2	102.6	105.0	107.4	109.8	112.2	114.6	117.0	119.4	121.8	124.2	126.6

亚标全密式同步带驱动型 YTC 220
Sub-standard full-density synchronous belt drive type

YTC220-4P-D09



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行程Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	637	737	837	937	1037	1137	1237	1337	1437	1537	1637	1737	1837	1937	2037	2137	2237	2337	2437	2537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
重量Weight(kg)	33.0	35.4	37.8	40.2	42.6	45.0	47.4	49.8	52.2	54.6	57.0	59.4	61.8	64.2	66.6	69.0	71.4	73.8	76.2	78.6
行程Stroke(mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2637	2737	2837	2937	3037	3137	3237	3337	3437	3537	3637	3737	3837	3937	4037	4137	4237	4337	4437	4537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21
N	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46
重量Weight(kg)	81.0	83.4	85.8	88.2	90.6	93.0	95.4	97.8	100.2	102.6	105.0	107.4	109.8	112.2	114.6	117.0	119.4	121.8	124.2	126.6

半密式齿轮齿条驱动型

Semi-tight rack and pinion drive type



YRO170



YRO220



YRO270

YRO 170 半密式齿轮齿条驱动型
Semi-tight rack and pinion drive type

订购型号代码 Code

YRO170 - L26 - 1000 - 6P - MS - GB3 - 22 - P3 - A001

Table with 2 columns: Item NO. and specifications. Rows include Lead (L13:13mm, L26:26mm, L44:44mm), Stroke (900-5500), Block Quantity (6P), Motor Mounting Direction, Reducer specifications, Hole dimensions of Pinion, Photoelectric Sensor (P1: 1个 1PC, P2: 2个 2PCS, P3: 3个 3PCS), and Special Order No. (未标记, 无 NoMark; No Sensor).



最大静态力和力矩
Max Static Forces And Torques

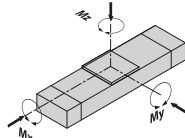
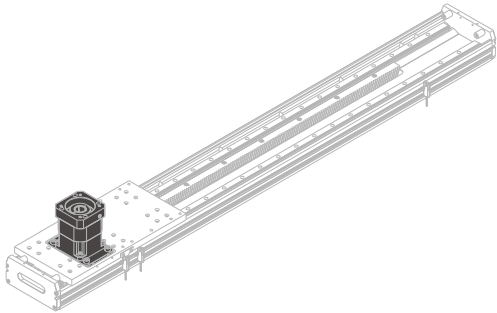


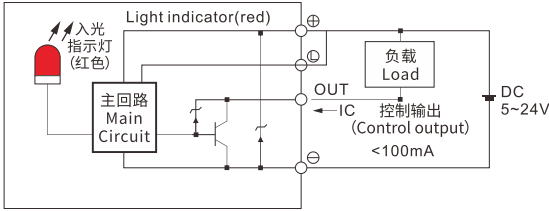
Table with 2 columns: Type and YRO 170. Rows show M(x), M(y), and M(z) values in N·m.

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:
Mx max. + My max. + Mz max. ≤ 1

马达安装方向 Motor Mounting Position Version



感应器接线图(原点及端点) Sensor Layout



基本规格 Basic Specification

Table with 2 columns: YRO and 170. Rows include Repetitive Accuracy, Rack and Pinion Lead, Maximum Speed, Maximum Payload, Reducer Speed Ratio, Rate Thrust, Stroke, AC Servo Motor Output, Linear Guide, and Home Sensor.

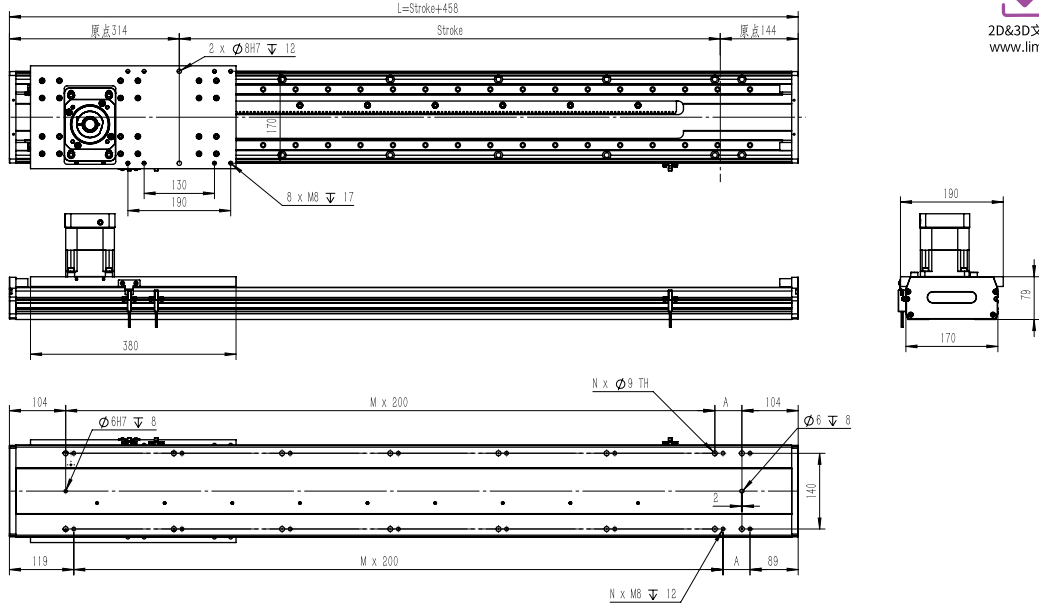
#注1: 马达加减速设定0.2秒。
#Note1: Acceleration and deacceleration value is set 0.2 second.

容许负载力矩表 Allowable Overhang

Table showing allowable overhang for horizontal, wall, and vertical installations. Columns include installation type, load (A, B, C), and stroke (13, 26, 44 mm).

半密式齿轮齿条驱动型 YRO 170
Semi-tight rack and pinion drive type

YRO 170



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Large table with 28 columns (Stroke 900-3200 mm) and 6 rows (L, A, M, N, Weight, Stroke). It provides detailed specifications for various stroke lengths.

YRO 220 半密式齿轮齿条驱动型
Semi-tight rack and pinion drive type

订购型号代码 Code

YRO220 - L26 - 1000 - 6P - MS - GB3 - 22 - P3 - A001

Table with 9 columns: Item NO., Lead, Stroke, Block Quantity, Motor Mounting Director, Reducer specifications, Home sensor of Pinion, Photoelectric Sensor, Special Order No.

注: 齿轮转一圈实际导程133.33mm,正确的计算方式为 导程÷减速比x电机转速=实际速度。



最大静态力和力矩
Max Static Forces And Torques

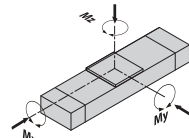
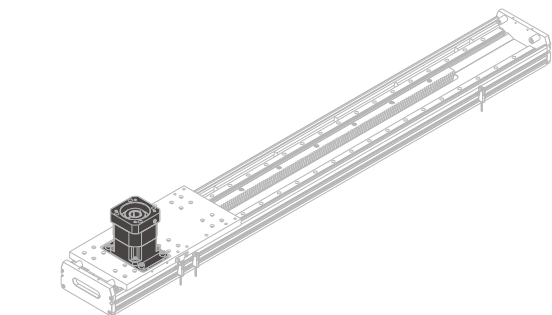


Table with 2 columns: Type, YRO 220. Rows for M(x), M(y), and M(z) torques.

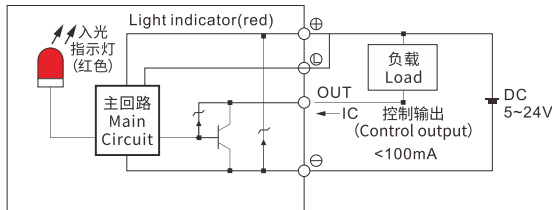
除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:

Formula: (Mx max / Mx) + (My max / My) + (Mz max / Mz) ≤ 1

马达安装方向 Motor Mounting Position Version



感应器接线图(原点及端点) Sensor Layout



基本规格 Basic Specification

Table with 3 columns: YRO, 220. Rows for technical parameters like Repetitive Accuracy, Rack and Pinion Lead, Maximum Speed, etc.

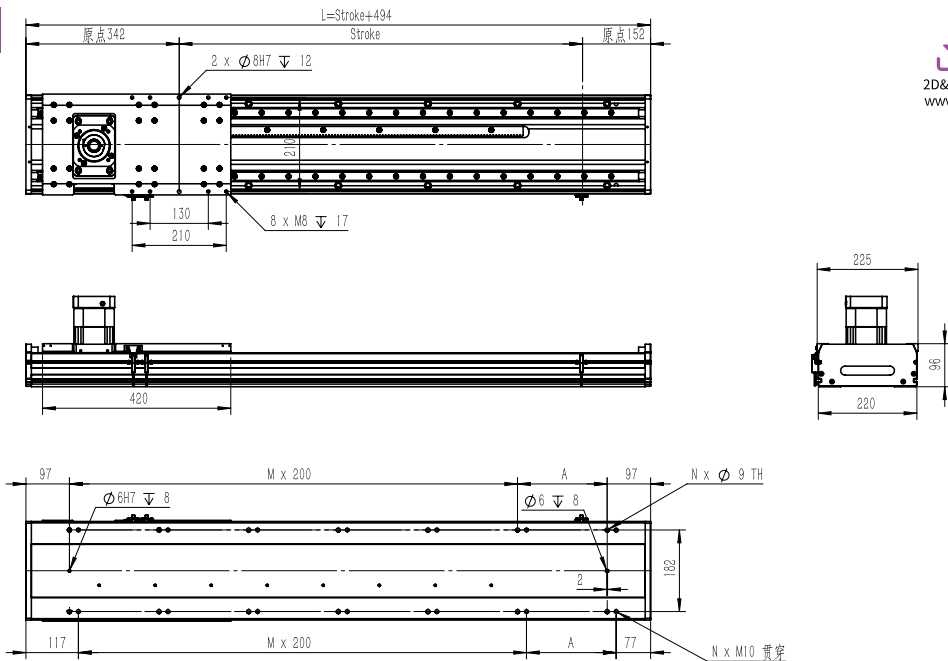
#注1: 马达加减速设定0.2秒。
#Note1: Acceleration and deacceleration value is set 0.2 second.

容许负载力矩表 Allowable Overhang

Table showing allowable overhang for horizontal, wall, and vertical installations with different lead lengths (13, 26, 44 mm).

半密式齿轮齿条驱动型 YRO 220
Semi-tight rack and pinion drive type

YRO 220



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Large table with 28 columns (Stroke 900-3200 mm) and 5 rows (L, A, M, N, Weight) providing detailed specifications for the YRO 220 series.

YRO 270半密式齿轮齿条驱动型
Semi-tight rack and pinion drive type

订购型号代码 Code

Table with 9 columns: YRO270, L40, 1000, 6P, MS, GB4, 32, P3, A001. Sub-headers include Item NO., Lead, Stroke, Block Quantity, Motor Mounting Direction, Reducer specifications, Hole dimension of Pinion, Photoelectric Sensor, and Special Order No.

注: 齿轮转一圈实际导程 200 mm, 正确的计算方式为 导程 ÷ 减速比 x 电机转速 = 实际速度。



最大静态力和力矩
Max Static Forces And Torques

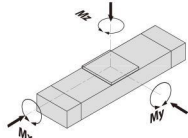
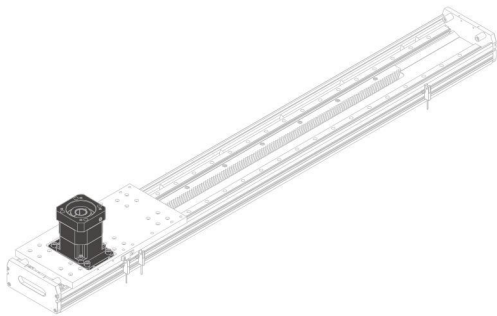


Table with 2 columns: Type, YRO 270. Rows show M(x), M(y), and M(z) values.

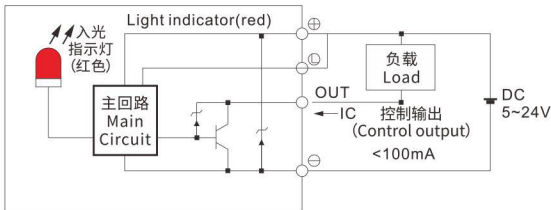
除了满足最大负载和力矩外, 还必须满足以下公式:
All forces and torques relate to the following:

Formula: (Mx max / My max) + (My max / Mz max) + (Mz max / Mx max) ≤ 1

马达安装方向 Motor Mounting Position Version



感应器接线图(原点及端点) Sensor Layout



基本规格 Basic Specification

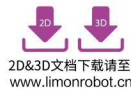
Table with 3 columns: YRO, 270. Rows include Repetitive Accuracy, Rack and Pinion Lead, Maximum Speed, Maximum Payload, Reducer Speed Ratio, Rate Thrust, Stroke, AC Servo Motor Output, Linear Guide, and Home Sensor.

#注1: 马达加减速设定0.2秒。
#Note1: Acceleration and deacceleration value is set 0.2 second.

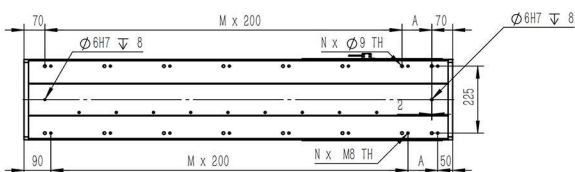
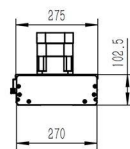
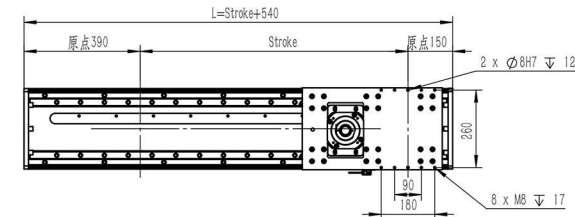
容许负载力矩表 Allowable Overhang

Table with 3 main sections: Horizontal Installation, Wall Installation, and Vertical Installation. Each section has a diagram and a table of allowable overhang values for different lead lengths and loads.

半密式齿轮齿条驱动型 YRO 270
Semi-tight rack and pinion drive type



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Large table with 27 columns (Stroke from 900 to 3200 mm) and 10 rows (L, A, M, N, weight, stroke, weight, L, A, M, N, weight).

有铁芯式线性马达驱动
Linear Motor Driven Type With Iron Core



LC 50 / 75 / 100 / 125



GLC 50 / 80

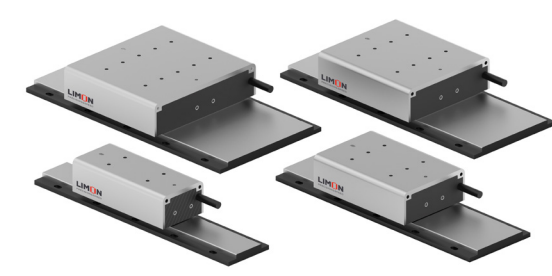


RLO 125 / 150 / 175 / 220 / 260



RLC 125 / 150 / 175 / 220 /

LC系列有铁芯直线电机
LC Series Ironcore Linear Motor



有铁芯直线电机, 又称平板电机, 以其卓越的推力、散热性能在重负载、高加减速、高速、长行程运动中表现出色。由于其体积大、线圈单元大, 内部集成增磁性材料, 成为点位精度和轨迹精度应用的理想选择。生产工艺积累和电磁优化使莱盟有铁芯直线电机具备超低顿振效应, 在推力和稳定性方面表现卓越。标规产品的持续推力范围为C [120-800]N, 峰值范围为C [300-2400]N, 几乎涵盖了工业自动化运动应用的所有需求。同时, 莱盟支持针对特殊客户应用的有铁芯直线电机定制。

产品特征 Product features

- ★ 低顿挫、热散性能优异
Low setback, excellent heat dissipation performance
- ★ 推力强大、承载重负载
- ★ 高加减速、高运行速度
High acceleration and deceleration, high operating speed
- ★ 功率范围覆盖广泛
Wide coverage of power range
- ★ 可根据客户需求灵活定制产品
Flexible customization of products according to customer needs

应用领域 Application field

- ★ 数控机床
CNC machining
- ★ 半导体设备
Semiconductor equipment
- ★ 医疗器械
Medical devices
- ★ 激光切割机
Laser cutter
- ★ 3D打印机
3D printer
- ★ 纺织机械
Textile machinery
- ★ 电子设备生产线
Electronic equipment production line
- ★ 飞行模拟器
Flight simulator
- ★ 机器人
Robot
- ★ 包装机械
Packaging machinery

命名规则 Naming Rule

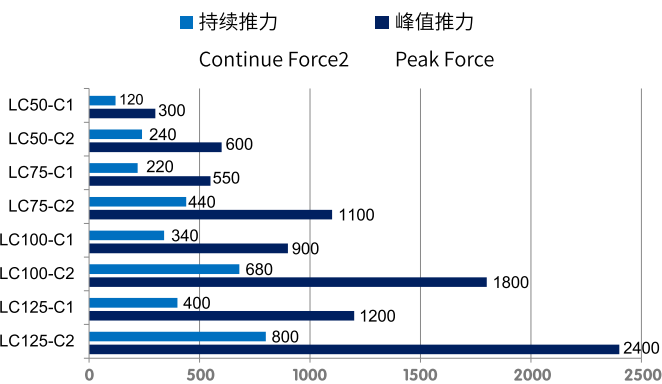
定子命名规则 Naming Rule of Motor Stator

LC	50	C1	T	H	W	05
有铁芯直线电机 Linear motor with iron core	产品系列 Product Series	具体产品型号 Specific product model	温度传感器 Temperature Sensor	Hall传感器 Hall Sensor	冷却形式 Cooling form	出线长度 Outlet length
			- 无温度传感器 T 有温度传感器	- 无Hall传感器 H 有Hall传感器	- 自然冷却 A 空气冷却 W 水冷却	03 300mm 05 500mm 10 1000mm 30 3000mm 50 5000mm

定子命名规则 Naming Rule of Motor Stator

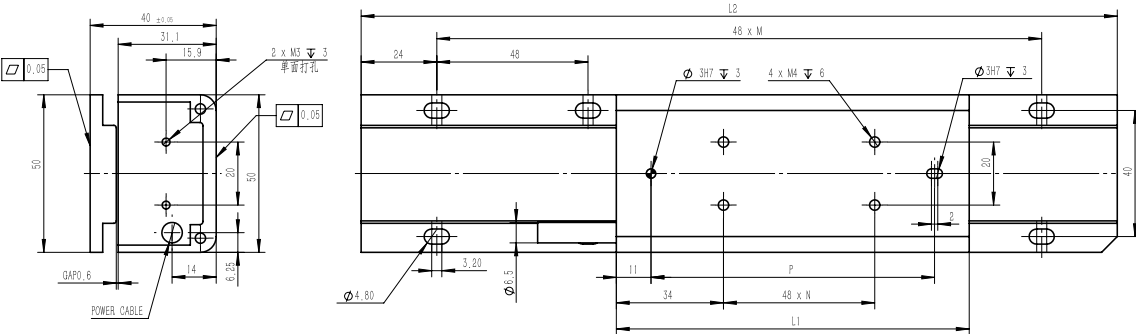
LC	50	M	48
有铁芯直线电机 Linear motor with iron core	电机系列 Motor Series	定子产品 Stator product	定子长度 Stator Length
			48 144 240

The iron-core linear motor, or flat motor, excels in thrust and heat dissipation for heavy-duty, high-speed, and precision applications. Limon's expertise and electromagnetic optimization result in low vibration, ensuring superior stability. With a standard thrust range of C [120-800]N and a peak range of C [300-2400]N, it effectively meets diverse industrial automation motion needs. Customization options are available for specific customer applications.



LC系列有铁芯直线电机 LC 50
LC Series Ironcore Linear Motor

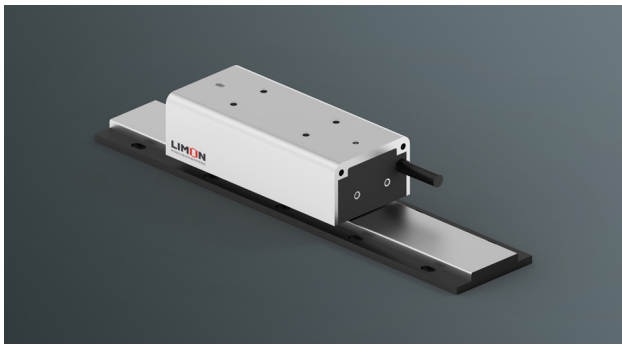
LC 50



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尺寸参数 Dimension Parameter

电机型号 Electric Motor Item No.	L1	N	P	L2	M
定子型号 Coil Item No.					
LC50-C1	112	1	90	/	/
LC50-C2	208	3	186	/	/
LC50-M48	/	/	/	48	0
LC50-M144	/	/	/	144	2
LC50-M240	/	/	/	240	4

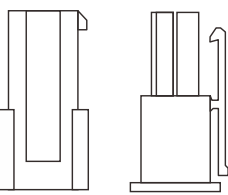


性能参数 Performance Parameter

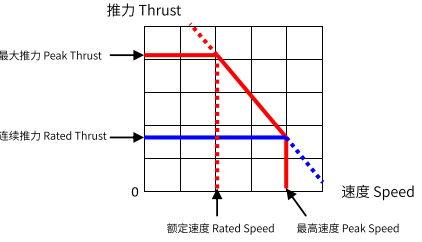
定子型号 Coil Item No.	持续推力 Continue Force (n)	峰值推力 Peak Force (n)	负载 Load (1G)	额定电流 Rated Current (A)	最大电流 Peak Current (A)	推力常数 Force Constant (n/arms)	电阻 Resistance (Ω)	电感 Inductance (mh)	质量 Weight (kg)	极距 Polar Distance (mm)	额定速度 Rated Speed (m/s)	最大速度 Maximum Speed (m/s)	相互吸力 Mutual Attraction (N)
LC50-C1	120	300	25	3.6	9.1	33	3.5	18.1	0.83	24	5	8	600
LC50-C2	240	600	50	3.6	9.1	66	7	36.2	1.6	24	2.6	4.1	1200

插针编号Pin no.	信号源Signal	线缆编号Wire no.
1	Phase U	1
2	Phase V	2
3	Phase W	3
4	FG	Yellow Green

◎ Note 1
电机规格 Specification of motor cable
外径尺寸Outer diameter (mm): φ6.5mm
偶发弯曲Occasional flexing: 7.5 × outer diameter
固定安装Fixed installation: 4 × outer diameter



公端子Public Terminal:
HX42001-31PT
公端子壳体Male terminal housing:
HX42000-4R
母端子Mother Terminal:
HX42000-31RT
母端子壳体Mother terminal housing:
HX42001-4P



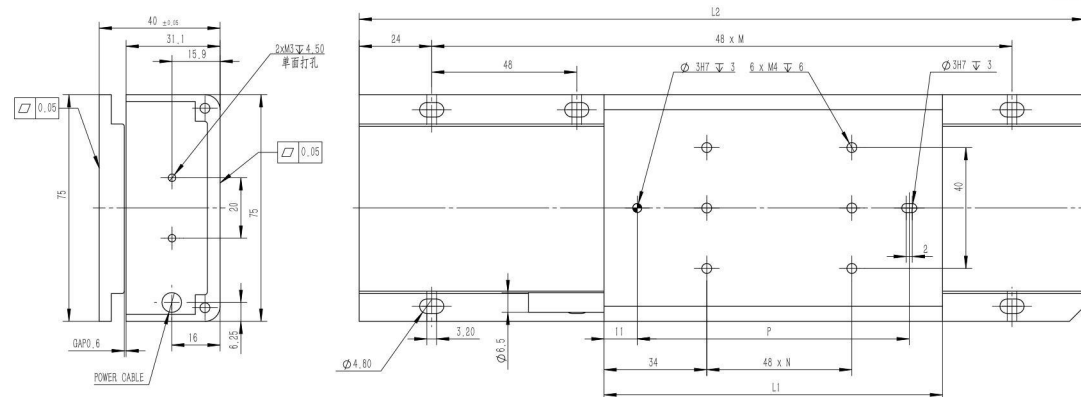
推力速度曲线定义图
Definition diagram of thrust speed curve

LC 75 LC系列有铁芯直线电机

LC Series Ironcore Linear Motor

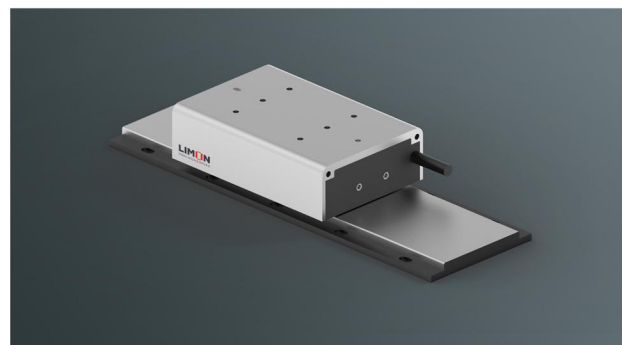
LC 75

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尺寸参数 Dimension Parameter

	电机型号	L1	N	P	L2	M
	Electric Motor Item No.					
定子型号 Coil Item No.	LC75-C1	112	1	90	/	/
	LC75-C2	208	3	186	/	/
定子型号 Stator Item No.	LC75-M48	/	/	/	48	0
	LC75-M144	/	/	/	144	2
	LC75-M240	/	/	/	240	4



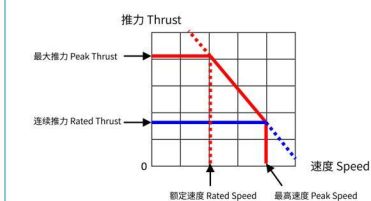
性能参数 Performance Parameter

定子型号 Coil Item No.	持续推力 Continue Force (n)	峰值推力 Peak Force (n)	负载 Load (1G)	额定电流 Rated Current (A)	最大电流 Peak Current (A)	推力常数 Force Constant (n/arms)	电阻 Resistance (Ω)	电感 Inductance (mh)	质量 Weight (kg)	极距 Polar Distance (mm)	额定速度 Rated Speed (m/s)	最大速度 Maximum Speed (m/s)	相互吸力 Mutual Attraction (N)
LC75-C1	220	550	40	3.6	9.1	61	5.4	30.4	1.3	24	2.6	4.1	1100
LC75-C2	440	1100	80	7.2	18.2	61	2.8	16.3	2.4	24	2.6	4.1	2200

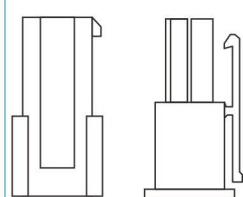
插针编号Pin no.	信号源Signal	线缆编号Wire no.
1	Phase U	1
2	Phase V	2
3	Phase W	3
4	FG	Yellow Green

◎ Note 1

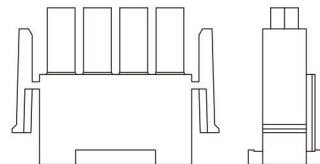
电机规格 Specification of motor cable
外径尺寸Outer diameter (mm): $\phi 6.5\text{mm}$
偶发弯曲Occasional flexing: $7.5 \times$ outer diameter
固定安装Fixed installation: $4 \times$ outer diameter



推力速度曲线定义图
Definition diagram of thrust speed curve



公端子Public Terminal:
HX42001-31PT
公端子壳体Male terminal housing:
HX42000-4R
母端子Mother Terminal:
HX42000-31RT
母端子壳体Mother terminal housing:
HX42001-4P



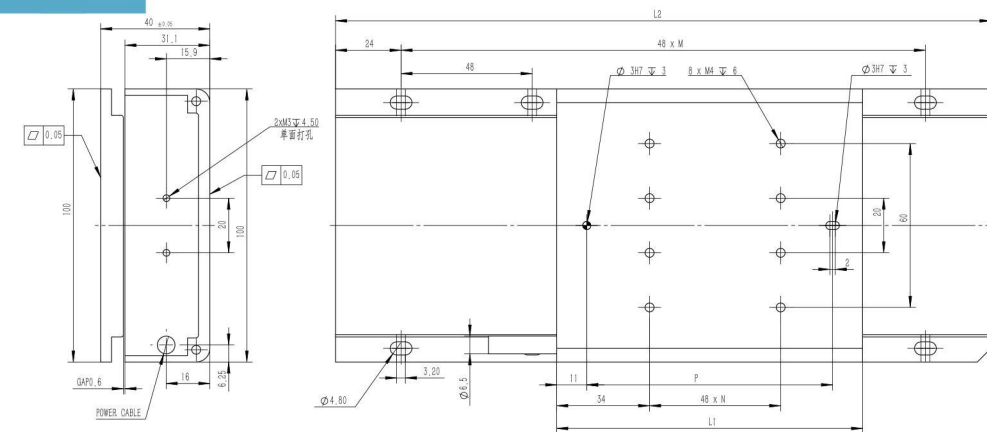
公端子Public Terminal:
HX63080-PT
公端子壳体Male terminal housing:
HX63080-4P
母端子Mother Terminal:
HX63080-RT
母端子壳体Mother terminal housing:
HX63080-4R

LC 100 LC系列有铁芯直线电机

LC Series Ironcore Linear Motor

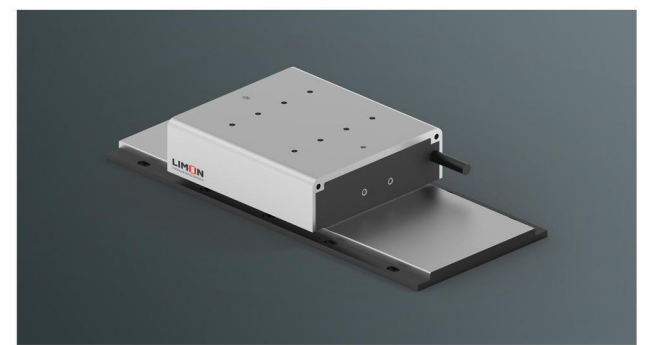
LC 100

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尺寸参数 Dimension Parameter

	电机型号	L1	N	P	L2	M
	Electric Motor Item No.					
定子型号 Coil Item No.	LC100-C1	112	1	90	/	/
	LC100-C2	208	3	186	/	/
定子型号 Stator Item No.	LC100-M48	/	/	/	48	0
	LC100-M144	/	/	/	144	2
	LC100-M240	/	/	/	240	4



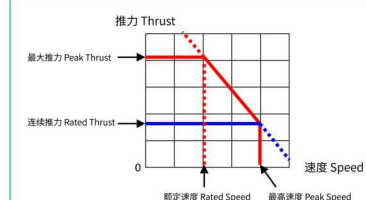
性能参数 Performance Parameter

定子型号 Coil Item No.	持续推力 Continue Force (n)	峰值推力 Peak Force (n)	负载 Load (1G)	额定电流 Rated Current (A)	最大电流 Peak Current (A)	推力常数 Force Constant (n/arms)	电阻 Resistance (Ω)	电感 Inductance (mh)	质量 Weight (kg)	极距 Polar Distance (mm)	额定速度 Rated Speed (m/s)	最大速度 Maximum Speed (m/s)	相互吸力 Mutual Attraction (N)
LC100-C1	340	900	60	3.6	9.6	94	7.5	42.3	1.8	24	2	3.1	1700
LC100-C2	680	1800	120	7.2	19.2	94	3.9	21.5	3.3	24	2	3.1	3400

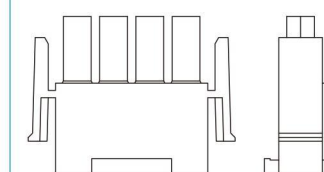
插针编号Pin no.	信号源Signal	线缆编号Wire no.
1	Phase U	1
2	Phase V	2
3	Phase W	3
4	FG	Yellow Green

◎ Note 1

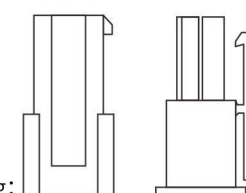
电机规格 Specification of motor cable
外径尺寸Outer diameter (mm): $\phi 6.5\text{mm}$
偶发弯曲Occasional flexing: $7.5 \times$ outer diameter
固定安装Fixed installation: $4 \times$ outer diameter



推力速度曲线定义图
Definition diagram of thrust speed curve



公端子Public Terminal:
HX42001-31PT
公端子壳体Male terminal housing:
HX42000-4R
母端子Mother Terminal:
HX42000-31RT
母端子壳体Mother terminal housing:
HX42001-4P

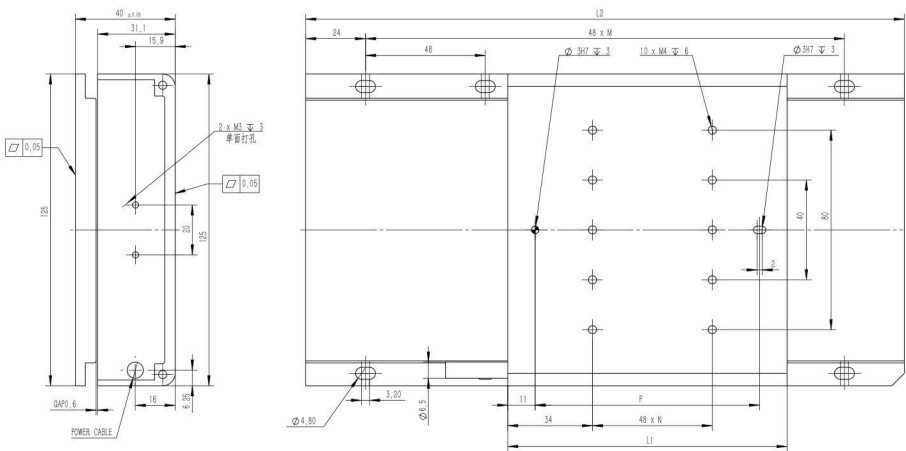


公端子Public Terminal:
HX63080-PT
公端子壳体Male terminal housing:
HX63080-4P
母端子Mother Terminal:
HX63080-RT
母端子壳体Mother terminal housing:
HX63080-4R

LC 125 LC系列有铁芯直线电机

LC Series Ironcore Linear Motor

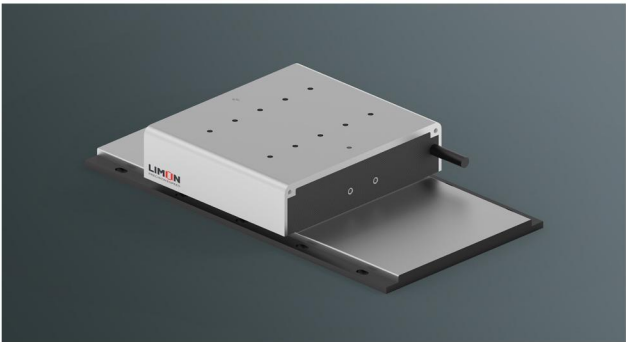
LC 125



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尺寸参数 Dimension Parameter

	电机型号	L1	N	P	L2	M
	Electric Motor Item No.					
定子型号 Coil Item No.	LC125-C1	112	1	90	/	/
	LC125-C2	208	3	186	/	/
定子型号 Stator Item No.	LC125-M48	/	/	/	48	0
	LC125-M144	/	/	/	144	2
	LC125-M240	/	/	/	240	4

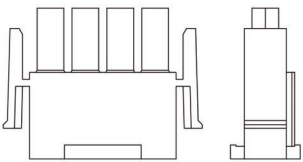


性能参数 Performance Parameter

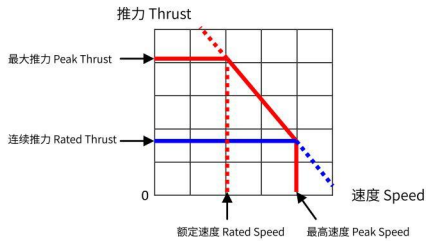
定子型号 Coil Item No.	持续推力 Continue Force (n)	峰值推力 Peak Force (n)	负载 Load (1G)	额定电流 Rated Current (A)	最大电流 Peak Current (A)	推力常数 Force Constant (n/arms)	电阻 Resistance (Ω)	电感 Inductance (mh)	质量 Weight (kg)	极距 Polar Distance (mm)	额定速度 Rated Speed (m/s)	最大速度 Maximum Speed (m/s)	相互吸力 Mutual Attraction (N)
LC125-C1	400	1200	80	6.2	18.6	63	2.5	13.5	2.2	24	2.6	4.1	2000
LC125-C2	800	2400	160	6.2	18.6	129	5.1	27.6	4.2	24	1.5	2	4000

插针编号Pin no.	信号源Signal	线缆编号Wire no.
1	Phase U	1
2	Phase V	2
3	Phase W	3
4	FG	Yellow Green

◎ Note 1
电机电缆规格 Specification of motor cable
外径尺寸Outer diameter (mm): $\phi 6.5\text{mm}$
偶发弯曲Occasional flexing: $7.5 \times \text{outer diameter}$
固定安装Fixed installation: $4 \times \text{outer diameter}$



公端子Public Terminal:
HX63080-PT
公端子壳体Male terminal housing:
HX63080-4P
母端子Mother Terminal:
HX63080-RT
母端子壳体Mother terminal housing:
HX63080-4R



推力速度曲线定义图
Definition diagram of thrust speed curve

GLC 50

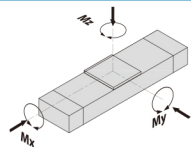
GLC系列有铁芯式线性马达驱动

GLC Series Linear Motor Driven Type With Iron Core

型号订购码 Code	GLC 50	C1	500	MS10	LD	3L	P3
本体型号 Item NO.	GLC 50 单动子型 Single Carriage GLC 50D2 双动子型 Double Carriage	动子规格 Rotor Specification C1:标准型动子 Standard Rotor	行程 Stroke 单动子:50-1650, 间隔/Gap50 Single Carriage 50-1650 Gap50 双动子:1120-1520, 间隔/Gap100 Double Carriage 120-1520 Gap100	栅尺规格 Grating Ruler Specification MS10 增量式磁栅 1μm分辨率 Incremental type magnetic grating 1μm resolution MS10A 绝对式磁栅 1μm分辨率 Absolute type magnetic grating 1μm resolution GS05 增量式光栅 0.5μm分辨率 Incremental type optical grating 0.5μm resolution GS05A 绝对式光栅 0.5μm分辨率 Absolute type optical grating 0.5μm resolution DS10 无栅尺编码器 1μm分辨率 Encoder 1μm resolution	驱动器 Servo Driver LD: 莱盟 Limon SE: 高创 Servotronics PA: 松下 Panasonic MI: 三菱 Mitsubishi N: 不含驱动器 (No Servo Driver)	线缆长度 Wire Length 0L: 不带线缆 (No Wire) 3L: 3m 5L: 5m 8L: 8m	光电传感器数量 Photoelectric Sensor P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记 无 No Mark/No Sensor



最大静态力和力矩 Max Static Forces And Torques



Type	GLC 50
M(x) (N · m)	104
M(y) (N · m)	103
M(z) (N · m)	103

除了满足最大负载和力矩外, 还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

搭配驱动器一览表 Driver

厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
莱盟 Limon	LD	LD-LP	脉冲
		LD-LE	EtherCAT
高创 Servotronics	SE	CDHD-AP1	脉冲
		CDHD-EC1	EtherCAT
松下 Panasonic	PA	MBDLN-SL	脉冲
		MBDLN-BL	EtherCAT
三菱 Mitsubishi	MI	MR-J4-A	脉冲
		MR-J4-B	SSCNET III/H

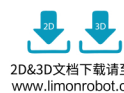
基本规格 Basic Specification

技术 参数 Technical Parameters	机型 Type	GLC-50	GLC-50D2
	驱动方式 Driving Method	有铁芯平板线性马达 Linear Motor Driven Type With Iron Core	
马达 参数 Technical Parameters	位置重复精度(μ) Repetitive Accuracy	±2 μm	
	线性度 Strength	20 μm/300mm	
	最大负载(加速度1G工况下) Max load	5 kg	
	最大速度(MM/S) Max Speed	4 m/s	
基本 规格 Basic Specification	最大加速度(M/S²) Max Accelerated Speed	4G	
	峰值电流 (Peak Current)	3.4Arms	
	持续电流 (Continuous Current)	1.1Arms	
	峰值推力 (Peak Thrust)	150 N	
基本 规格 Basic Specification	持续推力 (N) Continuous Thrust(N)	50 N	
	相间电阻 (Interphase Resistance)	24.6Ω	
	相间电感 (Interphase Inductance)	70.2 mH	
	磁极距 (Magnetic Pole Distance)	20mm	
基本 规格 Basic Specification	标准行程 (mm) Standard Stroke	50-1650 mm / 50 pitch	120-1520 mm / 100 pitch
	主机截面最大外形: Max Outline of Main Engine's Cross Section	55 × 60	
基本 规格 Basic Specification	原点感应器 Home Sensor	PM-Y45(NPN)	

GLC 50

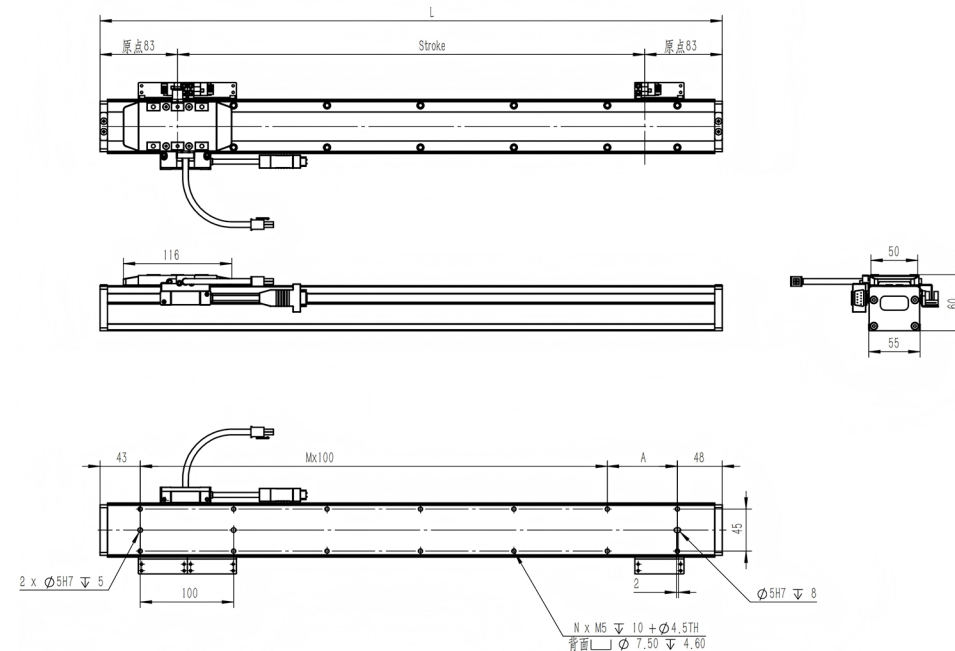
GLC系列有铁芯式线性马达驱动

GLC Series Linear Motor Driven Type With Iron Core



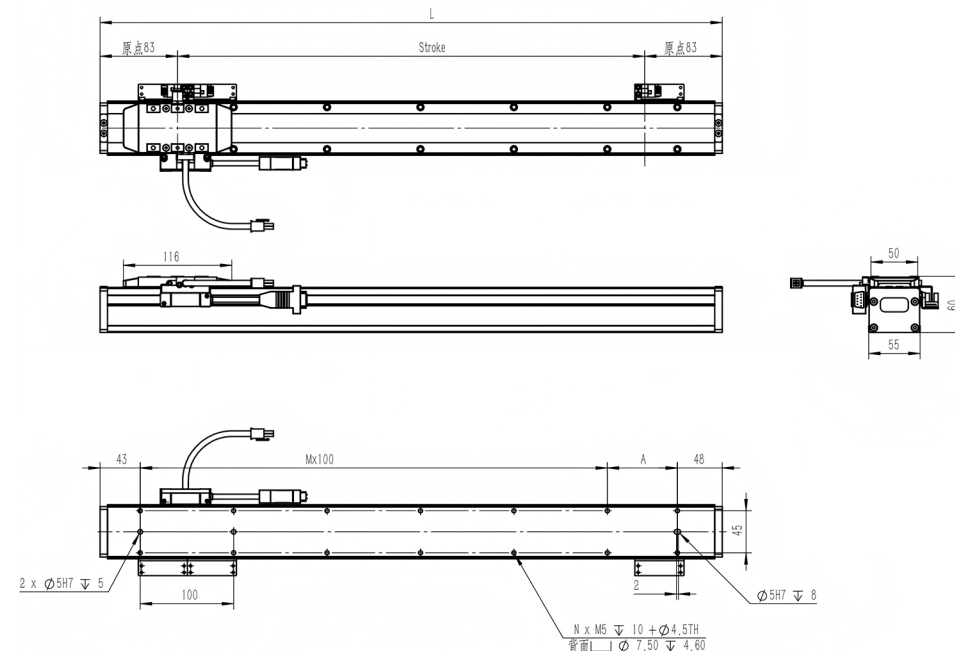
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GLC50-C1

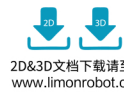


行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
总长 Length (L)	216	266	316	366	416	466	516	566	616	666	716	766	816	866	916	966	1016	1066	1116	1166	1216	1266	1316	1366	1416	1466	1516	1566	1616	1666	1716	1766	1816
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25
重量 Weight (kg)	1.68	1.93	2.18	2.43	2.68	2.93	3.18	3.43	3.68	3.93	4.18	4.43	4.68	4.93	5.18	5.43	5.68	5.93	6.18	6.43	6.68	6.93	7.18	7.43	7.68	7.93	8.18	8.43	8.68	8.93	9.18	9.43	9.68

GLC50D2-C1



行程 Stroke (mm)	120	220	320	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520
总长 Length (L)	416	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816
M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
N	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
A	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
重量 Weight (kg)	3.2	3.7	4.2	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.2

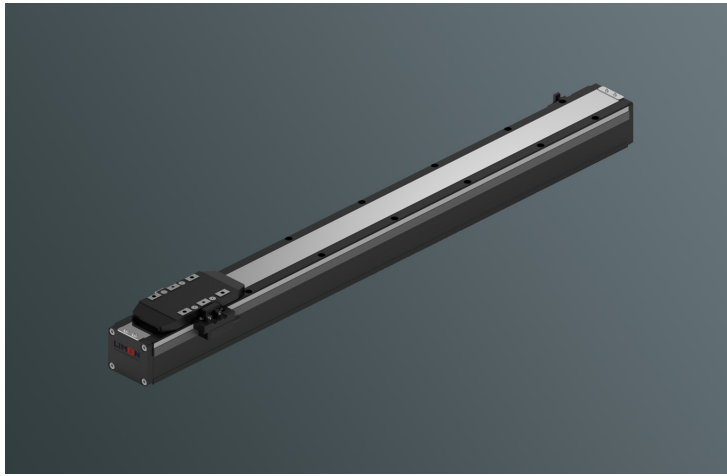


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GLC 80 GLC系列有铁芯式线性马达驱动
GLC Series Linear Motor Driven Type With Iron Core

型号订购码 Code

GLC 80	C1	500	MS10	LD	3L	P3
本体型号 Item NO.	定子规格 Rotor Specification	行程 Stroke	栅尺规格 Grating Ruler Specification	驱动器 Servo Driver	线缆长度 Wire Length	光电传感器数量 Photoelectric Sensor
GLC 80 单动子型 Single Carriage	C1:标准型动子 Standard Rotor	单动子:50-1650,间隔/Gap50 双动子:100-1500,间隔/Gap100	MS10 增量式磁栅 1μm分辨率 Incremental type magnetic grating 1μm resolution MS10A 绝对式磁栅 1μm分辨率 Absolute type magnetic grating 1μm resolution GS05 增量式光栅 0.5μm分辨率 Incremental type optical grating 0.5μm resolution GS05A 绝对式光栅 0.5μm分辨率 Absolute type optical grating 0.5μm resolution DS10 无栅尺编码器 1μm分辨率 Encoder 1μm resolution	LD: 莱盟 Limon SE: 高创 Servotronix PA: 松下 Panasonic MI: 三菱 Mitsubishi N: 不含驱动器 (No Servo Driver)	0L:不带线缆 (No Wire) 3L:3m 5L:5m 8L:8m	P1:1个 1PC P2:2个 2PCS P3:3个 3PCS 未标记 无 No Mark/No Sensor



最大静动力和力矩 Max Static Forces And Torques

Diagram showing force/torque directions: Mx, My, Mz.

Type	GLC 80
M(x) (N · m)	626
M(y) (N · m)	318
M(z) (N · m)	318

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:
Mx / Mx max. + My / My max. + Mz / Mz max. ≤ 1

搭配驱动器一览表 Driver

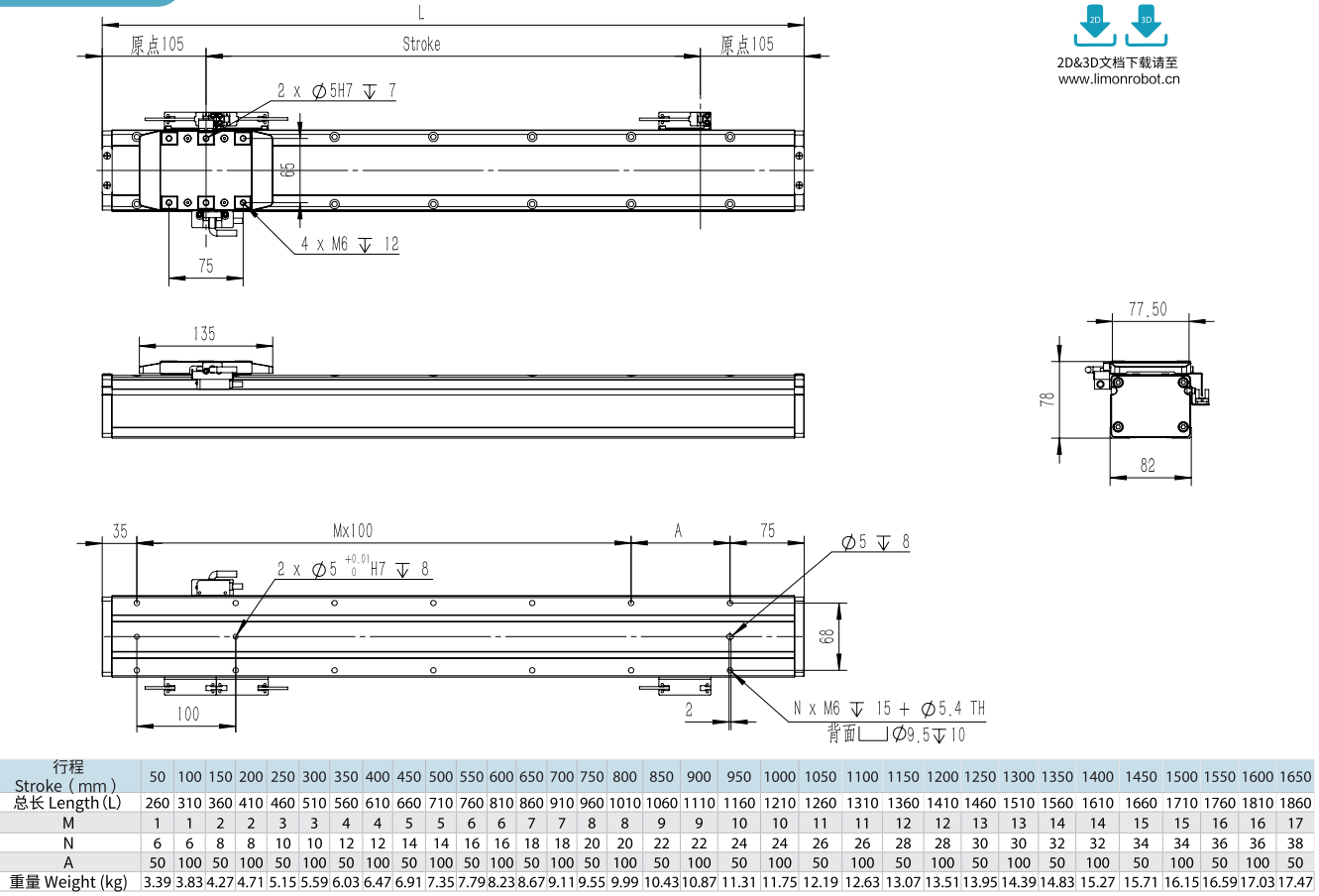
厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
莱盟 Limon	LD	LD-LP	脉冲
		LD-LE	EtherCAT
高创 Servotronix	SE	CDHD-AP1	脉冲
		CDHD-EC1	EtherCAT
松下 Panasonic	PA	MBDLN-SL	脉冲
		MBDLN-BL	EtherCAT
三菱 Mitsubishi	MI	MR-J4-A	脉冲
		MR-J4-B	SSCNET III/H

基本规格 Basic Specification

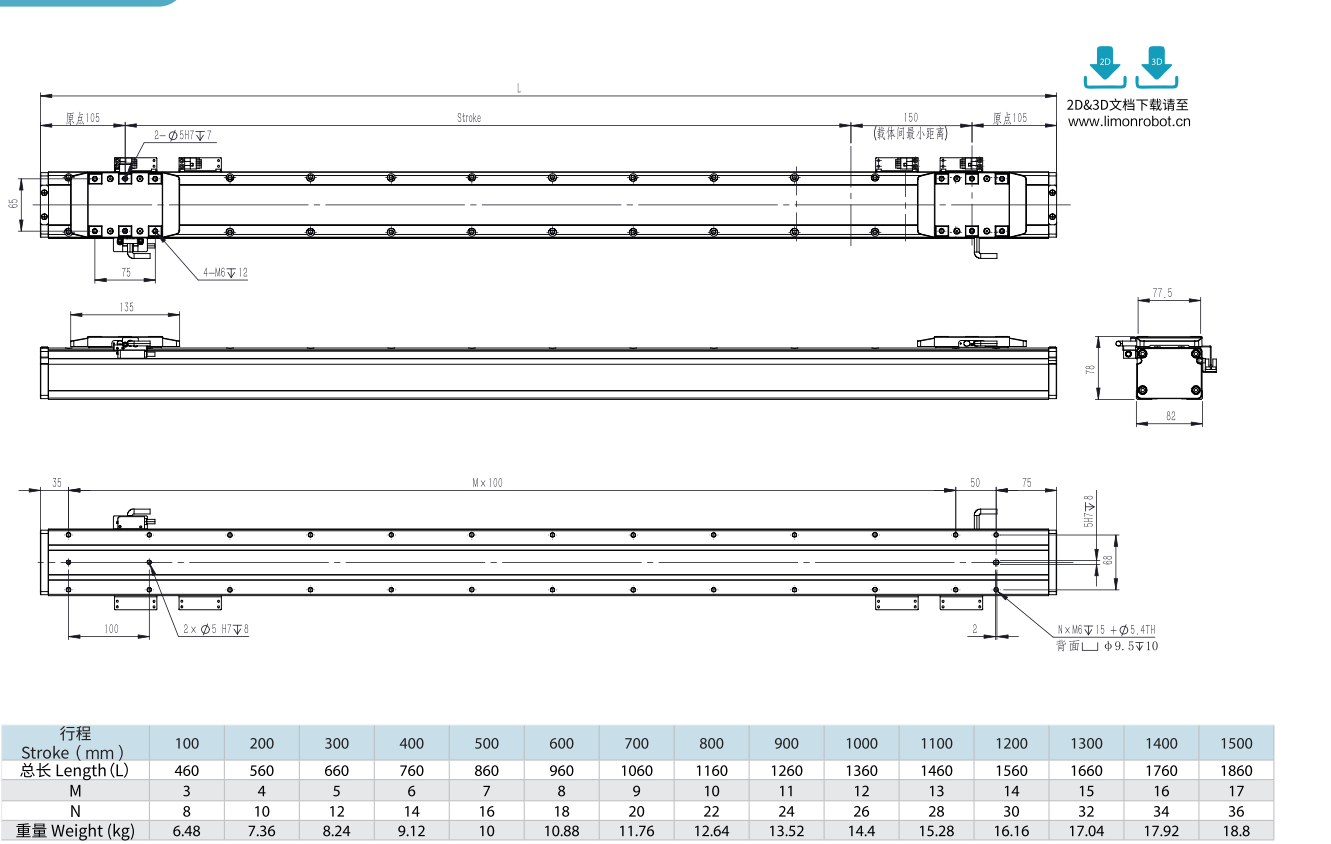
技术参数 Technical Parameters	机型 Type	GLC-80	GLC-80D2
	驱动方式 Driving Method	有铁芯平板线性马达 Linear Motor Driven Type With Iron Core	
	位置重复精度(μ) Repetitive Accuracy	± 2 μ m	
	线性度 Strength	X-X	20 μ m/300mm
		Y-Y	20 μ m/300mm
	最大负载(加速度1G工况下) Max load	20 kg	
马达参数	最大速度(MM/S) Max Speed	4 m/s	
	最大加速度(M/S²) Max Accelerated Speed	4G	
	峰值电流(Peak Current)	9Arms	
	持续电流(Continuous Current)	2.4Arms	
	峰值推力(Peak Thrust)	257 N	
	持续推力(N) Continuous Thrust(N)	82 N	
Technical Parameters	相间电阻(Interphase Resistance)	3.1Ω	
	相间电感(Interphase Inductance)	15.5 mH	
	磁极距(Maagnetic Pole Distance)	24mm	
基本规格 Basic Specification	标准行程 (mm) Standard Stroke	50-1650 mm / 50 pitch	100-1500 mm / 100pitch
	主机截面最大外形:Max Outline of Main Engine's Cross Section	82 × 77.5	
	原点感应器 Home Sensor	PM-Y45(NPN)	

GLC系列有铁芯式线性马达驱动 GLC Series Linear Motor Driven Type With Iron Core GLC 80

GLC80-C1



GLC80D2-C1



RLO 125

RLO系列有铁芯式线性马达驱动

RLO Series Linear Motor Driven Type With Iron Core

型号订购码
Code

RLO 125

C1

500

MS10

LD

3L

P3

本体型号 Item NO.
RLO125 单动子型
Single Carriage
RLO125D2 双动子型
Double Carriage

动子规格
Rotor Specification
C1:标准型动子
Standard Rotor
C2:加长型动子
Standard Rotor

行程 Stroke
100-4500,
间隔/Gap100

栅尺规格
Grating Ruler Specification
MS10
增量式磁栅 1μm分辨率
Incremental type magnetic grating 1μm resolution
MS10A
绝对式磁栅 1μm分辨率
Absolute type magnetic grating 1μm resolution
GS05
增量式光栅 0.5μm分辨率
Incremental type optical grating 0.5μm resolution
GS05A
绝对式光栅 0.5μm分辨率
Absolute type optical grating 0.5μm resolution
DS10
无栅尺编码器 1μm分辨率
Encoder 1μm resolution

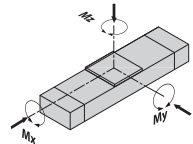
驱动器
Servo Driver
LD: 莱盟
Limon
SE: 高创
Servotronics
PA: 松下
Panasonic
MI: 三菱
Mitsubishi
N: 不含驱动器
(No Servo Driver)

线缆长度
Wire Length
0L:不带线缆
(No Wire)
3L:3m
5L:5m
8L:8m
.....

光电传感器数量
Photoelectric Sensor
P1:1个 1PC
P2:2个 2PCS
P3:3个 3PCS
未标记 无
No Mark/No Sensor



最大静态力和力矩
Max Static Forces And Torques



规格 Type	RLO125-C1	RLO125-C2
■F(y) (N)	4295	5580
■F(z) (N)	4295	5580
■M(x) (N·m)	112	112
■M(y) (N·m)	83	145
■M(z) (N·m)	276	465

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{M_x}{M_{x \max.}} + \frac{M_y}{M_{y \max.}} + \frac{M_z}{M_{z \max.}} \leq 1$$

搭配驱动器一览表 Driver

厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
莱盟 Limon	LD	LD-LP	脉冲
		LD-LE	EtherCAT
高创 Servotronics	SE	CDHD-AP1	脉冲
		CDHD-EC1	EtherCAT
松下 Panasonic	PA	MBDLN-SL	脉冲
		MBDLN-BL	EtherCAT
三菱 Mitsubishi	MI	MR-J4-A	脉冲
		MR-J4-B	SSCNET III/H

基本规格 Basic Specification

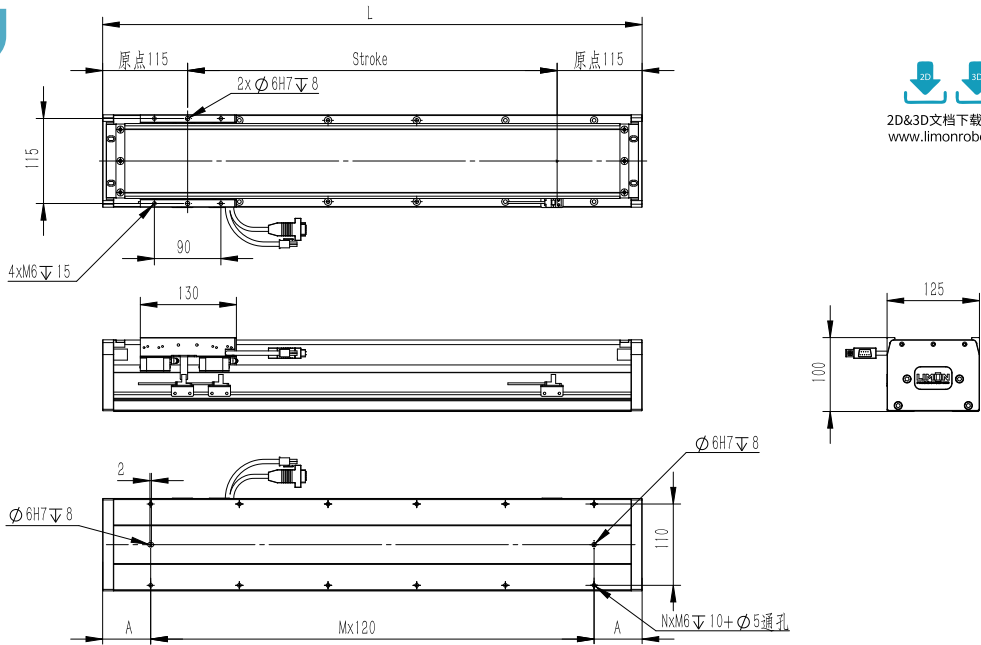
	机型 Type		RLO125-C1	RLO125D2-C1	RLO125-C2	RLO125D2-C2
技术 参数 Technical Parameters	驱动方式 Driving Method		有铁芯平板线性马达 Linear Motor Driven Type With Iron Core			
	位置重复精度(μ) Repetitive Accuracy		± 2 μ m			
	线性度 Strength	X-X	20 μ m/300mm			
		Y-Y	20 μ m/300mm			
	最大负载(加速度1G工况下) Max load		25 kg		50kg	
	最大速度(MM/S) Max Speed		4 m/s			
	最大加速度(M/S²) Max Accelerated Speed		4G			
马达 参数 Technical Parameters	峰值电流(Peak Current)		9.1 Arms			
	持续电流(Continuous Current)		3.6 Arms			
	峰值推力(Peak Thrust)		300 N		600 N	
	持续推力(N) Continuous Thrust(N)		120 N		240 N	
	相间电阻(Interphase Resistance)		3.6Ω		6.9 Ω	
	相间电感(Interphase Inductance)		19.4 mH		38.7 mH	
	磁极距(Maagnetic Pole Distance)		24mm			
基本 规格 Basic Specification	标准行程 (mm) Standard Stroke		100-4500 mm / 100 pitch			
	主机截面最大外形:Max Outline of Main Engine's Cross Section		110*96			
	原点感应器 Home Sensor		PM-Y45(NPN)			

RLO 125

RLO系列有铁芯式线性马达驱动

RLO Series Linear Motor Driven Type With Iron Core

RLO125-C1

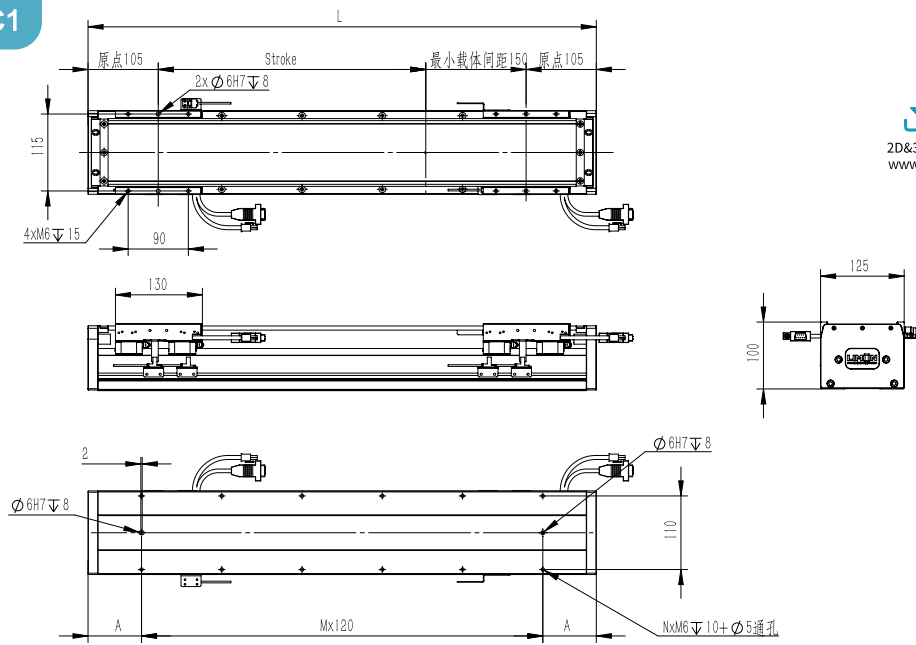


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530
M	2	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20
N	6	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65
重量 Weight (kg)	7.8	9.4	11.0	12.6	14.2	15.8	17.4	19.0	20.5	22.4	24.0	25.6	27.2	28.8	30.4	32.0	33.5	35.1	36.7	38.3	39.9	41.8	43.3

行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230	4330	4430	4530	4630	4730
M	21	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38
N	44	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78
A	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85
重量 Weight (kg)	44.9	46.5	48.1	49.7	51.3	52.9	54.5	56.1	57.7	59.3	61.1	62.7	64.3	65.9	67.5	69.1	70.7	72.3	73.8	75.4	77.0	78.6

RLO125D2-C1



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	460	560	660	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860	1960	2060	2160	2260	2360	2460	2560	2660
M	3	4	5	5	6	7	8	9	10	10	11	12	13	14	15	15	16	17	18	19	20	20	21
N	8	10	12	12	14	16	18	20	22	22	24	26	28	30	32	32	34	36	38	40	42	42	44
A	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70
重量 Weight (kg)	12.0	13.9	15.5	17.1	18.6	20.2	21.8	23.4	25.0	26.6	28.2	29.8	31.4	33.2	34.8	36.4	38.0	39.6	41.2	42.8	44.4	46.0	47.5

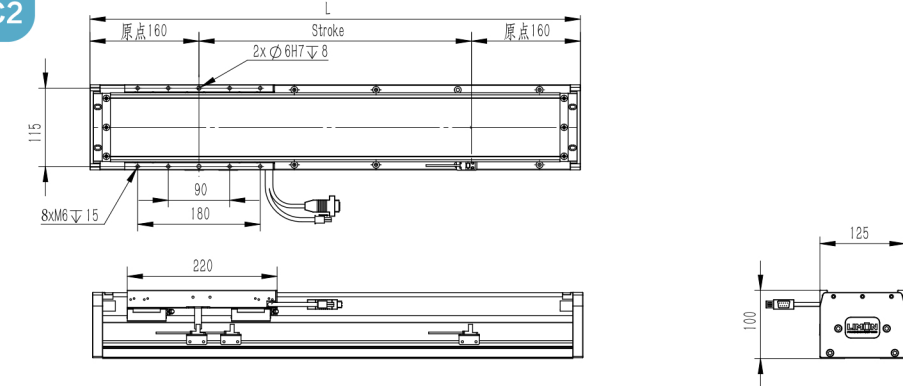
行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	2760	2860	2960	3060	3160	3260	3360	3460	3560	3660	3760	3860	3960	4060	4160	4260	4360	4460	4560	4660	4760	4860
M	22	23	24	25	25	26	27	28	29	30	30	31	32	33	34	35	35	36	37	38	39	40
N	46	48	50	52	52	54	56	58	60	62	62	64	66	68	70	72	72	74	76	78	80	82
A	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30
重量 Weight (kg)	49.1	50.7	52.6	54.2	55.8	57.4	58.9	60.5	62.1	63.7	65.3	66.9	68.5	70.1	71.9	73.5	75.1	76.7	78.3	79.9	81.5	83.1

RLO 125

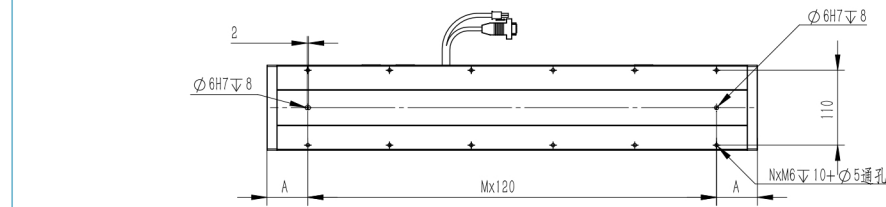
RLO系列有铁芯式线性马达驱动

RLO Series Linear Motor Driven Type With Iron Core

RLO125-C2

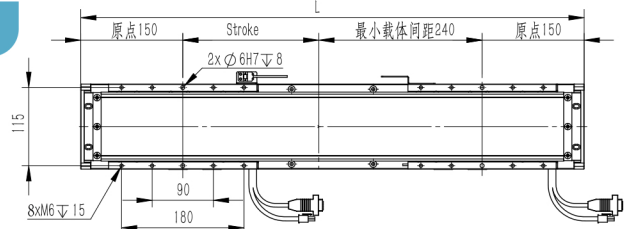


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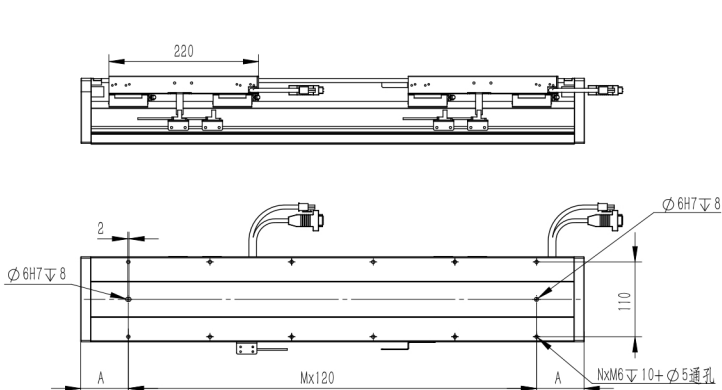


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420	2520	2620
M	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20	21
N	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42	44
A	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50
重量 Weight (kg)	10.6	12.2	13.8	15.4	17.0	18.6	20.2	21.8	23.4	25.0	26.5	28.4	30.0	31.6	33.2	34.8	36.4	37.9	39.5	41.1	42.7	44.3	45.9
行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	
总长 Length (L)	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320	4420	4520	4620	4720	4820	
M	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38	39	
N	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78	80	
A	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	
重量 Weight (kg)	47.8	49.4	50.9	52.5	54.1	55.7	57.3	58.9	60.5	62.1	63.7	65.3	67.1	68.7	70.3	71.9	73.5	75.1	76.7	78.3	79.8	81.4	

RLO125D2-C2



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840
M	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22	23
N	10	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42	44	46	48
A	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40
重量 Weight (kg)	17.6	19.2	20.8	22.4	24.3	25.9	27.5	29.0	30.6	32.2	33.8	35.4	37.0	38.6	40.2	41.8	43.6	45.2	46.8	48.4	50.0	51.6	53.2

行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	2940	3040	3140	3240	3340	3440	3540	3640	3740	3840	3940	4040	4140	4240	4340	4440	4540	4640	4740	4840	4940	5040
M	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39	39	40	41
N	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80	82	84
A	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60
重量 Weight (kg)	54.8	56.4	57.9	59.5	61.1	63.0	64.6	66.2	67.8	69.4	70.9	72.5	74.1	75.7	77.3	78.9	80.5	82.3	83.9	85.5	87.1	88.7

RLO 150

RLO系列有铁芯式线性马达驱动

RLO Series Linear Motor Driven Type With Iron Core

型号订购码 Code

RLO 150

本体型号 Item NO.
RLO150 单动子型
Single Carriage
RLO150D2 双动子型
Double Carriage

C1

动子规格
Rotor Specification
C1:标准型动子
Standard Rotor
C2:加长型动子
Standard Rotor

500

行程 Stroke
100-4500,
间隔/Gap100

MS10

栅尺规格
Grating Ruler Specification
MS10
增量式磁栅 1μm分辨率
Incremental type magnetic grating 1μm resolution
MS10A
绝对式磁栅 1μm分辨率
Absolute type magnetic grating 1μm resolution
GS05
增量式光栅 0.5μm分辨率
Incremental type optical grating 0.5μm resolution
GS05A
绝对式光栅 0.5μm分辨率
Absolute type optical grating 0.5μm resolution
DS10
无栅尺编码器 1μm分辨率
Encoder 1μm resolution

LD

驱动器
Servo Driver
LD: 莱盟
Limon
SE: 高创
Servotronics
PA: 松下
Panasonic
MI: 三菱
Mitsubishi
N: 不含驱动器
(No Servo Driver)

3L

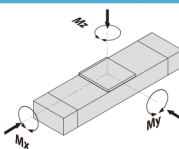
线缆长度
Wire Length
0L: 不带线缆
(No Wire)
3L: 3m
5L: 5m
8L: 8m
.....

P3

光电传感器数量
Photoelectric Sensor
P1: 1个 1PC
P2: 2个 2PCS
P3: 3个 3PCS
未标记 无
No Mark/No Sensor



最大静态力和力矩 Max Static Forces And Torques



规格 Type	RLO150-C1	RLO150-C2
■ F(y) (N)	5370	6980
■ F(z) (N)	5370	6980
■ M(x) (N · m)	142	142
■ M(y) (N · m)	104	180
■ M(z) (N · m)	346	582

除了满足最大负载和力矩外, 还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

搭配驱动器一览表 Driver

厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
莱盟 Limon	LD	LD-LP	脉冲
		LD-LE	EtherCAT
高创 Servotronics	SE	CDHD-AP1	脉冲
		CDHD-EC1	EtherCAT
松下 Panasonic	PA	MBDLN-SL	脉冲
		MBDLN-BL	EtherCAT
三菱 Mitsubishi	MI	MR-J4-A	脉冲
		MR-J4-B	SSCNET III/H

基本规格 Basic Specification

技术 参数 Technical Parameters	机型 Type		RLO150-C1	RLO150D2-C1	RLO150-C2	RLO150D2-C2
	驱动方式 Driving Method		有铁芯平板线性马达 Linear Motor Driven Type With Iron Core			
	位置重复精度(μ) Repetitive Accuracy		± 2 μ m			
	线性度 Strength	X-X	20 μ m/300mm			
		Y-Y	20 μ m/300mm			
	最大负载(加速度1G工况下) Max load		40 kg		80kg	
	最大速度(MM/S) Max Speed		4 m/s			
马达 参数 Technical Parameters	最大加速度(M/S²) Max Accelerated Speed		4G			
	峰值电流 (Peak Current)		9.1 Arms		18.2 Arms	
	持续电流 (Continuous Current)		3.6 Arms		7.2 Arms	
	峰值推力 (Peak Thrust)		550 N		1100 N	
	持续推力 (N) Continuous Thrust(N)		220 N		440 N	
	相间电阻 (Interphase Resistance)		5.4Ω		2.8Ω	
	相间电感 (Interphase Inductance)		30 mH		16.1 mH	
基本 规格 Basic Specification	磁极距 (Maagnetic Pole Distance)		24mm			
	标准行程 (mm) Standard Stroke		100-4500 mm / 100 pitch			
	主机截面最大外形:Max Outline of Main Engine's Cross Section		135*96			
原点感应器 Home Sensor		PM-Y45(NPN)				

RLO 175

RLO系列有铁芯式线性马达驱动

RLO Series Linear Motor Driven Type With Iron Core

型号订购码
Code

RLO 175

本体型号 Item NO.
RLO175 单动子型
Single Carriage
RLO175D2 双动子型
Double Carriage

C1

动子规格
Rotor Specification
C1:标准型动子
Standard Rotor
C2:加长型动子
Standard Rotor

500

行程 Stroke
100-4500,
间隔/Gap100

MS10

栅尺规格
Grating Ruler Specification
MS10
增量式磁栅 1μm分辨率
Incremental type magnetic grating 1μm resolution
MS10A
绝对式磁栅 1μm分辨率
Absolute type magnetic grating 1μm resolution
GS05
增量式光栅 0.5μm分辨率
Incremental type optical grating 0.5μm resolution
GS05A
绝对式光栅 0.5μm分辨率
Absolute type optical grating 0.5μm resolution
DS10
无栅尺编码器 1μm分辨率
Encoder 1μm resolution

LD

驱动器
Servo Driver
LD: 莱盟
Limon
SE: 高创
Servotronics
PA: 松下
Panasonic
MI: 三菱
Mitsubishi
N: 不含驱动器
(No Servo Driver)

3L

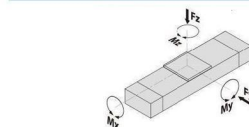
线缆长度
Wire Length
0L: 不带线缆
(No Wire)
3L: 3m
5L: 5m
8L: 8m
.....

P3

光电传感器数量
Photoelectric Sensor
P1: 1个 1PCS
P2: 2个 2PCS
P3: 3个 3PCS
未标记 无
No Mark/No Sensor



最大动态力和力矩
Max Permissible Forces And Torques



Type	4P
■F(y) (N)	7463
■F(z) (N)	7463
■M(x) (N·m)	339
■M(y) (N·m)	178
■M(z) (N·m)	742

除了满足最大负载和力矩外, 还必须满足以下公式:
All forces and torques relate to the following:
$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

搭配驱动器一览表

Driver

厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
莱盟 Limon	LD	LD-LP	脉冲
		LD-LE	EtherCAT
高创 Servotronics	SE	CDHD-AP1	脉冲
		CDHD-EC1	EtherCAT
松下 Panasonic	PA	MBDLN-SL	脉冲
		MBDLN-BL	EtherCAT
三菱 Mitsubishi	MI	MR-J4-A	脉冲
		MR-J4-B	SSCNET III /H

基本规格

Basic Specification

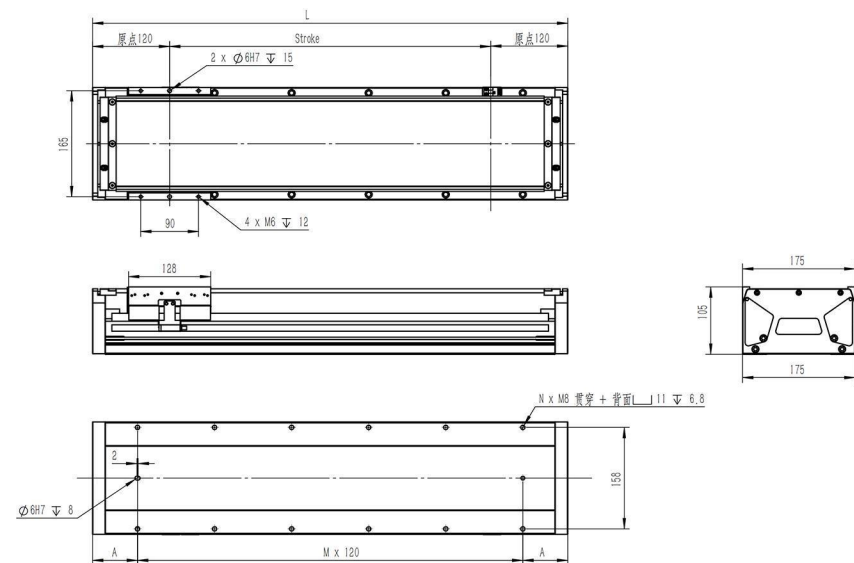
机型 Type	RLO175-C1	RLO175D2-C1	RLO175-C2	RLO175D2-C2
驱动方式 Driving Method	有铁芯平板线性马达 Linear Motor Driven Type With Iron Core			
位置重复精度(μ) Repetitive Accuracy	±2μm			
线性度 Strength	20μm/300mm			
最大负载(加速度1G工况下) Max load	40 kg		80 kg	
最大速度 Max Speed	4 m/s			
最大加速度 Max Accelerated Speed	3 G		4 G	
峰值电流 Peak Current	9.1 Arms		18.2 Arms	
持续电流 Continuous Current	3.6 Arms		7.2 Arms	
峰值推力 Peak Thrust	550 N		1200 N	
持续推力 Continuous Thrust	220 N		480 N	
推力常数 Force Constant	61 N/Arms		66 N/Arms	
相间电阻 Interphase Resistance	5.4 Ω		2.8 Ω	
相间电感 Interphase Inductance	18.1 mH		16.3 mH	
反电势常数 EMF Constant	27Vrms/m/s		54.1Vrms/m/s	
磁极距 Magnetic Pole Distance	24mm			
标准行程 Standard Stroke	100-4500 mm / 100 pitch			
主机截面最大外形: Max Outline of Main Engine's Cross Section	175*105 mm			
原点感应器 Home Sensor	PM-Y45(NPN)			

RLO 175

RLO系列有铁芯式线性马达驱动

RLO Series Linear Motor Driven Type With Iron Core

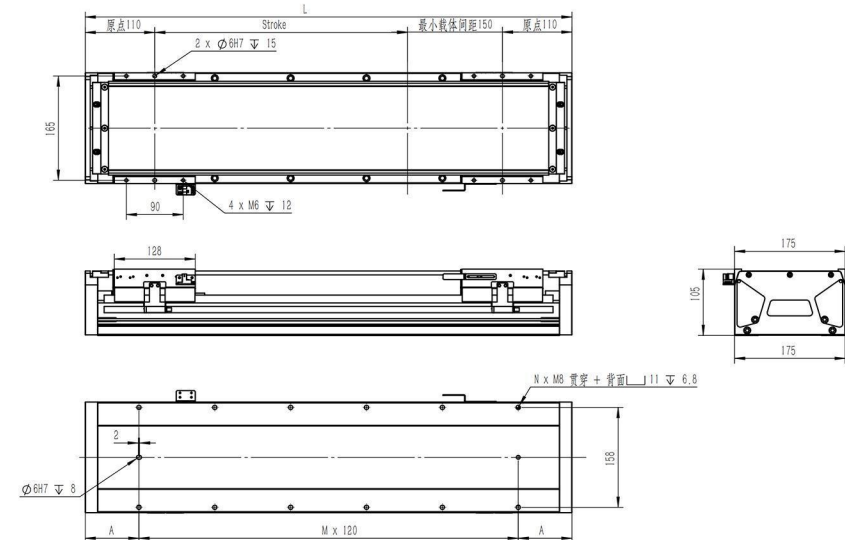
RLO175-C1



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行程Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长Length(L)	340	440	540	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540
M	2	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20
N	6	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42
A	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	80	70
重量Weight(kg)	10.8	12.7	14.5	16.4	18.3	20.2	22.0	23.9	25.8	27.8	29.7	31.6	33.5	35.4	37.2	39.1	41.0	42.9	44.7	46.6	48.5	50.6	52.4
行程Stroke(mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	
总长Length(L)	2640	2740	2840	2940	3040	3140	3240	3340	3440	3540	3640	3740	3840	3940	4040	4140	4240	4340	4440	4540	4640	4740	
M	21	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38	
N	44	46	48	48	50	52	54	56	58	58	60	62	64	66	68	70	72	74	76	78	78		
A	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	
重量Weight(kg)	54.3	56.2	58.1	59.9	61.8	63.7	65.6	67.4	69.3	71.2	73.3	75.1	77.0	78.9	80.8	82.6	84.5	86.4	88.3	90.1	92.0	93.9	

RLO175D2-C1



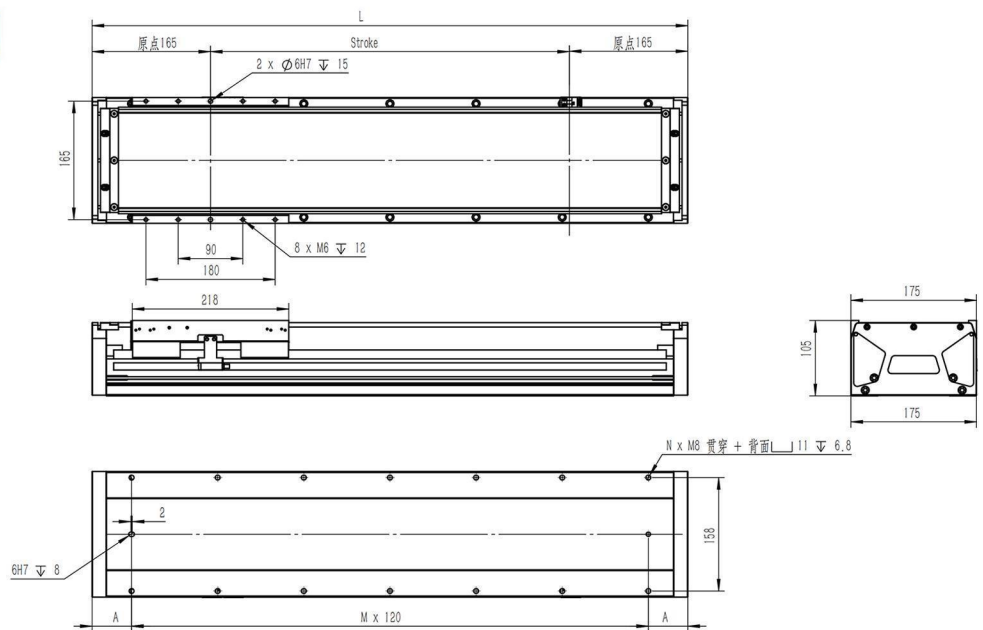
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行程Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长Length(L)	470	570	670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370	2470	2570	2670
M	3	4	5	5	6	7	8	9	10	10	11	12	13	14	15	15	16	17	18	19	20	20	21
N	8	10	12	12	14	16	18	20	22	22	24	26	28	30	32	32	34	36	38	40	42	42	44
A	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75
重量Weight(kg)	16.4	18.5	20.3	22.2	24.1	26.0	27.8	29.7	31.6	33.5	35.3	37.2	39.1	41.2	43.0	44.9	46.8	48.7	50.5	52.4	54.3	56.2	58.1
行程Stroke(mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	
总长Length(L)	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070	4170	4270	4370	4470	4570	4670	4770	4870	
M	22	23	24	25	25	26	27	28	29	30	30	31	32	33	34	35	35	36	37	38	39	40	
N	46	48	50	52	52	54	56	58	60	62	62	64	66	68	70	72	72	74	76	78	80	82	
A	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	
重量Weight(kg)	59.9	61.8	63.9	65.8	67.6	69.5	71.4	73.3	75.1	77.0	78.9	80.8	82.6	84.5	86.6	88.5	90.3	92.2	94.1	96.0	97.8	99.7	

RLO 175 RLO系列有铁芯式线性马达驱动

RLO Series Linear Motor Driven Type With Iron Core

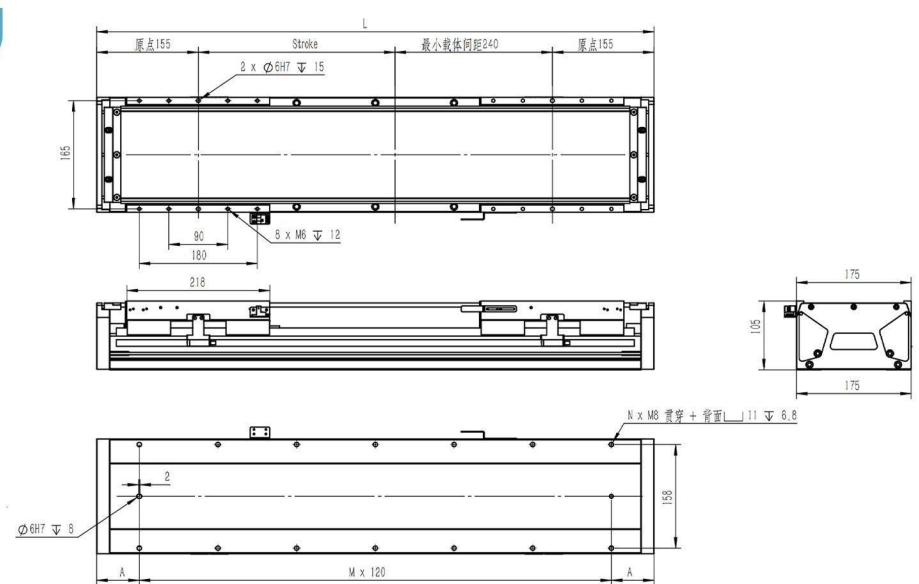
RLO175-C2



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行程Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长Length(L)	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530	2630
M	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20	21
N	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42	44
A	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55
重量Weight(kg)	14.9	16.8	18.7	20.6	22.4	24.3	26.2	28.1	29.9	31.8	33.7	35.6	37.6	39.5	41.4	43.3	45.1	47.0	48.9	50.8	52.7	54.5	56.4
行程Stroke(mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	
总长Length(L)	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230	4330	4430	4530	4630	4730	4830	
M	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38	39	
N	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78	80	
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	
重量Weight(kg)	58.5	60.4	62.2	64.1	66.0	67.9	69.7	71.6	73.5	75.4	77.2	79.1	81.2	83.1	84.9	86.8	88.7	90.6	92.4	94.3	96.2	98.1	

RLO175D2-C2



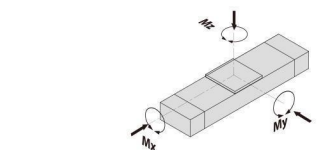
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行程Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长Length(L)	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850
M	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22	23
N	10	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42	44	46	48
A	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45
重量Weight(kg)	24.7	26.6	28.5	30.4	32.4	34.3	36.2	38.1	39.9	41.8	43.7	45.6	47.4	49.3	51.2	53.1	55.1	57.0	58.9	60.8	62.6	64.5	66.4
行程Stroke(mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	
总长Length(L)	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850	4950	5050	
M	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39	39	40	41	
N	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80	82	84	
A	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	
重量Weight(kg)	68.3	70.1	72.0	73.9	75.8	77.8	79.7	81.6	83.5	85.3	87.2	89.1	91.0	92.8	94.7	96.6	98.5	100.5	102.4	104.3	106.2	108.0	

RLO 220 RLO系列有铁芯式线性马达驱动

RLO Series Linear Motor Driven Type With Iron Core

型号订购码 Code	RLO 220	C1	500	MS10	LD	3L	P3
本体型号 Item NO.	RLO220 单动子型 Single Carriage	C1:标准型动子 Standard Rotor	行程 Stroke 100-4500, 间隔/Gap100	栅尺规格 Grating Ruler Specification MS10 增量式磁栅 1μm分辨率 Incremental type magnetic grating 1μm resolution MS10A 绝对式磁栅 1μm分辨率 Absolute type magnetic grating 1μm resolution GS05 增量式光栅 0.5μm分辨率 Incremental type optical grating 0.5μm resolution GS05A 绝对式光栅 0.5μm分辨率 Absolute type optical grating 0.5μm resolution DS10 无栅尺编码器 1μm分辨率 Encoder 1μm resolution	驱动器 Servo Driver LD: 莱盟 Limon SE: 高创 Servotronics PA: 松下 Panasonic MI: 三菱 Mitsubishi N: 不含驱动器 (No Servo Driver)	线缆长度 Wire Length 0L: 不带线缆 (No Wire) 3L: 3m 5L: 5m 8L: 8m	光电传感器数量 Photoelectric Sensor P1: 1个 1PCS P2: 2个 2PCS P3: 3个 3PCS 未标记 无 No Mark/No Sensor



规格 Type	RLO210-C1	RLO210-C2
■F(y) (N)	8072	8072
■F(z) (N)	8072	8072
■M(x) (N·m)	406	406
■M(y) (N·m)	215	420
■M(z) (N·m)	420	600

除了满足最大负载和力矩外，还必须满足以下公式：
All forces and torques relate to the following:
$$\frac{M_x}{M_x \max} + \frac{M_y}{M_y \max} + \frac{M_z}{M_z \max} \leq 1$$

搭配驱动器一览表 Driver

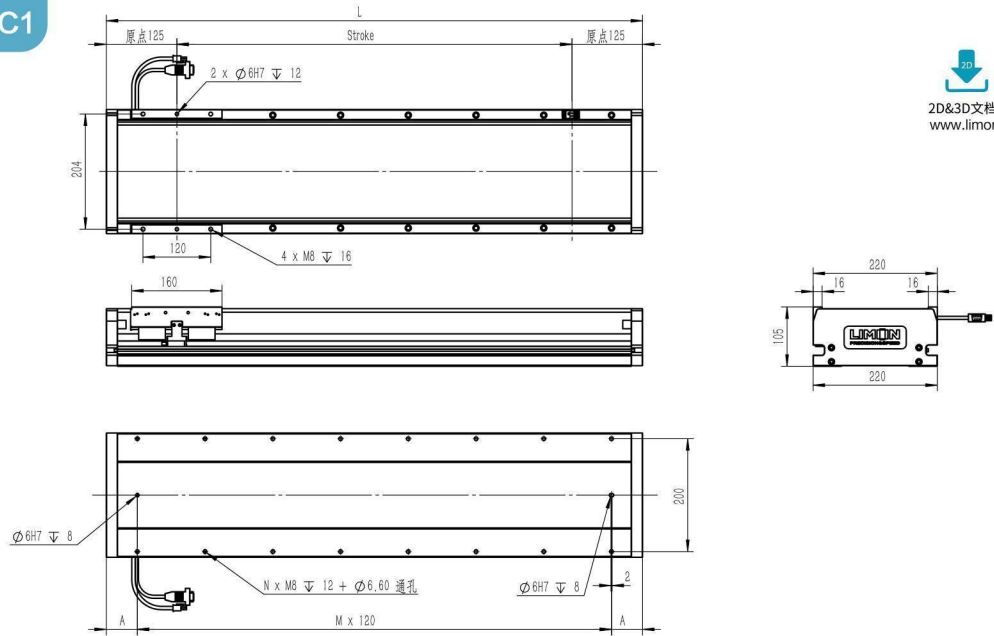
厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
莱盟 Limon	LD	LD-LP	脉冲
		LD-LE	EtherCAT
高创 Servotronics	SE	CDHD-AP1	脉冲
		CDHD-EC1	EtherCAT
松下 Panasonic	PA	MBDLN-SL	脉冲
		MBDLN-BL	EtherCAT
三菱 Mitsubishi	MI	MR-J4-A	脉冲
		MR-J4-B	SSCNET III/H

基本规格 Basic Specification

	机型 Type	RLO220-C1	RLO220D2-C1	RLO220-C2	RLO220D2-C2
技术 参数 Technical Parameters	驱动方式 Driving Method	有铁芯平板线性马达 Linear Motor Driven Type With Iron Core			
	位置重复精度(μ) Repetitive Accuracy	±2 μm			
	线性度 Strength	20 μm/300mm			
		20 μm/300mm			
	最大负载(加速度1G工况下) Max load	60 kg		120 kg	
马达 参数 Technical Parameters	最大速度(MM/S) Max Speed	4 m/s			
	最大加速度(M/S²) Max Accelerated Speed	4G			
	峰值电流(Peak Current)	9.6 Arms		19.2 Arms	
	持续电流(Continuous Current)	3.6 Arms		7.2 Arms	
	峰值推力(Peak Thrust)	900 N		1800 N	
基本 规格 Basic Specification	持续推力(N) Continuous Thrust(N)	340 N		680 N	
	相间电阻(Interphase Resistance)	7.5Ω		3.9 Ω	
	相间电感(Interphase Inductance)	42.3 mH		21.5 mH	
	磁极距(Magnetic Pole Distance)	24mm			
	标准行程(mm) Standard Stroke	100-4500 mm / 100 pitch			
主机截面最大外形: Max Outline of Main Engine's Cross Section		220*105			
	原点感应器 Home Sensor	PM-Y45(NPN)			

RLO 220 RLO系列有铁芯式线性马达驱动 RLO Series Linear Motor Driven Type With Iron Core

RLO220-C1

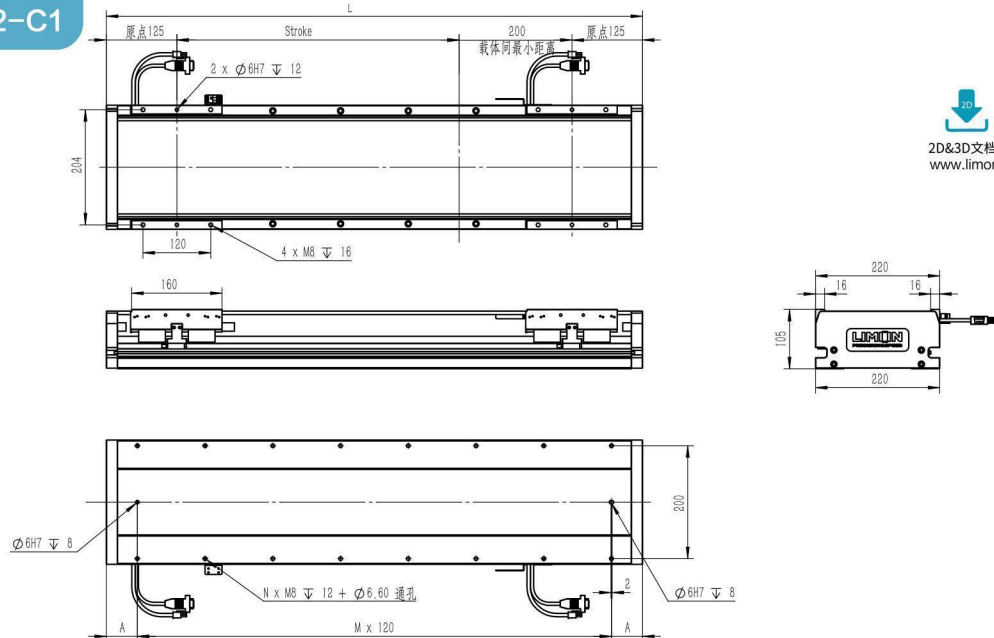


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550
M	2	3	4	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20
N	6	8	10	10	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42
A	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75
重量 Weight (kg)	14.3	16.7	19.2	21.6	24.1	26.5	29.0	31.7	34.1	36.6	39.0	41.5	43.9	46.3	48.8	51.2	53.7	56.1	58.6	61.3	63.7	66.2	68.6

行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	2650	2750	2850	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750
M	21	22	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39
N	44	46	48	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80
A	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35
重量 Weight (kg)	71.1	73.5	76.0	78.4	80.9	83.3	85.8	88.2	90.9	93.4	95.8	98.2	100.7	103.1	105.6	108.0	110.5	112.9	115.4	117.8	120.5	123.0

RLO220D2-C1



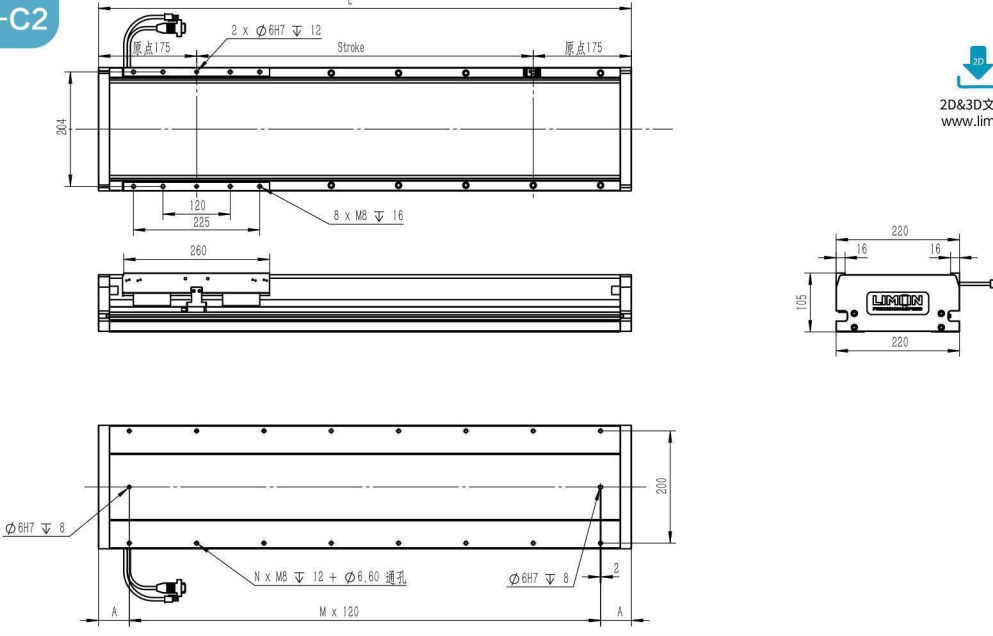
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750
M	4	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22
N	10	10	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42	44	46
A	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55
重量 Weight (kg)	23.7	26.2	28.6	31.1	33.5	36.2	38.7	41.1	43.6	46.0	48.5	50.9	53.4	55.8	58.3	60.7	63.1	65.9	68.3	70.7	73.2	75.6	78.1

行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	2850	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850	4950
M	23	24	25	26	27	28	29	29	30	31	32	33	34	35	36	37	38	39	39	40	41	42
N	48	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80	82	84
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75
重量 Weight (kg)	80.5	83.0	85.4	87.9	90.3	92.8	95.5	97.9	100.4	102.8	105.3	107.7	110.2	112.6	115.0	117.5	119.9	122.4	125.1	127.5	130.0	132.4

RLO系列有铁芯式线性马达驱动 RLO Series Linear Motor Driven Type With Iron Core RLO 220

RLO220-C2

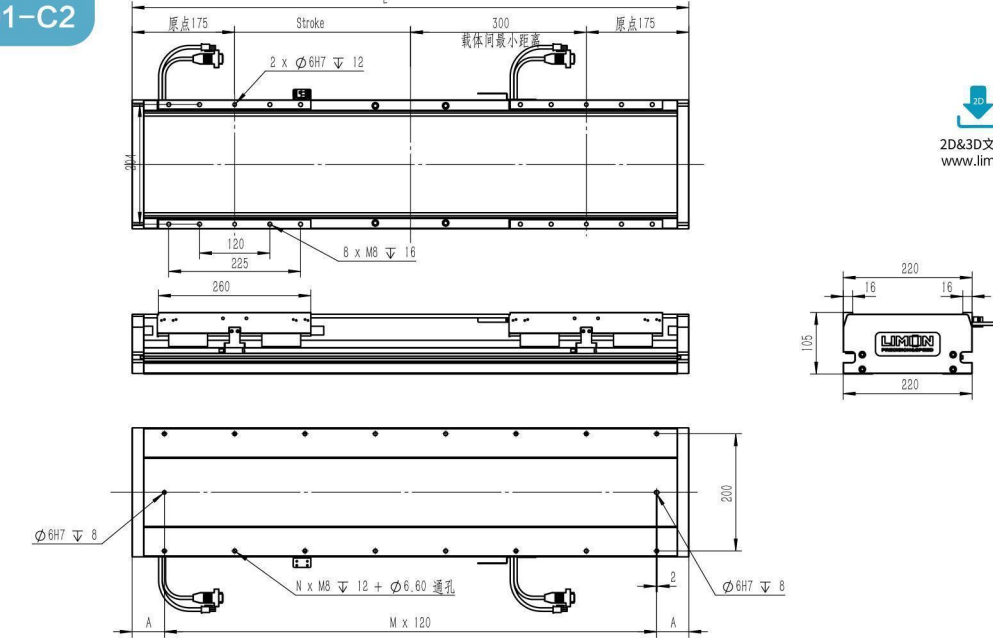


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650
M	3	4	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21
N	8	10	10	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42	44
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65
重量 Weight (kg)	19.9	22.3	24.8	27.2	29.7	32.1	34.8	37.3	39.7	42.2	44.6	47.1	49.5	52.0	54.4	56.9	59.3	61.8	64.5	66.9	69.4	71.8	74.2

行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	2750	2850	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850
M	22	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39	39
N	46	48	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80
A	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85
重量 Weight (kg)	76.7	79.1	81.6	84.0	86.5	88.9	91.4	94.1	96.5	99.0	101.4	103.9	106.3	108.8	111.2	113.7	116.1	118.5	121.0	123.7	126.1	128.6

RLO220D1-C2



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950
M	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22	23	24
N	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42	44	46	48	50
A	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35
重量 Weight (kg)	35.0	37.4	39.9	42.6	45.0	47.5	49.9	52.4	54.8	57.3	59.7	62.2	64.6	67.0	69.5	72.2	74.6	77.1	79.5	82.0	84.4	86.9	89.3

行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850	4950	5050	5150
M	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39	39	40	41	42
N	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80	82	84	86
A	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55
重量 Weight (kg)	91.8	94.2	96.7	99.1	101.8	104.3	106.7	109.2	111.6	114.0	116.5	118.9	121.4	123.8	126.3	128.7	131.4	133.9	136.3	138.8	141.2	143.7

RLO 260 RLO系列有铁芯式线性马达驱动
RLO Series Linear Motor Driven Type With Iron Core

Table with 6 columns: RLO 260, C1, 500, MS10, LD, 3L, P3. It lists specifications for various components like Item NO., Rotor Specification, Stroke, Grating Ruler Specification, Servo Driver, Wire Length, and Photoelectric Sensor.



最大动态力和力矩
Max Permissible Forces And Torques

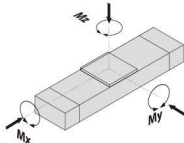


Table with 3 columns: Type, RLO260-C1, RLO260-C2. It lists force and torque values for different types (F(Y), F(Z), M(x), M(y), M(z)).

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:

Formula: (Mx max. + My max. + Mz max.) / (Mx max. + My max. + Mz max.) ≤ 1

搭配驱动器一览表
Driver

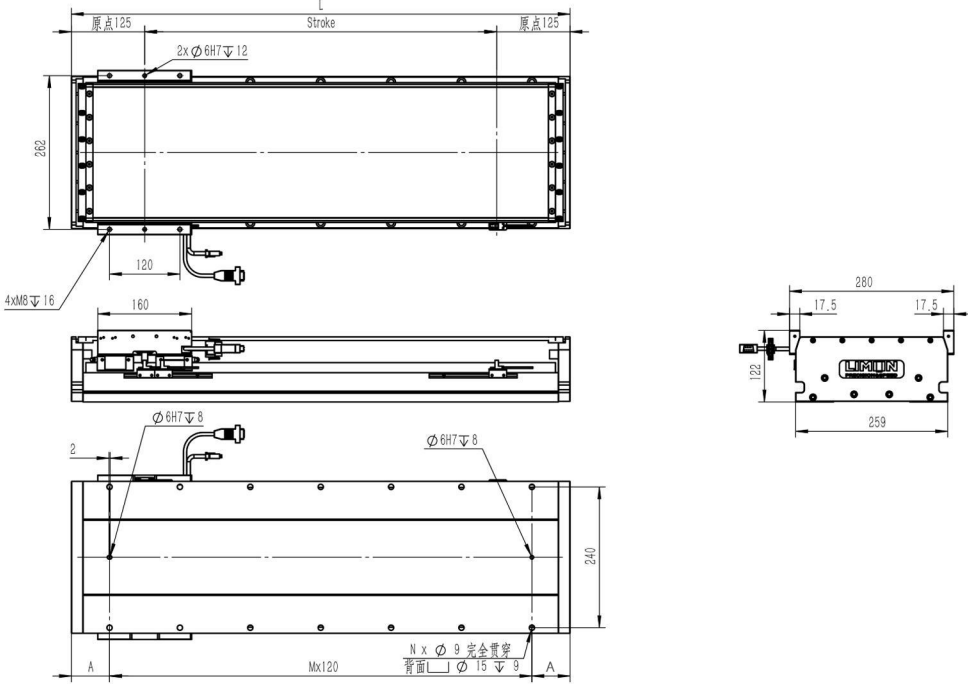
Table with 4 columns: 厂牌 (Brand), 驱动器记号 (Mark), 驱动器型号 (Driver Model), 接线讯号 (Connection Signal). It lists compatible drivers like Limon, Servotronics, Panasonic, and Mitsubishi.

基本规格
Basic Specification

Table with 5 columns: 机型 Type, RLO260-C1, RLO260D2-C1, RLO260-C2, RLO260D2-C2. It lists technical parameters like Driving Method, Repetitive Accuracy, Strength, Max load, Max Speed, Max Accelerated Speed, Peak Current, Continuous Current, Peak Thrust, Continuous Thrust, Force Constant, Interphase Resistance, Interphase Inductance, EMF constant, Pole Distance, Standard Stroke, and Home Sensor.

RLO系列有铁芯式线性马达驱动 RLO 260
RLO Series Linear Motor Driven Type With Iron Core

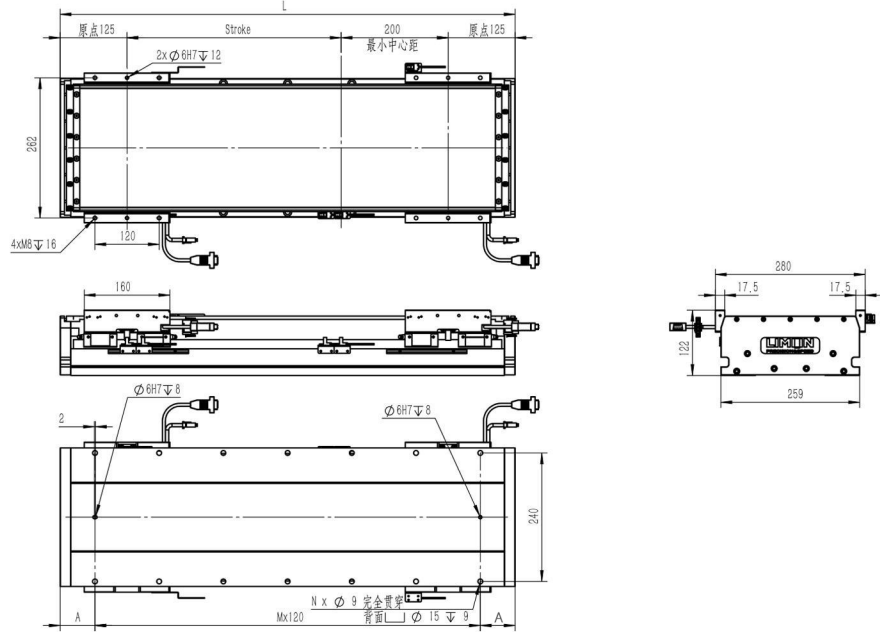
RLO260-C1



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Table with 2 rows of stroke and length data for RLO260-C1. It lists Stroke (mm) and Length (L) for various models.

RLO260D2-C1

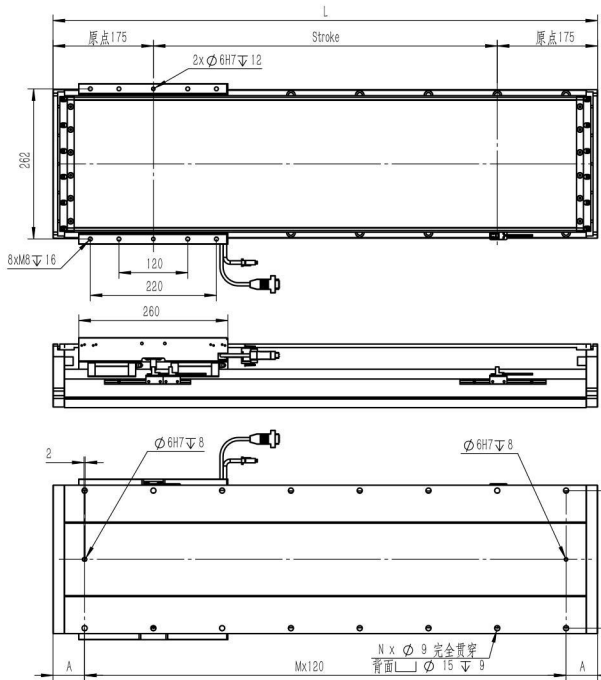


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Table with 2 rows of stroke and length data for RLO260D2-C1. It lists Stroke (mm) and Length (L) for various models.

RLO 260 RLO系列有铁芯式线性马达驱动
RLO Series Linear Motor Driven Type With Iron Core

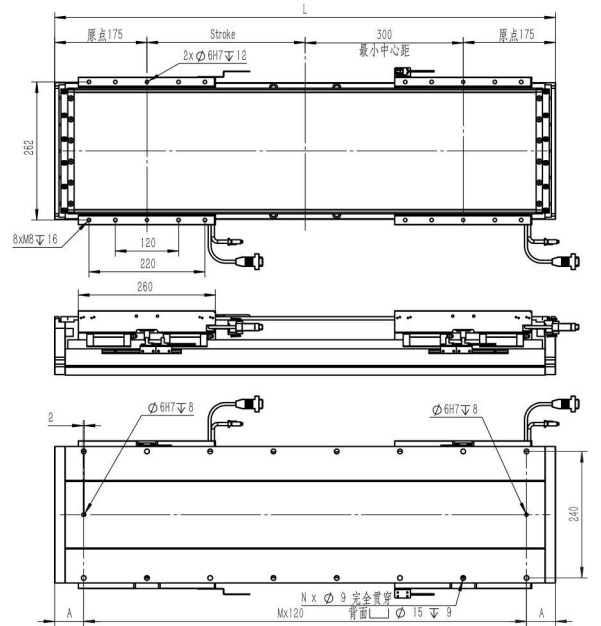
RL0260-C2



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Table with 24 columns (Stroke 100-2300mm) and 6 rows (Length, M, N, A, Weight).

RL0260D2-C2



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Table with 24 columns (Stroke 100-4500mm) and 6 rows (Length, M, N, A, Weight).

RLC系列有铁芯式线性马达驱动
RLC Series Linear Motor Driven Type With Iron Core RLC 125

型号订购码
Code

RLC 125
本体型号 Item NO.
RLC125 单动子型
Single Carriage
RLC125D2 双动子型
Double Carriage

C1
动子规格
Rotor Specification
C1:标准型动子
Standard Rotor
C2:加长型动子
Standard Rotor

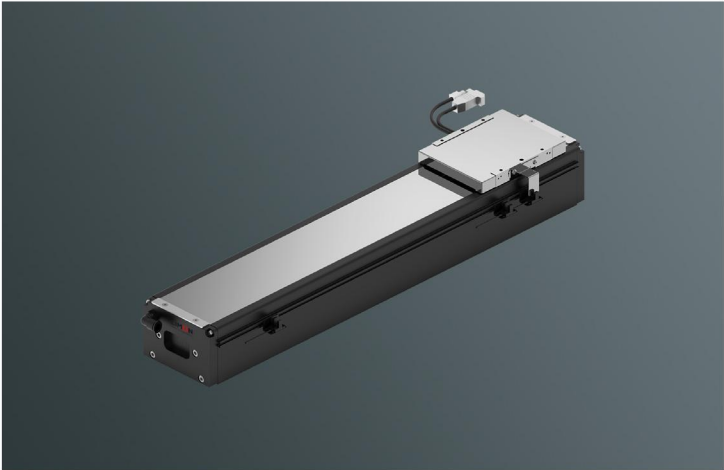
500
行程 Stroke
100-4500,
间隔/Gap100

MS10
栅尺规格
Grating Ruler Specification
MS10
增量式磁栅 1μm分辨率
Incremental type magnetic grating 1μm resolution
MS10A
绝对式磁栅 1μm分辨率
Absolute type magnetic grating 1μm resolution
GS05
增量式光栅 0.5μm分辨率
Incremental type optical grating 0.5μm resolution
GS05A
绝对式光栅 0.5μm分辨率
Absolute type optical grating 0.5μm resolution
DS10
无栅尺编码器 1μm分辨率
Encoder 1μm resolution

LD
驱动器
Servo Driver
LD: 莱盟
Limon
SE: 高创
Servotronics
PA: 松下
Panasonic
MI: 三菱
Mitsubishi
N:不含驱动器
(No Servo Driver)

3L
线绳长度
Wire Length
0L:不带线绳
(No Wire)
3L:3m
5L:5m
8L:8m
.....

P3
光电传感器数量
Photoelectric Sensor
P1:1个 1PC
P2:2个 2PCS
P3:3个 3PCS
未标记 无
No Mark/No Sensor



最大静态力和力矩
Max Static Forces And Torques

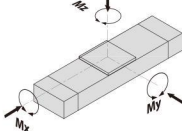


Table with 3 columns (Type, RLC125-C1, RLC125-C2) and 5 rows (F(y), F(z), M(x), M(y), M(z)).

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:

Equation: (Mx/Mx max) + (My/My max) + (Mz/Mz max) ≤ 1

搭配驱动器一览表
Driver

Table with 4 columns (Brand, Mark, Driver Model, Connection Signal) and 8 rows of driver options.

基本规格
Basic Specification

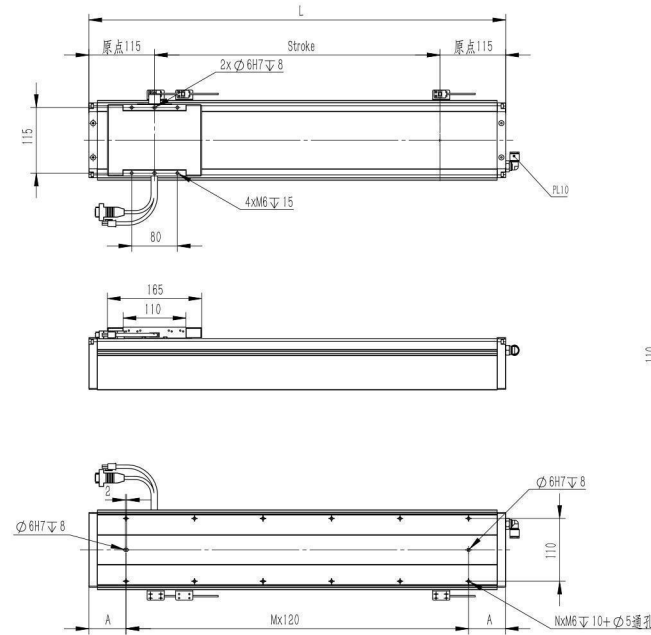
Table with 6 columns (Type, RLC125-C1, RLC125D2-C1, RLC125-C2, RLC125D2-C2) and 10 rows of technical specifications.

RLC 125

RLC系列有铁芯式线性马达驱动

RLC Series Linear Motor Driven Type With Iron Core

RLC125-C1

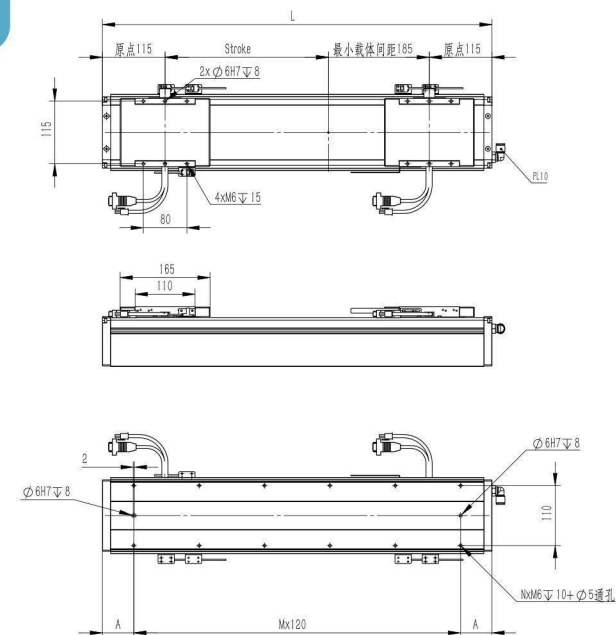


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530
M	2	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20
N	6	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65
重量 Weight (kg)	8.4	10.2	12.0	13.8	15.6	17.4	19.2	20.9	22.7	24.8	26.6	28.4	30.2	31.9	33.7	35.5	37.3	39.1	40.9	42.7	44.5	46.5	48.3

行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230	4330	4430	4530	4630	4730
M	21	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38
N	44	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78
A	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85
重量 Weight (kg)	50.1	51.9	53.7	55.5	57.3	59.1	60.8	62.6	64.4	66.2	68.3	70.1	71.9	73.6	75.4	77.2	79.0	80.8	82.6	84.4	86.2	88.0

RLC125D2-C1



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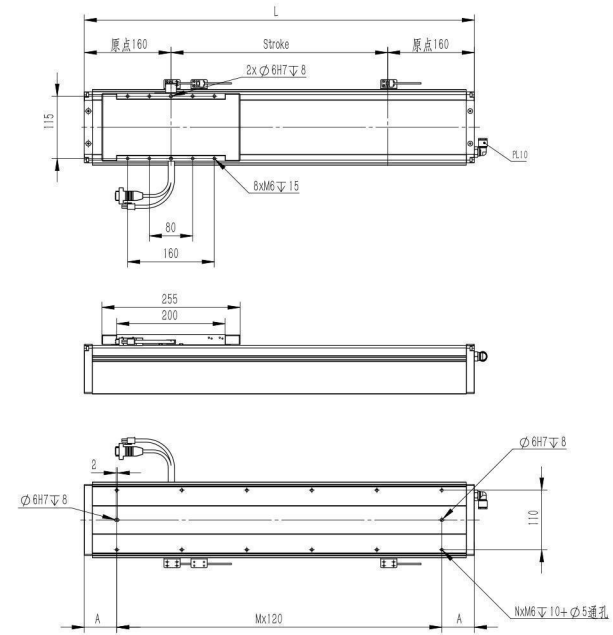
行程 Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长Length(L)	515	615	715	815	915	1015	1115	1215	1315	1415	1515	1615	1715	1815	1915	2015	2115	2215	2315	2415	2515	2615	2715
M	3	4	5	6	7	7	8	9	10	11	12	12	13	14	15	16	17	17	18	19	20	21	22
N	8	10	12	14	16	16	18	20	22	24	26	26	28	30	32	34	36	36	38	40	42	44	46
A	77.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5	67.5
重量Weight(kg)	14.6	16.4	18.2	19.9	21.7	23.5	25.3	27.1	28.9	30.7	32.5	34.5	36.3	38.1	39.9	41.7	43.5	45.3	47.1	48.8	50.6	52.4	54.2
行程Stroke(mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	
总长Length(L)	2815	2915	3015	3115	3215	3315	3415	3515	3615	3715	3815	3915	4015	4115	4215	4315	4415	4515	4615	4715	4815	4915	
M	22	23	24	25	26	27	27	28	29	30	31	32	32	33	34	35	36	37	37	38	39	40	
N	46	48	50	52	54	56	56	58	60	62	64	66	66	68	70	72	74	76	76	78	80	82	
A	87.5	77.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5
重量Weight(kg)	56.3	58.1	59.9	61.6	63.4	65.2	67.0	68.8	70.6	72.4	74.2	76.0	77.8	79.6	81.4	83.2	85.0	86.8	88.6	90.4	92.2	94.1	

RLC 125

RLC系列有铁芯式线性马达驱动

RLC Series Linear Motor Driven Type With Iron Core

RLC125-C2

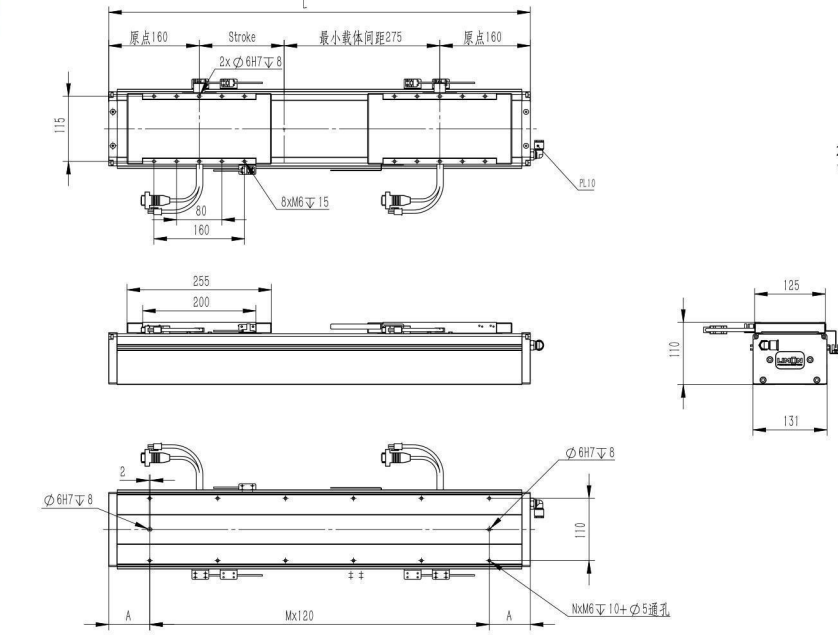


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420	2520	2620
M	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20	21
N	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42	44
A	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50
重量 Weight (kg)	11.9	13.7	15.5	17.3	19.1	20.8	22.6	24.4	26.2	28.0	29.8	31.9	33.6	35.4	37.2	39.0	40.8	42.6	44.4	46.2	48.0	49.8	51.5

行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320	4420	4520	4620	4720	4820
M	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38	39
N	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78	80
A	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70
重量 Weight (kg)	53.6	55.4	57.2	59.0	60.8	62.5	64.3	66.1	67.9	69.7	71.5	73.3	75.3	77.1	78.9	80.7	82.5	84.3	86.1	87.9	89.7	91.4

RLC125D2-C2



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行程 Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长Length(L)	695	795	895	995	1095	1195	1295	1395	1495	1595	1695	1795	1895	1995	2095	2195	2295	2395	2495	2595	2695	2795	2895
M	5	6	6	7	8	9	10	11	11	12	13	14	15	16	16	17	18	19	20	21	21	22	23
N	12	14	14	16	18	20	22	24	24	26	28	30	32	34	34	36	38	40	42	44	44	46	48
A	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5
重量Weight(kg)	20.8	22.6	24.6	26.4	28.2	30.0	31.8	33.6	35.4	37.2	39.0	40.7	42.5	44.3	46.4	48.2	50.0	51.7	53.5	55.3	57.1	58.9	60.7
行程Stroke(mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	
总长Length(L)	2995	3095	3195	3295	3395	3495	3595	3695	3795	3895	3995	4095	4195	4295	4395	4495	4595	4695	4795	4895	4995	5095	
M	24	25	26	26	27	28	29	30	31	31	32	33	34	35	36	36	37	38	39	40	41	41	
N	50	52	54	54	56	58	60	62	64	64	66	68	70	72	74	74	76	78	80	82	84	84	
A	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	
重量Weight(kg)	62.5	64.3	66.1	68.1	69.9	71.7	73.5	75.3	77.1	78.9	80.7	82.4	84.2	86.0	87.8	89.9	91.7	93.4	95.2	97.0	98.8	100.6	

RLC 150

RLC系列有铁芯式线性马达驱动
RLC Series Linear Motor Driven Type With Iron Core

型号订购码
Code

RLC 150

本体型号 Item NO.
RLC150 单动子型
Single Carriage
RLC150D2 双动子型
Double Carriage

C1

动子规格
Rotor Specification
C1:标准型动子
Standard Rotor
C2:加长型动子
Standard Rotor

500

行程 Stroke
100-4500,
间隔/Gap100

MS10

栅尺规格
Grating Ruler Specification
MS10
增量式磁栅 1μm分辨率
Incremental type magnetic grating 1μm resolution
MS10A
绝对式磁栅 1μm分辨率
Absolute type magnetic grating 1μm resolution
GS05
增量式光栅 0.5μm分辨率
Incremental type optical grating 0.5μm resolution
GS05A
绝对式光栅 0.5μm分辨率
Absolute type optical grating 0.5μm resolution
DS10
无栅尺编码器 1μm分辨率
Encoder 1μm resolution

LD

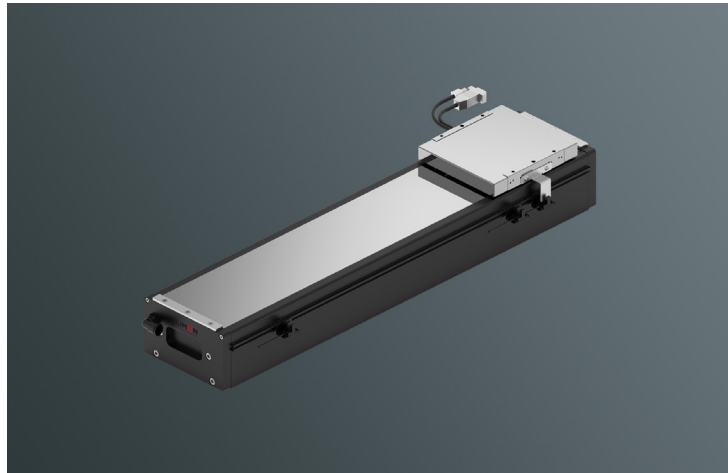
驱动器
Servo Driver
LD: 莱盟
Limon
SE: 高创
Servotronix
PA: 松下
Panasonic
MI: 三菱
Mitsubishi
N: 不含驱动器
(No Servo Driver)

3L

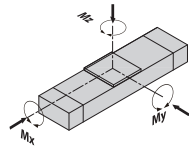
线缆长度
Wire Length
0L:不带线缆
(No Wire)
3L:3m
5L:5m
8L:8m
.....

P3

光电传感器数量
Photoelectric Sensor
P1:1个 1PC
P2:2个 2PCS
P3:3个 3PCS
未标记 无
No Mark/No Sensor



最大静态力和力矩
Max Static Forces And Torques



规格 Type	RLC150-C1	RLC150-C2
■F(y) (N)	5370	6980
■F(z) (N)	5370	6980
■M(x) (N·m)	142	142
■M(y) (N·m)	104	180
■M(z) (N·m)	346	582

除了满足最大负载和力矩外, 还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

搭配驱动器一览表 Driver

厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
莱盟 Limon	LD	LD-LP	脉冲
		LD-LE	EtherCAT
高创 Servotronix	SE	CDHD-AP1	脉冲
		CDHD-EC1	EtherCAT
松下 Panasonic	PA	MBDLN-SL	脉冲
		MBDLN-BL	EtherCAT
三菱 Mitsubishi	MI	MR-J4-A	脉冲
		MR-J4-B	SSCNET III/H

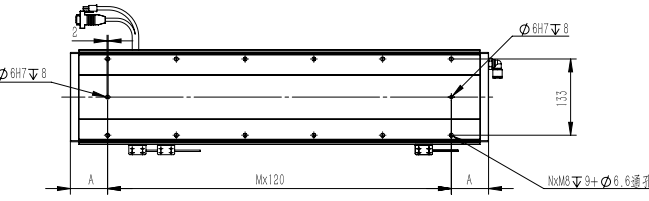
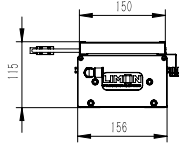
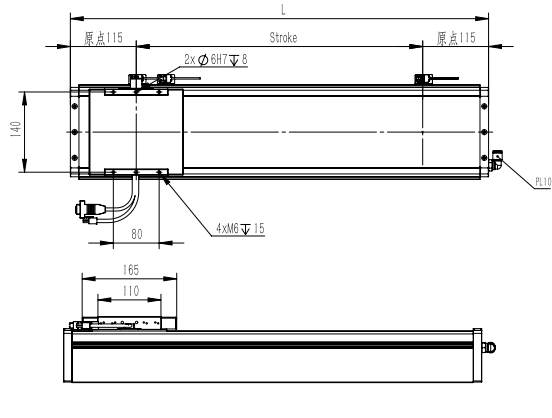
基本规格 Basic Specification

技术 参数 Technical Parameters	机型 Type		RLC150-C1	RLC150D2-C1	RLC150-C2	RLC150D2-C2
	驱动方式 Driving Method		有铁芯平板线性马达 Linear Motor Driven Type With Iron Core			
	位置重复精度(μ) Repetitive Accuracy		± 2 μ m			
	线性度 Strength	X-X	20 μ m/300mm			
		Y-Y	20 μ m/300mm			
	最大负载 (加速度1G工况下) Max load		40 kg		80kg	
	最大速度(MM/S) Max Speed		4 m/s			
最大加速度(M/S²) Max Accelerated Speed		4G				
马达 参数 Technical Parameters	峰值电流 (Peak Current)		7.2 Arms		21.9Arms	
	持续电流 (Continuous Current)		3.6 Arms		7.3 Arms	
	峰值推力 (Peak Thrust)		480 N		1200 N	
	持续推力 (N) Continuous Thrust(N)		240 N		480 N	
	相间电阻 (Interphase Resistance)		5.4Ω		2.8Ω	
	相间电感 (Interphase Inductance)		30 mH		16.1 mH	
	磁极距 (Maagnetic Pole Distance)		24mm			
基本 规格 Basic Specification	标准行程 (mm) Standard Stroke		100-4500 mm / 100 pitch			
	主机截面最大外形:Max Outline of Main Engine's Cross Section		135*96			
	原点感应器 Home Sensor		PM-Y45(NPN)			

RLC系列有铁芯式线性马达驱动
RLC Series Linear Motor Driven Type With Iron Core

RLC 150

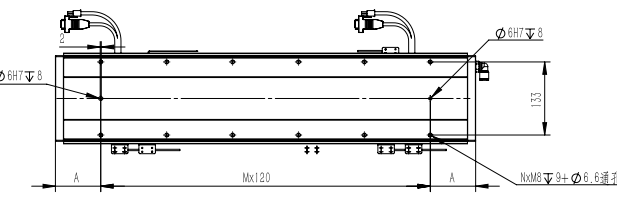
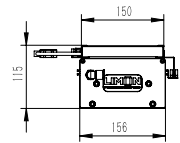
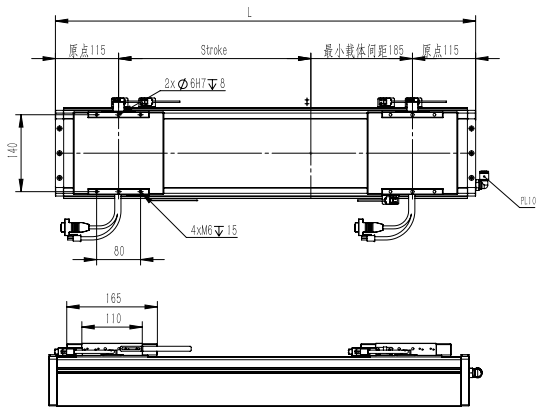
RLC150-C1



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530
M	2	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20
N	6	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65
重量 Weight (kg)	9.9	11.8	13.7	15.6	17.5	19.4	21.2	23.1	25.0	27.2	29.0	30.9	32.8	34.7	36.6	38.5	40.4	42.2	44.1	46.0	47.9	50.1	51.9

行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230	4330	4430	4530	4630	4730
M	21	22	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39
N	44	46	48	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80
A	55	45	35	25	75	65	55	45	35	25	75	65	55	45	35	25	75	65	55	45	35	25
重量 Weight (kg)	53.8	55.7	57.6	59.5	61.4	63.3	65.1	67.0	68.9	70.8	72.9	74.8	76.7	78.6	80.5	82.4	84.3	86.1	88.0	89.9	91.8	93.7

RLC150D2-C1



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	515	615	715	815	915	1015	1115	1215	1315	1415	1515	1615	1715	1815	1915	2015	2115	2215	2315	2415	2515	2615	2715
M	3	4	5	6	7	7	8	9	10	11	12	12	13	14	15	16	17	17	18	19	20	21	22
N	8	10	12	14	16	16	18	20	22	24	26	26	28	30	32	34	36	36	38	40	42	44	46
A	77.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5	67.5
重量 Weight (kg)	16.8	18.7	20.6	22.5	24.3	26.2	28.1	30.0	31.9	33.8	35.7	37.8	39.7	41.6	43.5	45.3	47.2	49.1	51.0	52.9	54.8	56.7	58.5

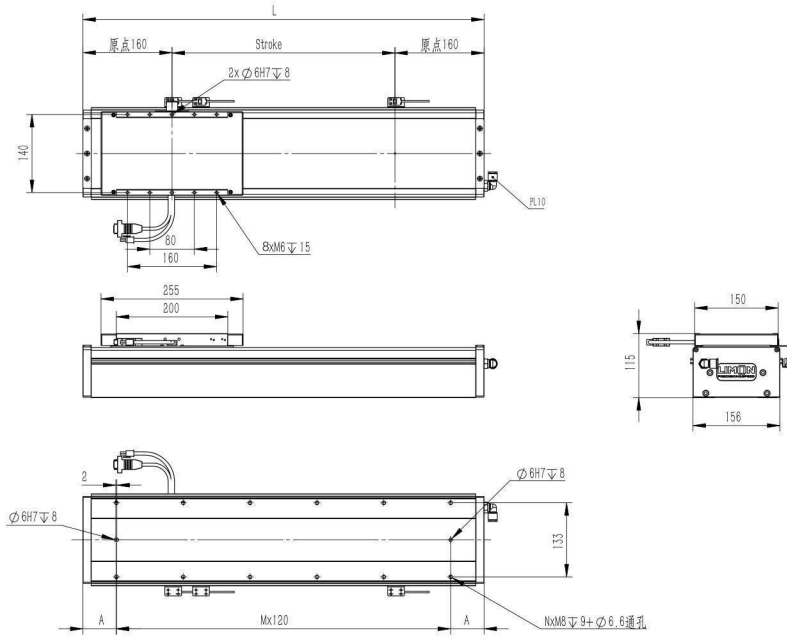
行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	2815	2915	3015	3115	3215	3315	3415	3515	3615	3715	3815	3915	4015	4115	4215	4315	4415	4515	4615	4715	4815	4915
M	22	23	24	25	26	27	28	29	30	31	32	32	33	34	35	36	37	37	38	39	40	41
N	46	48	50	52	54	56	58	60	62	64	66	66	68	70	72	74	76	76	78	80	82	84
A	87.5	77.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5	67.5	57.5	47.5	37.5	27.5	17.5
重量 Weight (kg)	60.7	62.6	64.5	66.4	68.2	70.1	72.0	73.9	75.8	77.7	79.6	81.4	83.6	85.5	87.4	89.2	91.1	93.0	94.9	96.8	98.7	100.6

RLC 150

RLC系列有铁芯式线性马达驱动

RLC Series Linear Motor Driven Type With Iron Core

RLC150-C2

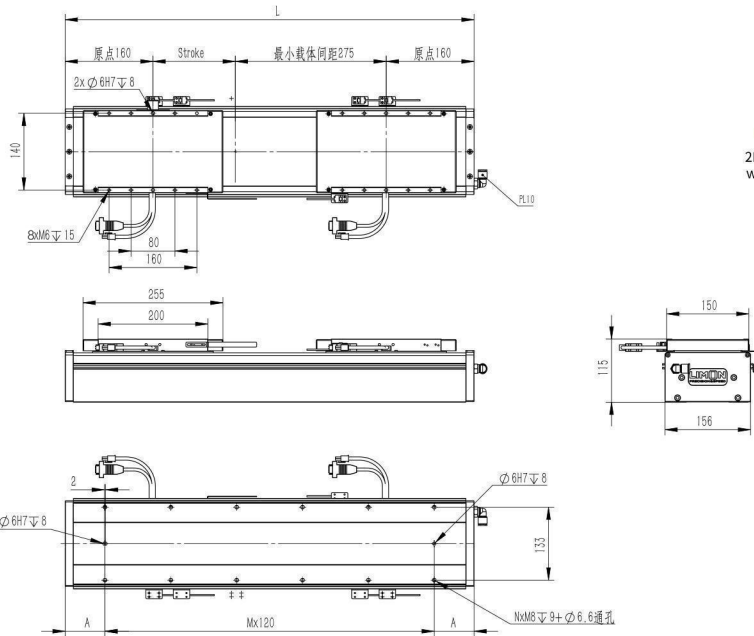


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420	2520	2620
M	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20	21
N	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42	44
A	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50
重量 Weight (kg)	13.8	15.7	17.6	19.5	21.4	23.3	25.2	27.0	28.9	30.8	32.7	34.8	36.7	38.6	40.5	42.4	44.3	46.2	48.0	49.9	51.8	53.7	55.6

行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320	4420	4520	4620	4720	4820
M	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38	39
N	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78	80
A	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70
重量 Weight (kg)	57.7	59.6	61.5	63.4	65.3	67.2	69.0	70.9	72.8	74.7	76.6	78.5	80.6	82.5	84.4	86.3	88.2	90.1	91.9	93.8	95.7	97.6

RLC150D2-C2



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	695	795	895	995	1095	1195	1295	1395	1495	1595	1695	1795	1895	1995	2095	2195	2295	2395	2495	2595	2695	2795	2895
M	5	6	6	7	8	9	10	11	11	12	13	14	15	16	16	17	18	19	20	21	21	22	23
N	12	14	14	16	18	20	22	24	24	26	28	30	32	34	34	36	38	40	42	44	44	46	48
A	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5
重量 Weight (kg)	23.7	25.5	27.5	29.3	31.1	32.9	34.7	36.5	38.2	40.0	41.8	43.6	45.4	47.2	49.2	51.0	52.8	54.6	56.4	58.1	59.9	61.7	63.5

行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	2995	3095	3195	3295	3395	3495	3595	3695	3795	3895	3995	4095	4195	4295	4395	4495	4595	4695	4795	4895	4995	5095
M	24	25	26	26	27	28	29	30	31	31	32	33	34	35	36	37	38	39	40	41	41	42
N	50	52	54	54	56	58	60	62	64	64	66	68	70	72	74	74	76	78	80	82	84	84
A	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5
重量 Weight (kg)	65.3	67.1	68.9	70.9	72.7	74.5	76.3	78.1	79.8	81.6	83.4	85.2	87.0	88.8	90.6	92.6	94.4	96.2	98.0	99.8	101.5	103.3

RLC 175

RLC系列有铁芯式线性马达驱动

RLC Series Linear Motor Driven Type With Iron Core

型号订购码 Code

RLC 175

本体型号 Item NO.
RLC175 单动子型
Single Carriage
RLC175D2 双动子型
Double Carriage

C1

动子规格
Rotor Specification
C1:标准型动子
Standard Rotor
C2:加长型动子
Standard Rotor

500

行程 Stroke
100-4500,
间隔/Gap100

MS10

栅尺规格
Grating Ruler Specification
MS10
增量式磁栅 1μm分辨率
Incremental type magnetic grating 1μm resolution
MS10A
绝对式磁栅 1μm分辨率
Absolute type magnetic grating 1μm resolution
GS05
增量式光栅 0.5μm分辨率
Incremental type optical grating 0.5μm resolution
GS05A
绝对式光栅 0.5μm分辨率
Absolute type optical grating 0.5μm resolution
DS10
无栅尺编码器 1μm分辨率
Encoder 1μm resolution

LD

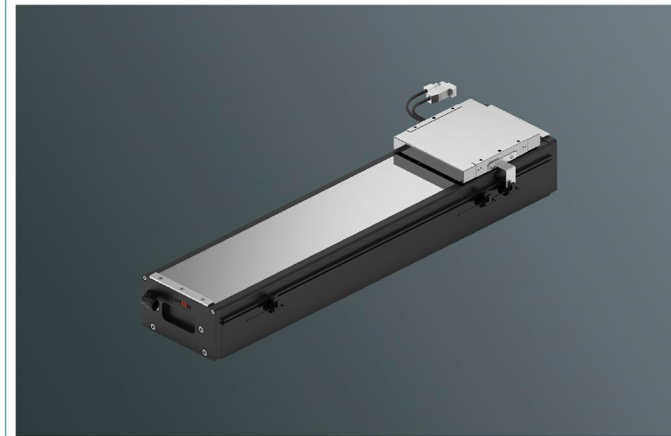
驱动器
Servo Driver
LD: 莱盟
Limon
SE: 高创
Servotronics
PA: 松下
Panasonic
MI: 三菱
Mitsubishi
N: 不含驱动器
(No Servo Driver)

3L

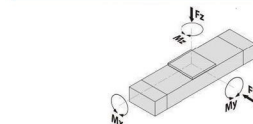
线缆长度
Wire Length
0L: 不带线缆
(No Wire)
3L: 3m
5L: 5m
8L: 8m
.....

P3

光电传感器数量
Photoelectric Sensor
P1: 1个 1PC
P2: 2个 2PCS
P3: 3个 3PCS
未标记 无
No Mark/No Sensor



最大动态力和力矩
Max Permissible Forces And Torques



Type	4P
F(y) (N)	7463
F(z) (N)	7463
M(x) (N · m)	339
M(y) (N · m)	178
M(z) (N · m)	742

除了满足最大负载和力矩外，还必须满足以下公式：
All forces and torques relate to the following:
$$\frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

搭配驱动器一览表 Driver

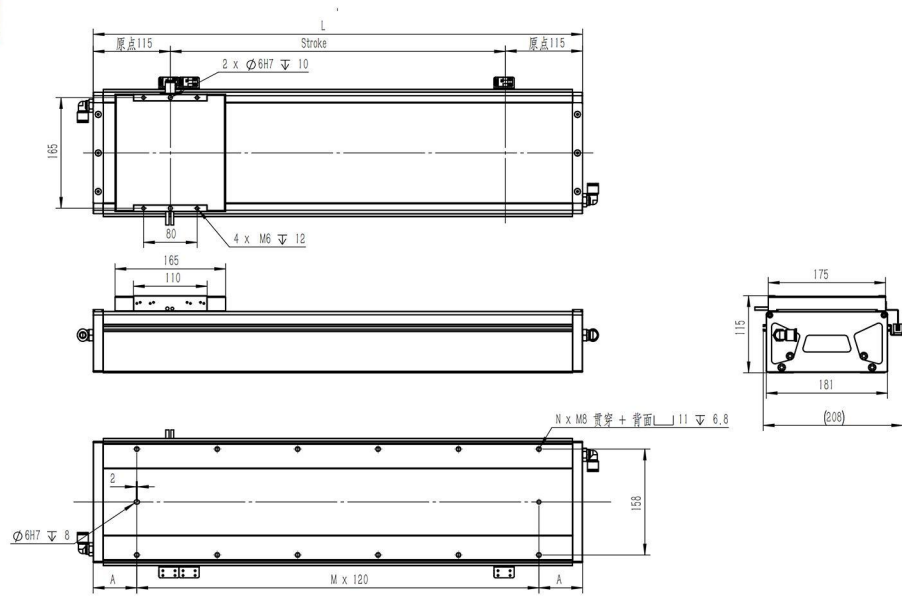
厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
莱盟 Limon	LD	LD-LP	脉冲
		LD-LE	EtherCAT
高创 Servotronics	SE	CDHD-AP1	脉冲
		CDHD-EC1	EtherCAT
松下 Panasonic	PA	MBDLN-SL	脉冲
		MBDLN-BL	EtherCAT
三菱 Mitsubishi	MI	MR-J4-A	脉冲
		MR-J4-B	SSCNET III /H

基本规格 Basic Specification

	机型 Type		RLC175-C1	RLC175D2-C1	RLC175-C2	RLC175D2-C2	
技术 参数	驱动方式 <i>Driving Method</i>		有铁芯平板线性马达 <i>Linear Motor Driven Type With Iron Core</i>				
	位置重复精度(μ) <i>Repetitive Accuracy</i>		±2μm				
	线性度 <i>Strength</i>	X-X	20μm/300mm				
		Y-Y	20μm/300mm				
	Technical Parameters	最大负载(加速度1G工况下) <i>Max load</i>		40 kg		80 kg	
最大速度 <i>Max Speed</i>		4 m/s					
最大加速度 <i>Max Accelerated Speed</i>		3 G		4 G			
马达 参数	峰值电流 <i>Peak Current</i>		9.1 Arms		18.2 Arms		
	持续电流 <i>Continuous Current</i>		3.6 Arms		7.2 Arms		
	峰值推力 <i>Peak Thrust</i>		550 N		1200 N		
	持续推力 <i>Continuous Thrust</i>		220 N		480N		
	推力常数 <i>Force Constant</i>		61 N/Arms		66 N/Arms		
	Technical Parameters	相间电阻 <i>Interphase Resistance</i>		5.4 Ω		2.8 Ω	
		相间电感 <i>Interphase Inductance</i>		18.1 mH		16.3 mH	
		反电势常数 <i>EMF constant</i>		27Vrms/m/s		54.1Vrms/m/s	
基本 规格	磁极距 <i>Maagnetic Pole Distance</i>		24mm				
	标准行程 <i>Standard Stroke</i>		100-4500 mm / 100 pitch				
	主机截面最大外形: <i>Max Outline of Main Engine's Cross Section</i>		208*115 mm				
Basic Specification	原点感应器 <i>Home Sensor</i>		PM-Y45(NPN)				

RLC 175 RLC系列有铁芯式线性马达驱动 RLC Series Linear Motor Driven Type With Iron Core

RLC 175-C1

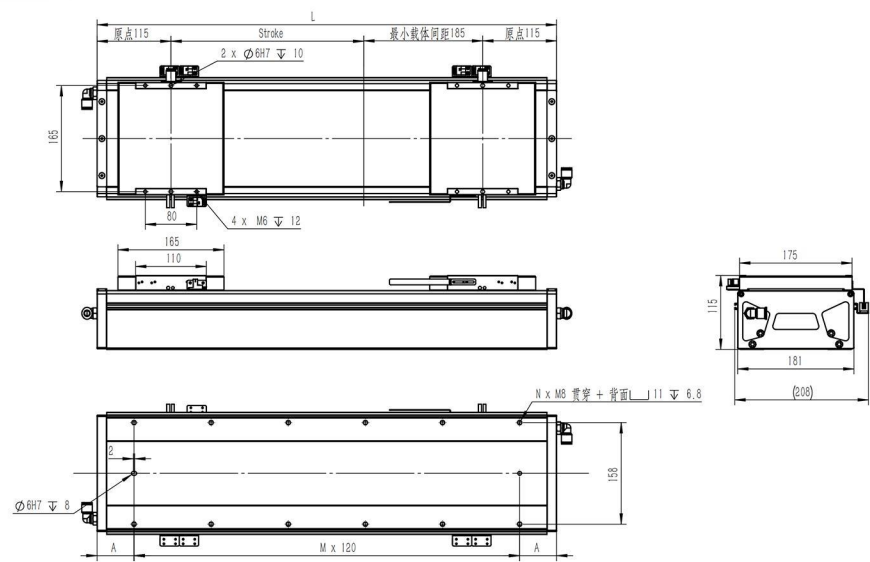


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行程Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长Length(L)	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530
M	2	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20
N	6	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65
重量Weight(kg)	11.6	13.7	15.8	17.8	19.9	22.0	24.0	26.1	28.2	30.4	32.5	34.6	36.6	38.7	40.8	42.8	44.9	47.0	49.0	51.1	53.2	55.4	57.5
行程Stroke(mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	
总长Length(L)	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230	4330	4430	4530	4630	4730	
M	21	22	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38		
N	44	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78	
A	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	
重量Weight(kg)	59.6	61.6	63.7	65.8	67.8	69.9	72.0	74.0	76.1	78.2	80.4	82.5	84.5	86.6	88.7	90.7	92.8	94.9	96.9	99.0	101.1	103.1	

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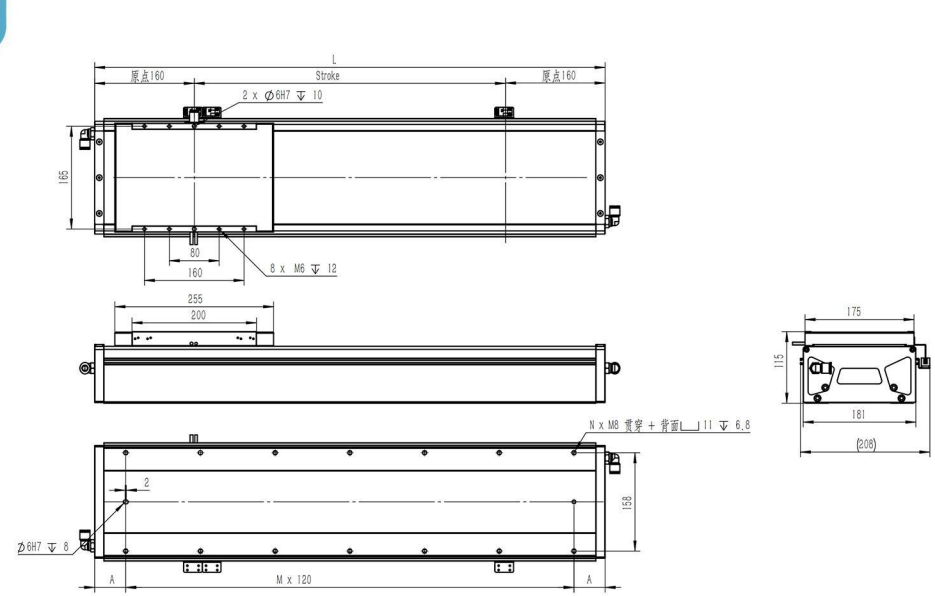
RLC 175D2-C1



行程Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长Length(L)	515	615	715	815	915	1015	1115	1215	1315	1415	1515	1615	1715	1815	1915	2015	2115	2215	2315	2415	2515	2615	2715
M	3	4	5	6	7	7	8	9	10	11	12	13	14	15	16	17	17	18	19	20	21	22	
N	8	10	12	14	16	16	18	20	22	24	26	28	30	32	34	36	36	38	40	42	44	46	
A	77.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5	
重量Weight(kg)	19.7	21.8	23.8	25.9	28.0	30.0	32.1	34.2	36.2	38.3	40.4	42.6	44.7	46.8	48.8	50.9	53.0	55.0	57.1	59.2	61.2	63.3	65.4
行程Stroke(mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	
总长Length(L)	2815	2915	3015	3115	3215	3315	3415	3515	3615	3715	3815	3915	4015	4115	4215	4315	4415	4515	4615	4715	4815	4915	
M	22	23	24	25	26	27	27	28	29	30	31	32	32	33	34	35	36	37	37	38	39	40	
N	46	48	50	52	54	56	58	60	62	64	66	66	68	70	72	74	76	76	78	80	82		
A	87.5	77.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5	67.5	57.5	47.5	37.5	27.5	17.5	7.5	67.5	57.5	47.5	37.5	27.5	17.5	
重量Weight(kg)	67.6	69.7	71.8	73.8	75.9	78.0	80.0	82.1	84.2	86.2	88.3	90.4	92.6	94.7	96.7	98.8	100.9	102.9	105.0	107.1	109.1	111.2	

RLC系列有铁芯式线性马达驱动 RLC Series Linear Motor Driven Type With Iron Core RLC 175

RLC 175-C2

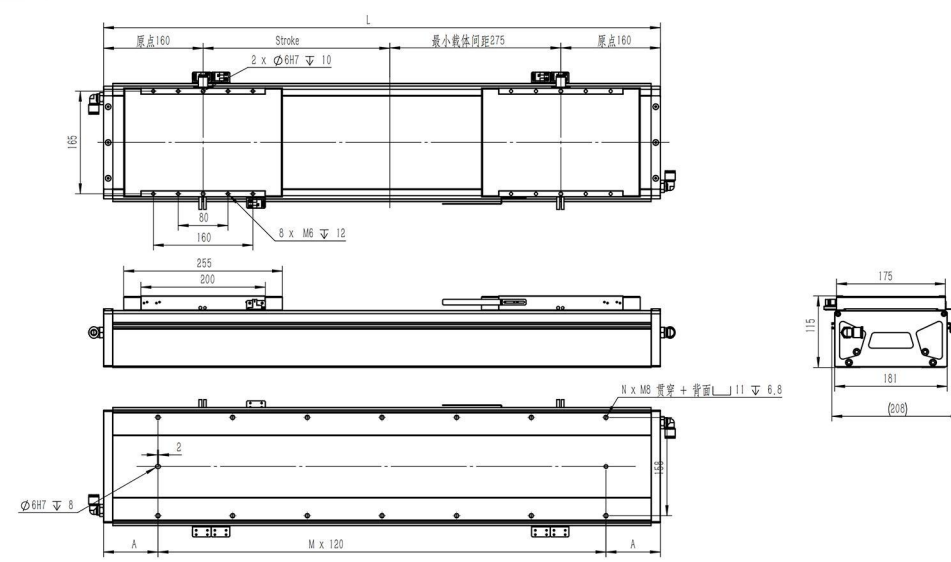


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行程Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长Length(L)	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420	2520	2620
M	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20	21
N	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42	44
A	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50
重量Weight(kg)	16.5	18.6	20.7	22.7	24.8	26.9	28.9	31.0	33.1	35.1	37.2	39.5	41.5	43.6	45.7	47.7	49.8	51.9	53.9	56.0	58.1	60.1	62.2
行程Stroke(mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	
总长Length(L)	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320	4420	4520	4620	4720	4820	
M	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38	39	
N	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78	80	
A	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	
重量Weight(kg)	64.4	66.5	68.6	70.6	72.7	74.8	76.8	78.9	81.0	83.0	85.1	87.2	89.4	91.5	93.6	95.6	97.7	99.8	101.8	103.9	106.0	108.0	

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RLC 175D2-C2



行程Stroke(mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长Length(L)	695	795	895	995	1095	1195	1295	1395	1495	1595	1695	1795	1895	1995	2095	2195	2295	2395	2495	2595	2695	2795	2895
M	5	6	6	7	8	9	10	11	11	12	13	14	15	16	16	17	18	19	20	21	21	22	23
N	12	14	14	16	18	20	22	24	24	26	28	30	32	34	34	36	38	40	42	44	44	46	48
A	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5
重量Weight(kg)	29.3	31.4	33.6	35.7	37.7	39.8	41.9	43.9	46.0	48.1	50.1	52.2	54.3	56.3	58.6	60.7	62.7	64.8	66.9	68.9	71.0	73.1	75.1
行程Stroke(mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	
总长Length(L)	2995	3095	3195	3295	3395	3495	3595	3695	3795	3895	3995	4095	4195	4295	4395	4495	4595	4695	4795	4895	4995	5095	
M	24	25	26	26	27	28	29	30	31	31	32	33	34	35	36	36	37	38	39	40	41	41	
N	50	52	54	54	56	58	60	62	64	64	66	68	70	72	74	74	76	78	80	82	84	84	
A	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	
重量Weight(kg)	77.2	79.3	81.3	83.6	85.7	87.7	89.8	91.9	93.9	96.0	98.1	100.1	102.2	104.3	106.3	108.6	110.6	112.7	114.8	116.8	118.9	121.0	

RLC Series

RLC 220 RLC系列有铁芯式线性马达驱动

型号订购码 Code

RLC 220

C1

500

MS10

LD

3L

P3

本体型号 Item NO.
RLC220 单动子型
Single Carriage
RLC220D2 双动子型
Double Carriage

动子规格
Rotor Specification
C1:标准型动子
Standard Rotor
C2:加长型动子
Standard Rotor

行程 Stroke
100-4500,
间隔/Gap100

栅尺规格
Grating Ruler Specification
MS10
增量式磁栅 1μm分辨率
Incremental type magnetic grating 1μm resolution
MS10A
绝对式磁栅 1μm分辨率
Absolute type magnetic grating 1μm resolution
GS05
增量式光栅 0.5μm分辨率
Incremental type optical grating 0.5μm resolution
GS05A
绝对式光栅 0.5μm分辨率
Absolute type optical grating 0.5μm resolution
DS10
无栅尺编码器 1μm分辨率
Encoder 1μm resolution

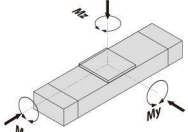
驱动器
Servo Driver
LD: 莱盟
Limon
SE: 高创
Servotronics
PA: 松下
Panasonic
MI: 三菱
Mitsubishi
N: 不含驱动器
(No Servo Driver)

线缆长度
Wire Length
0L: 不带线缆
(No Wire)
3L: 3m
5L: 5m
8L: 8m
.....

光电传感器数量
Photoelectric Sensor
P1: 1个 1PC
P2: 2个 2PCS
P3: 3个 3PCS
未标记 无
No Mark/No Sensor



最大静态力和力矩
Max Static Forces And Torques



规格 Type	RLC220-C1	RLC220-C2
■ F(y) (N)	8072	8072
■ F(z) (N)	8072	8072
■ M(x) (N · m)	406	406
■ M(y) (N · m)	215	420
■ M(z) (N · m)	420	600

除了满足最大负载和力矩外,还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

搭配驱动器一览表 Driver

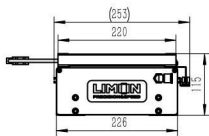
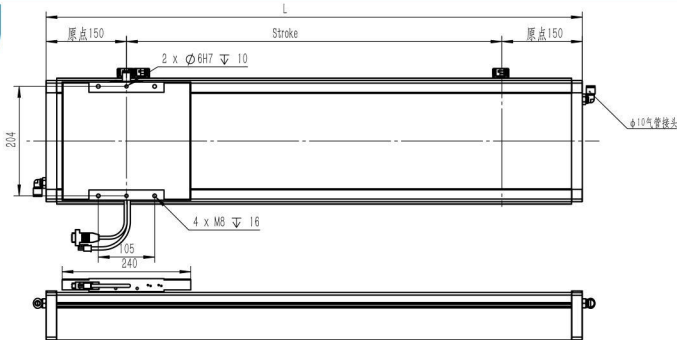
厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
莱盟 Limon	LD	LD-LP	脉冲
		LD-LE	EtherCAT
高创 Servotronics	SE	CDHD-AP1	脉冲
		CDHD-EC1	EtherCAT
松下 Panasonic	PA	MBDLN-SL	脉冲
		MBDLN-BL	EtherCAT
三菱 Mitsubishi	MI	MR-J4-A	脉冲
		MR-J4-B	SSCNET III/H

基本规格 Basic Specification

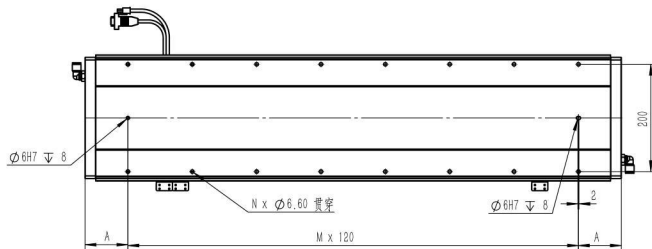
机型 Type	RLC220-C1	RLC220D2-C1	RLC220-C2	RLC220D2-C2
技术参数 Technical Parameters	驱动方式 Driving Method			
	有铁芯平板线性马达 Linear Motor Driven Type With Iron Core			
	位置重复精度(μ) Repetitive Accuracy			
	± 2 μ m			
	线性度 Strength			
马达参数 Technical Parameters	X-X			
	20 μ m/300mm			
	Y-Y			
	20 μ m/300mm			
	最大负载(加速度1G工况下) Max load			
基本规格 Basic Specification	60 kg			
	最大速度(MM/S) Max Speed			
	4 m/s			
	最大加速度(M/S²) Max Accelerated Speed			
	4G			
马达参数 Technical Parameters	峰值电流(Peak Current)			
	9.6 Arms			
	持续电流(Continuous Current)			
	3.6 Arms			
	峰值推力(Peak Thrust)			
基本规格 Basic Specification	900 N			
	持续推力(N) Continuous Thrust(N)			
	340 N			
	相间电阻(Interphase Resistance)			
	7.5Ω			
基本规格 Basic Specification	相间电感(Interphase Inductance)			
	42.3 mH			
	磁极距(Maagnetic Pole Distance)			
	24mm			
基本规格 Basic Specification	标准行程(mm) Standard Stroke			
	100-4500 mm / 100 pitch			
	主机截面最大外形:Max Outline of Main Engine's Cross Section			
基本规格 Basic Specification	226*115			
	原点感应器 Home Sensor			
基本规格 Basic Specification	PM-Y45(NPN)			

RLC系列有铁芯式线性马达驱动 RLC 220

RLC220-C1



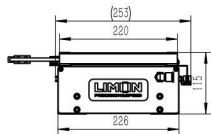
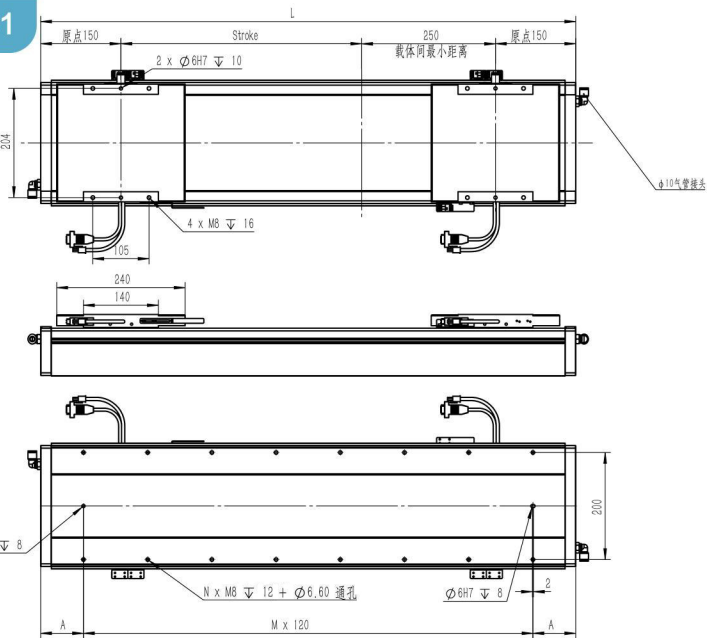
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
M	2	3	4	5	6	6	7	8	9	10	11	11	12	13	14	15	16	16	17	18	19	20	21
N	6	8	10	12	14	14	16	18	20	22	24	24	26	28	30	32	34	34	36	38	40	42	44
A	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40
重量 Weight (kg)	17.1	19.7	22.3	25.0	27.6	30.2	32.9	35.8	38.4	41.0	43.7	46.3	49.0	51.6	54.2	56.9	59.5	62.1	64.8	67.7	70.3	72.9	75.6

行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	2650	2750	2850	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750
M	21	22	23	24	24	25	26	27	28	29	30	31	32	33	34	34	35	36	37	38	39	
N	44	46	48	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80
A	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35
重量 Weight (kg)	78.2	80.8	83.5	86.1	88.7	91.4	94.0	96.6	99.5	102.2	104.8	107.4	110.1	112.7	115.4	118.0	120.6	123.3	125.9	128.5	131.4	134.1

RLC220D2-C1



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850
M	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22	23
N	10	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42	44	46	48
A	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45
重量 Weight (kg)	29.7	32.4	35.0	37.6	40.5	43.2	45.8	48.4	51.1	53.7	56.4	59.0	61.6	64.3	66.9	69.5	72.4	75.1	77.7	80.3	83.0	85.6	88.2

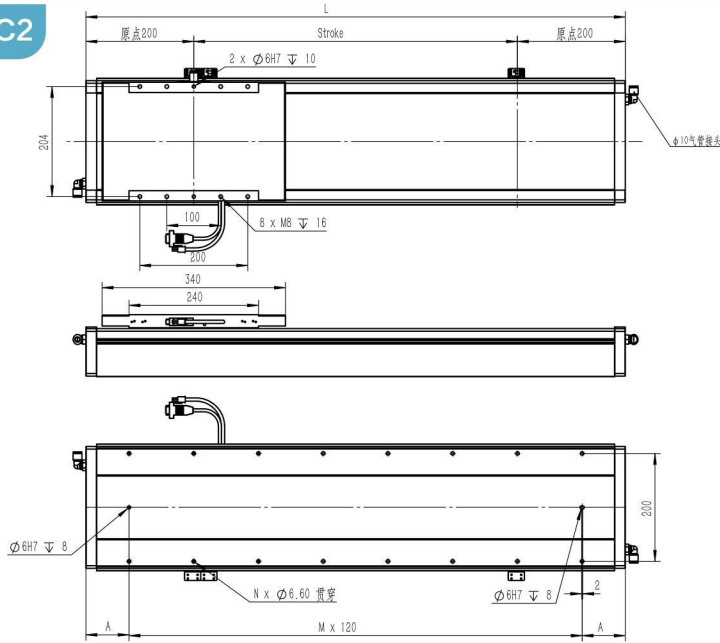
行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850	4950	5050
M	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39	39	40	41
N	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80	82	84
A	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65
重量 Weight (kg)	90.9	93.5	96.1	98.8	101.4	104.3	106.9	109.6	112.2	114.8	117.5	120.1	122.8	125.4	128.0	130.7	133.3	136.2	138.8	141.5	144.1	146.7

RLC 220

RLC系列有铁芯式线性马达驱动

RLC Series Linear Motor Driven Type With Iron Core

RLC220-C2

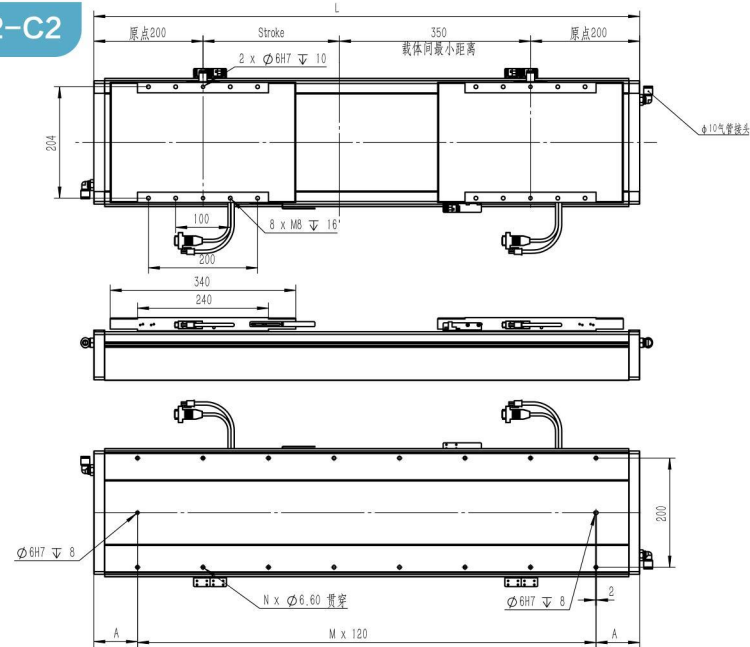


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length(L)	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700
M	3	4	5	6	6	7	8	9	10	11	11	12	13	14	15	16	16	17	18	19	20	21	21
N	8	10	12	14	14	16	18	20	22	24	24	26	28	30	32	34	34	36	38	40	42	44	44
A	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90
重量 Weight (kg)	23.8	26.4	29.0	31.7	34.3	36.9	39.8	42.5	45.1	47.7	50.4	53.0	55.6	58.3	60.9	63.5	66.2	68.8	71.7	74.3	77.0	79.6	82.2

行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length(L)	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900
M	22	23	24	25	26	26	27	28	29	30	31	31	32	33	34	35	36	36	37	38	39	40
N	46	48	50	52	54	54	56	58	60	62	64	64	66	68	70	72	74	74	76	78	80	82
A	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50
重量 Weight (kg)	84.9	87.5	90.2	92.8	95.4	98.1	100.7	103.6	106.2	108.9	111.5	114.1	116.8	119.4	122.0	124.7	127.3	129.9	132.6	135.5	138.1	140.7

RLC220D2-C2



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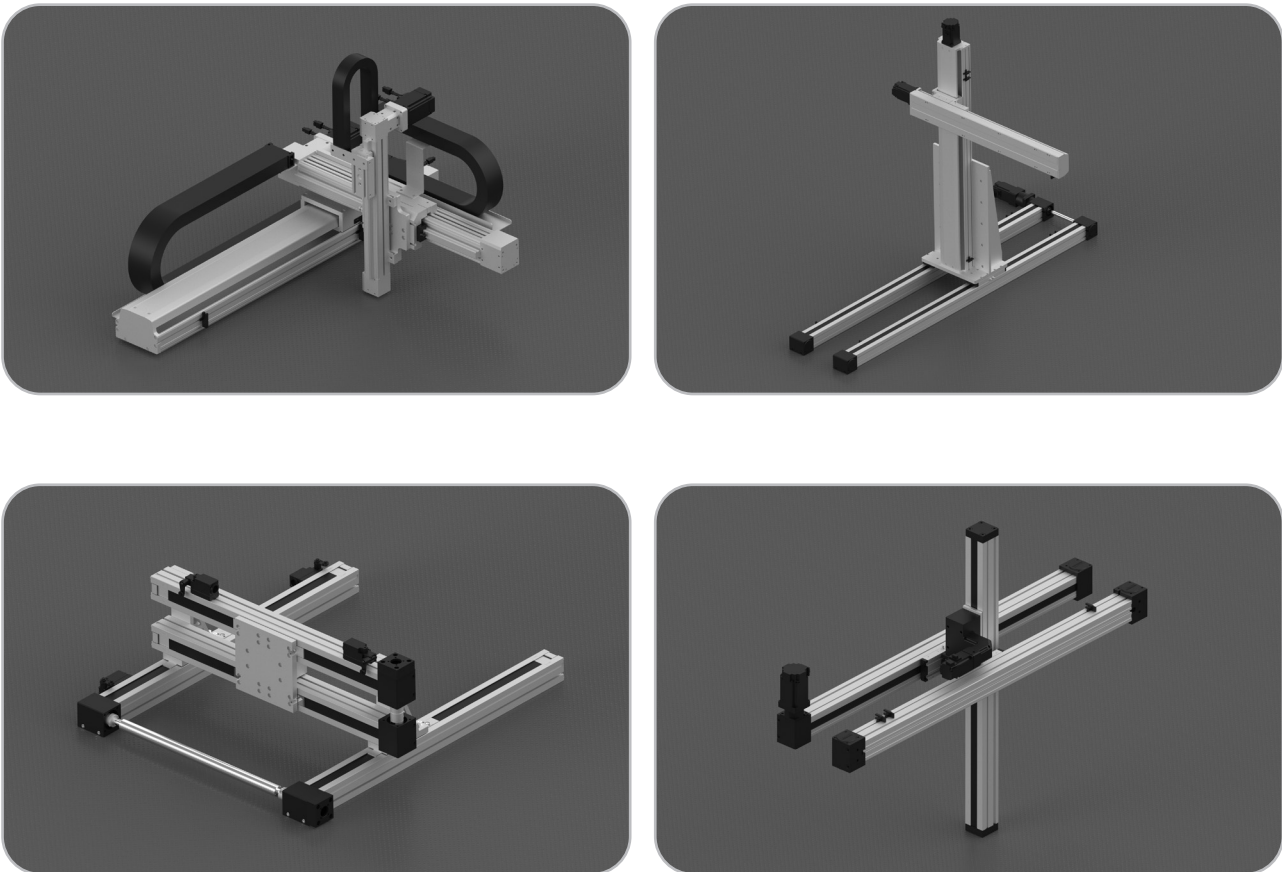
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
M	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22	23	24	24
N	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42	44	46	48	50	50
A	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85
重量 Weight (kg)	43.1	45.7	48.6	51.3	53.9	56.5	59.2	61.8	64.4	67.1	69.7	72.4	75.0	77.6	80.5	83.2	85.8	88.4	91.1	93.7	96.3	99.0	101.6

行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length (L)	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850	4950	5050	5150	5250
M	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39	39	40	41	42	43
N	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80	82	84	86	88
A	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45
重量 Weight (kg)	104.2	106.9	109.5	112.4	115.0	117.7	120.3	122.9	125.6	128.2	130.8	133.5	136.1	138.7	141.4	144.3	146.9	149.6	152.2	154.8	157.5	160.1

多轴组合 Multiaxis System

Limon提供丰富的完整直线单元运动系统设计所需的支架和安装组件。在我们的电机和驱动套装交付的同时, 我们亦会为您提供一个完整的解决方案。尺寸选定和系统选型请联系我们获取详细信息。

Linear Motion Systems can be used in almost all industries . The breadth of our range makes it possible to find the optimum solution for most applications imaginable. If the standard range is not enough, Limon is happy to discuss a custom solution that meets your needs. Contact us and we can show you many, many more.



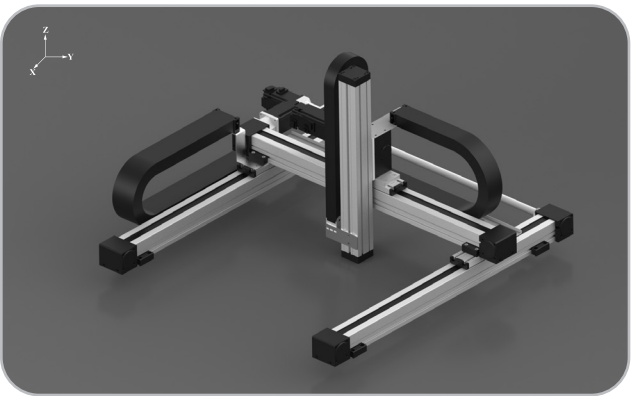
Note:
All indicated item, must be chosen with linear guide.The load capacity will decline if the arm is in overlong length.For actual figure required,please contact limon robot.
We offer all necessary fittings including brackets,clamping fixtures and adapter plates in order to build multi-axis systems. Besides standard elements,we also supply customized non-standard elements manufactured in our workshop.

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Multiaxis System 多轴组合

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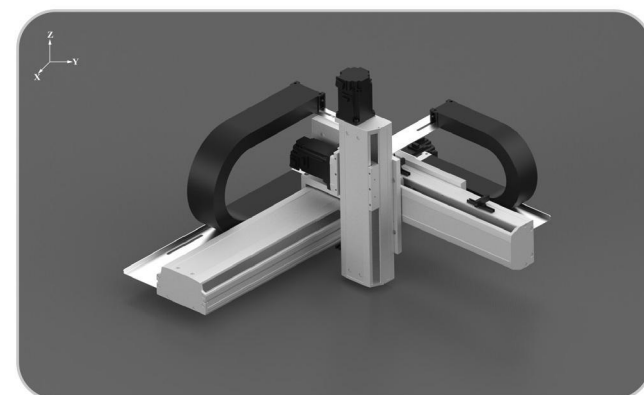
■多轴组合模块						
	Ixyz60			Ixyz80		
	X轴/ X Axis	Y轴/ Y Axis	Z轴/ Z Axis	X轴/ X Axis	Y轴/ Y Axis	Z轴/ Z Axis
轴组成 Axis Composition	ITO60	ITO60	ITZ60	ITO80	ITO80	ITZ60
重复定位精度 (mm) Repetitive Accuracy	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
驱动方式 Driving Method	同步带/ Belt	同步带/ Belt	同步带/ Belt	同步带/ Belt	同步带/ Belt	同步带/ Belt
最高速度 (mm/s) Max Speed	2000	2000	1000	2000	2000	1000
最大行程 (mm) Max Stroke	4000	1500	1000	4000	2500	1000
最大搬运负载 (kg) Max Transport Load	5kg			12kg		

Note:
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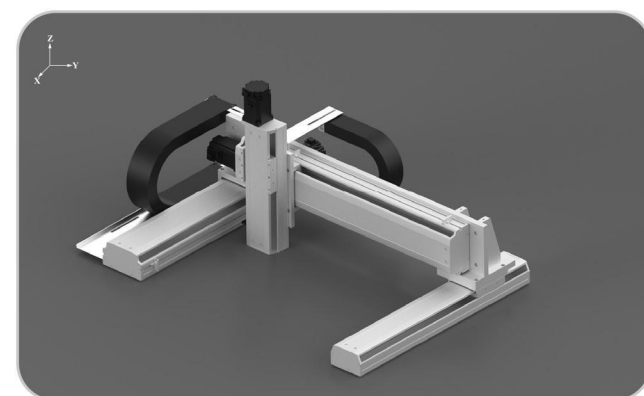
Limon提供丰富的完整直线单元运动系统设计所需的支架和安装组件。在我们的电机和驱动套装交付的同时, 我们亦会为您提供一个完整的解决方案。尺寸选定和系统选型请联系我们获取详细信息。

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■多轴组合模块

	Yxyz110-XB			Yxyz135-XB		
	X轴/ X Axis	Y轴/ Y Axis	Z轴/ Z Axis	X轴/ X Axis	Y轴/ Y Axis	Z轴/ Z Axis
轴组成 Axis Composition	GSC80	GSC80	GSC50	YSO135	YSO135	GSC80
重复定位精度 (mm) Repetitive Accuracy	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
驱动方式 Driving Method	滚珠丝 杆Ball Screw	滚珠丝 杆Ball Screw	滚珠丝 杆Ball Screw	滚珠丝 杆Ball Screw	滚珠丝 杆Ball Screw	滚珠丝 杆Ball Screw
最高速度 (mm/s) Max Speed	1000	1000	500	1000	1000	500
最大行程 (mm) Max Stroke	1050	450	250	1250	550	350
Z轴行程 / Z Axis Stroke						
Y轴行程 (mm) Y Axis Stroke	150	250	-	150	250	350
最大搬运负载 (kg) Max Transport Load	150	5kg	5kg	-	10kg	10kg
	250	5kg	5kg	-	9kg	8kg
	350	5kg	5kg	-	7kg	6kg
	450	-	-	-	5kg	4kg
	550	-	-	-	3kg	2kg



■多轴组合模块

	Yxyz110-LM			Yxyz135-LM		
	X轴/ X Axis	Y轴/ Y Axis	Z轴/ Z Axis	X轴/ X Axis	Y轴/ Y Axis	Z轴/ Z Axis
轴组成 Axis Composition	GSC80	GSC80	GSC50	YSO135	YSO135	GSC80
重复定位精度 (mm) Repetitive Accuracy	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
驱动方式 Driving Method	滚珠丝杆 Ball Screw	滚珠丝杆 Ball Screw	滚珠丝杆 Ball Screw	滚珠丝杆 Ball Screw	滚珠丝杆 Ball Screw	滚珠丝杆 Ball Screw
最高速度 (mm/s) Max Speed	1000	1000	500	1000	1000	500
最大行程 (mm) Max Stroke	1050	650	250	1250	550	350
Z轴行程 / Z Axis Stroke						
Y轴行程 (mm) Y Axis Stroke	100-250			100-350		
最大搬运负载 (kg) Max Transport Load	150- 650	5kg		15kg		

Note:

All indicated item, must be chosen with linear guide.The load capacity will decline if the arm is in overlong length.For actual figure required,please contact limon robot. We offer all necessary fittings including brackets,clamping fixtures and adapter plates in order to build multi-axis systems. Besides standard elements,we also supply customized non-standard elements manufactured in our workshop.

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進給力算式 [N]

$$F_x = m \times g \times \mu$$

F_x = 進給力 [N]
 m = 待移動的總質量 [kg] ¹
 g = 重力加速度 [m/s²]
 μ = 每個單元的摩擦係數

加速力算式 [N]

$$F_a = m \times a$$

F_a = 加速力 [N]
 m = 待運轉的質量 [kg]
 a = 加速度 [m/s²] ²

功率算式 [KW]

$$P = \frac{M_A \times n_{\max} \times 2 \times 3,14}{60 \times 1000}$$

P = 所需功率 [kW]
 M_A = 所需的驅動扭矩 [Nm]
 $n_{\max}$ = 所需的最大轉速 [rpm]

驅動扭矩算式 [Nm]

$$M_A = M_{\text{load}} + M_{\text{trans}} + M_{\text{rot}} + M_{\text{idle}}$$

$$M_{\text{load}} = \frac{F_x \times p}{2 \times 3,14 \times 1000}$$

$$M_{\text{trans}} = \frac{F_a \times p}{2 \times 3,14 \times 1000}$$

$$M_{\text{rot}} = j_{\text{sp}} \times \frac{2 \times 3,14 \times n_{\max} \times a \times 2}{V_{\max} \times 60 \times 1000}$$

M_{idle} = 請見相應單元的表格

M_A = 所需驅動扭矩 [Nm]
 M_{load} = 負載變動引起的力矩 [N]
 M_{trans} = 平移加速度扭矩 [Nm]
 M_{rot} = 旋轉加速度扭矩 [Nm]
 M_{idle} = 最大空載扭矩 [Nm] ³
 F_x = 進給力 [N]
 p = 絲杠導程 [mm]
 F_a = 所需的加速力 [N]
 j_{sp} = 每米滾珠絲杠的慣量 [kgm²/m] ⁴
 $n_{\max}$ = 所需的最大轉速 [rpm]
 a = 所需的最大加速度[m/s²]
 $V_{\max}$ = 所需的最大直線速度 [m/s]

¹總質量為所有待移動質量的總和（待移動的物體、滑架/杆、絲杠）。

²垂直應用中, 由于存在重力加速度（9,81 m/s²）, 必須加上重力加速度。

³該數值可在各系列的最大空載扭矩表中查到。

⁴該數值可在下表中查到。

	KS50	KS60	KS86	GSC50	GSC80	GSC120	YSO/YSC135	YSO/YSC170	YSO/YSC220
滾珠螺桿慣量 (JSP) ,[kgm ² /m]	0.3x10 ⁻⁵	1.6x10 ⁻⁵	3.9x10 ⁻⁵	1.6x10 ⁻⁵	3.9x10 ⁻⁵	3.9x10 ⁻⁵	3.9x10 ⁻⁵	12.3x10 ⁻⁵	30.1x10 ⁻⁵

Feed Force Formula [N]

$$F_x = m \times g \times \mu$$

F_x = feed force [N]
m = total mass to be moved [kg] ¹
g = acceleration due to gravity [m/s²]
μ = friction factor specific for each unit

Acceleration Force Formula [N]

$$F_a = m \times a$$

F_a = acceleration force [N]
m = mass to be operated [kg]
a = acceleration [m/s²] ²

Power Formula [kW]

$$P = \frac{M_A \times n_{max} \times 2 \times 3,14}{60 \times 1000}$$

P = required power [kW]
M_A = required drive moment [Nm]
n_{max} = maximum required rotational speed [rpm]

Drive Moment Formulas [Nm]

$$M_A = M_{load} + M_{trans} + M_{rot} + M_{idle}$$

$$M_{load} = \frac{F_x \times p}{2 \times 3,14 \times 1000}$$

$$M_{trans} = \frac{F_a \times p}{2 \times 3,14 \times 1000}$$

$$M_{rot} = j_{sp} \times \frac{2 \times 3,14 \times n_{max} \times a \times 2}{V_{max} \times 60 \times 1000}$$

$$M_{idle} = \text{see table for unit in question}$$

M_A = required drive moment [Nm]
M_{load} = moment as a result of various loads [N]
M_{trans} = translational acceleration moment [Nm]
M_{rot} = rotational acceleration moment [Nm]
M_{idle} = max no-load driving torque [Nm]³
F_x = feed force [N]
p = screw lead [mm]
F_a = maximum required acceleration force [N]
j_{sp} = inertia of ball screw per meter [kgm²/m] ⁴
n_{max} = maximum required rotational speed [rpm]
a = maximum required acceleration [m/s²]
V_{max} = maximum required linear speed [m/s]

¹ The total mass is the mass of all masses to be moved (objects to be moved, carriage(s)/rod, screw).

² In vertical applications, the mass acceleration must be added to the acceleration due to gravity g (9,81 m/s²).

³ This value can be found in the carriage idle torque tables for each linear motion system.

⁴ This value can be found in the additional technical data tables.

	KS50	KS60	KS86	GSC50	GSC80	GSC120	YSO/YSC135	YSO/YSC170	YSO/YSC220
Inertia Of Ball Screw Per Meter (JSP),[kgm ² /m]	0.3x10 ⁻⁵	1.6x10 ⁻⁵	3.9x10 ⁻⁵	1.6x10 ⁻⁵	3.9x10 ⁻⁵	3.9x10 ⁻⁵	3.9x10 ⁻⁵	12.3x10 ⁻⁵	30.1x10 ⁻⁵

進給力算式 [N]

$$F_x = m \times g \times \mu$$

F_x = 進給力 [N]
m = 待移動的總質量 [kg] ¹
g = 重力加速度 [m/s²]
μ = 每個單元的摩擦力系數

加速力算式 [N]

$$F_a = m \times a$$

F_a = 加速力 [N]
m = 待運轉的質量 [kg]
a = 加速度 [m/s²] ²

功率算式 [KW]

$$P = \frac{M_A \times n_{max} \times 2 \times 3,14}{60 \times 1000}$$

P = 所需功率 [kW]
M_A = 所需的驅動扭矩 [Nm]
n_{max} = 所需的最大轉速 [rpm]

驅動扭矩算式 [Nm]

$$M_A = M_{load} + M_{trans} + M_{rot} + M_{idle}$$

$$M_{load} = \frac{F_x \times d_o}{1000 \times 2}$$

$$M_{trans} = \frac{F_a \times d_o}{1000 \times 2}$$

$$M_{rot} = J_{syn} \times \frac{2 \times 3,14 \times n_{max}}{60} \times \frac{a}{V_{max}}$$

$$M_{idle} = \text{請見相應單元的表格}$$

M_A = 所需驅動扭矩 [Nm]
M_{load} = 負載變動引起的力矩 [N]
M_{trans} = 平移加速度扭矩 [Nm]
M_{rot} = 旋轉加速度扭矩 [Nm]
M_{idle} = 最大空載扭矩 [Nm] ³
F_x = 進給力 [N]
d_o = 皮帶輪直徑 [mm]
F_a = 所需的加速力 [N]
J_{syn} = 皮帶輪慣量 [kgm²] ⁴
n_{max} = 所需的最大轉速 [rpm]
a = 所需最大加速度 [m/s²]
V_{max} = 所需的最大直線速度 [m/s]

¹ 總質量為所有待移動質量的總和（待移動的物體、滑架/杆、絲杠）。

² 垂直應用中，由于存在重力加速度（9,81 m/s²），必須加上重力加速度。

³ 該數值可在各個系列的最大空載扭矩表中查到。

⁴ 該數值可在下表中查到。

	ITO40	ITO / ITC60	ITO / ITC80	ITO / ITC100	YTO/ YTC135	YTO/ YTC170
皮帶輪慣量 (J _{SYN}),[kgm ²]	1.34x10 ⁻⁵	8.42x10 ⁻⁵	33.5x10 ⁻⁵	117×10 ⁻⁵	3.88x10 ⁻⁵	7.44x10 ⁻⁵

Feed Force Formula [N]

$$F_x = m \times g \times \mu$$

Acceleration Force Formula [N]

$$F_a = m \times a$$

Power Formula [kW]

$$P = \frac{M_A \times n_{max} \times 2 \times 3,14}{60 \times 1000}$$

Drive Moment Formulas [Nm]

$$M_A = M_{load} + M_{trans} + M_{rot} + M_{idle}$$

$$M_{load} = \frac{F_x \times d_o}{1000 \times 2}$$

$$M_{trans} = \frac{F_a \times d_o}{1000 \times 2}$$

$$M_{rot} = J_{syn} \times \frac{2 \times 3,14 \times n_{max}}{60} \times \frac{a}{V_{max}}$$

$$M_{idle} = \text{see table for unit in question}$$

F_x = feed force [N]
 m = total mass to be moved [kg] ¹
 g = acceleration due to gravity [m/s²]
 μ = friction factor specific for each unit

F_a = acceleration force [N]
 m = mass to be operated [kg]
 a = acceleration [m/s²] ²

P = required power [kW]
 M_A = required drive moment [Nm]
 n_{max} = maximum required rotational speed [rpm]

M_A = required drive moment [Nm]
 M_{load} = moment as a result of various loads [N]
 M_{trans} = translational acceleration moment [Nm]
 M_{rot} = rotational acceleration moment [Nm]
 M_{idle} = max no-load driving torque [Nm] ³
 F_x = feed force [N]
 d_o = pulley diameter [mm]
 F_a = maximum required acceleration force [N]
 J_{syn} = inertia of pulleys per meter[kgm²] ⁴
 n_{max} = maximum required rotational speed [rpm]
 a = maximum required acceleration [m/s²]
 V_{max} = maximum required linear speed [m/s]

¹ The total mass is the mass of all masses to be moved (objects to be moved, carriage(s)/rod, belt).

² In vertical applications, the mass acceleration must be added to the acceleration due to gravity g (9,81 m/s²).

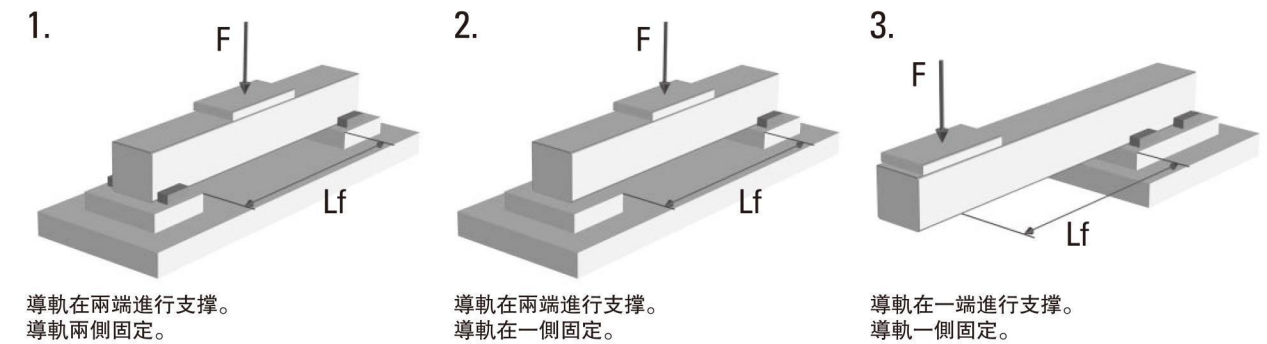
³ This value can be found in the carriage idle torque tables.

⁴ This value can be found in the performance specifications tables for each linear motion system.

⁵ This value can be found in the additional technical data tables.

	ITO40	ITO / ITC60	ITO / ITC80	ITO / ITC100	YTO / YTC135	YTO / YTC170
Idle Torque Of Pulleys (J _{SYN}), [kgm ²]	1.34×10 ⁻⁵	8.42×10 ⁻⁵	33.8×10 ⁻⁵	117×10 ⁻⁵	3.88×10 ⁻⁵	7.44×10 ⁻⁵

負載類型



容許的導軌撓度算式[mm]

$$f_h = L_f \times b$$

f_h = 容許的導軌撓度 [mm]
 L_f = 撓曲導軌的長度 [mm]
 b = 撓曲係數 ¹

導軌撓度算式[mm]

負載類型 1.

$$f_{max} = \frac{m'_{100} \times g \times L_f^4}{100 \times 384 \times EAI \times I_y} + \frac{(m_{ext} \times m_c) \times g \times L_f^3}{192 \times EAI \times I_y}$$

負載類型 2.

$$f_{max} = \frac{m'_{100} \times g \times L_f^4}{100 \times 185 \times EAI \times I_y} + \frac{(m_{ext} \times m_c) \times g \times L_f^3}{48 \times \sqrt{5} \times EAI \times I_y}$$

負載類型 3.

$$f_{max} = \frac{m'_{100} \times g \times L_f^4}{100 \times 8 \times EAI \times I_y} + \frac{(m_{ext} \times m_c) \times g \times L_f^3}{3 \times EAI \times I_y}$$

f_{max} = 導軌撓度 [mm]
 m'_{100} = 每100行程重量 [kg] ²
 m_{ext} = 滑架上的外部負載 [kg]
 m_c = 滑架重量 [kg] ²
 g = 重力加速度 [m/s²]
 EAI = 鋁彈性模量 (70000 N/mm²)
 I_y = Y方向導軌的幾何慣性矩 [mm⁴] ¹

¹ 這個值可以在附加技術數據表中查到。

² 該數值可在各個單元的性能規格表中查到。

結論算式

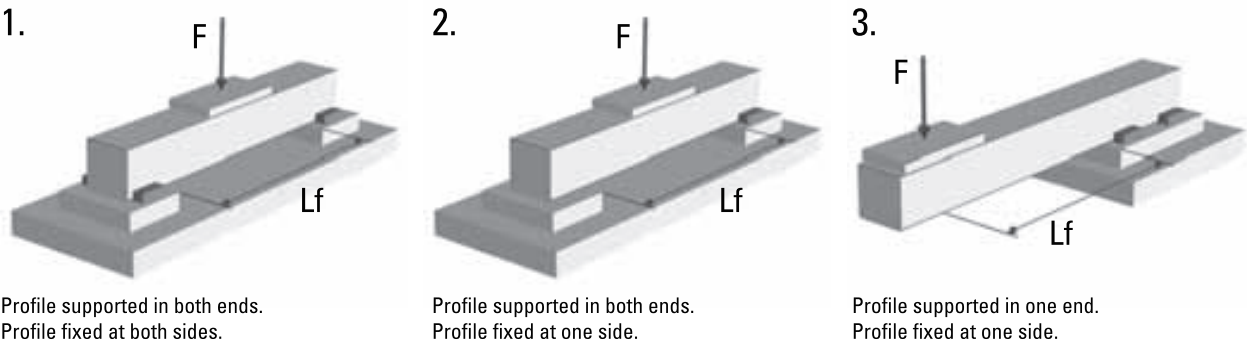
$$f_h > f_{max} = \text{撓度滿足要求}$$

$$f_h < f_{max} = \text{撓度不符合要求, } L_f \text{ 必須縮短}$$

Deflection Calculations

How to calculate the deflection of the profile

Load Cases



Permissible Profile Deflection Formula [mm]

$f_h = L_f \times b$

f_h = permissible profile deflection [mm]
 L_f = length of profile being bent [mm]
 b = bending factor ¹

Profile Deflection Formulas [mm]

Load Case 1.

$$f_{max} = \frac{m'_{100} \times g \times L_f^4}{100 \times 384 \times EAI \times I_y} + \frac{(m_{ext} + m_c) \times g \times L_f^3}{192 \times EAI \times I_y}$$

Load Case 2.

$$f_{max} = \frac{m'_{100} \times g \times L_f^4}{100 \times 185 \times EAI \times I_y} + \frac{(m_{ext} + m_c) \times g \times L_f^3}{48 \times \sqrt{5} \times EAI \times I_y}$$

Load Case 3.

$$f_{max} = \frac{m'_{100} \times g \times L_f^4}{100 \times 8 \times EAI \times I_y} + \frac{(m_{ext} + m_c) \times g \times L_f^3}{3 \times EAI \times I_y}$$

f_{max} = deflection of the profile [mm]
 m'_{100} = weight of every 100 mm of stroke [kg/mm]
 m_{ext} = external load on carriage [kg]
 m_c = weight of carriage(s) [kg] ²
 g = acceleration due to gravity [m/s²]
 $E I$ = elastic modulus of aluminium (70000 N/mm²)
 I_y = geometrical moment of inertia of the profile in Y direction [mm⁴] ¹

¹ This value can be found in the additional technical data tables.

² This value can be found in the performance specifications tables for each unit.

Conclusion Formulas

$f_h > f_{max}$ = deflection OK

$f_h < f_{max}$ = deflection not OK, L_f must be shorter

如何计算导轨挠度 挠度计算

實例 1

直線運動系統類型：
IT080

負載類型：
類型1 - 導軌在兩端支撐并在兩側固定

待通過滑架移動的負載：
 $m_{ext} = 150$ kg

支撐間距：
 $L_f = 600$ mm

特定單元參數：
 $m'_{100} = 0,93$ kg
 $m_c = 2,75$ kg
 $EAI = 70000$ N/mm²
 $I_y = 1,93 \times 10^6$ mm⁴
 $b = 0,0005$

計算所得值：
 $f_h = 0,3$ mm
 $f_{max} = 0,013$ mm

結論：
 $f_h > f_{max}$ = 撓度滿足要求

實例 2

直線運動系統類型：
IT060

負載類型：
類型2 - 導軌在兩端支撐并在一邊固定

需要通過滑架移動的負載：
 $m_{ext} = 100$ kg

支撐間距：
 $L_f = 600$ mm

特定單元數據：
 $m'_{100} = 0,53$ kg
 $m_c = 1,2$ kg
 $EAI = 70000$ N/mm²
 $I_y = 4,59 \times 10^5$ mm⁴
 $b = 0,0005$

計算所得值：
 $f_h = 0,3$ mm
 $f_{max} = 0,063$ mm

結論：
 $f_h > f_{max}$ = 撓度滿足要求

實例 3

直線運動系統類型：
IT080

負載類型：
類型3 - 導軌支撐和固定都在一端

需要通過滑架移動的負載：
 $m_{ext} = 120$ kg

支撐間距：
 $L_f = 400$ mm

特定單元數據：
 $m'_{100} = 1,08$ kg
 $m_c = 4,26$ kg
 $EAI = 70000$ N/mm²
 $I_y = 1,85 \times 10^6$ mm⁴
 $b = 0,0003$

計算所得值：
 $f_h = 0,12$ mm
 $f_{max} = 0,203$ mm

結論：
 $f_h < f_{max}$ = 撓度不滿足要求

Example 1	Example 2	Example 3
Type of linear motion system: IT080 Load case: Case 1 - profile supported in both ends and fixed at both sides. Load to be moved by carriage: $m_{ext} = 150\text{ kg}$ Distance between supports: $L_f = 600\text{ mm}$ Specific unit data: $m'_{100} = 0,93\text{ kg}$ $m_c = 2,75\text{ kg}$ $EAI = 70000\text{ N/mm}^2$ $I_y = 1,93 \times 10^6\text{ mm}^4$ $b = 0,0005$ Calculated values: $f_h = 0,3\text{ mm}$ $f_{max} = 0,013\text{ mm}$ Conclusion: $f_h > f_{max} = \text{deflection OK}$	Type of linear motion system: IT080 Load case: Case 2 - profile supported in both ends and fixed at one side. Load to be moved by carriage: $m_{ext} = 100\text{ kg}$ Distance between supports: $L_f = 600\text{ mm}$ Specific unit data: $m'_{100} = 0,53\text{ kg}$ $m_c = 1,2\text{ kg}$ $EAI = 70000\text{ N/mm}^2$ $I_y = 4,59 \times 10^6\text{ mm}^4$ $b = 0,0005$ Calculated values: $f_h = 0,3\text{ mm}$ $f_{max} = 0,063\text{ mm}$ Conclusion: $f_h > f_{max} = \text{deflection OK}$	Type of linear motion system: IT080 Load case: Case 3 - profile supported and fixed at one end. Load to be moved by carriage: $m_{ext} = 120\text{ kg}$ Distance between supports: $L_f = 400\text{ mm}$ Specific unit data: $m'_{100} = 1,08\text{ kg}$ $m_c = 4,26\text{ kg}$ $EAI = 70000\text{ N/mm}^2$ $I_y = 1,85 \times 10^6\text{ mm}^4$ $b = 0,0003$ Calculated values: $f_h = 0,12\text{ mm}$ $f_{max} = 0,203\text{ mm}$ Conclusion: $f_h > f_{max} = \text{deflection not OK}$

加速度

加速度是用于衡量从固定(或较低速度)达到较高速度的速度变化率的度量方式。如果您的应用对加速度值有严格要求, 请联系我们的客户服务部门。

精度

精度分为几种不同的类型。许多因素都会对系统的整体精度造成影响。另请参见“重复精度”，“定位精度”。

滚珠螺杆驱动

滚珠丝杠由一个旋转丝杠和一个移动滚珠螺母组成。滚珠螺母固定在单元的滑架上。没有正常的线程, 相反的是滚珠在螺母中循环作为沿着丝杠运行的高效滚珠轴承工作。滚珠丝杠有多种导程、直径和精度等级可选。精度等级 (C3, C5, C7 或C10) 表示丝杠的导程公差。数字越小, 精度越高。滚珠丝杠驱动单元的典型特性为高负载性能和高精度。

皮带驱动

皮带驱动固定在单元滑架上的齿形皮带组成。皮带在定位在导轨一端两个皮带轮之间运行。一个皮带轮通过驱动轴连接到电机的驱动站, 另一个皮带轮则安装在张紧站。皮带由强化钢芯塑料制成。皮带驱动单元的典型特性为高速度、长行程、低噪音和低总体质量。

皮带传动机构

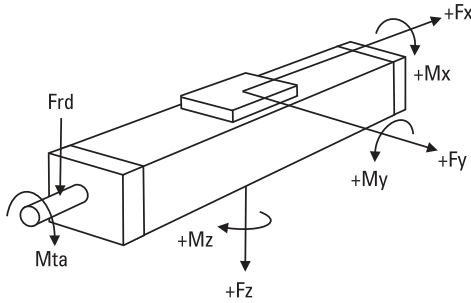
皮带传动机构包含一条运行在两个不同直径的皮带轮之间的同步带。皮带轮直径的差异决定了传动比的大小。皮带齿轮运行安静, 精度达到中等水平且无需维护, 但在过载情况下很容易损坏。

危险转速

所有滚珠丝杠都具有危险转速, 在此速度下丝杠开始振动并最终弯曲或卷起丝杠。具体的限值为一个由丝杠总长度和速度构成的函数。对于个别执行器而言, 这意味着当行程超出一定距离后, 在性能规格表中查到的容许最大速度可以超出危险转速。此种情况下, 要么必须将速度降至危险转速, 必须减少行程量; 要么必须选择其它能在此行程下控制速度的执行器型号。否则, 则必须选择能在此行程下满足速度要求的其它单元。危险转速限值可相应单元的产品页面的“危险转速”图内找到。

作用力示意图

作用在单元上的力的名称在各个单元的产品页中进行了示意图, 详见各自的“作用力示意图”(参见下面例子)。在与Limon进行沟通时, 请务必采用相同示意图。



导轨挠度

个别单元需要沿着整个导轨支撑, 而另一些则仅在超出指定范围时进行自支撑。更为详尽的内容可参阅产品资料页。应采用我们推荐的支撑间隔进行支撑, 从而将单元挠度降至最低。支撑点间的最大距离可参阅产品资料页。单元的挠度也可使用“其他参数和计算”章节的方法进行计算。

Acceleration

Acceleration is a measure of the rate of speed change going from standstill (or a lower speed) to a higher speed. Please contact customer service if your application is critical to which acceleration rate is acceptable or needed.

Accuracy

There are several types of accuracy and many different factors that will affect the overall accuracy of a system. Also see “Repeatability”, “Positioning Accuracy”, “Lead Accuracy”.

Ball Screw Drive

A ball screw is made up of a rotating screw and a moving ball nut. The ball nut is attached to the carriage of the unit. It does not have a normal thread; instead balls circulate inside the nut making it work as an efficient ball bearing that travels along the screw. Ball screws come in a large variety of leads, diameters and tolerance classes. The tolerance class (T3, T5, T7 or T9) indicates the lead tolerance of the screw. The lower the number, the higher the tolerance. High load capability and high accuracy are typical features of ball screw driven units.

Belt Drive

A belt drive consists of a toothed belt which is attached to the carriage of the unit. The belt runs between two pulleys positioned at either end of the profile. One pulley is attached to the motor via the drive shaft in the drive station while the other is mounted in a tension station. The belts are made of plastic reinforced with steel cords. High speeds, long stroke, low noise and low overall weight are typical features of belt driven units.

Belt Gear

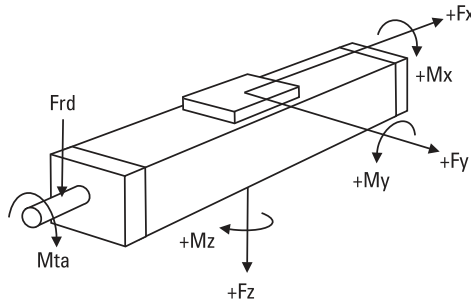
A belt gear consists of a timing belt that runs between two pulley wheels of different diameters. The difference between the diameters determines the gear ratio. Belt gears are quiet, have medium accuracy and require no maintenance but are susceptible to belt breakage under overload conditions.

Critical Speed

All ball screws have a critical speed where the screw starts to vibrate and eventually bend or warp the screw. The exact limit is a function of how long the screw is and the speed. For some units this means that the allowed maximum speed found in the performance specifications can be higher than the critical speed when the stroke exceeds a certain distance. In this case, either the speed must be reduced to the critical speed, the amount of stroke must be reduced, or you must use the screw support option if the unit in question allows this. Otherwise you must select another unit that can manage the speed at that stroke. The critical speed limits can be found in the “Critical Speed” diagrams on the product pages of the units that this concern.

Definition of Forces

The designations of the forces that acts on the unit are defined on the product page of each unit in the “Definition of Forces” drawing (see example below). Please always use the same definitions whenever communicating with Limon.



Deflection of the Profile

Some units require support along the whole profile whilst some are self-supporting over a specified span. Further details can be found on the product data pages. The recommended support intervals should be followed to minimize deflection of the unit. The maximum distance between the support points is shown on the product data pages. The deflection of the unit can also be calculated using the information in the “Additional data and calculations” section.

空载转矩

空载转矩是指移动无负载滑架时，旋转驱动轴所需的扭矩。空载转矩因输入速度而异，产品页上的空载转矩表给出了部分速度下的扭矩值。表中给出的值针对的是配备标准长度单滑架的单元。如果您需要其他速度、多滑架、短/长滑架的确切扭矩值，请联系我们的客服部门。

惯性

惯性是物体抵抗自身速度改变的一种属性，其大小取决于物体的形状和质量。当选定尺寸和型号以及想调整伺服系统至最佳性能时，对惯性的考虑非常重要。更多相关信息，请咨询我们的客户服务部门。

预期寿命

在决定直线运动系统的使用寿命时，须评估所有作用在单元上的力和扭矩。本目录所列的参数和算式作为基本参考。若需更详尽的使用寿命计算方法，请使用我们的尺寸和选型软件。请联系我们获取进一步的指导。

额定负载

许多类型的额定负载都需要考虑。我们通常所说的负载指的是延伸管将要推动或拉动负载，即动态负载。但是也存在静态、侧向、惯量和加速力、减速力、重力和摩擦力负载，这些负载同等重要。对于部分单元而言，给定的负载和负载扭矩值适用于整个单元和导轨系统。整个单元的值是单元能够运行的值。导轨系统的值应仅在不同单元比较时使用，且不可用于表述整个单元的实际性能。

定位精度

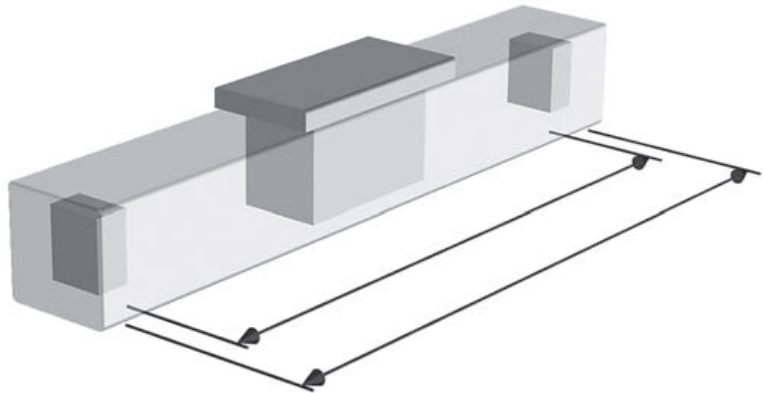
定位精度指期望位置与实际位置之间的偏差，是所有可能造成精度降低的因素（即重复精度，背隙，分辨率，丝杠/皮带精度，电机、驱动和运动控制系统精度）叠加的结果。有些因素，如背隙和导轨精度，有时能够通过使用运动控制系统的软件进行补偿。同时参见“精度”。

重复精度

重复精度是指定位系统从相同的距离，以相同的速度和减速度率回到位置的能力。影响重复精度的因素是电机角度重复精度，驱动和运动控制系统，系统摩擦和负载变化，速度和减速度。

行程

理论上的最大行程 (S_{max}) 是滑架能从单元一端到另一端移动的总长度。然而，达到最大行程则意味着滑架会和末端导轨相撞。因此，实际行程要短于 S_{max} 。我们建议您在指定单元长度时，至少应比您要求的最大行程长100mm，这样单元即可在撞到末端之前停止，并且允许在安装时对单元的位置进行调整。



Idle Torque

Idle torque is the torque needed to move the carriage with no load in it by rotating the drive shaft. The idle torque will vary with the input speed and the idle torque tables on the product pages gives a value for some speeds. The value given in the table is for a unit having a single carriage of standard length. If you need the exact value for another speed, multiple carriages or short/long carriages, please contact our customer service.

Inertia

Inertia is the property of an object to resist speed changes and is dependent on the shape and the mass of the object. The inertia is important when sizing and selecting and also when tuning a servo system to optimum performance. Consult customer service for more information.

Lifetime Expectancy

When determining the lifetime for a linear motion system it is necessary to evaluate all forces and moments that are acting on the unit. The data and formulas given in this catalogue serve as a basis for this. For a more detailed lifetime calculation please use our sizing and selection software. Please contact us for further guidance.

Load Rating

There are many types of load ratings that all needs to be considered. Normally when you speak about the load you refer to the load that the carriage will move; which is the dynamic load. But there may also be static, side, moment and forces from acceleration, deceleration, gravity and friction that are all equally important. For some units the load and load torque values are given for both the complete unit and the guiding system. The values for the complete unit are the values under which the unit can operate. The values for the guiding system should only be used when comparing different units and do not describe the actual performance of the complete unit.

Positioning Accuracy

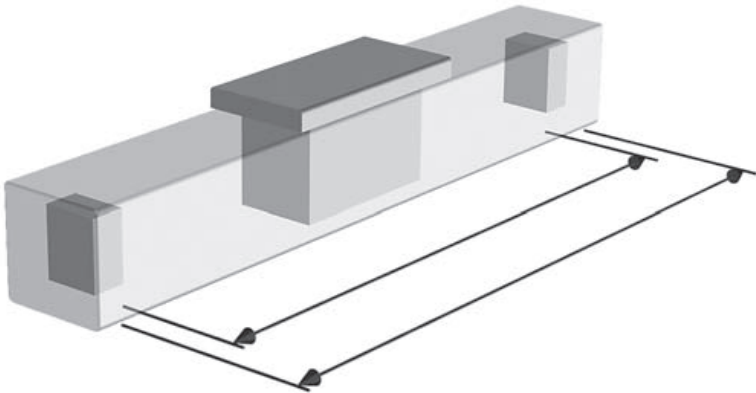
Positioning accuracy is the error between the expected and actual position and is the sum of all factors that will reduce the accuracy (i.e. repeatability, backlash, resolution, screw/belt accuracy, and the accuracy of the motor, drive and motion control system). Some of these factors, such as backlash and lead accuracy, can sometimes be compensated for in the software of the motion control system being used. Also see "Accuracy".

Repeatability

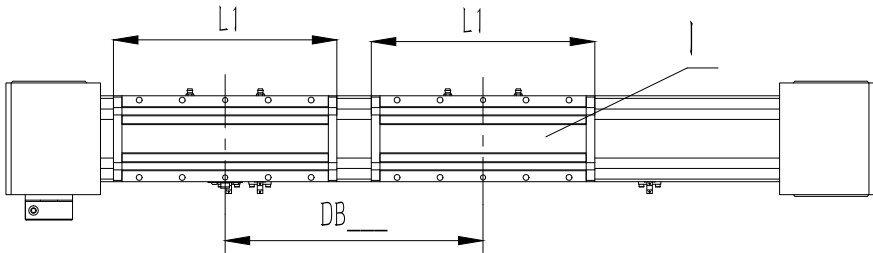
Repeatability is the ability for a positioning system to return to a location when approaching from the same distance, at the same speed and deceleration rate. Some of the factors that affect the repeatability are the angular repeatability of the motor, drive and motion control system, system friction and changes in load, speed and deceleration.

Stroke

The theoretical maximum stroke (Smax) is the length that the carriage can travel from one end of the unit to the other. However, using the maximum stroke means that the carriage will collide with the ends of the profile. The practical stroke is therefore shorter. We recommend that you specify a unit that have at least 100 mm longer stroke than the maximum stroke you need so that the unit can stop before colliding with the ends and also allow for some adjustment of the unit position at the mounting.



辅助滑块行程计算方法：
Calculation method of the auxiliary block stroke



L1=滑块长度 DB__=滑块之间的中心距 I =辅助滑块
L1=Block Length DB__=Center I =Auxiliary Block

實例 Example
型号 Item No.: ITO60-500-DB300.....
不帶輔助滑塊的工作行程=500mm
Stroke(without auxiliary block)= 500mm
帶輔助滑塊的工作行程=200mm (500-300=200mm)
Stroke(with auxiliary block)= 200mm (500-300=200mm)

对于带辅助滑块的电缸, 工作行程会由于滑块之间的距离而缩短。
For the linear module with auxiliary block, its stroke will be shortened as for the distance of block.

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