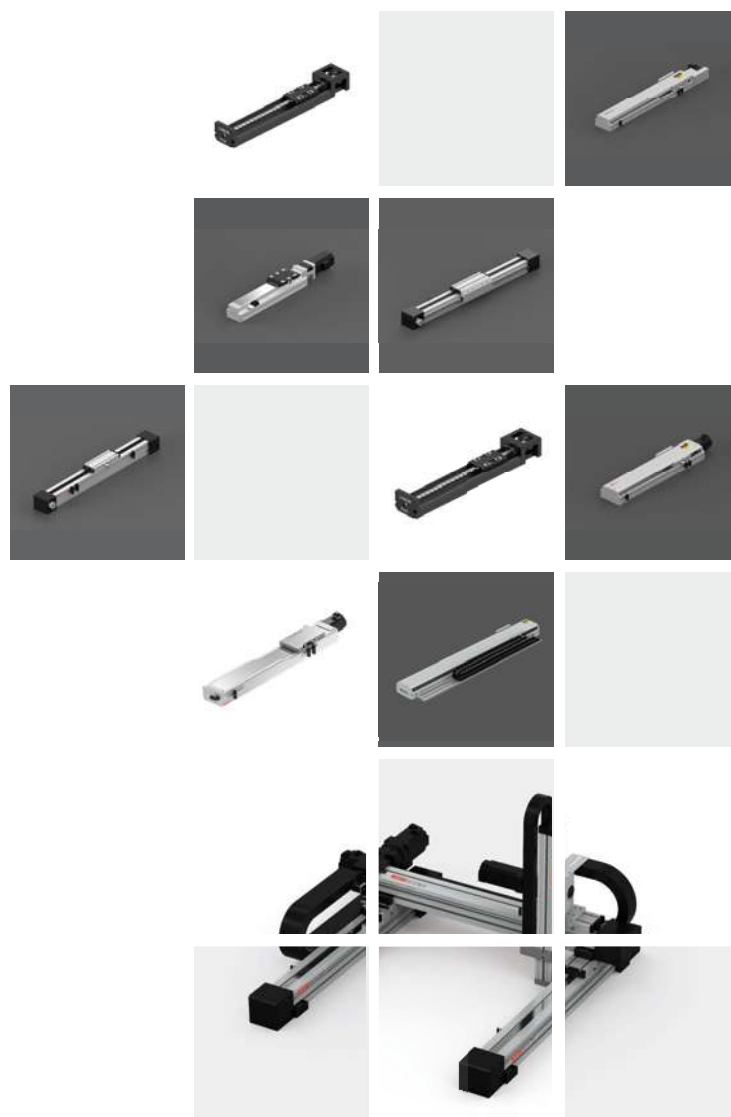


LIMON

PRECISION & SPEED

LIMON AUTO TECH CO., LTD.

LINEAR PRECISION LINEAR SPEED



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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、生物医疗、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。

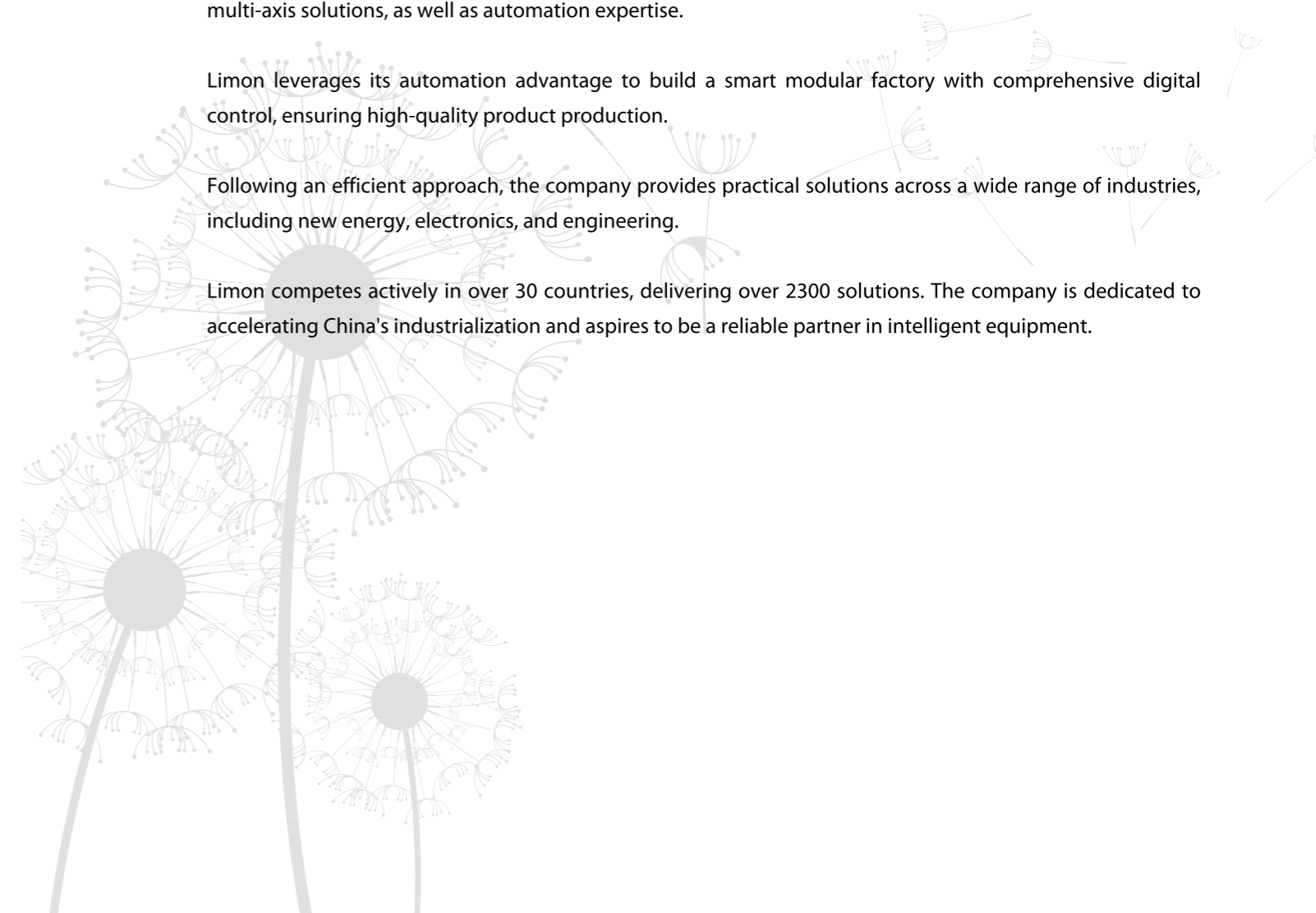
Limon, founded in 2013 in Ningbo, China, is dedicated to intelligent manufacturing solutions, with the goal of elevating China's industries.

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.

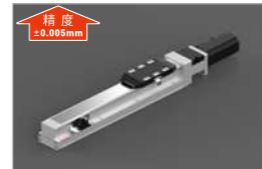


产品综述 / Overview

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



P1-P20

GTC系列模组 / GTC Series Module

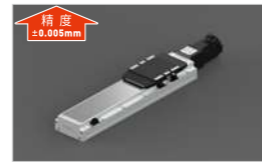
- 产品型号: GTC 50 / 80
 - 高刚性
 - 不易发尘
 - 体积小
- Part No.:GTC 50 / 80
 - High Rigidity
 - Reduce dust
 - Compact Design



P23-P29

GCC系列模组 / GCC Series Module

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



P31-P40

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



P43-P57

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 / 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 / 160
 - With Linear Guide
 - High Characteristic Load Values
 - Open Type Driven By Belt



P59-P66

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



P69-P73

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



P75-P79

欧标全密式同步带驱动侧轨加强型 / European standard fully dense synchronous belt drive side rail reinforced type

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



P81-P86

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



P89-P91

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

- 产品型号:HTZ-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-80
 - Motor Fixed, not increase mobile terminal load
 - Good dynamic performance
 - Standard Rail



P92-P93

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

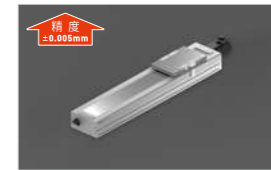
- 产品型号:
YSO - 135 / 135G / 170 / 220
 - 高载荷
 - 高精度
 - 半密型
- Part No.:
YSO - 135 / 135G / 170 / 220
 - High Characteristic Load Values
 - High Precision
 - Open Type Driven By Ball Screw



P95-P109

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



P111-P124

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



P127-P145

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



P147-P159

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

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



P161-P165

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

· 产品型号: LC50/70/100/120
· 推力大
· 响应速度高

· Part No.: LC50/70/100/120
· High thrust
· High response speed



P167-P172

· 产品型号: GLC-50/80
· 高性价比
· 高精度

· Part No.: GLC-50/80
· High cost effective
· High Precision



P174-P177

· 产品型号: MLO-110/135/210
· 大推力
· 高精度

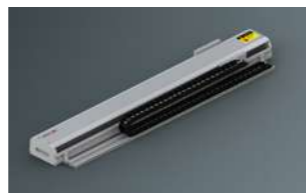
· Part No.: MLO-110/135/210
· High thrust
· High Precision



P178-P186

· 产品型号: ZLO-17/22
· 大推力
· 高精度

· Part No.: ZLO-17/22
· High thrust
· High Precision



P187-P194

· 产品型号: WLO-14/17/22
· 零顿振
· 高精度

· Part No.: WLO-14/17/22
· Zero Cogging Force
· High Precision



P195-P203

多轴组合 / Mutiaxis System

· 多轴组合安装
· 选配件多样化
· 个性化定制与服务
· 交期快

· Multi-axis System Installation
· Variety Choices Of Components
· Personalized Customization And Service
· Fast Delivery



P204-P206

驱动计算 / Drive Calculations

P207-P210

挠度计算 / Deflection Calculations

P211-P214

词汇表 / Glossary

P215-P218

辅助滑块 / Auxiliary Block

P219

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



GSC 40



GSC 50



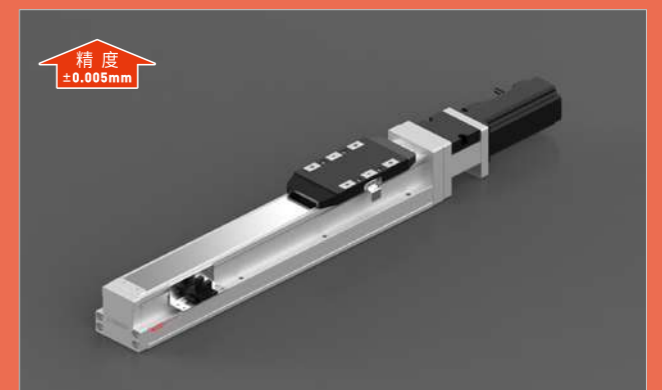
GSC 50S



GSC 80



GSC 80S



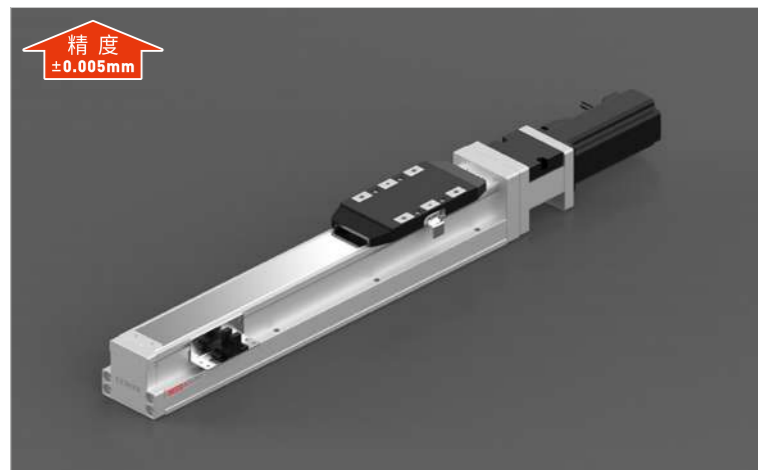
GSC 120

GSC 40 导轨内嵌式滑台模组

Guide rail embedded slide module

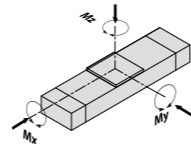
订购型号代码 Code

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 Position	马达厂牌、功率 Motor Brand, Power Output	限位传感器数量 Photoelectric Sensor	特法式样 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

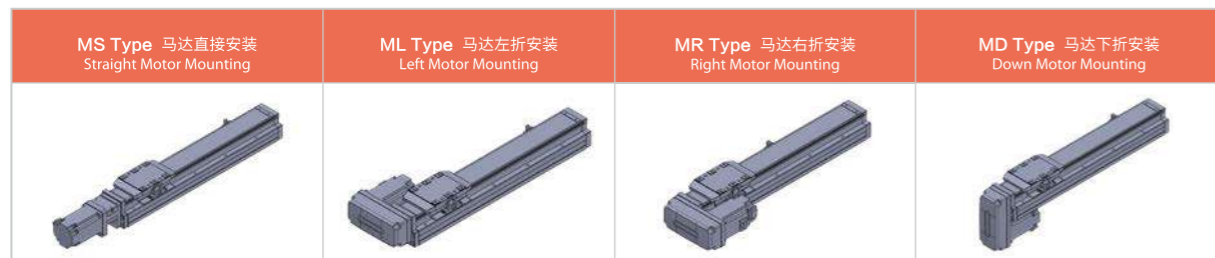


Type	GSC 40
M(x) (N·m)	116
M(y) (N·m)	79
M(z) (N·m)	79

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



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 12 垂直使用 Vertical (kg) 8 3.5
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
原点感应器 Home Sensor	PM-Y45(NPN)	

容许负载力矩表 Allowable Overhang

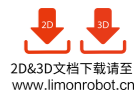
单位Unit:mm	水平安装 Horizontal Installation			壁挂安装 Wall Installation			垂直安装 Vertical Installation					
	A	B	C	A	B	C	A	C				
导程 06 lead	10kg	550	53	70	10kg	72	52	550	导程 06 lead	4kg	150	150
	15kg	350	32	45	15kg	45	32	345	导程 06 lead	8kg	75	75
	20kg	250	22	31	20kg	31	22	250	导程 06 lead	-	-	-
导程 12 lead	8kg	305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

导轨内嵌式滑台模组

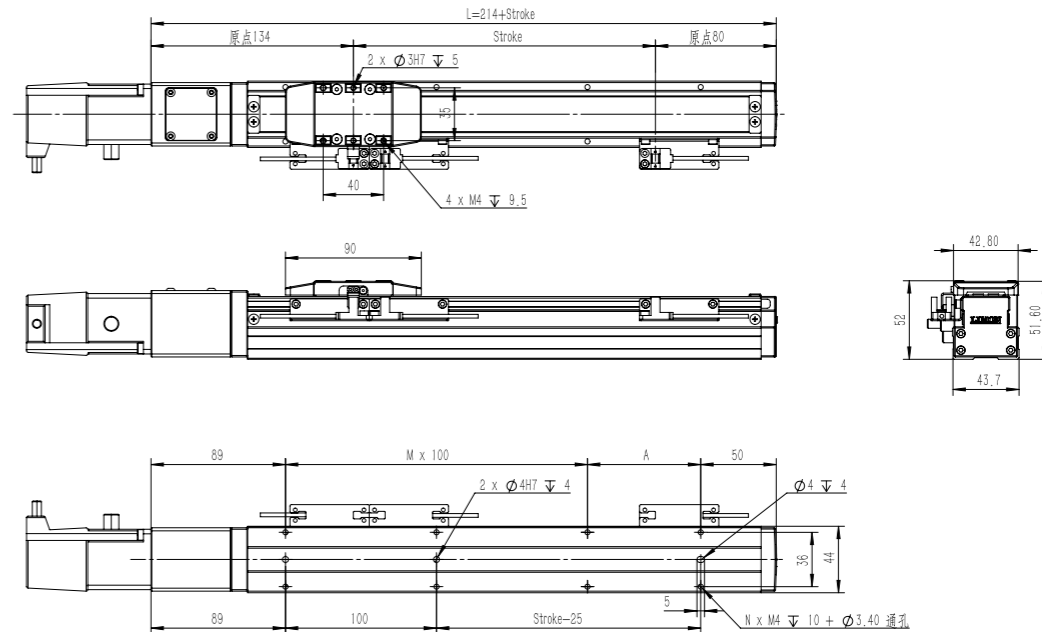
Guide rail embedded slide module

GSC 40

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

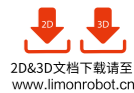


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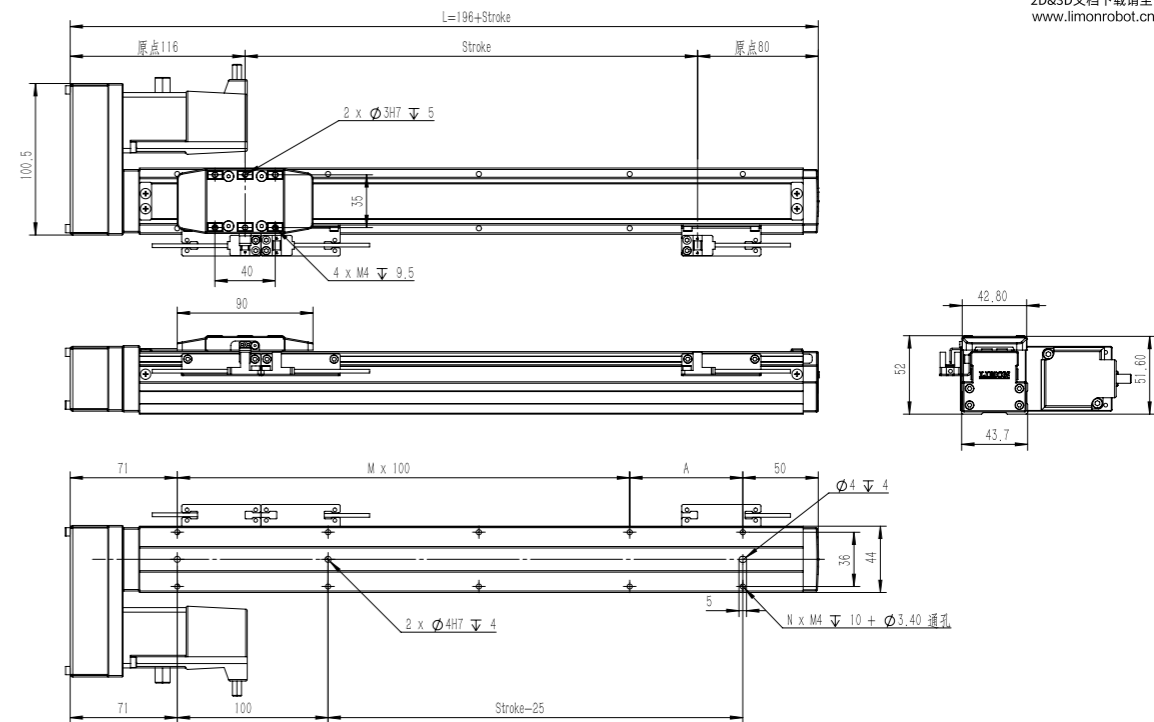


行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	264	314	364	414	464	514	564	614	664	714	764	814	864	914	964	1014
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight (kg)	0.95	1.12	1.29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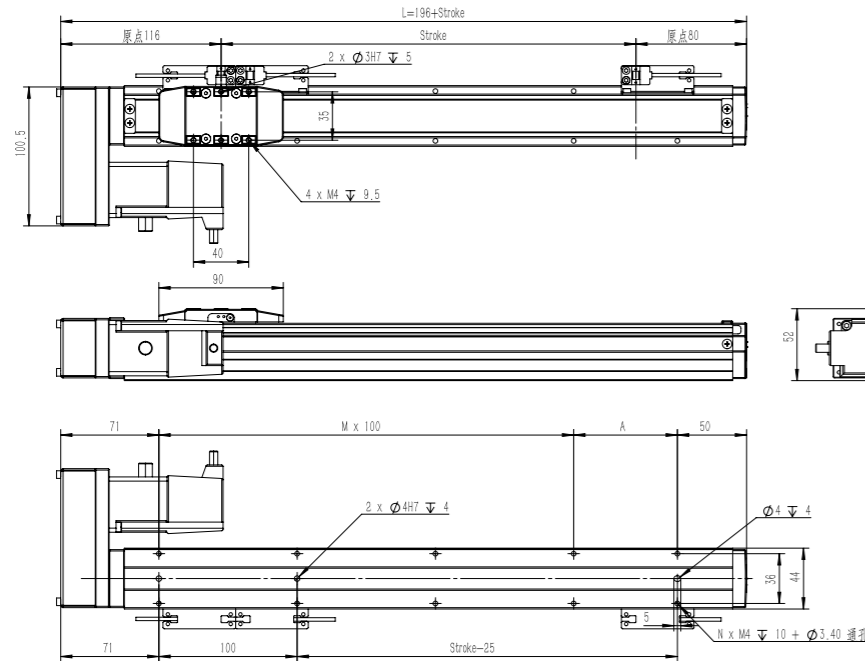


行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight (kg)	1.04	1.22	1.4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

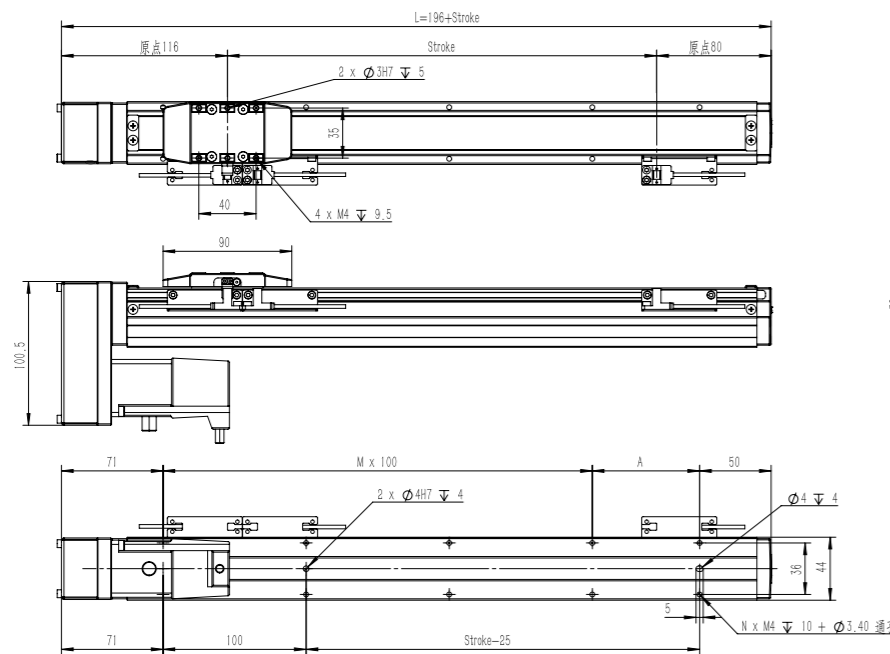
Guide rail embedded slide module

GSC 40-MR 马达右折安装 Right Motor Mounting



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-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	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

导轨内嵌式滑台模组 GSC 50

Guide rail embedded slide module

订购型号代码 Code

GSC 50	L10	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 Position	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	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	

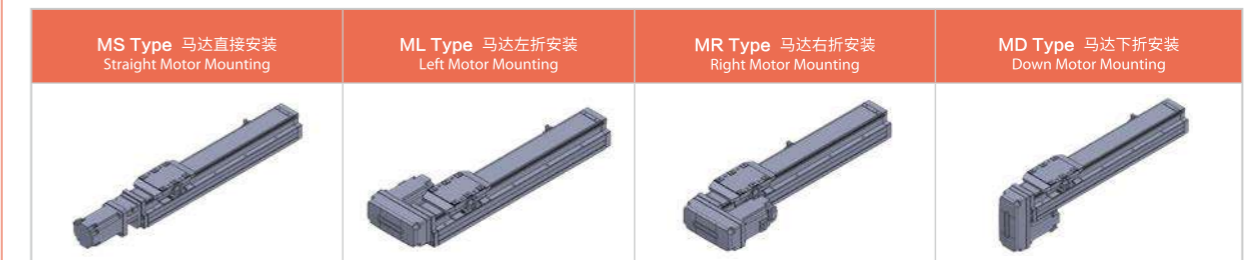


最大静动力和力矩 Max Static Forces And Torques

Type	GSC50
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:
 $\frac{M_x}{M_x \max} + \frac{M_y}{M_y \max} + \frac{M_z}{M_z \max} \leq 1$

马达安装方向 Motor Mounting Position Version



基本规格 Basic Specification

GSC 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
基本规格 Basic Specification		垂直使用Vertical (kg)	10	5	2.5
	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)				

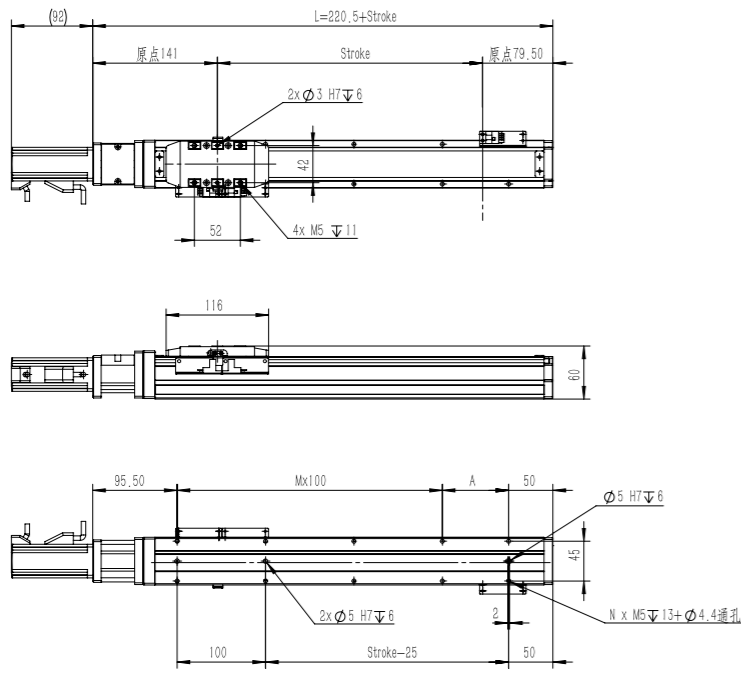
容许负载力矩表 Allowable Overhang

单位Unit:mm		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 Lead	重量 Weight	A	B	C	导程 Lead	重量 Weight	A	C		
5 lead	10kg	650	75	100	5 lead	10kg	100	75	650	
	20kg	440	32	45		5 lead	20kg	45	32	420
	30kg	270	19	25			5 lead	30kg	25	19
10 lead	5kg	600	145	185	10 lead			5kg	180	145
	10kg	370	70	85		10 lead		10kg	85	68
	15kg	250	42	52			10 lead	15kg	52	42
20 lead	5kg	320	120	130	20 lead			5kg	130	120
	8kg	220	70	80		20 lead		8kg	75	70
	10kg	175	55	60			20 lead	10kg	60	55
5 lead	6kg	145	145	5 lead	6kg			145	145	
	8kg	110	110		5 lead	8kg		110	110	
	10kg	90	90			5 lead	10kg	90	90	
10 lead	1kg	800	800	10 lead			1kg	800	800	
	3kg	260	260		10 lead		3kg	260	260	
	5kg	155	155			10 lead	5kg	155	155	
20 lead	1kg	600	600	20 lead			1kg	600	600	
	2kg	300	300		20 lead		2kg	300	300	
	2.5kg	250	250			20 lead	2.5kg	250	250	

GSC 50 导轨内嵌式滑台模组

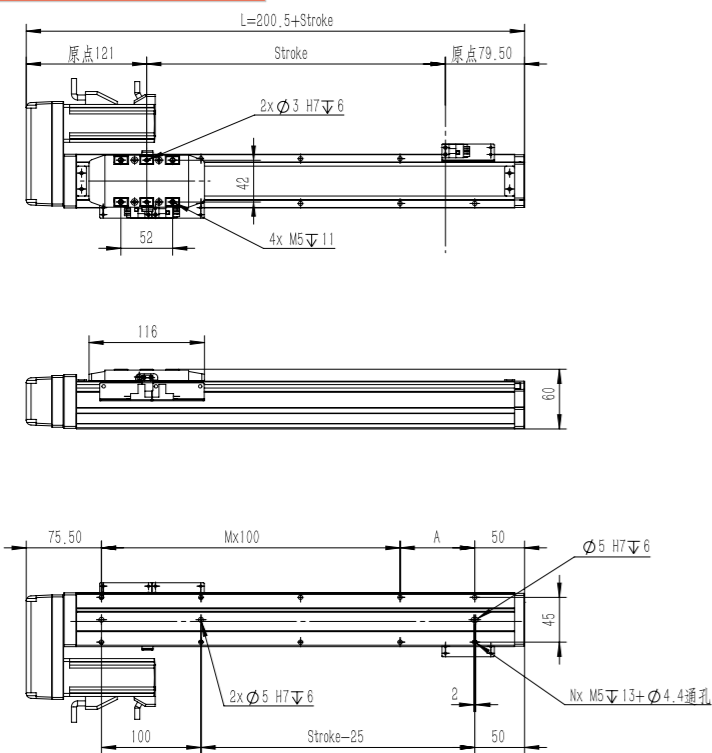
Guide rail embedded slide module

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



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

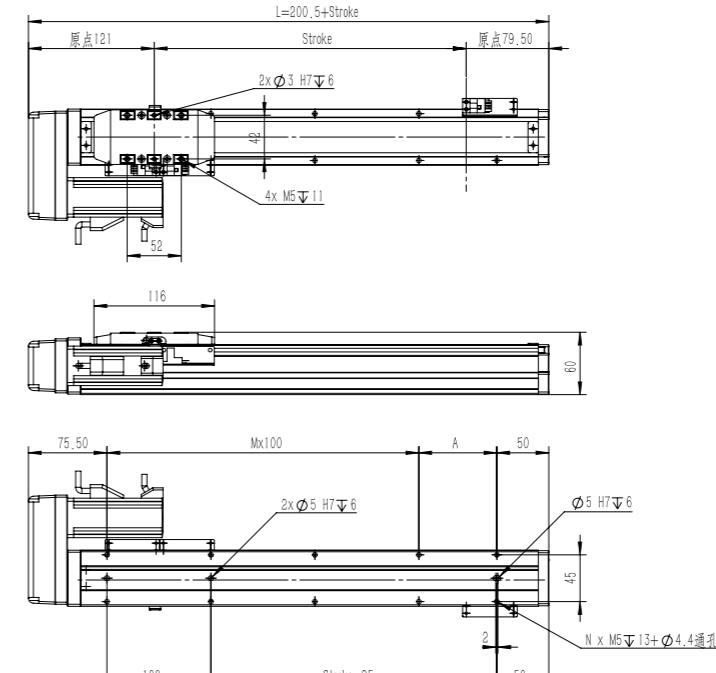
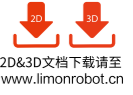


行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250.5	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	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

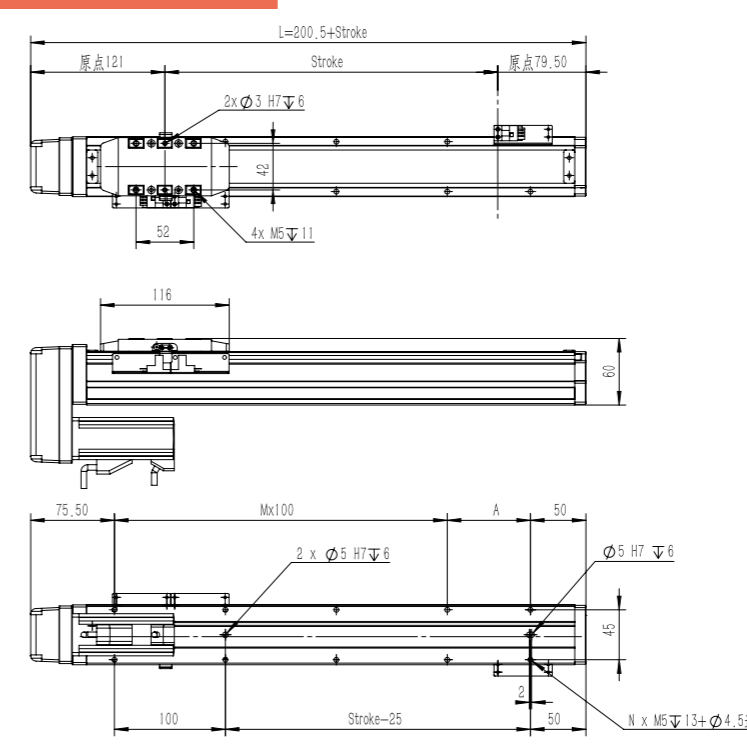
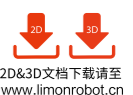
Guide rail embedded slide module

GSC 50-MR 马达右折安装 Right Motor Mounting



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



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 Series

GSC Series

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 本体型号 Item NO.	L05 螺杆导程 Ball Screw Lead 05	275 行程 Stroke 25-325, 间隔Gap25	MS 马达方向 Motor Mounting Position 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	M10 马达厂牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 10 100W P 松下 Panasonic 10 100W	P3 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	A001 特注式样 Special Order No. 未标记: 无 NoMark/NoSensor
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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



基本规格 Basic Specification

GSC 50S		
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)
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

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

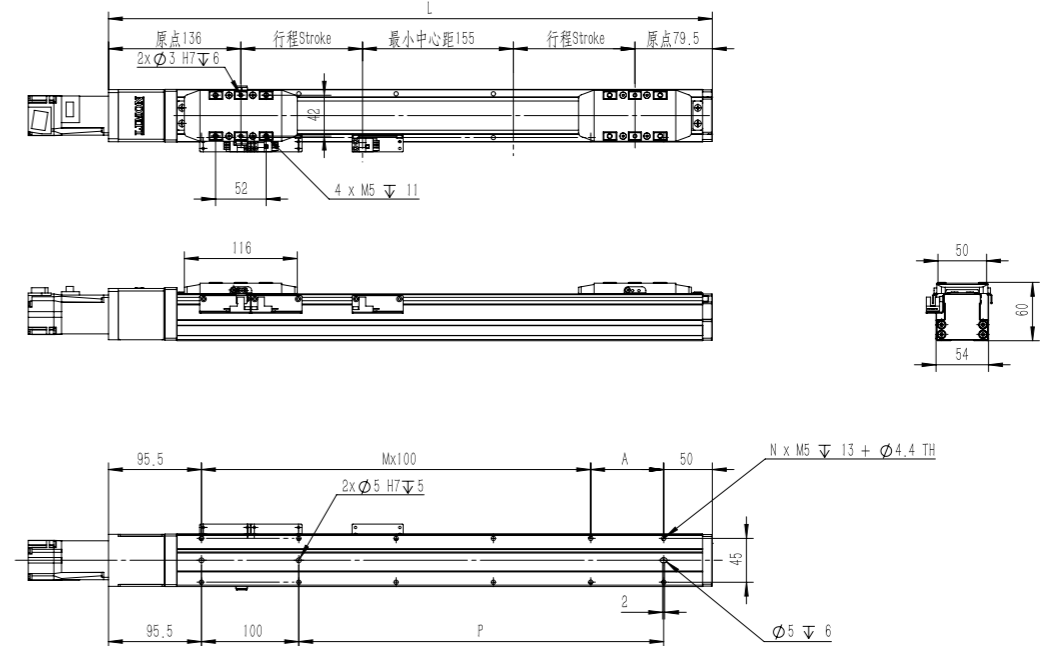
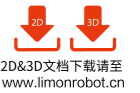
壁挂安装 Wall Installation			
导程 lead	A	B	C
10kg	100	75	650
20kg	45	32	420
30kg	25	19	260

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

轨道内嵌式对开滑台模组 GSC 50S

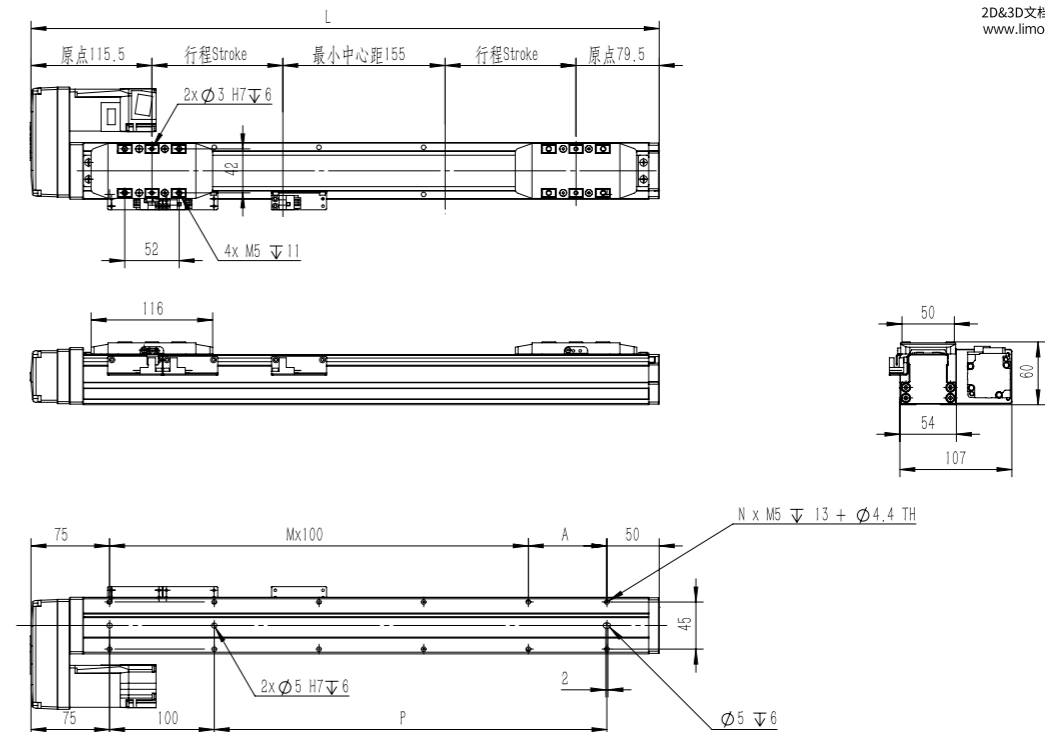
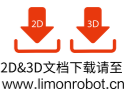
Built-in track slide module

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



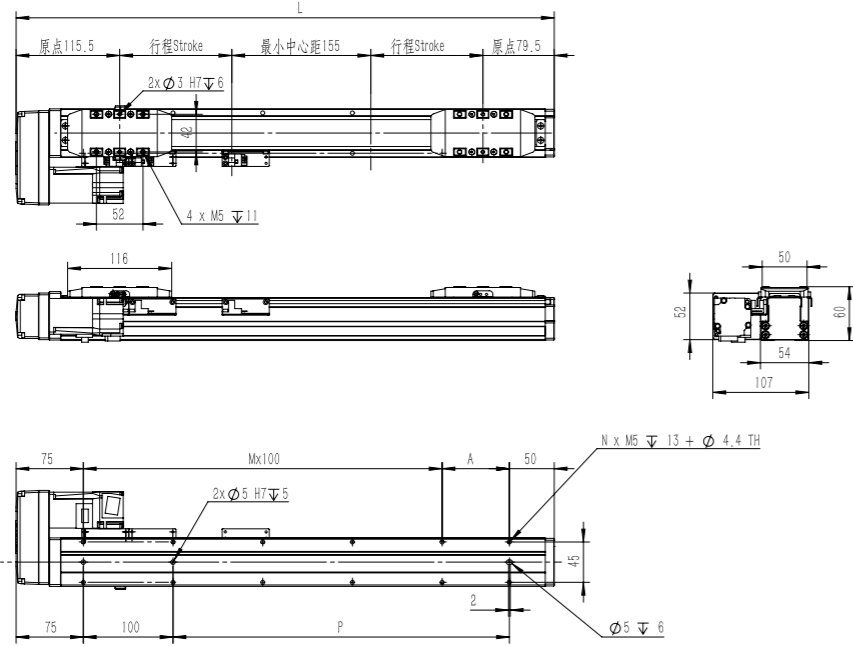
行程 Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325
L	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	425	475	525	575	625	675	725	775
重量 Weight (kg)	2.99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

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

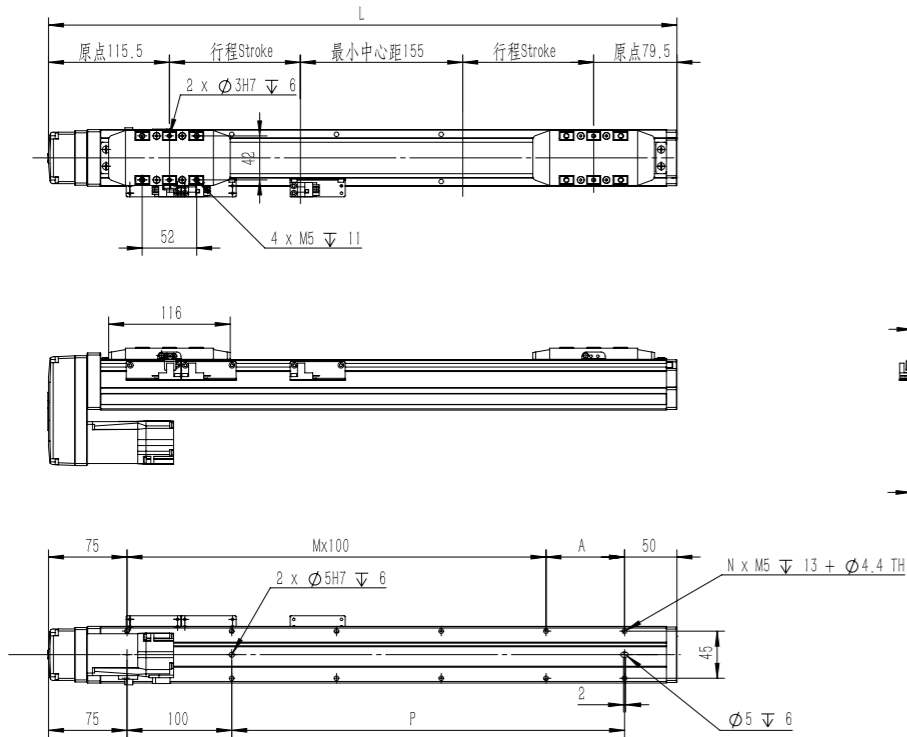
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行程 Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325
L	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	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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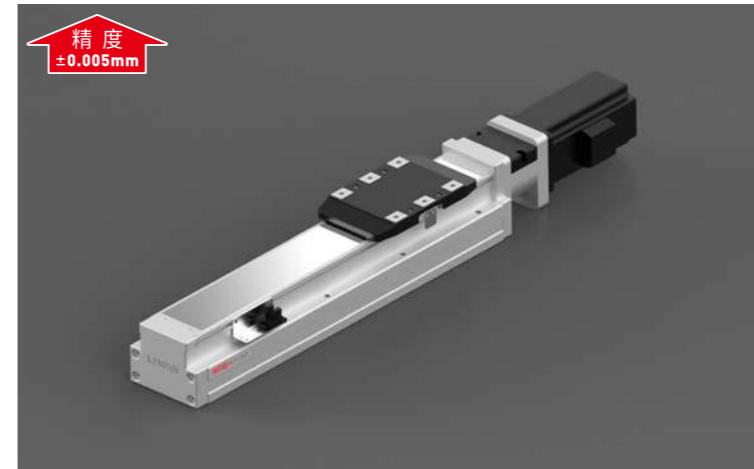
行程 Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325
L	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	425	475	525	575	625	675	725	775
重量 Weight (kg)	2.99	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 Position	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	50-1050, 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	



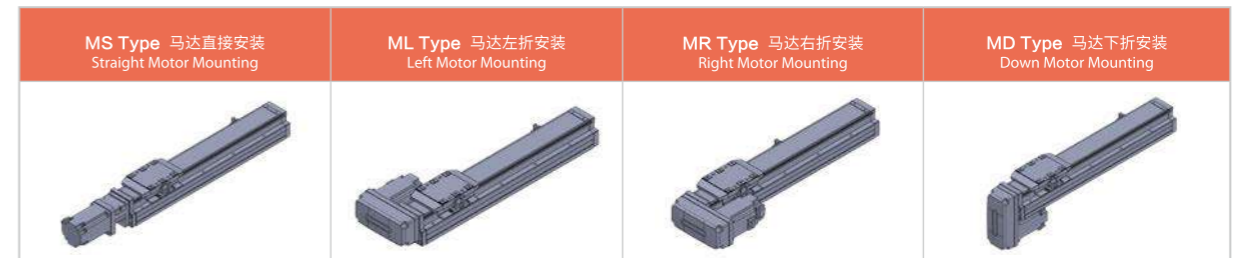
最大静态力和力矩 Max Static Forces And Torques

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		
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)	50 30 18
	垂直使用Vertical (kg)	15 8 3
定格推力 Rated Thrust (N)	683 341 174	
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

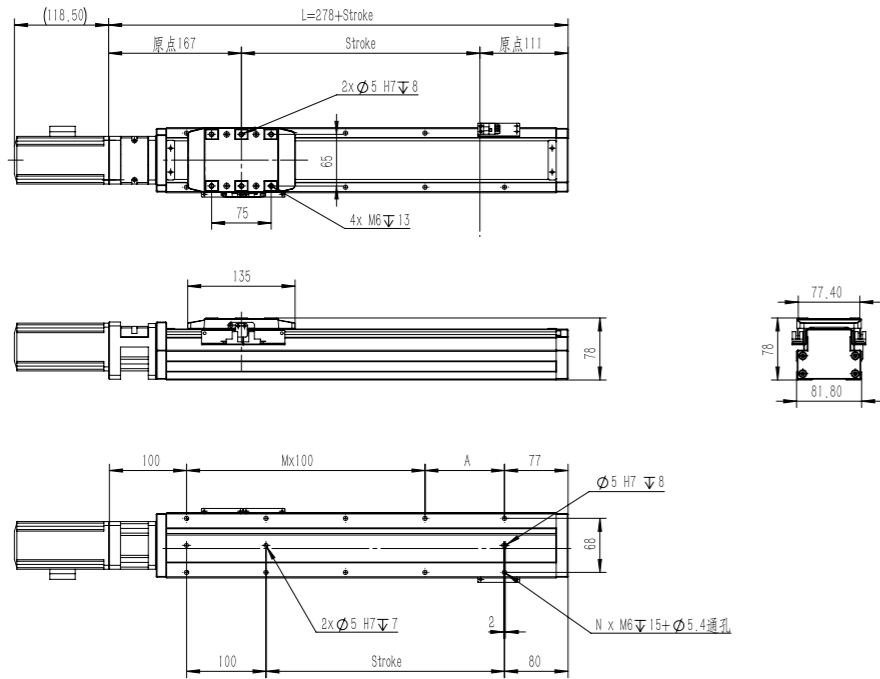
单位Unit:mm		单位Unit:mm			单位Unit:mm						
水平安装 Horizontal Installation		壁挂安装 Wall Installation			垂直安装 Vertical Installation						
导程 Lead	A	B	C	A	B	C	A	C			
导程 5 lead	20kg	1560	153	237	20kg	214	153	1435	10kg	331	331
	35kg	890	81	126	35kg	113	81	845	15kg	220	220
	50kg	550	53	82	50kg	74	53	506	-	-	-
导程 10 lead	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	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 轨道内嵌式滑台模组

Guide rail embedded slide module

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

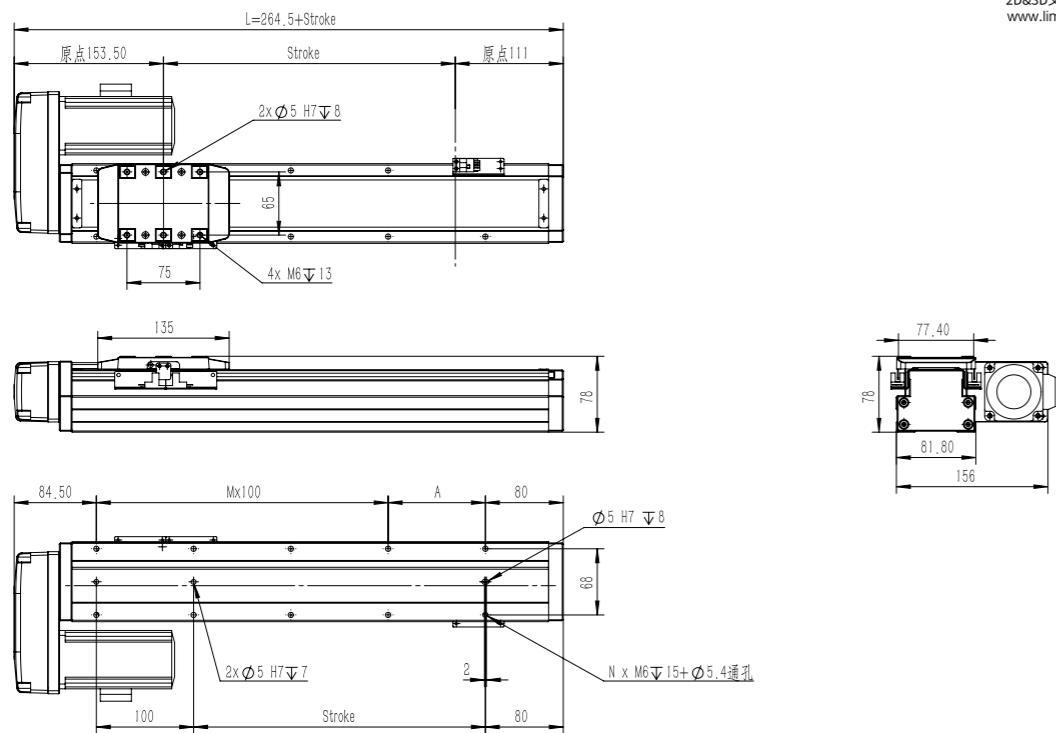
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行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377
A	50	100	50	100	50	100	50	100	50	100	50	100	50	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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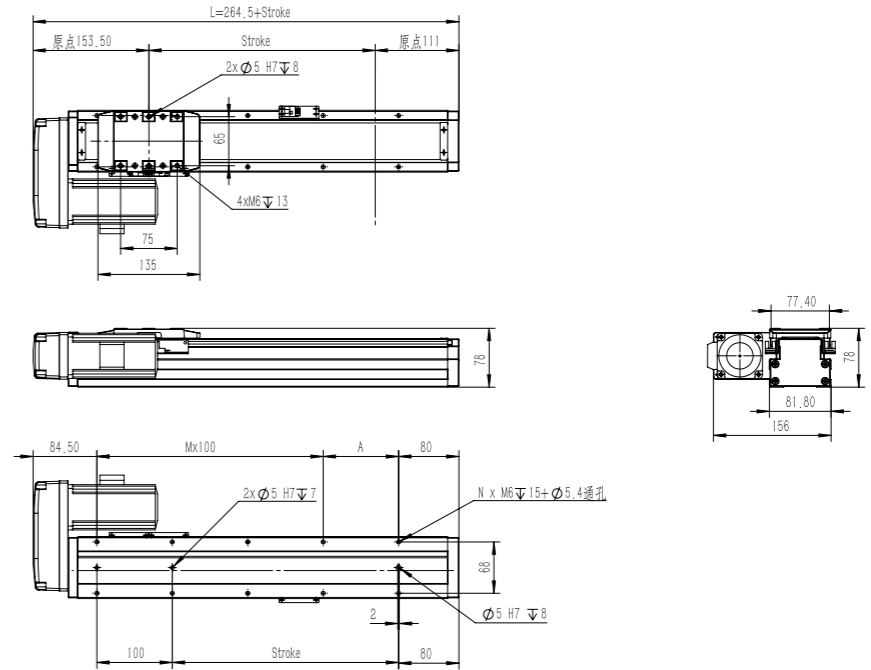
行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	1063.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	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

轨道内嵌式滑台模组 GSC 80

Guide rail embedded slide module

GSC 80-MR 马达右折安装 Right Motor Mounting

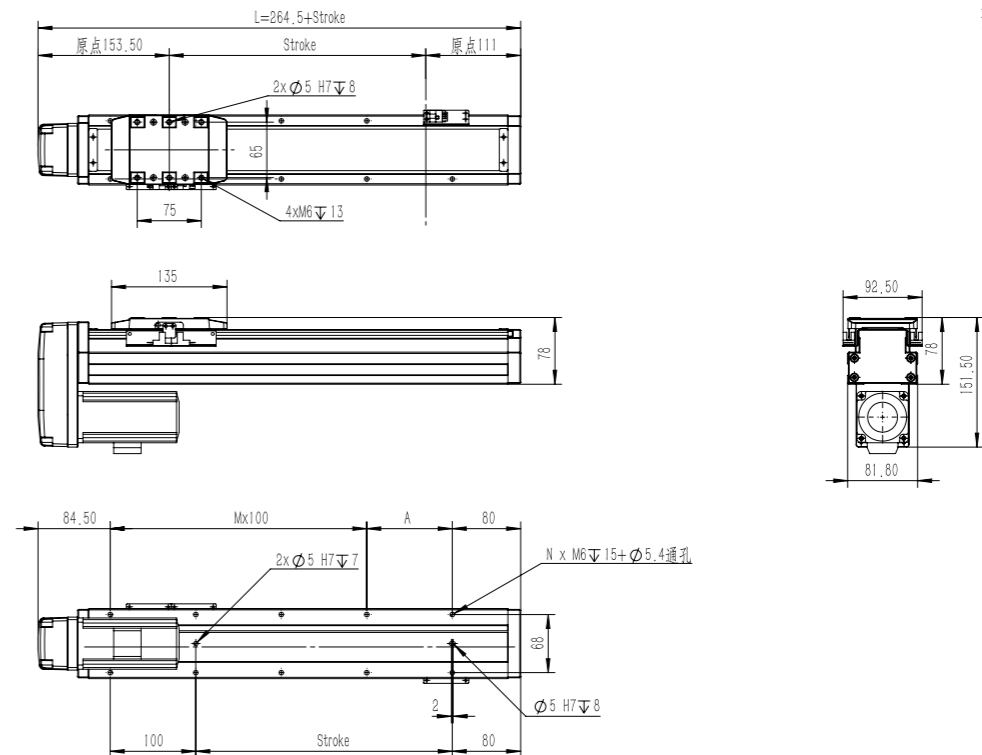
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行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	1063.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	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 Series

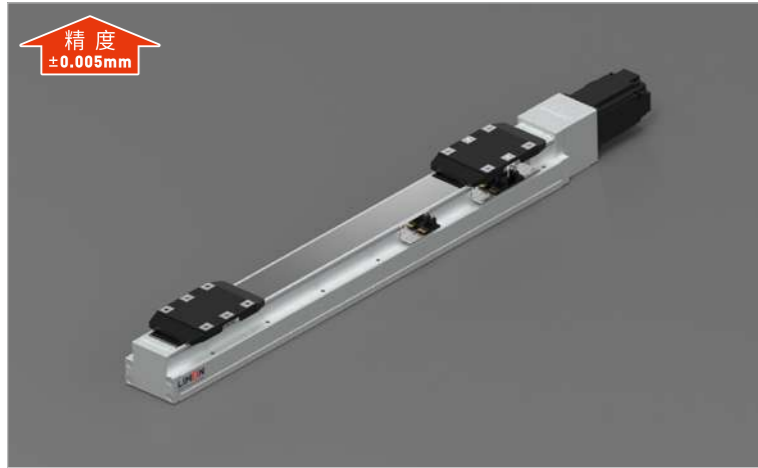
GSC Series

GSC 80S 轨道内嵌式对开滑台模组

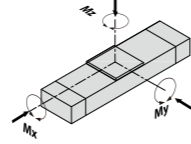
Built-in track slide module

订购型号代码 Code

GSC 80S	L05	275	MS	M10	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 Position 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)
垂直使用Vertical (kg)		15 (双滑块 Dual Carriage)
	定格推力 Rated Thrust (N)	1388
基本规格 Basic Specification	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 x 14/11
	原点感应器 Home Sensor	PM-Y45(NPN)

容许负载力矩表 Allowable Overhang

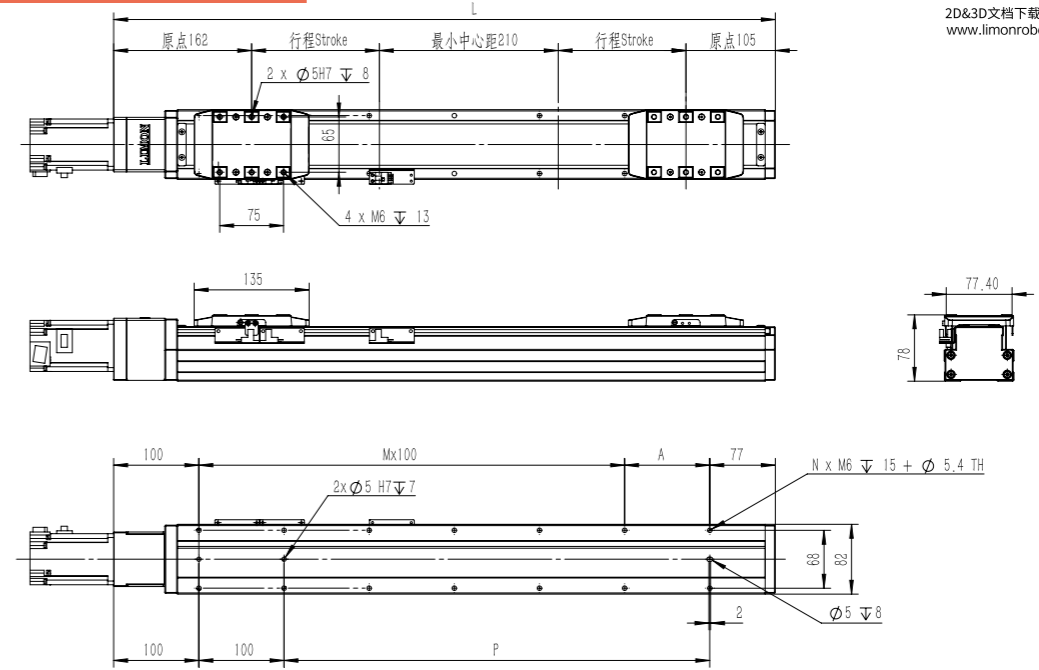
水平安装 Horizontal Installation				壁挂安装 Wall Installation				
导程 Lead	A	B	C	导程 Lead	A	B	C	
05	25kg	1560	153	237	20kg	214	153	1435
05	35kg	890	81	126	35kg	113	81	845
05	50kg	550	53	82	50kg	74	53	506

垂直安装 Vertical Installation		
导程 Lead	A	C
05	10kg	331
05	15kg	220
lead	/	/

轨道内嵌式对开滑台模组 GSC 80S

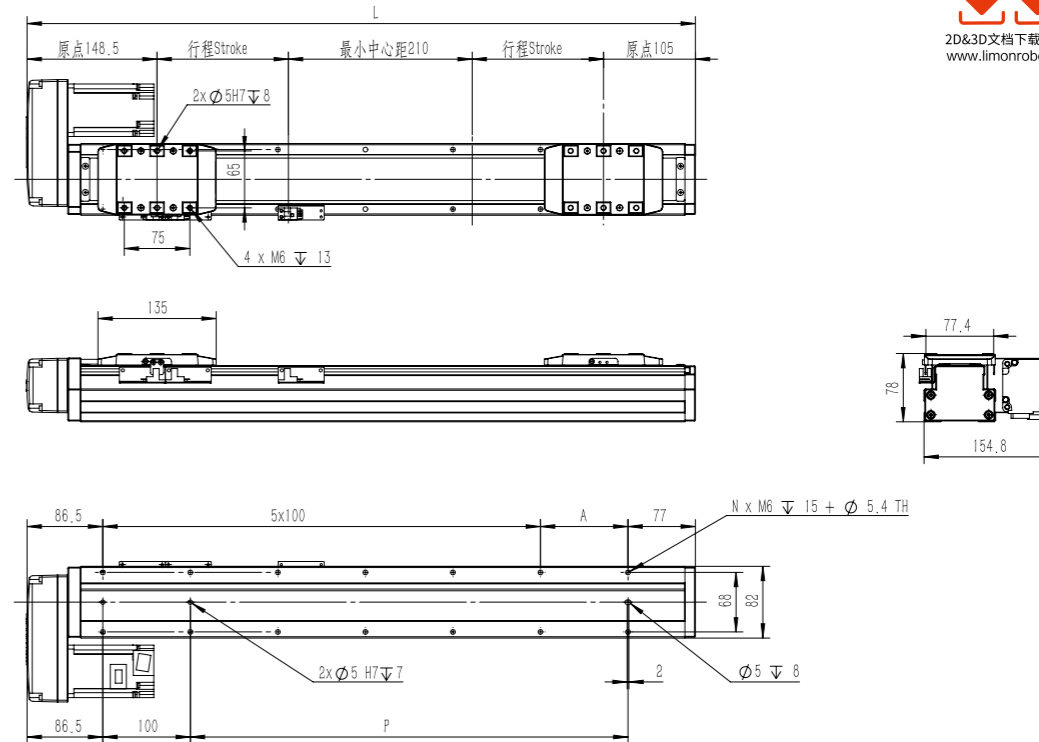
Built-in track slide module

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	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328	1378
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

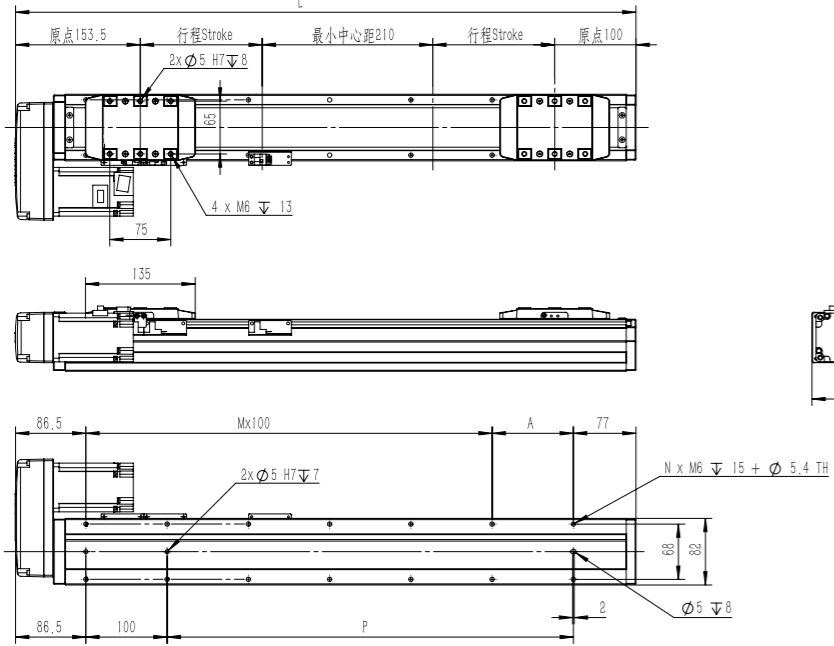
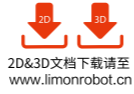


行程 Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450
L	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	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	15.49	12.85

GSC 80S 轨道内嵌式对开滑台模组

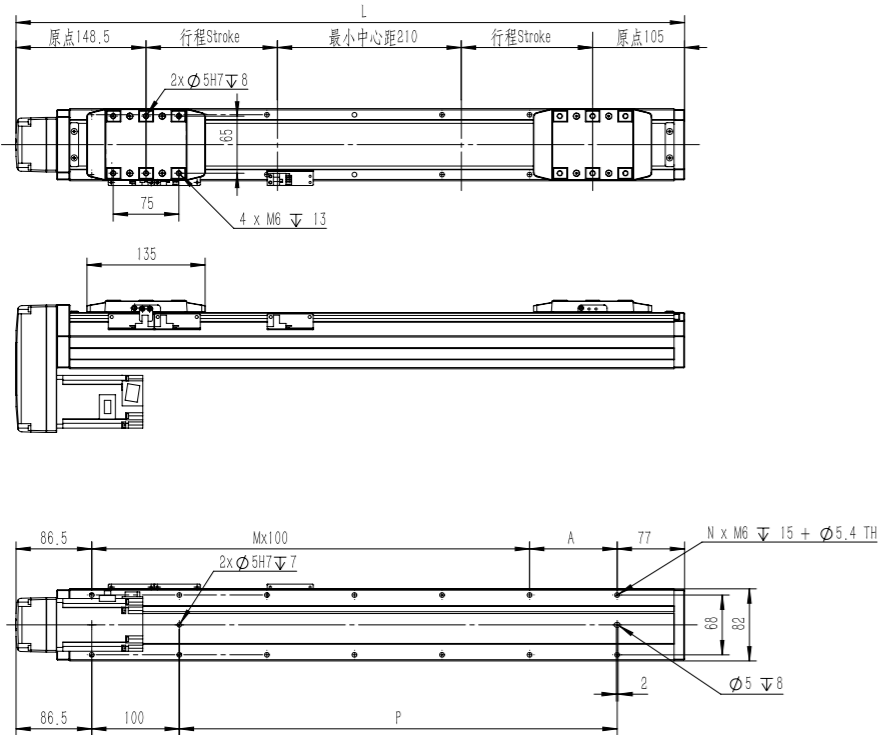
Built-in track slide module

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



行程 Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450
L	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
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	15.49	12.85

GSC 80S-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
L	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
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	15.49	12.85

导轨内嵌式滑台模组 GSC 120

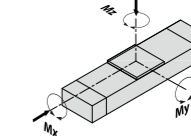
Guide rail embedded slide module

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 Position	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	



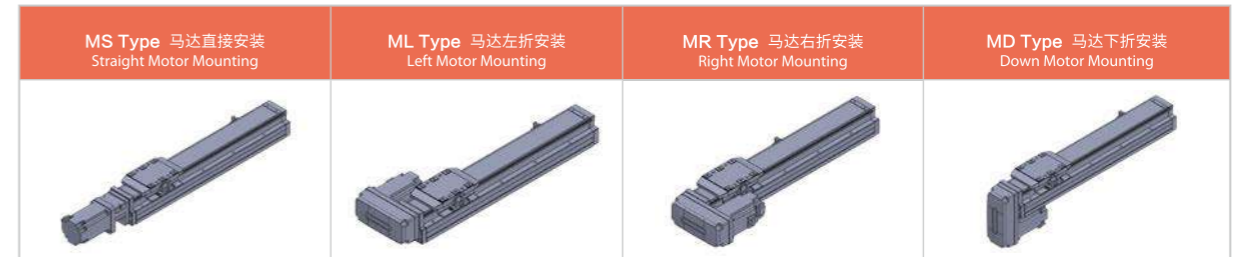
最大静态力和力矩 Max Static Forces And Torques



Type	GSC 120
■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



基本规格 Basic Specification

GSC 120		
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	
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)	

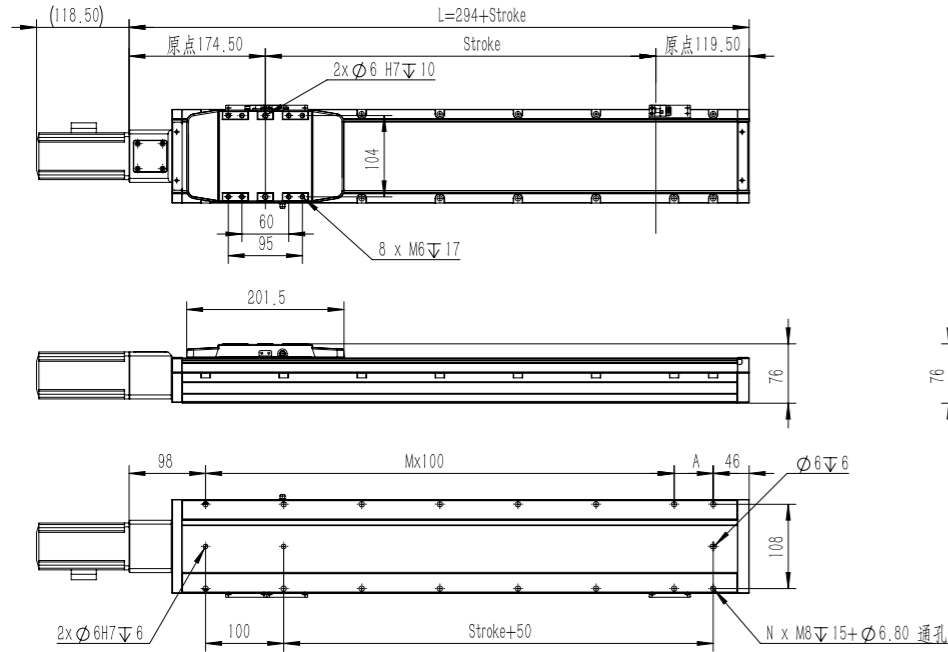
容许负载力矩表 Allowable Overhang

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 5 lead	60kg	2850	250	340	55kg	280	280	3300	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	35kg	400	410	2500	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	12kg	900	1070	3000	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	15kg	440	570	1050	5kg	1600	1600
	25kg	620	330	320	30kg	210	270	520	8kg	1000	1000
	30kg	520	270	260	-	-	-	-	-	-	-

GSC 120 导轨内嵌式滑台模组

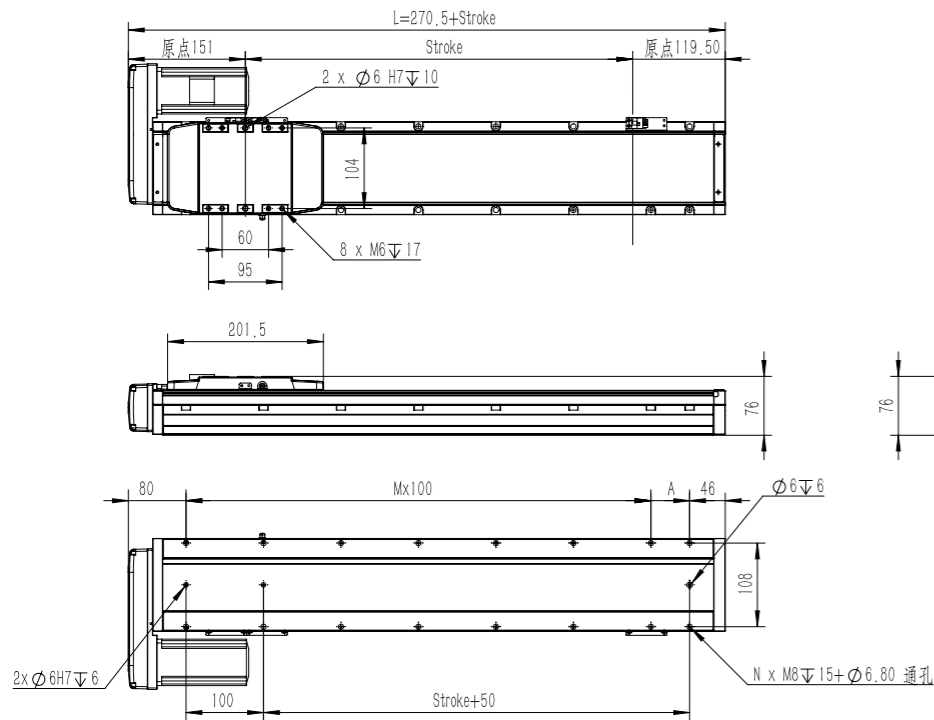
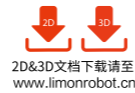
Guide rail embedded slide module

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



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	395	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

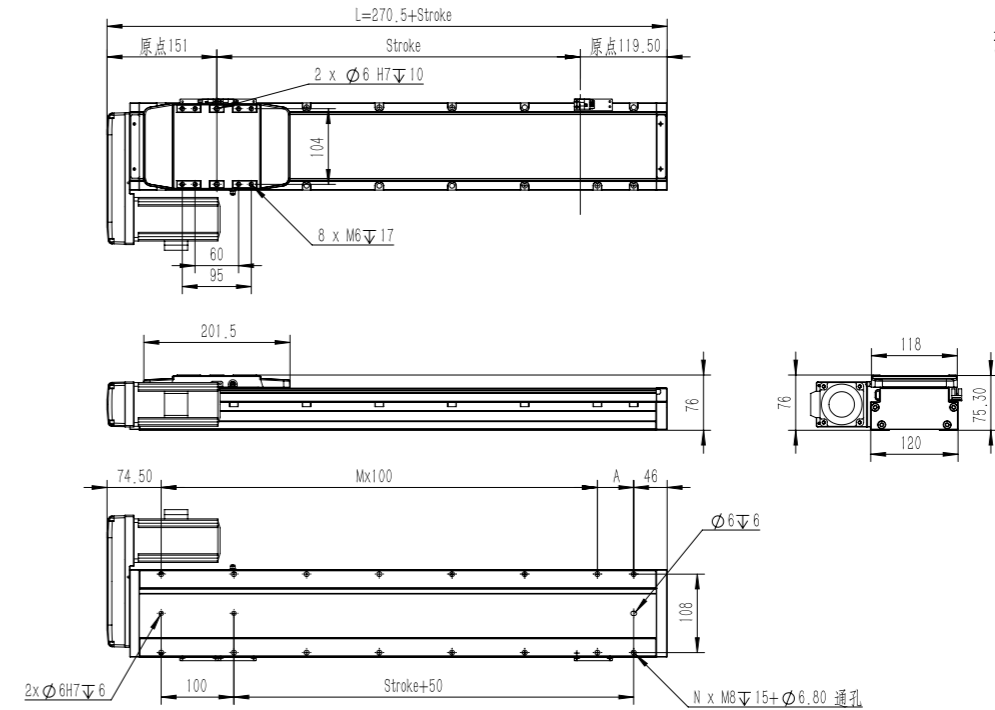
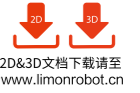


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	320.5	380.5	430.5	480.5	530.5	580.5	630.5	680.5	730.5	780.5	830.5	880.5	930.5	980.5	1030.5	1080.5	1130.5	1180.5	1230.5	1280.5	1330.5	1380.5	1430.5	1480.5	1530.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
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

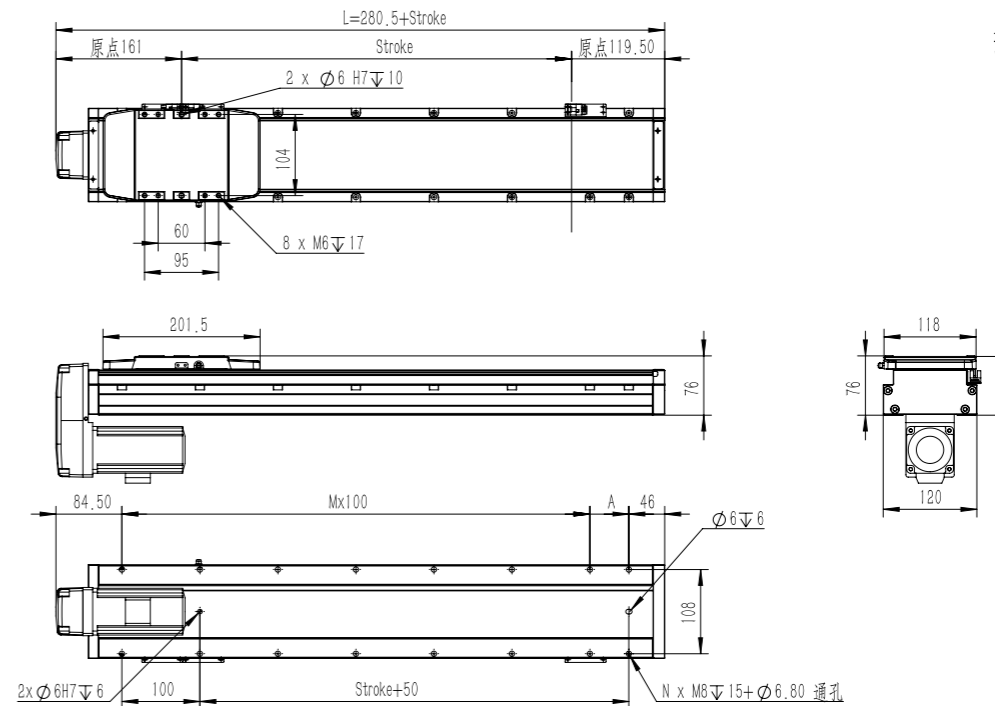
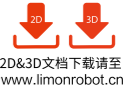
Guide rail embedded slide module

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



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	320.5	380.5	430.5	480.5	530.5	580.5	630.5	680.5	730.5	780.5	830.5	880.5	930.5	980.5	1030.5	1080.5	1130.5	1180.5	1230.5	1280.5	1330.5	1380.5	1430.5	1480.5	1530.5
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	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
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



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	320.5	380.5	430.5	480.5	530.5	580.5	630.5	680.5	730.5	780.5	830.5	880.5	930.5	980.5	1030.5	1080.5	1130.5	1180.5	1230.5	1280.5	1330.5	1380.5	1430.5	1480.5	1530.5
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	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
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

导轨内嵌式皮带模组

Rail embedded conveyor belt slide table



GTC 50



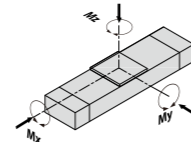
GTC 80

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 50-1500, 间隔Gap50	马达方向 Motor Mounting Position 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 10 100W P 松下 Panasonic 10 100W	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



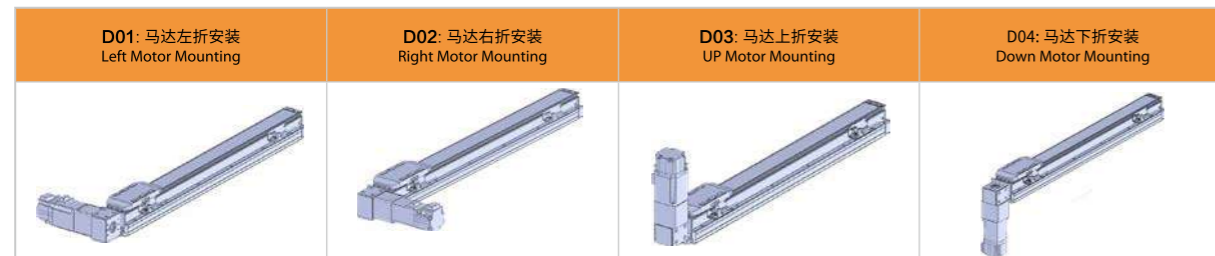
最大静态力和力矩 Max Static Forces And Torques



Type	GTC 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



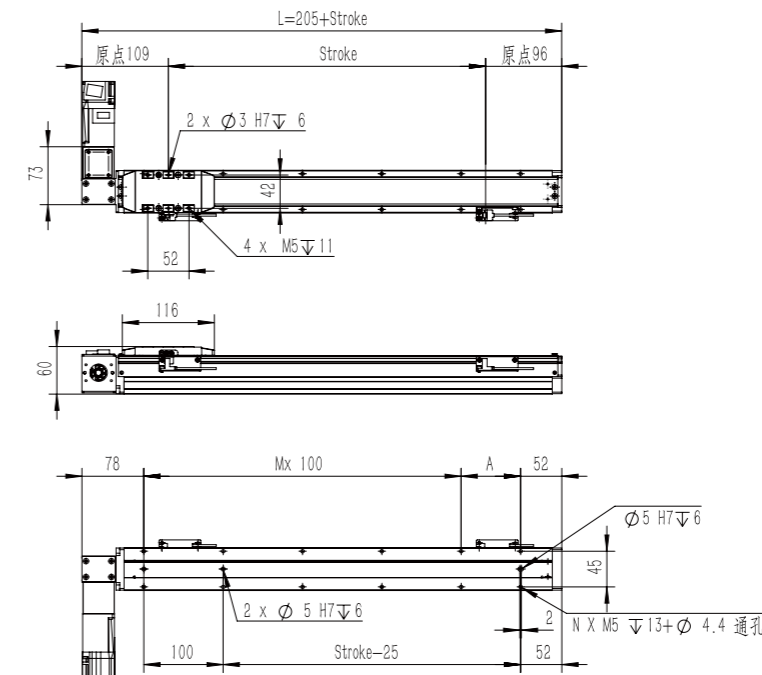
基本规格 Basic Specification

GTC 50		
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)	/
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

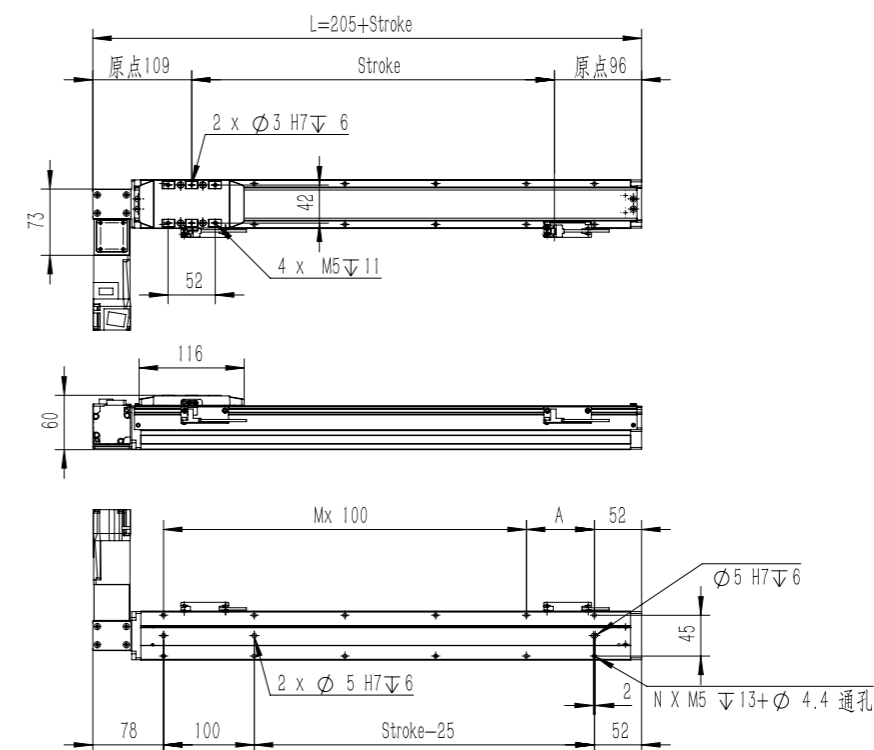
单位Unit:mm	水平安装 Horizontal Installation			壁挂安装 Wall Installation		
	A	B	C	A	B	C
2kg	320	120	130	2kg	130	320
3.5kg	220	70	80	3.5kg	75	320
5kg	175	55	60	5kg	65	170

GTC 50-D01 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	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

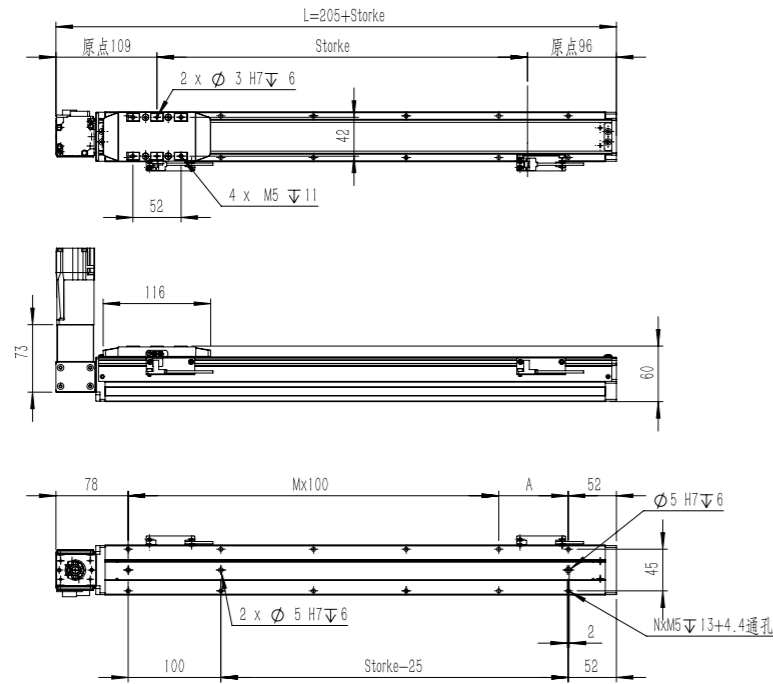


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	255	305	355	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405	1455	1505	1555	1605	1655	1705
A	25	75	25	75	25	75	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

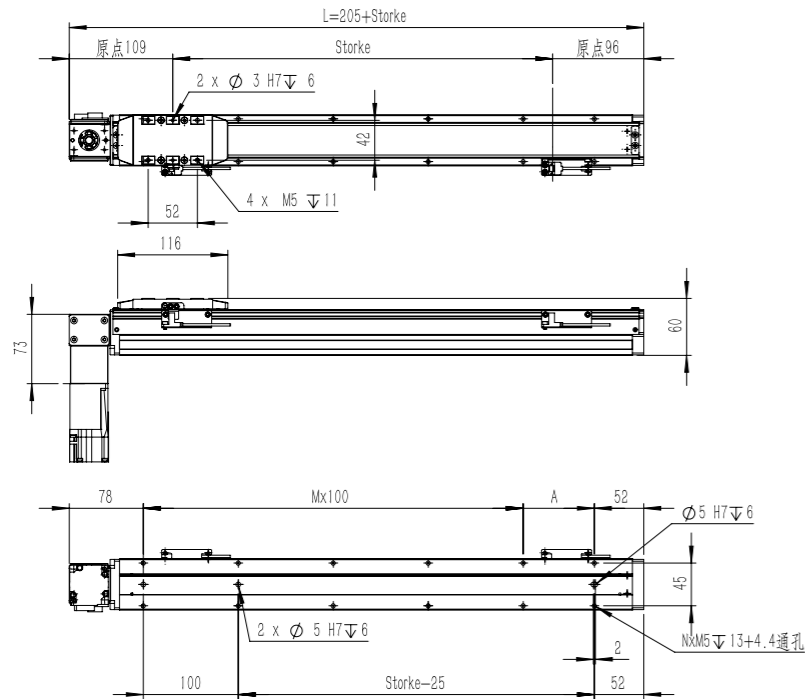
GTC 50-D03 马达上折安装 Up Motor Mounting



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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-D04 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	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 GTC 80

Rail embedded conveyor belt slide table

订购型号代码 Code

GTC 80 本体型号 Item NO.	L48 皮带轮导程 Pulley Lead	500 行程 Stroke 50-1500, 间隔Gap50	D01 马达方向 Motor Mounting Position 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	M40 马达厂牌、功率 Motor Brand、Power Output M 三菱 Mitsubishi 40 400W P 松下 Panasonic 40 400W	P3 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	A001 特注式样 Special Order No. 未标记, 无 NoMark/NoSensor
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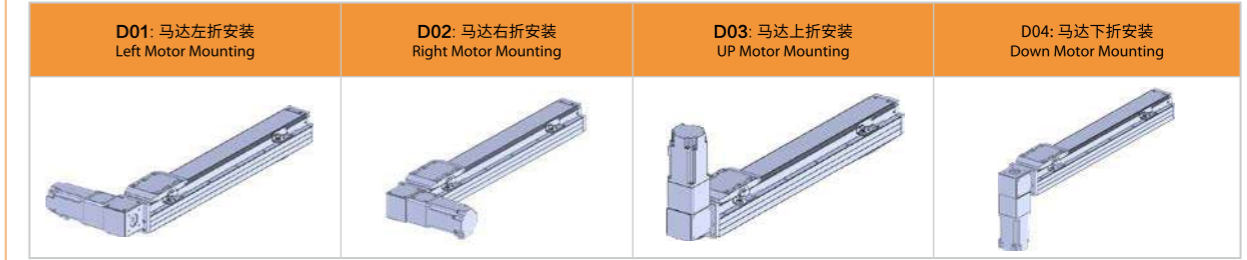


最大静态力和力矩 Max Static Forces And Torques

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



基本规格 Basic Specification

GTC 80		
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)	/
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)	

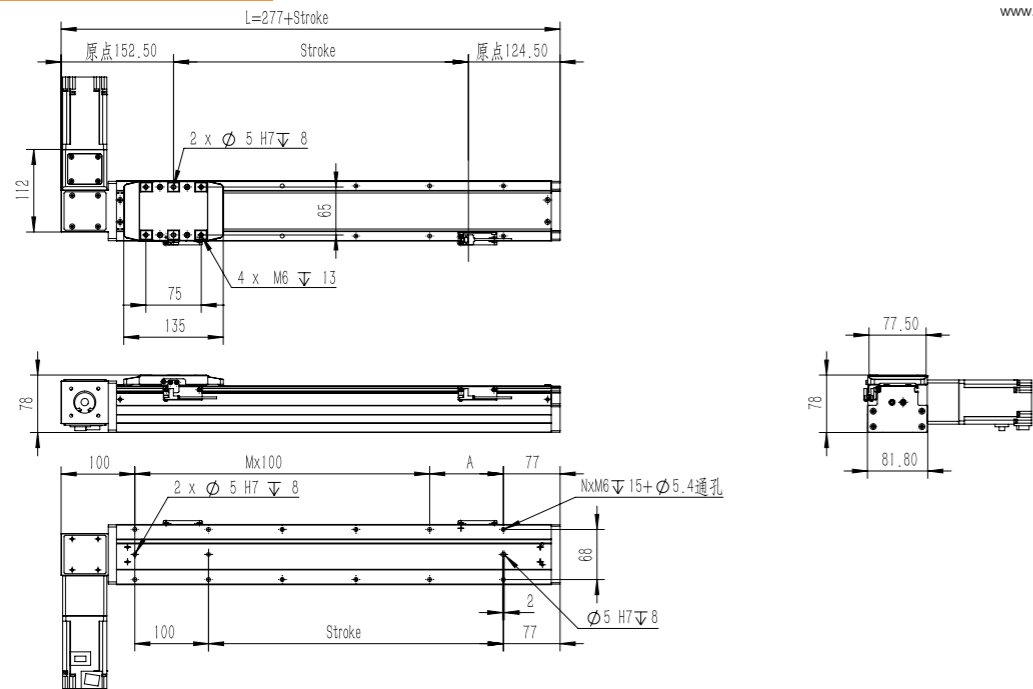
容许负载力矩表 Allowable Overhang

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

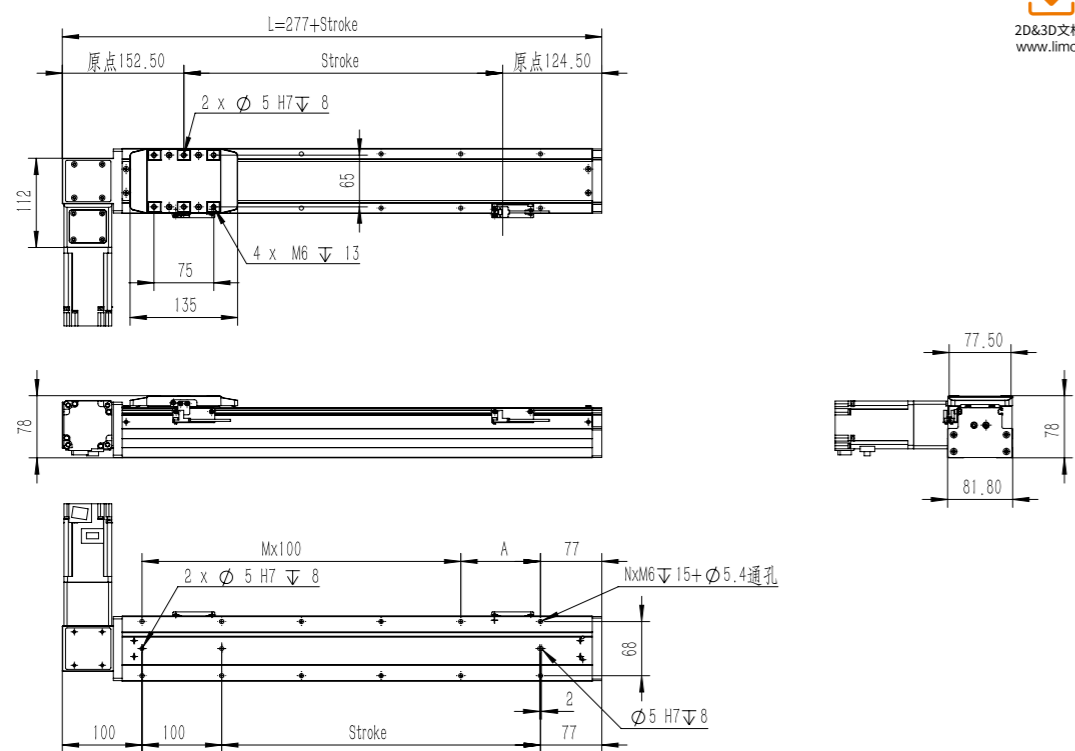
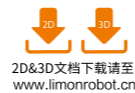
Rail embedded conveyor belt slide table

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

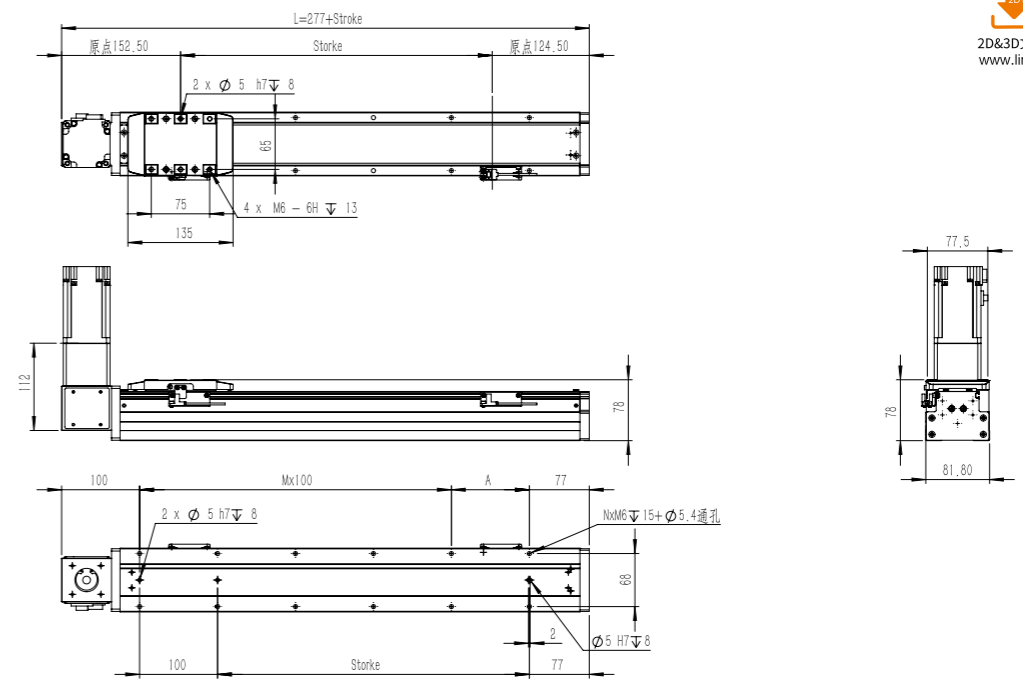
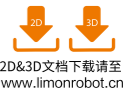


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777
A	50	100	50	100	50	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

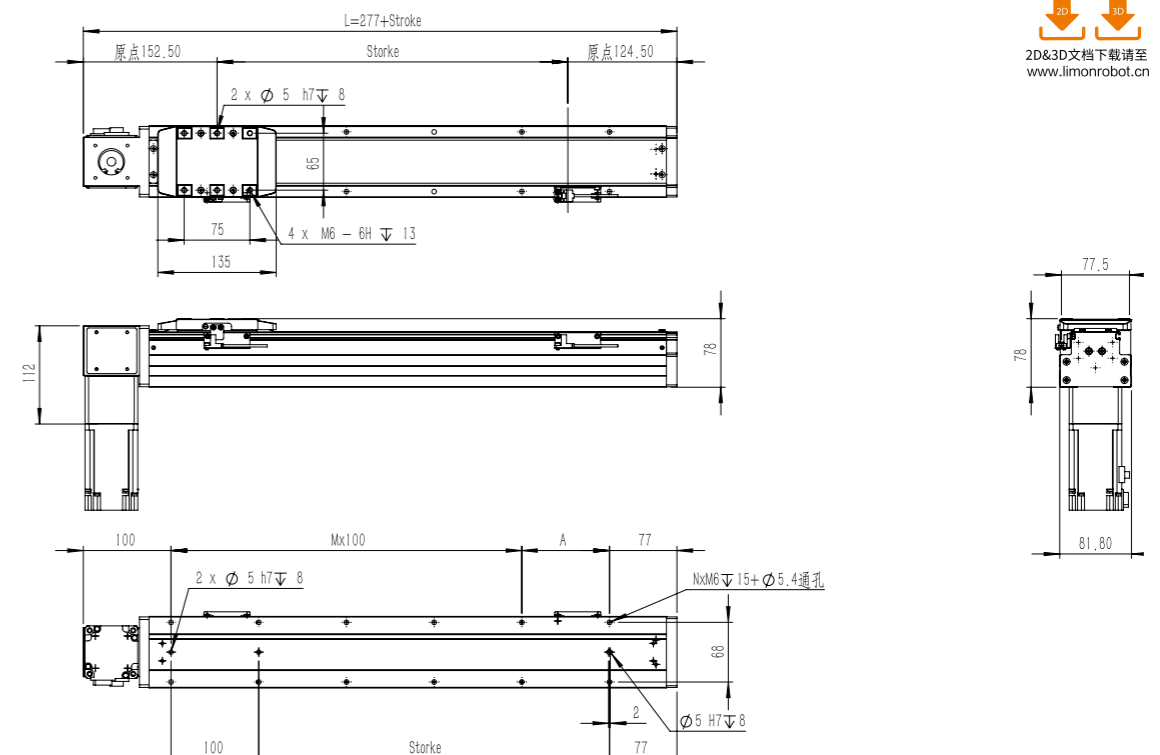
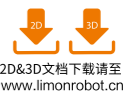
Rail embedded conveyor belt slide table

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



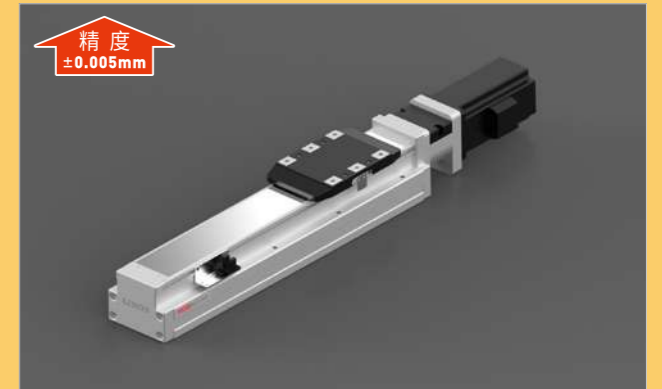
行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777
A	50	100	50	100	50	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 50



GCC 80



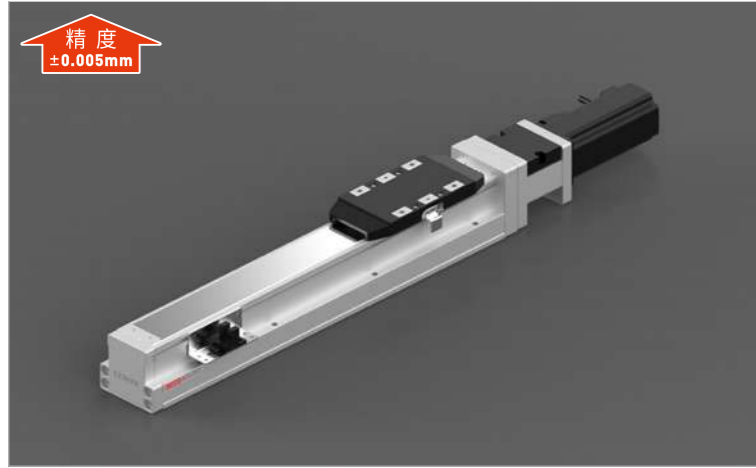
GCC 120

GCC 50 导轨内嵌洁净式滑台模组

Embedded sliding table for dust-free workshop

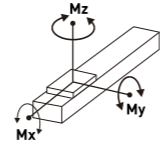
订购型号代码 Code

GCC 50 本体型号 Item NO.	L10 螺杆导程 Ball Screw Lead	500 行程 Stroke	MS 马达方向 Motor Mounting Position	M40 马达厂牌、功率 Motor Brand, Power Output	P3 限位传感器数量 Photoelectric Sensor	A001 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

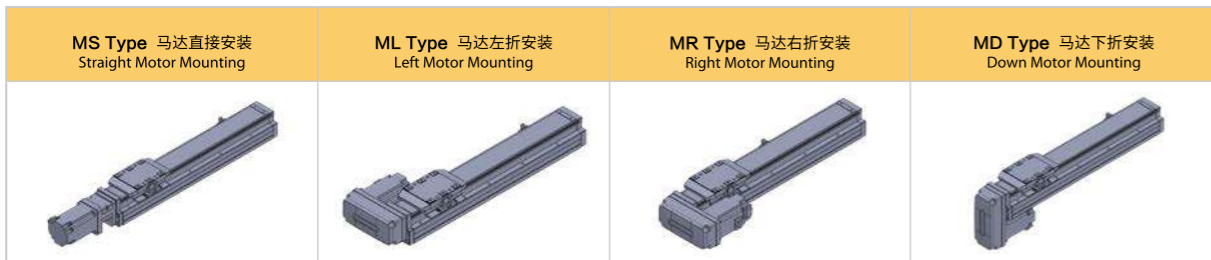


Type	GCC 50
Mx (N·m)	103
My (N·m)	103
Mz (N·m)	144

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
基本规格 Basic Specification		垂直使用Vertical (kg)	10	5	2.5
	定格推力 Rated Thrust (N)	341 170 85			
	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 Ø12			
	联轴器 Coupling (mm)	7×8			
原点感应器 Home Sensor	PM-Y45 (NPN)				

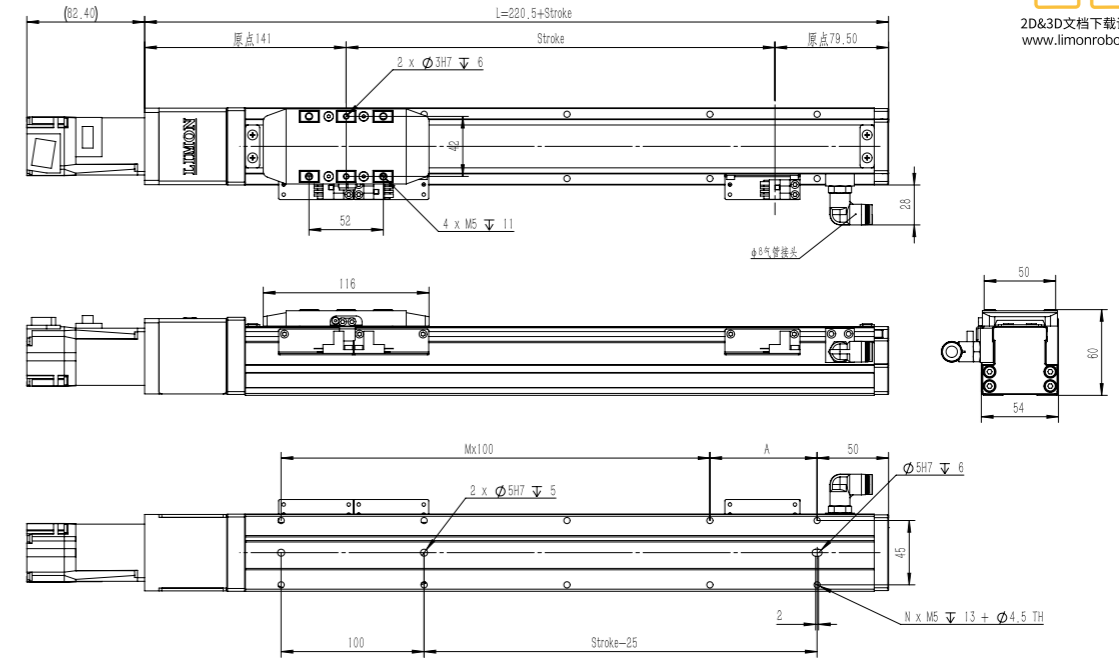
容许负载力矩表 Allowable Overhang

单位Unit:mm	水平安装 Horizontal Installation			壁挂安装 Wall Installation			垂直安装 Vertical Installation		
	A	B	C	A	B	C	A	C	
导程 5 lead	10kg	650	75	100	75	650	6kg	145	145
	20kg	440	32	45	32	420	8kg	110	110
	30kg	270	19	25	19	260	10kg	90	90
导程 10 lead	5kg	600	145	180	145	600	1kg	800	800
	10kg	370	70	85	68	370	3kg	260	260
	15kg	250	42	52	42	250	5kg	155	155
导程 20 lead	5kg	320	120	130	120	320	1kg	600	600
	8kg	220	70	80	75	220	2kg	300	300
	10kg	175	55	60	60	170	2.5kg	250	250

导轨内嵌洁净式滑台模组 GCC 50

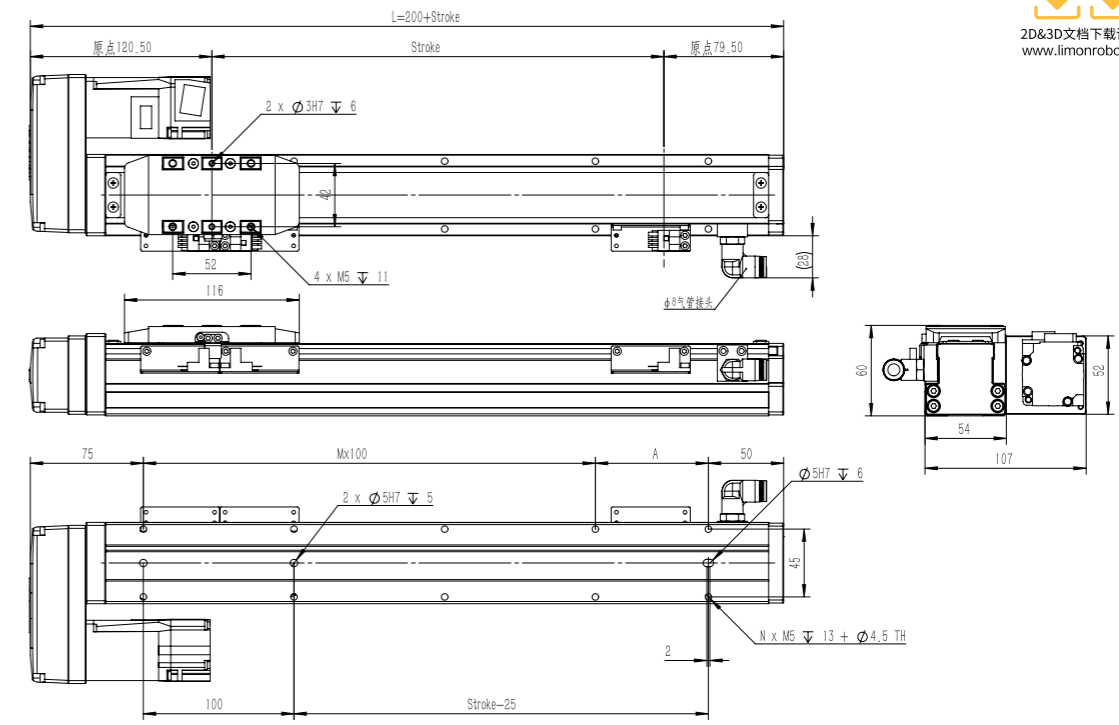
Embedded sliding table for dust-free workshop

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

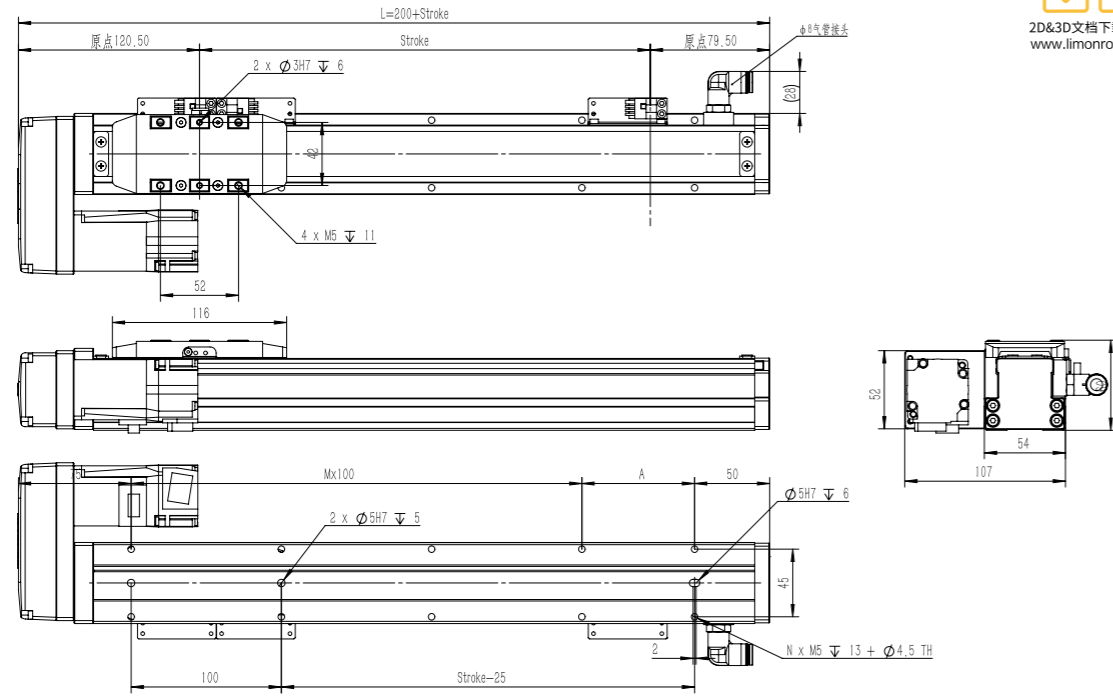


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight(kg)	1.14	1.33	1.53	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

GCC 50 导轨内嵌洁净式滑台模组

Embedded sliding table for dust-free workshop

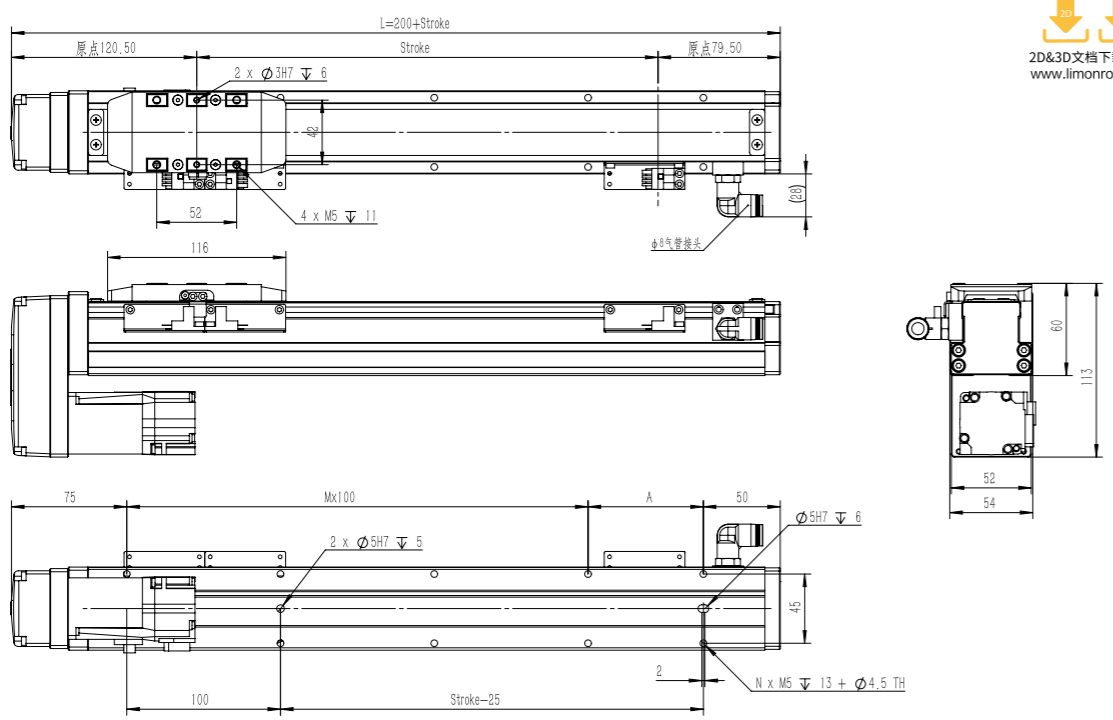
GCC 50-MR 马达右折安装 Right Motor Mounting



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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	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



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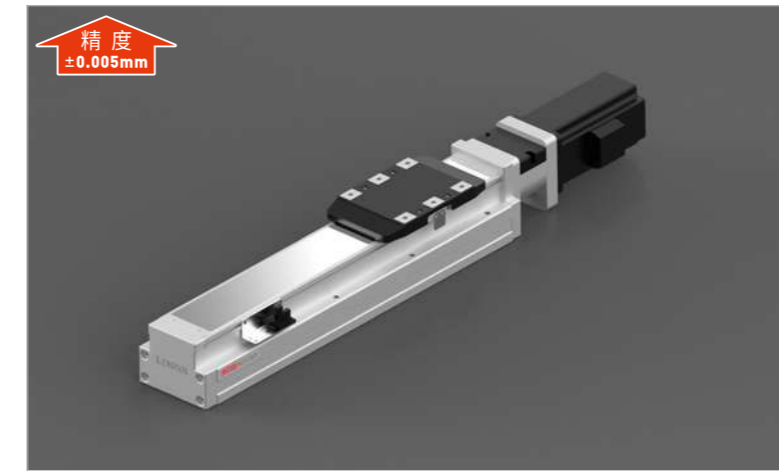
行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
重量 Weight(kg)	1.14	1.33	1.53	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 80

Inserted sliding platform of guide rail

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 Position	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

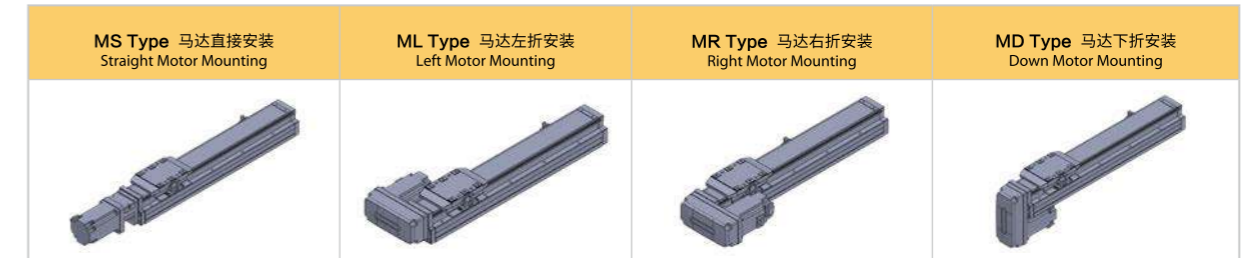


最大静态力和力矩 Max Static Forces And Torques

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



基本规格 Basic Specification

GCC 80	
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)
	垂直使用 Vertical (kg)
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 x 14
原点感应器 Home Sensor	PM-Y45(NPN)

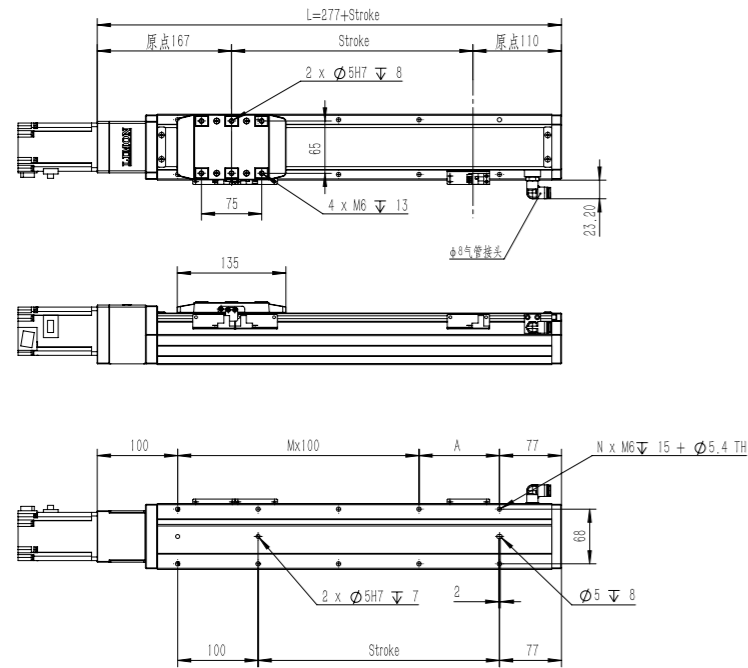
容许负载力矩表 Allowable Overhang

单位 Unit: mm	水平安装 Horizontal Installation			壁挂安装 Wall Installation			垂直安装 Vertical Installation				
	A	B	C	A	B	C	A	C			
导程 5 lead	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	83	506	-	-	-
导程 10 lead	10kg	1730	286	416	10kg	370	286	1400	5kg	589	589
	20kg	839	136	196	20kg	176	136	800	8kg	368	368
	30kg	541	85	124	30kg	12	86	495	-	-	-
导程 20 lead	6kg	1213	403	493	6kg	444	403	760	3kg	935	935
	9kg	800	264	323	9kg	292	264	277	-	-	-
	18kg	592	194	238	18kg	214	194	544	-	-	-

GCC 80 导轨内嵌洁净式滑台模组

Embedded sliding table for dust-free workshop

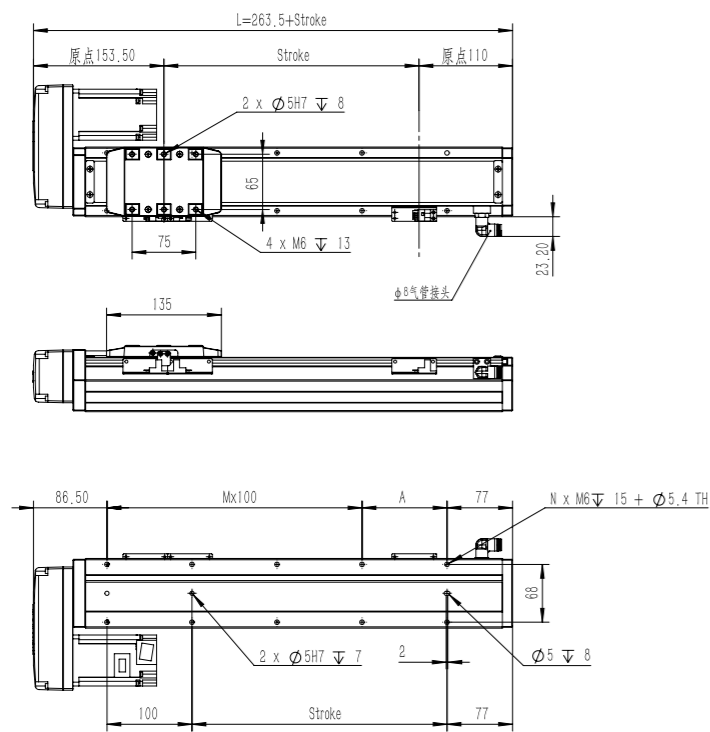
GCC 80-MS 马达直接安装 Straight Motor Mounting



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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

GCC 80-ML 马达左折安装 Left Motor Mounting



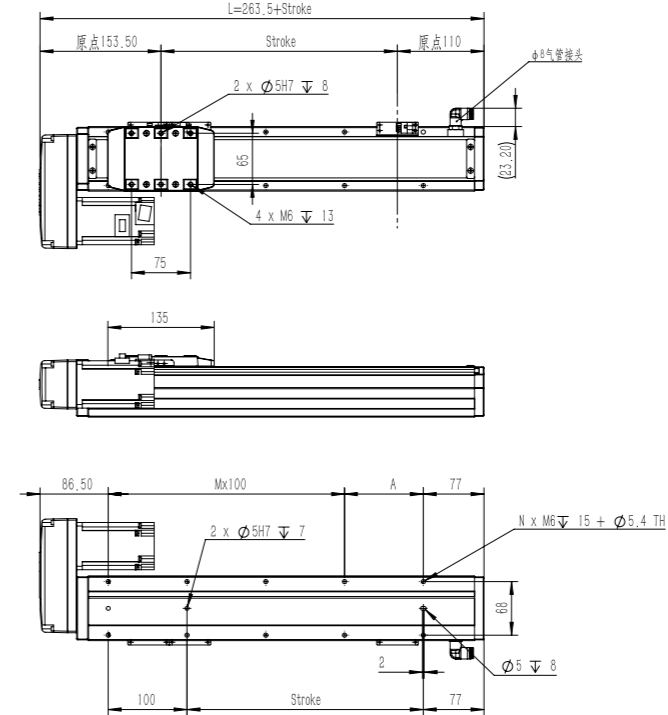
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行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	1063.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	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

导轨内嵌洁净式滑台模组 GCC 80

Inserted sliding platform of guide rail

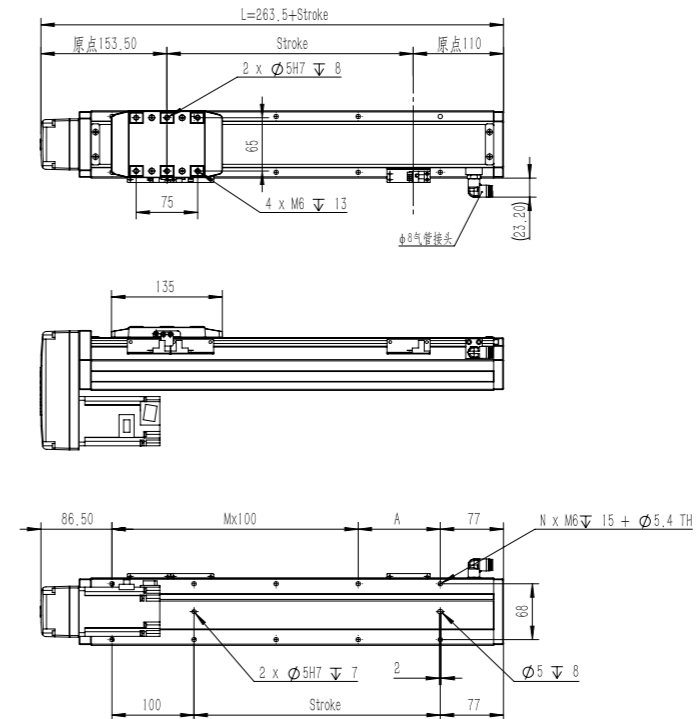
GCC 80-MR 马达右折安装 Right Motor Mounting



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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

GCC 120 导轨内嵌洁净式滑台模组

Embedded sliding table for dust-free workshop

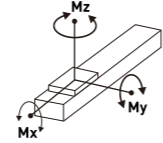
订购型号代码 Code

GCC 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 Position	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



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:

$$\frac{Mx}{Mx \max.} + \frac{My}{My \max.} + \frac{Mz}{Mz \max.} \leq 1$$

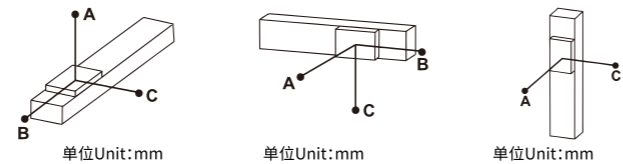
马达安装方向 Motor Mounting Position Version



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
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

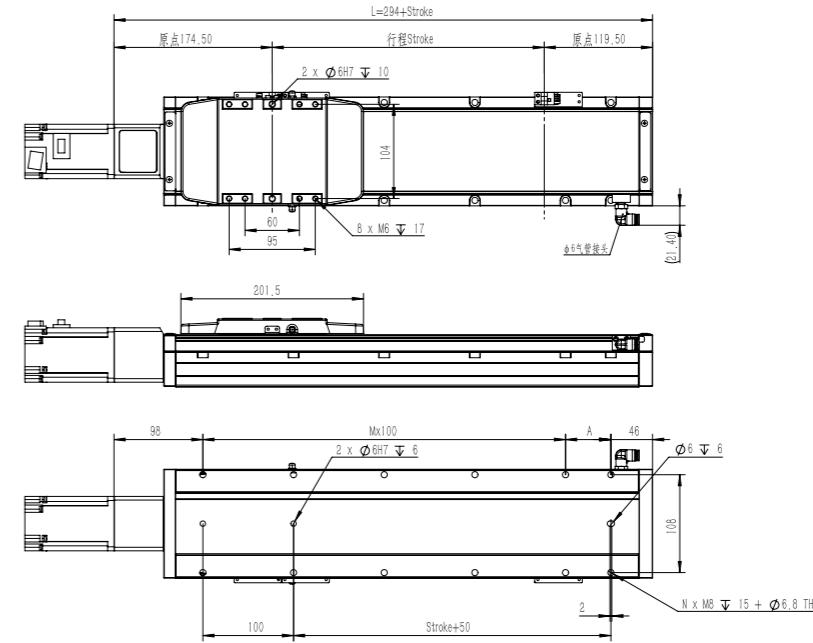


水平安装 Horizontal Installation					壁挂安装 Wall Installation					垂直安装 Vertical Installation		
	A	B	C	导程 lead		A	B	C	导程 lead	A	C	导程 lead
60kg	2850	250	340	5	55kg	280	280	3300	5	15kg	1200	1200
80kg	2100	180	250	10	75kg	200	195	2400	10	22kg	820	820
110kg	1500	120	170	20	110kg	130	125	1550	20	33kg	550	550
30kg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

导轨内嵌洁净式滑台模组 GCC 120

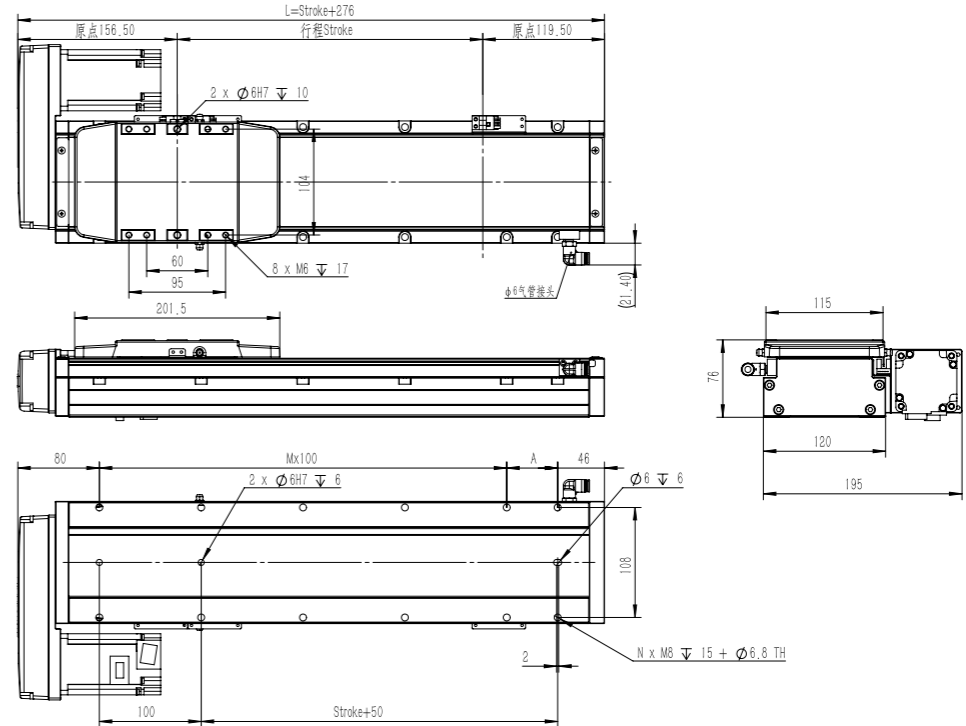
Embedded sliding table for dust-free workshop

GCC 120-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
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

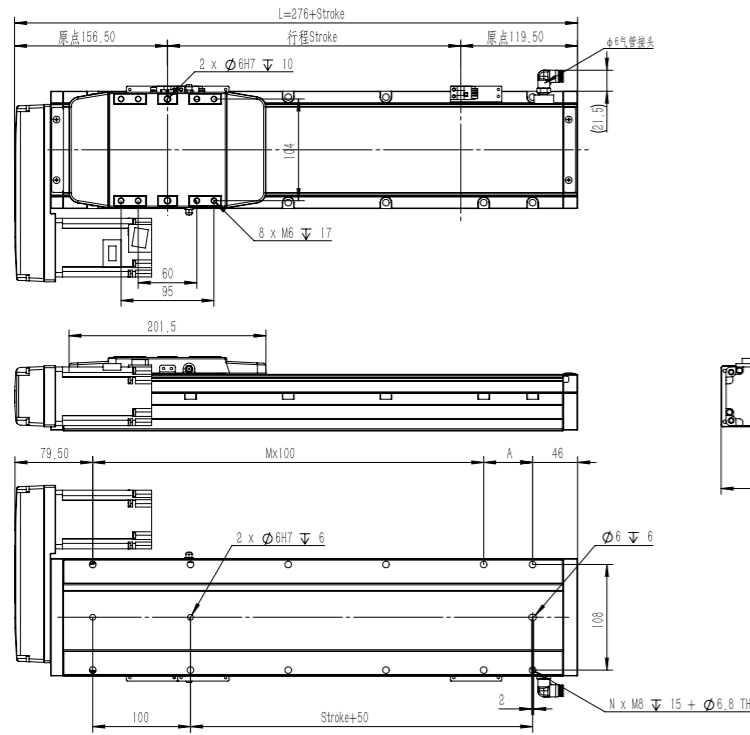


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	326	376	426	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	6	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
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	13.26	13.61

GCC 120 导轨内嵌洁净式滑台模组

Embedded sliding table for dust-free workshop

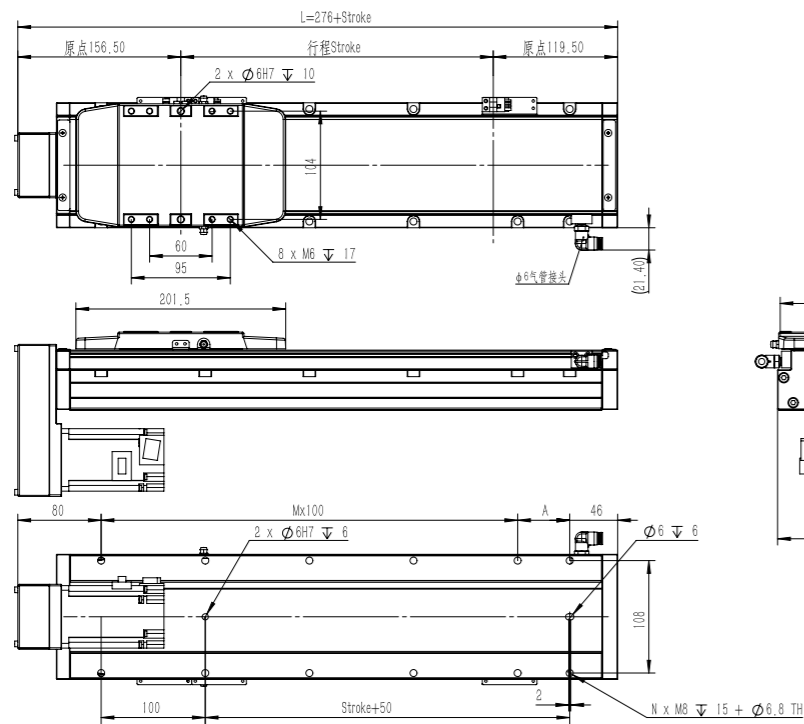
GCC 120-MR 马达右折安装 Right Motor Mounting



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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	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	6	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
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	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	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	6	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
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



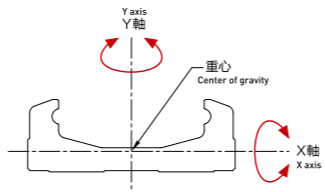
KS 100

KS 40 KS系列模组 KS series module

□ 订购型号代码 Code

KS40D	05	P	E	200	A	2	F0	C	S0
本体型号 Item NO.	螺桿導程 Travel	精度等級 Accuracy Grade	滾珠螺桿 特殊加工	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
	01 05	P: 精密級 Precision Class C: 一般級 Normal Class		100 150 200	A: 標準型 Standard Type	1 2	F0/F1/F2/H0	C: 鋁護套 Aluminum Cover B: 伸縮護套 Telescopic cover 無標記: 無護套 None: no cover	S0: 個有極限軌道 Only limit orbit S1: 松下PM-Y45(NPN) Panasonic PM-Y45(NPN) S1P: 松下PM-Y45-P(PNP) Panasonic PM-Y45-P(PNP)

注: 詳見P53.
Note: Refer to catalogue P53



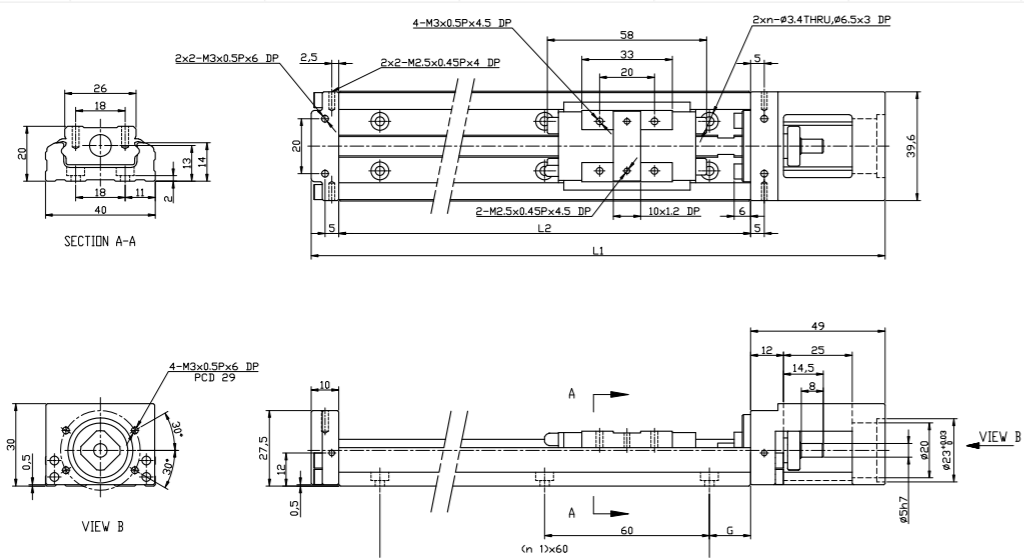
Ix: 延著X軸之慣性矩 Moment of inertia along the X-axis
Iy: 延著Y軸之慣性矩 Moment of inertia along the Y-axis

慣性矩	單位:mm ⁴
型號	I _x I _y
KS40D	3.533 x 10 ³ 5.317 x 10 ⁴

基本規格 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															
					俯仰 Pitching M _p (N·m)				偏擺 Deflection M _v (N·m)				滾動 Rolling M _r (N·m)							
KS40D01	P	8	1	1243	2794	3920 / / 6468 / / 33 182 / / / 33 182 / / / 81 162 / / /														
KS40D05	C	8	5	1130	2540															
	C	8	5	1177	2145															
	C	8	5	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						
	150	±0.003	±0.01	0.01	/	1.2	0.8
	200						



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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

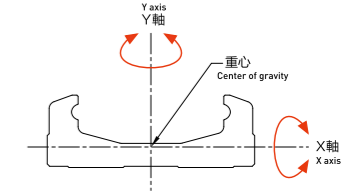
#注: 肩部外徑可特殊製作Φ4, 請與LIMON聯絡。
#Note: The shaft diameter can be special made in Φ4, pls contact LIMON.

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
	02 06 12	P: 精密級 Precision Class C: 一般級 Normal Class	150 200 250 300	A: 標準型 Standard Type S: 輕載型 Light Load Type	1 2	F0/F1/F2/F3 H0	C: 鋁護套 Aluminum Cover B: 伸縮護套 Telescopic cover 無標記: 無護套 None: no cover	S0: 個有極限軌道 Only limit orbit S1: 松下PM-Y45 Panasonic PM-Y45

注: 詳見P54.
Note: Refer to catalogue P54



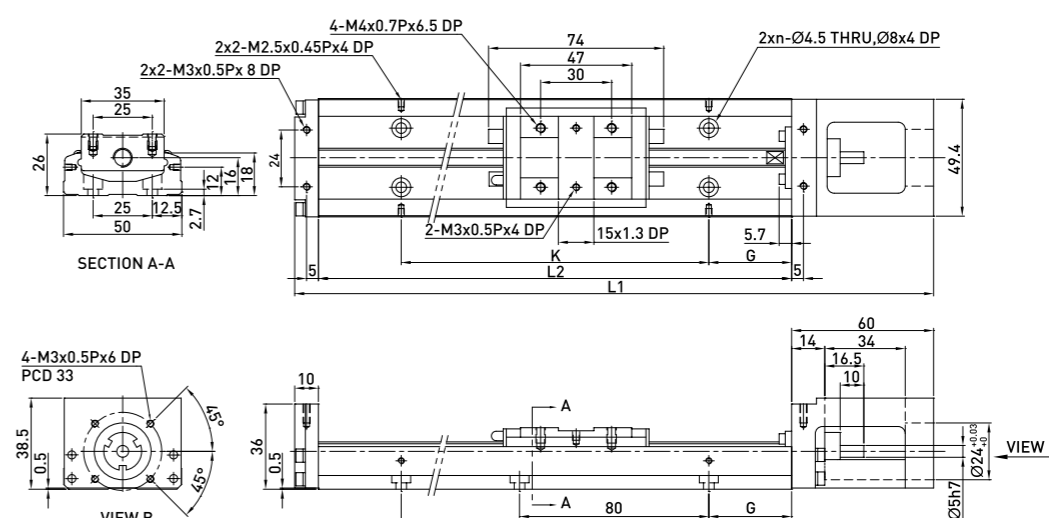
Ix: 延著X軸之慣性矩 Moment of inertia along the X-axis
Iy: 延著Y軸之慣性矩 Moment of inertia along the Y-axis

慣性矩	單位:mm ⁴
型號	I _x I _y
KS50	9.6 x 10 ³ 1.34 x 10 ⁵

基本規格 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															
					俯仰 Pitching M _p (N·m)				偏擺 Deflection M _v (N·m)				滾動 Rolling M _r (N·m)							
KS 5002	P	8	2	2136	3489	8007 / / 12916 / / 116 545 / / / 116 545 / / / 222 444 / / /														
KS 5006	P	10	6	2670	5190															
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						
	200	±0.003	±0.005	0.010	/	4	2
	250						
	300						



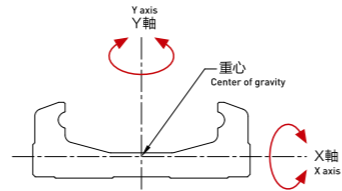
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軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		G (mm)	K (mm)	n	重量 (kg)	
		A1 滑座	A2 滑座				A1 滑座	A2 滑座
150	220	70	-	35	80	2	1	-
200	270	120	55	20	160	3	1.2	1.4
250	320	170	105	45	160	3	1.4	1.6
300	370	220	155	30	240	4	1.6	1.8

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
	05 10	P: 精密级 Precision Class C: 一般级 Normal Class	150 200 300 400 500 600	A: 标准型 Standard Type S: 轻载型 Light Load Type	1 2	F0-F5 H0 T1/T2/T5	C: 铝护套 Aluminum Cover B: 伸缩护套 Telescopic cover 无标记: 无护套 None: no cover	S0: 个有极限轨道 Only limit orbit S1: 松下PM-Y45 Panasonic PM-Y45

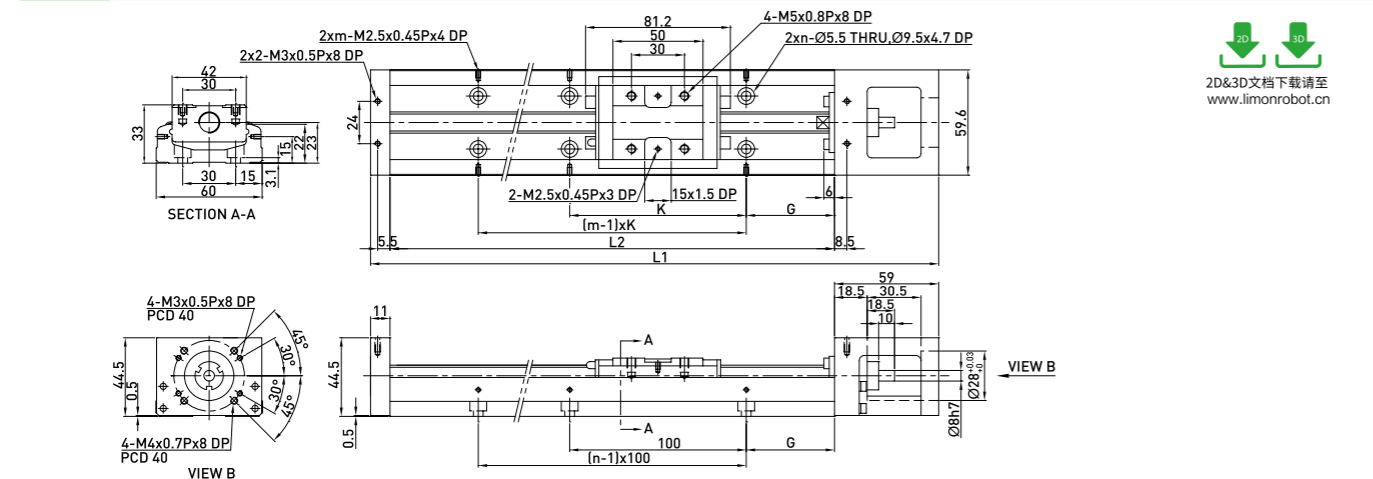


lx: 延著X轴之惯性矩 Moment of inertia along the X-axis
ly: 延著Y轴之惯性矩 Moment of inertia along the Y-axis
惯性矩 单位:mm⁴

型号	lx	ly
KS60	2.056 x 10 ⁴	2.802 x 10 ⁵

基本规格 Basic Specification

型号 Code	滚珠丝桿 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																
					俯仰 Pitching M _p (N·m)				偏擺 Deflection M _v (N·m)				滾動 Rolling M _r (N·m)								
KS 60D05	P	12	5	3744	6234	13230	/	21462	/	152	760	/	/	152	760	/	/	419	838	/	/
KS 60D10	C	12	10	2410	3743	13230	/	21462	/	152	760	/	/	152	760	/	/	419	838	/	/



轨道长度 L2 (mm)	全长 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	1.5	-
200	270	110	-	50	100	2	2	1.8	-
300	370	210	135	50	200	3	2	2.4	2.7
400	470	310	235	50	100	4	4	3	3.3
500	570	410	335	50	200	5	3	3.6	3.9
600	670	510	435	50	100	6	6	4.2	4.6

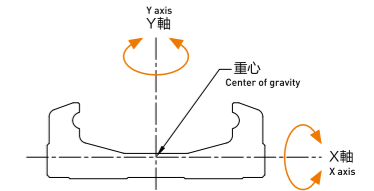
#注: 肩部外径可特殊制作Φ6, 请与LIMON联络。
#Note: The shaft diameter can be special made in Φ6, pls contact LIMON.

KS系列模组 KS series module

KS 86

订购型号代码 Code

KS86D	10	P	340	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
	10 20	P: 精密级 Precision Class C: 一般级 Normal Class	340 440 540 640 740 940	A: 标准型 Standard Type S: 轻载型 Light Load Type	1 2	F0-F6 H0 T0/T1/T6	C: 铝护套 Aluminum Cover B: 伸缩护套 Telescopic cover 无标记: 无护套 None: no cover	S0: 个有极限轨道 Only limit orbit S1: 松下PM-Y45 Panasonic PM-Y45

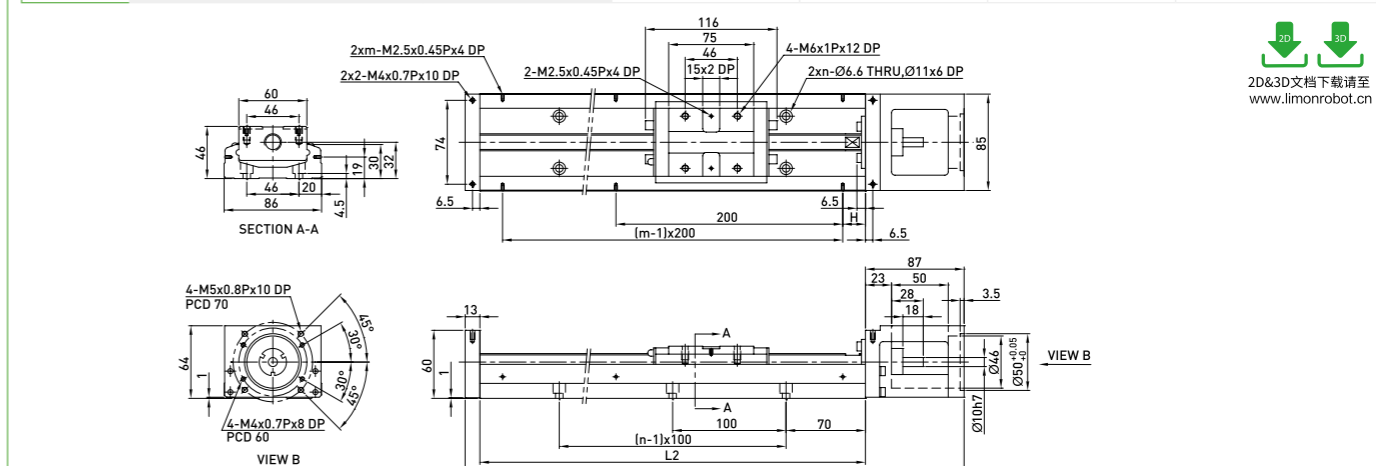


lx: 延著X轴之惯性矩 Moment of inertia along the X-axis
ly: 延著Y轴之惯性矩 Moment of inertia along the Y-axis
惯性矩 单位:mm⁴

型号	lx	ly
KS86	7.445 x 10 ⁴	1.134 x 10 ⁵

基本规格 Basic Specification

型号 Code	滚珠丝桿 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																
					俯仰 Pitching M _p (N·m)				偏擺 Deflection M _v (N·m)				滾動 Rolling M _r (N·m)								
KS 86D10	P	15	10	7144	12642	31458	/	50764	/	622	3050	/	/	622	3050	/	/	1507	3014	/	/
KS 86D20	C	15	20	4645	7655	31458	/	50764	/	622	3050	/	/	622	3050	/	/	1507	3014	/	/

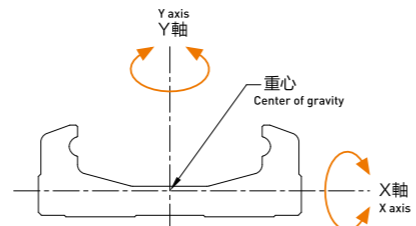


轨道长度 L2 (mm)	全长 L1 (mm)	最大行程 (mm)		H (mm)	n	m	重量 (kg)	
		A1 滑座	A2 滑座				A1 滑座	A2 滑座
340	440	210	100	70	3	2	5.7	6.5
440	540	310	200	70	4	3	6.9	7.7
540	640	410	300	70	5	3	8.0	8.8
640	740	510	400	70	6	4	9.2	10.0
740	840	610	500	70	7	4	10.4	11.2
940	1040	810	700	70	9	5	11.6	12.4

#注: 肩部外径可特殊制作Φ8, 请与LIMON联络。
#Note: The shaft diameter can be special made in Φ8, pls contact LIMON.

订购型号代码 Code

KS100	20	P	E	980	A	2	F0	C	S0
本体型号 Item NO.	螺桿導程 Travel	精度等級 Accuracy Grade	滾珠螺桿 特殊加工	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
	20	P: 精密級 Precision Class C: 一般級 Normal Class		980 1080 1180 1280 1380	A: 標準型 Standard Type	1 2	F0 - F5 H0	C: 鋁護套 Aluminum Cover B: 伸縮護套 Telescopic cover 無標記: 無護套 None: no cover	S0: 個有極限軌道 Only limit orbit S1: 松下FPM-Y45(NPN) Panasonic PM-Y45(NPN) S1P: 松下FPM-Y45-P(NPN) Panasonic PM-Y45-P(PNP)



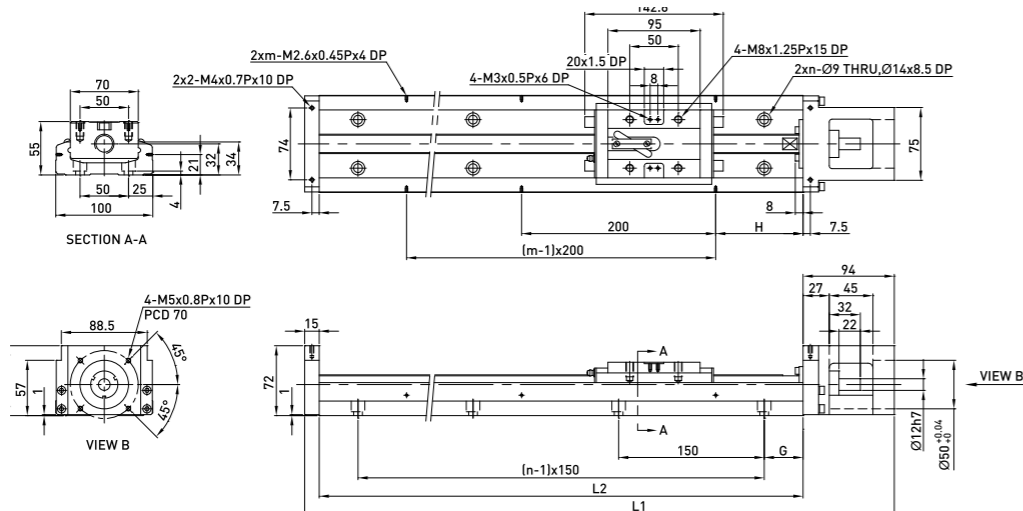
I_x: 延著X軸之慣性矩 Moment of inertia along the X-axis
I_y: 延著Y軸之慣性矩 Moment of inertia along the Y-axis
慣性矩 單位:mm⁴

型號	I _x	I _y
KS100	2.056 x 10 ⁴	2.802 x 10 ⁵

基本規格 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)				俯仰 Pitching M _p (N·m)				偏擺 Deflection M _d (N·m)			
KS10020	20	20	7046 4785	12544 9163	39200	/	63406	/	960	4763	/	/	960	4763	/	/	2205	4410	/	/

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
KS100	980	±0.005	±0.01	0.025	/	17	12
	1080						
	1180						
	1280						
	1380						

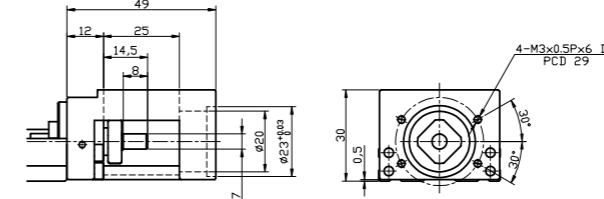


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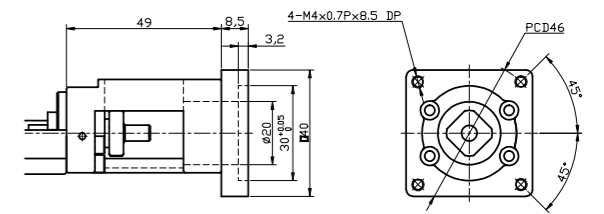
軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		G (mm)	H (mm)	n	m	重量 (kg)	
		A1 滑座	A2 滑座					A1 滑座	A2 滑座
980	1089	828	700	40	90	7	5	18.6	20.3
1080	1189	928	800	15	40	8	6	20.3	22.0
1180	1289	1028	900	65	90	8	6	22.0	23.7
1280	1389	1128	1000	40	40	9	7	23.6	25.3
1380	1489	1228	1100	15	90	10	7	25.3	27.0

KS 40D

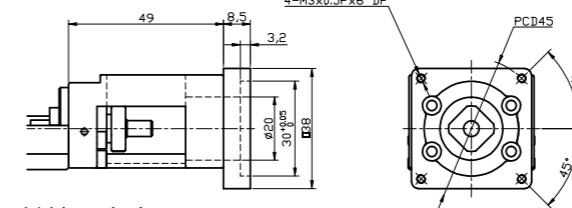
馬達座 F0



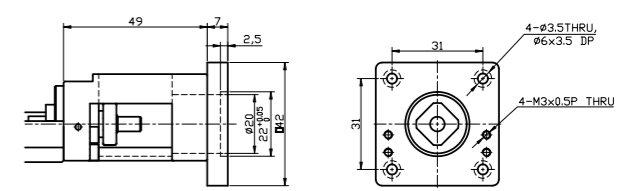
馬達連接法蘭 F1



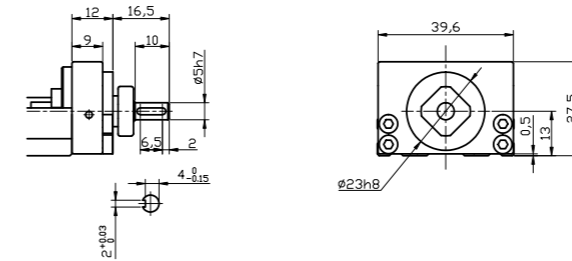
馬達連接法蘭 F2



馬達連接法蘭 F3

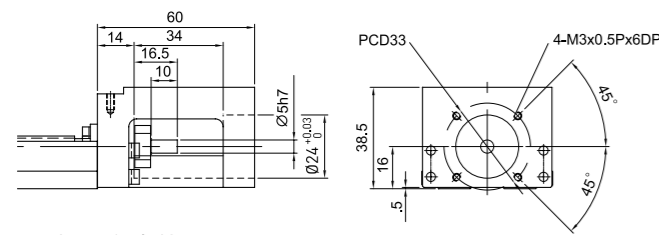


轉接固定座 H0

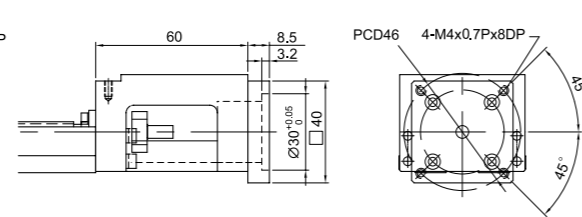


KS 50

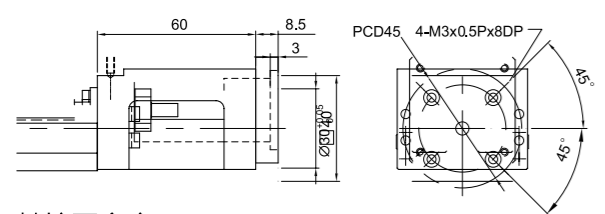
馬達座 F0



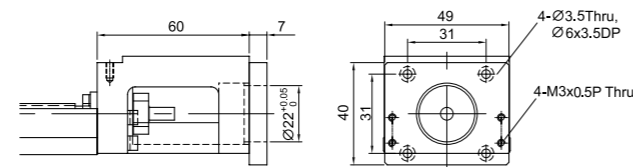
馬達連接法蘭 F1



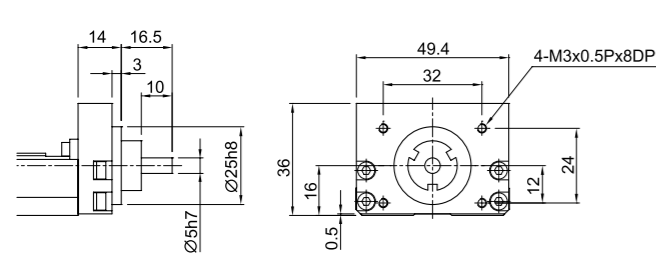
馬達連接法蘭 F2



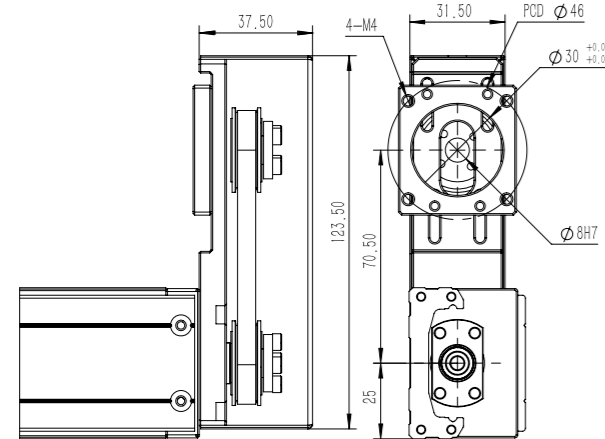
馬達連接法蘭 F3



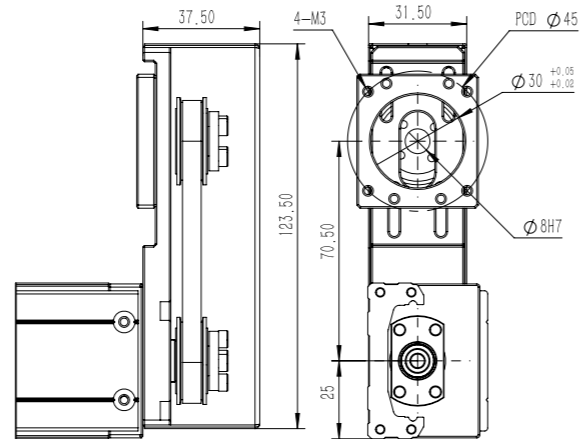
轉接固定座 H0



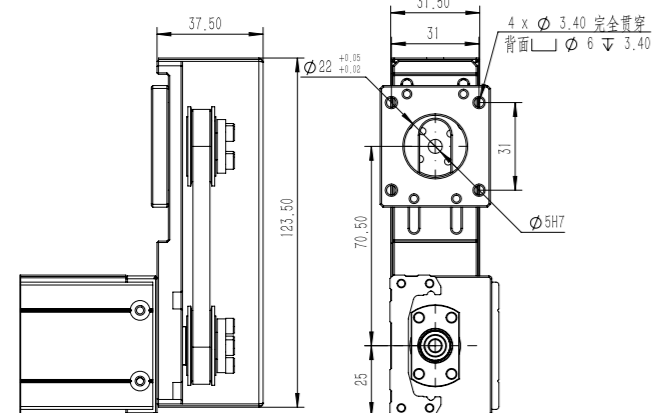
馬達轉折型 T1



馬達轉折型 T2

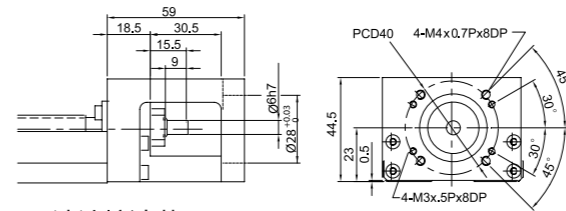


馬達轉折型 T3

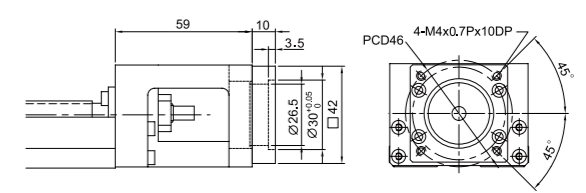


KS 60D

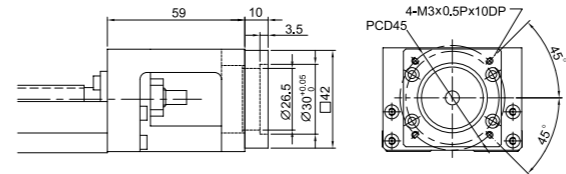
馬達座 F0



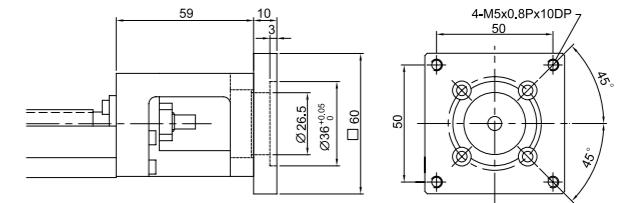
馬達連接法蘭 F1



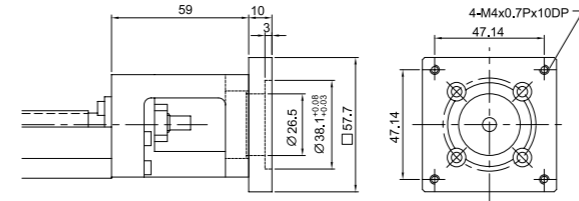
馬達連接法蘭 F2



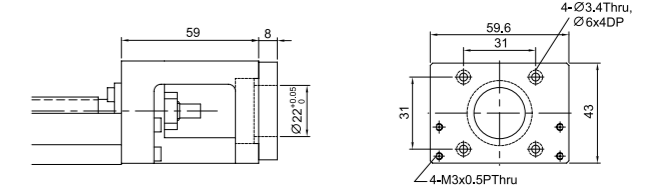
馬達連接法蘭 F3



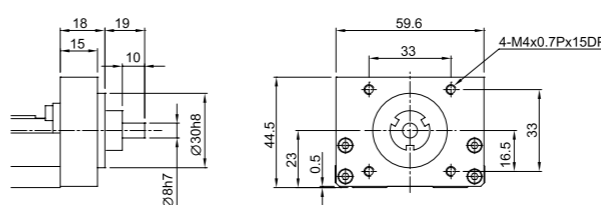
馬達連接法蘭 F4



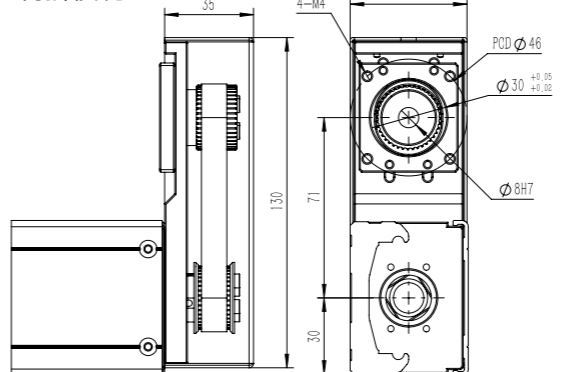
馬達連接法蘭 F5



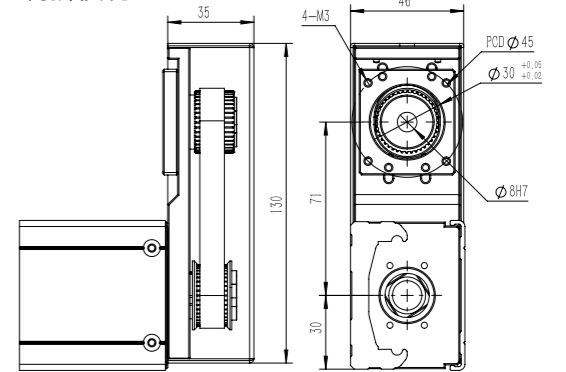
轉接固定座 H0



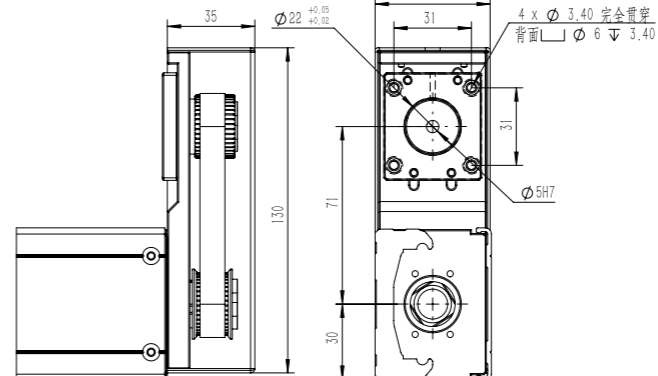
轉折模塊-T1



轉折模塊-T2

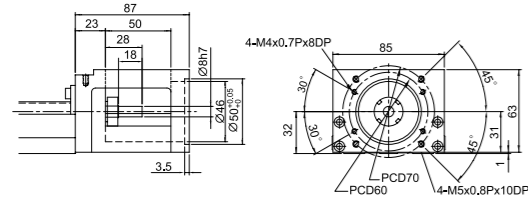


轉折模塊-T5

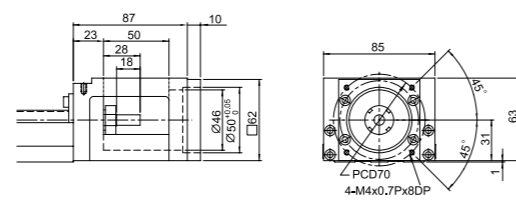


KS86D

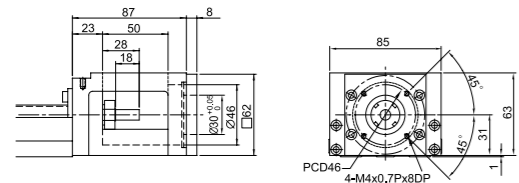
馬達座 F0



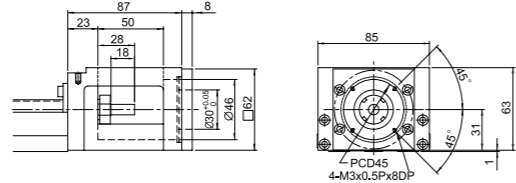
馬達連接法蘭 F1



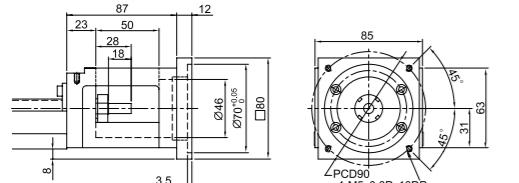
馬達連接法蘭 F2



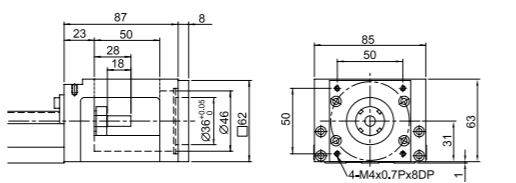
馬達連接法蘭 F3



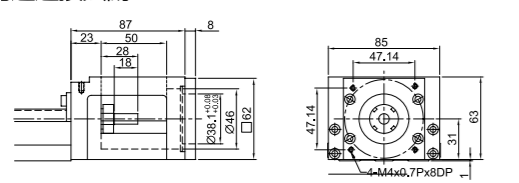
馬達連接法蘭 F4



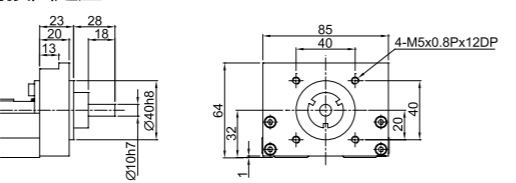
馬達連接法蘭 F5



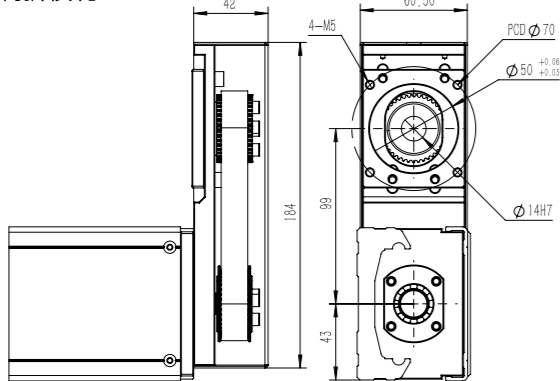
馬達連接法蘭 F6



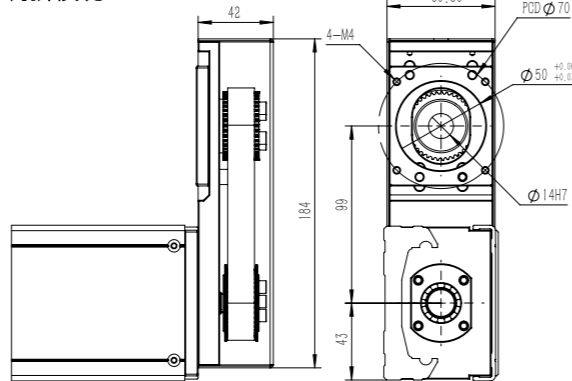
轉接固定座 H0



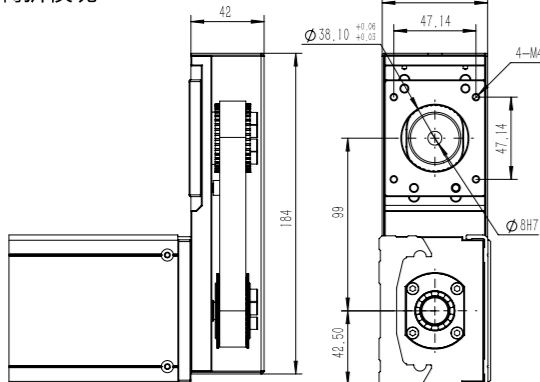
轉折模塊-T0



轉折模塊-T1

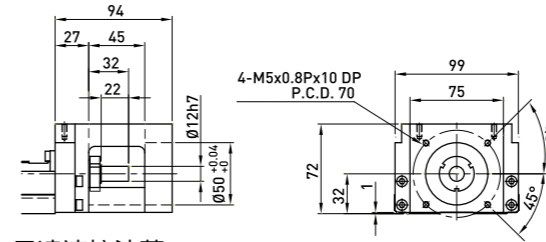


轉折模塊-T6

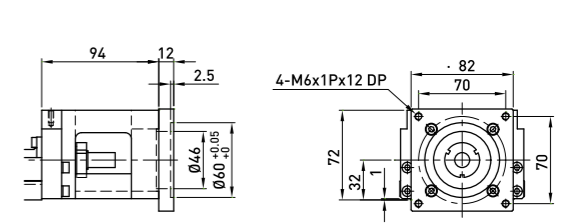


KS100

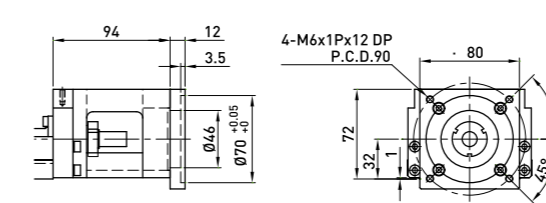
馬達座 F0



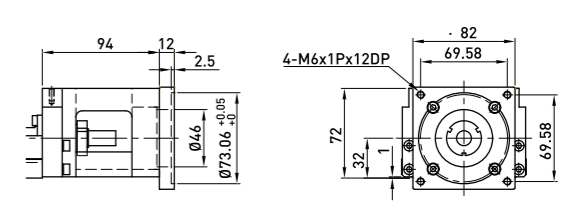
馬達連接法蘭 F3



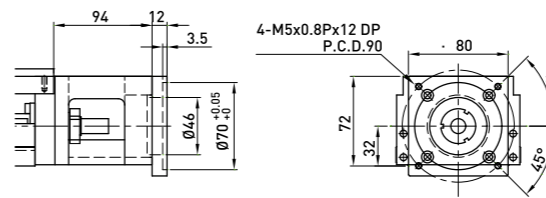
馬達連接法蘭 F1



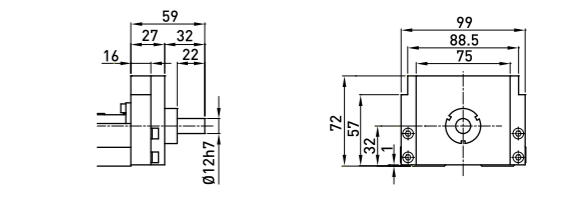
馬達連接法蘭 F4



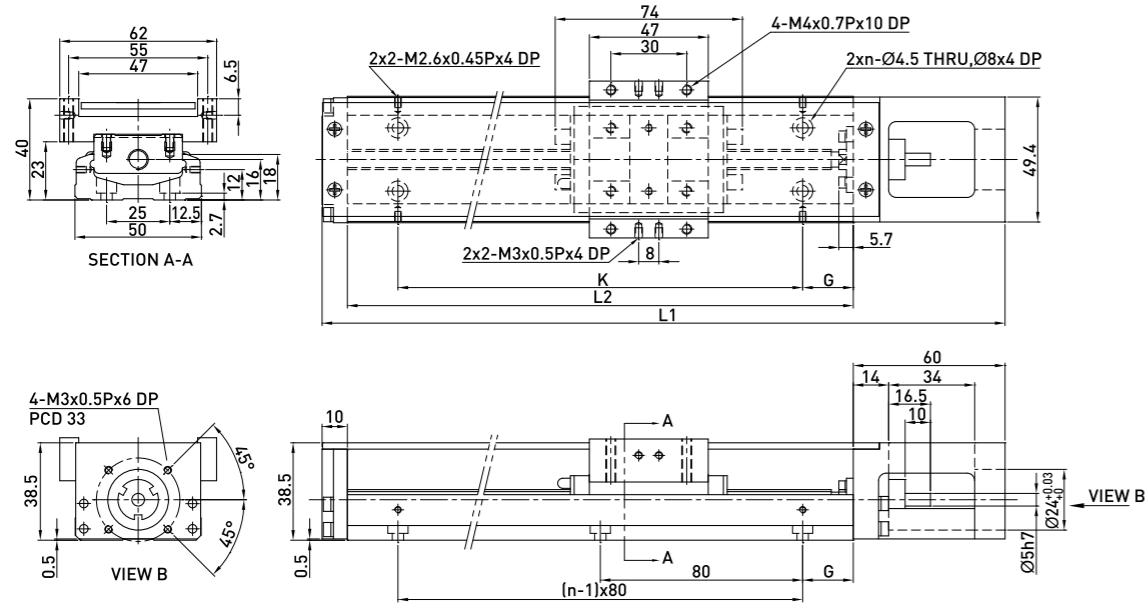
馬達連接法蘭 F2



轉接固定座 H0

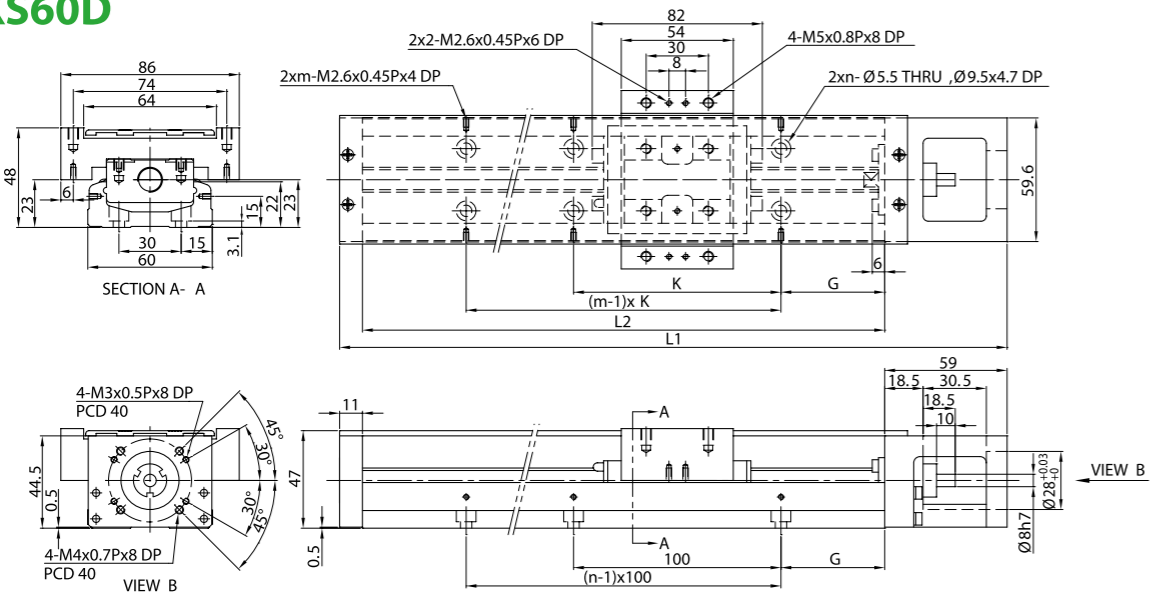


KS50



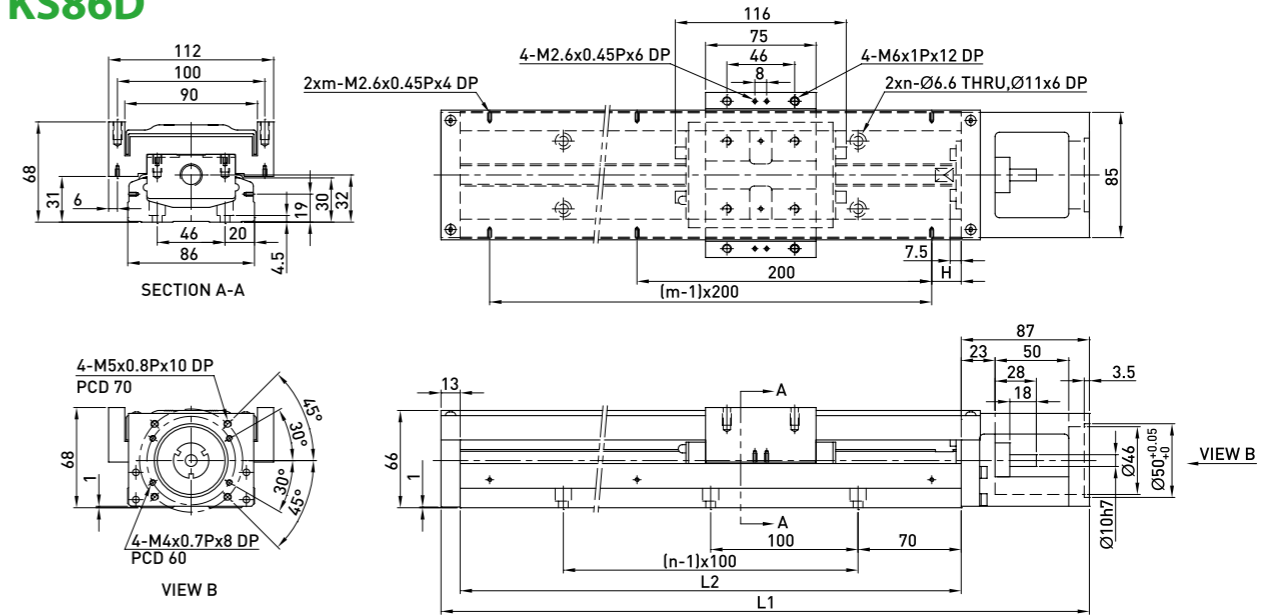
軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		G (mm)	K (mm)	n	重量 (kg)	
		A1 滑座	A2 滑座				A1 滑座	A2 滑座
150	220	70	-	35	80	2	1.1	-
200	270	120	55	20	160	3	1.3	1.5
250	320	170	105	45	160	3	1.6	1.8
300	370	220	155	30	240	4	1.8	2.0

KS60D



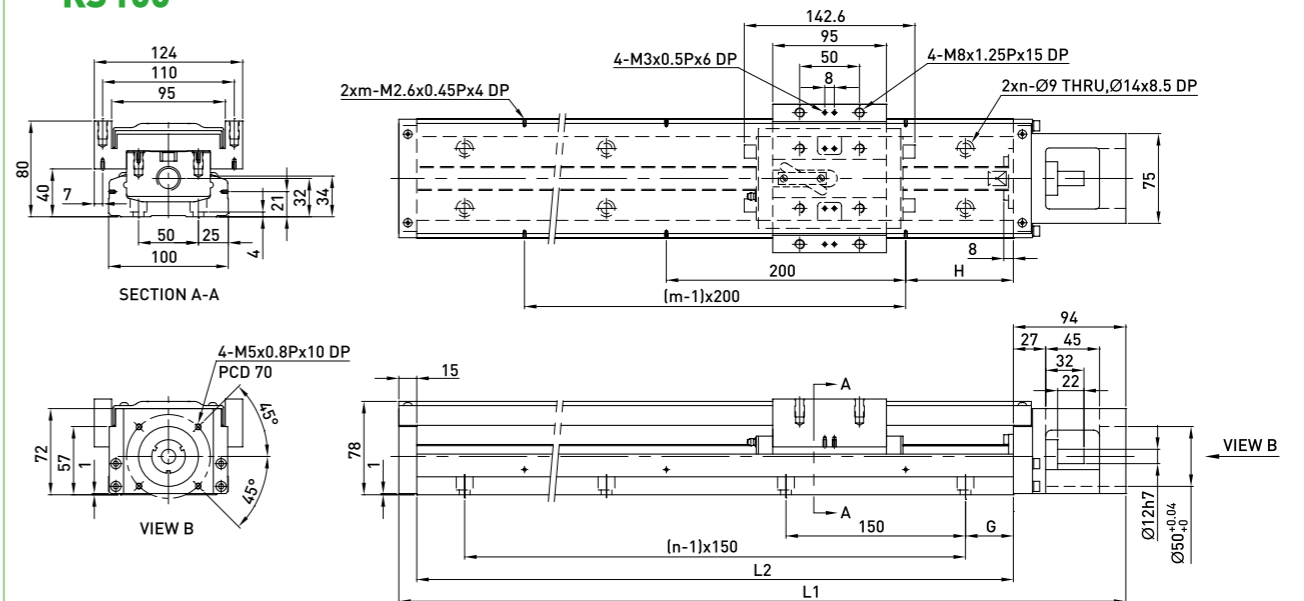
軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		G (mm)	K (mm)	n	m	重量 (kg)	
		A1 滑座	A2 滑座					A1 滑座	A2 滑座
150	220	60	-	25	100	2	2	1.7	-
200	270	110	-	50	100	2	2	2.1	-
300	370	210	135	50	200	3	2	2.7	3.0
400	470	310	235	50	100	4	4	3.3	3.6
500	570	410	335	50	200	5	3	3.9	4.2
600	670	510	435	50	100	6	6	4.6	5.0

KS86D



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

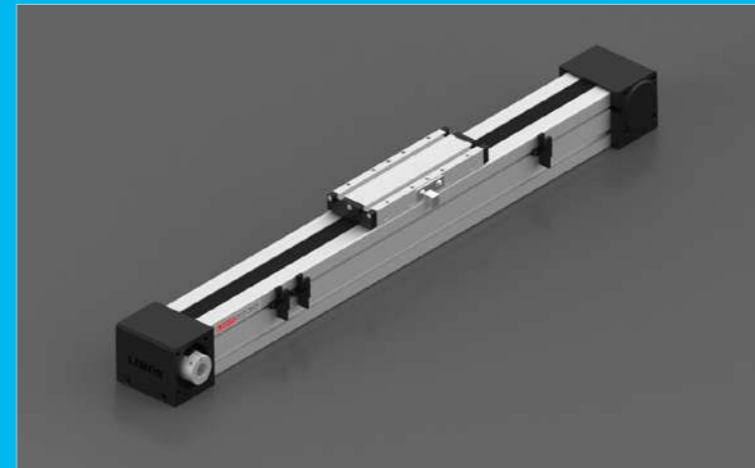
KS100



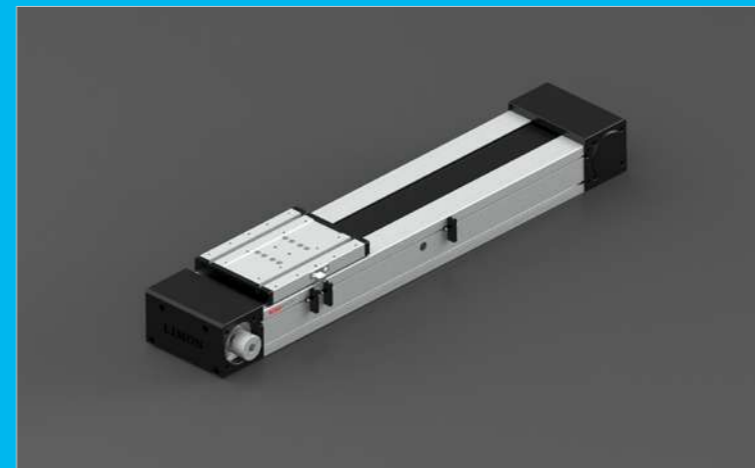
軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		G (mm)	H (mm)	n	m	重量 (kg)	
		A1 滑座	A2 滑座					A1 滑座	A2 滑座
980	1089	828	700	40	90	7	5	20.4	22.1
1080	1189	928	800	15	40	8	6	22.2	23.9
1180	1289	1028	900	65	90	8	6	24.0	25.7
1280	1389	1128	1000	40	40	9	7	25.7	27.4
1380	1489	1228	1100	15	90	10	7	27.5	29.2

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



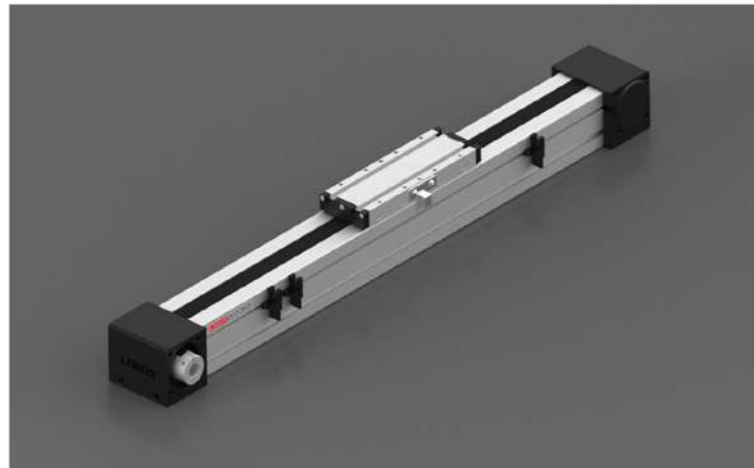
ITO 160

ITO 40/60/80/100 欧标半密式同步带驱动型

European standard semi-dense synchronous belt drive type

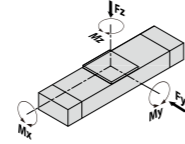
订购型号代码 Code

ITO60	L	500	DB	D01	GB2	22	P3	A001
本体型号 Item NO.	是否加长滑块	行程 Stroke	辅助滑块	马达方向	马达座型号	联轴器内孔尺寸	限位传感器数量	特注式样
ITO40	未标注:标准滑块 L: 加长滑块	100-4000,间隔Gap100	未填写:单滑块 DB: 辅助滑块	D01	GB1	联轴器内孔尺寸	P1: 1个 1PCS P2: 2个 2PCS P3: 3个 3PCS 未标注: 无 No Mark: No Sensor	Special Order No.
ITO60				D02	GB2			
ITO80				D03	GB3			
ITO100				D04	GB4			



最大动力和力矩

Max Permissible Forces And Torques

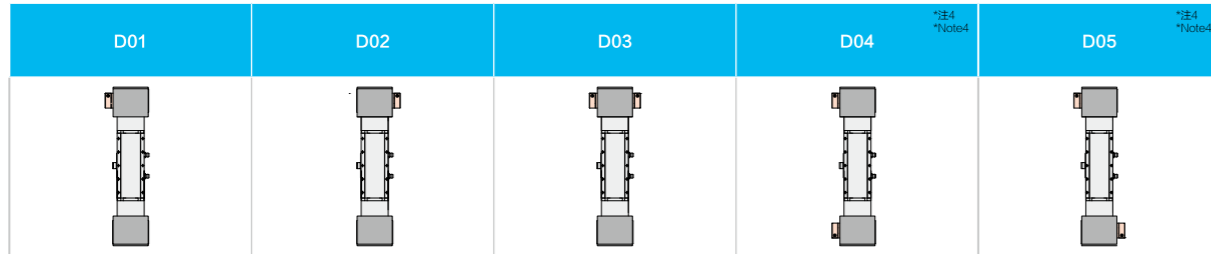


规格 Type	40	60	60L	80	80L	100	100L
■ F(y) (N)	993	2457	5235	3131	7277	4375	11675
■ F(z) (N)	993	3375	5335	5120	7277	7860	11675
■ M(x) (N·m)	6	22	40	75	75	115	136
■ M(y) (N·m)	20	78	231	210	558	310	1322
■ M(z) (N·m)	20	78	231	210	558	310	1322

除了满足最大负载和力矩外,还必须满足以下公式:
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		40	60	60-L	80	80-L	100	100-L	
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)	99	130		176		224		
	皮带型号 Belt Type	3M-10	5M-25		8M-30		8M-50		
	最高速度 Maximum Speed (mm/s)	3000	5000		5000		5000		
	最大可搬重量 Maximum Payload	水平使用 Horizontal (kg)	10	30	45	50	75	80	120
		垂直使用 Vertical (kg)	8	20	30	40	60	60	90
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		
最大扭矩 Max. Driving Torque (N·m)	6	13.3	13.3	49.8	49.8	105.7	105.7		
基本规格 Basic Specification	标准行程 Stroke (mm)	100-1500mm/100pitch		100-4000mm/100pitch					
	AC伺服马达容量 AC Servo Motor Output (W)	100	200/400		400/750		750/1000		
	高刚性直线滑轨 Linear Guide	12# × 1PCS	15# × 1PCS		20# × 1PCS		25# × 1PCS		
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	42 × 53	80 × 79		100 × 106		130 × 130		
	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P219.

Note1: Refer to catalogue P209 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: ITO40无D04和D05

Note4: ITO40 without D04 and D05

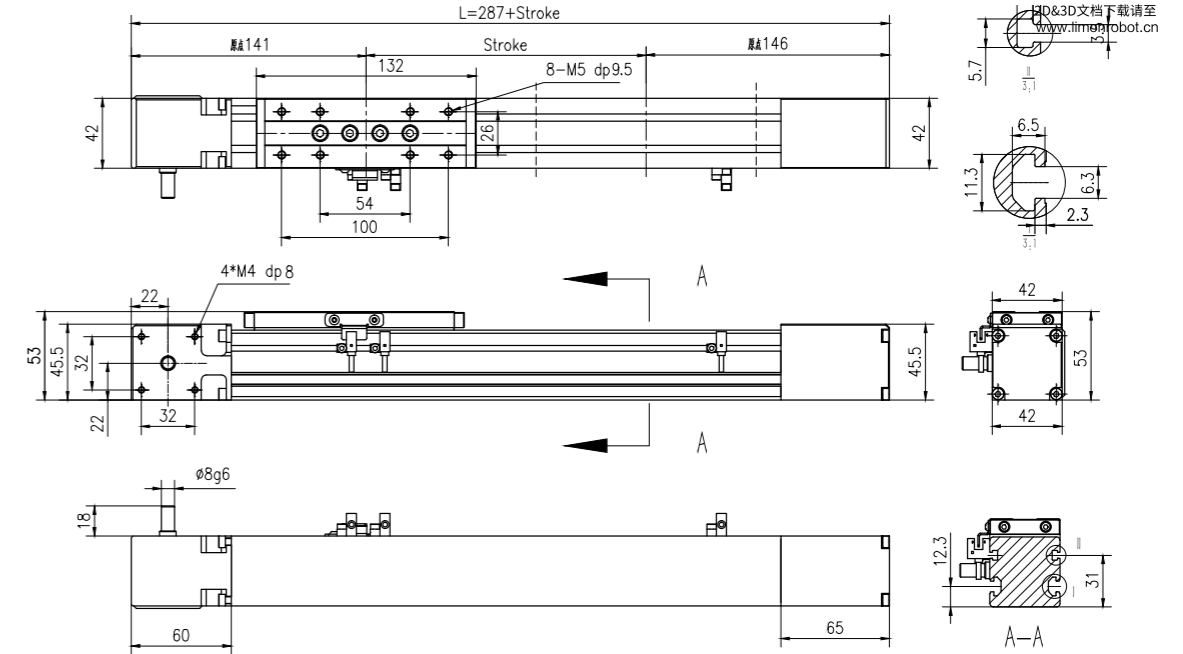
注5: 测定条件为无力矩的理论数据, 根据力矩和加速度数据会相应改变, 具体请参考选型软件.

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

欧标半密式同步带驱动型 ITO 40/60/80/100

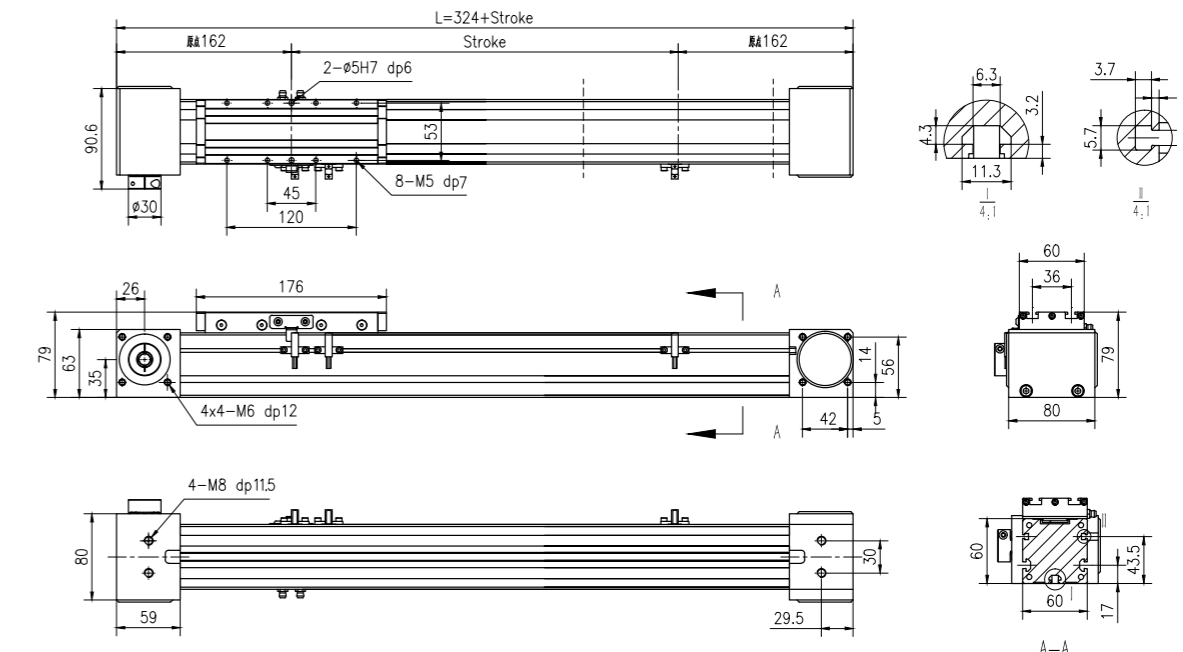
European standard semi-dense synchronous belt drive type

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



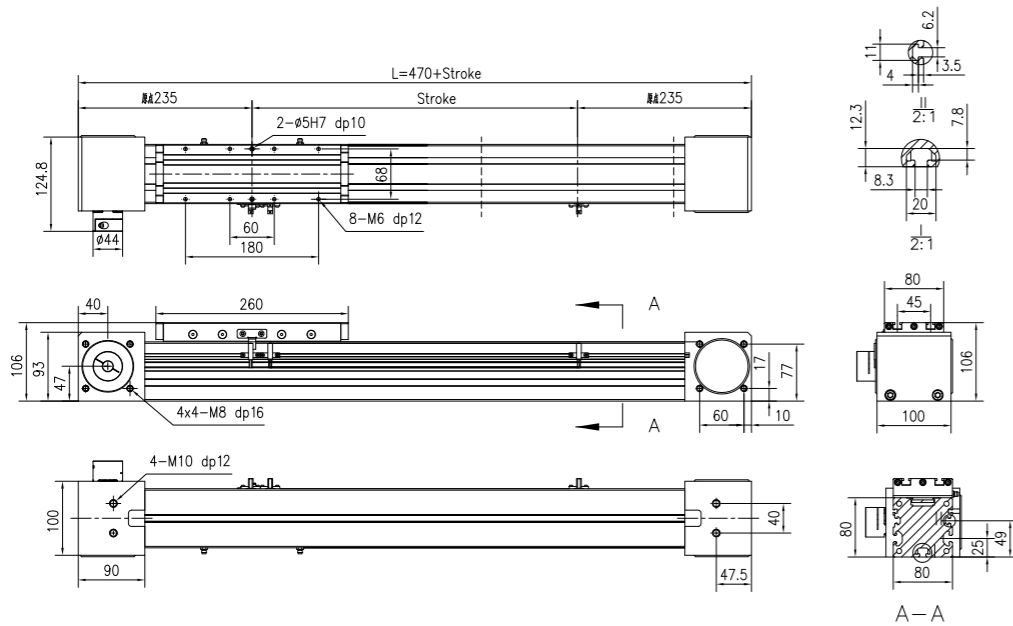
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	424	524	624	724	824	924	1024	1124	1224	1324	1424	1524	1624	1724	1824	1924	2024	2124	2224	2324
重量 Weight (kg)	2.5	3.0	3.5	4.0	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.7	10.2	10.7	11.2	11.7	12.2
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

ITO 40/60/80/100 欧标半密式同步带驱动型

European standard semi-dense synchronous belt drive type

ITO 80

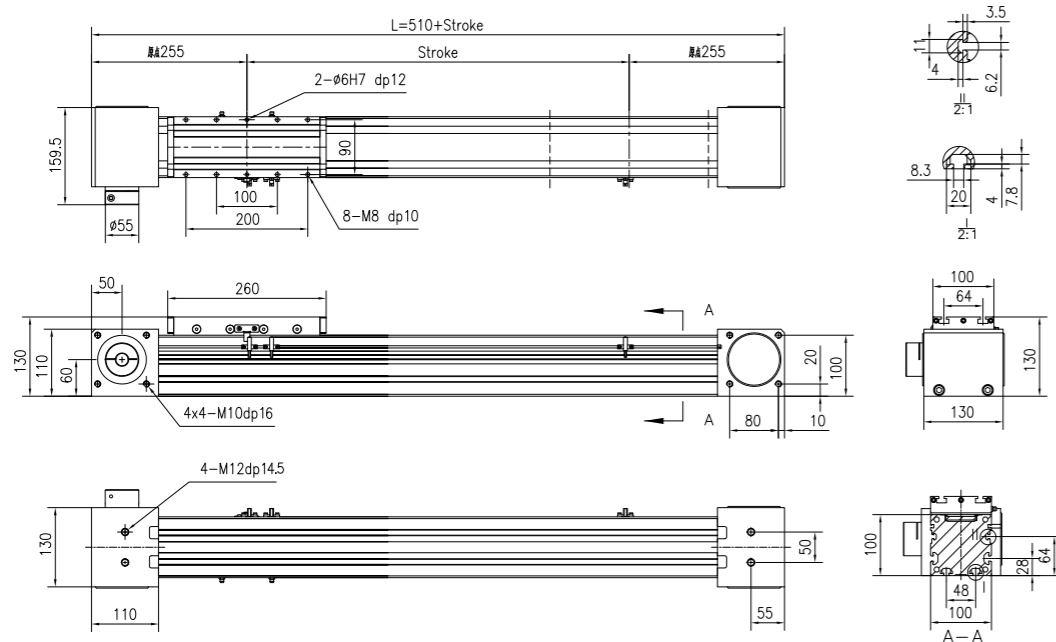
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	570	670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370	2470
重量 Weight (kg)	9.1	9.9	10.8	11.6	12.5	13.4	14.2	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

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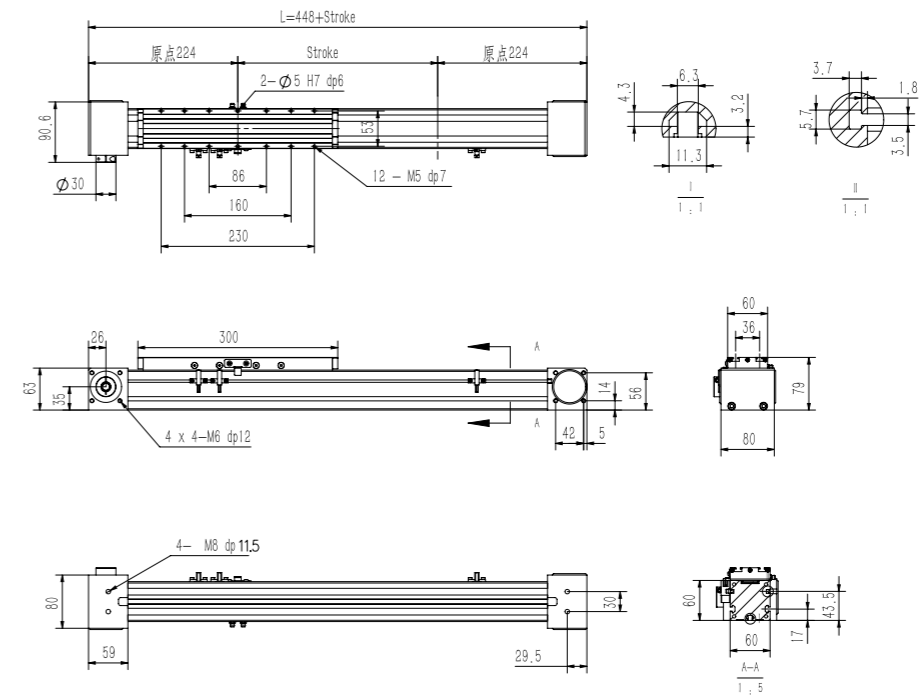
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510
重量 Weight (kg)	15.5	16.8	18.0	19.2	20.5	21.7	22.9	24.1	25.4	26.6	27.8	29.1	30.3	31.5	32.8	34.0	35.2	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

European standard semi-dense synchronous belt drive type

ITO 60 L

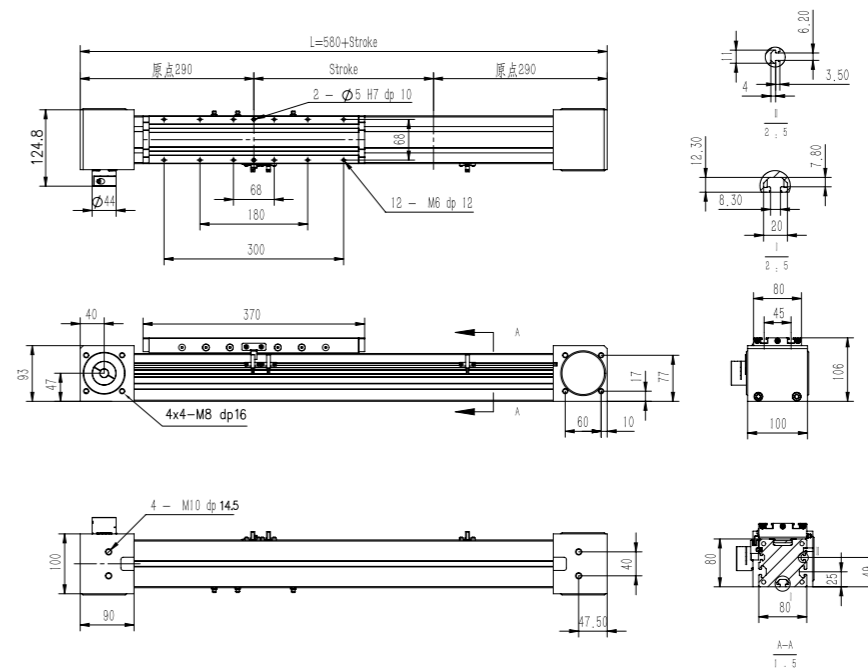
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	548	648	748	848	948	1048	1148	1248	1348	1448	1548	1648	1748	1848	1948	2048	2148	2248	2348	2448
重量 Weight (kg)	2.8	3.3	3.8	4.3	4.8	5.3	5.8	6.3	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

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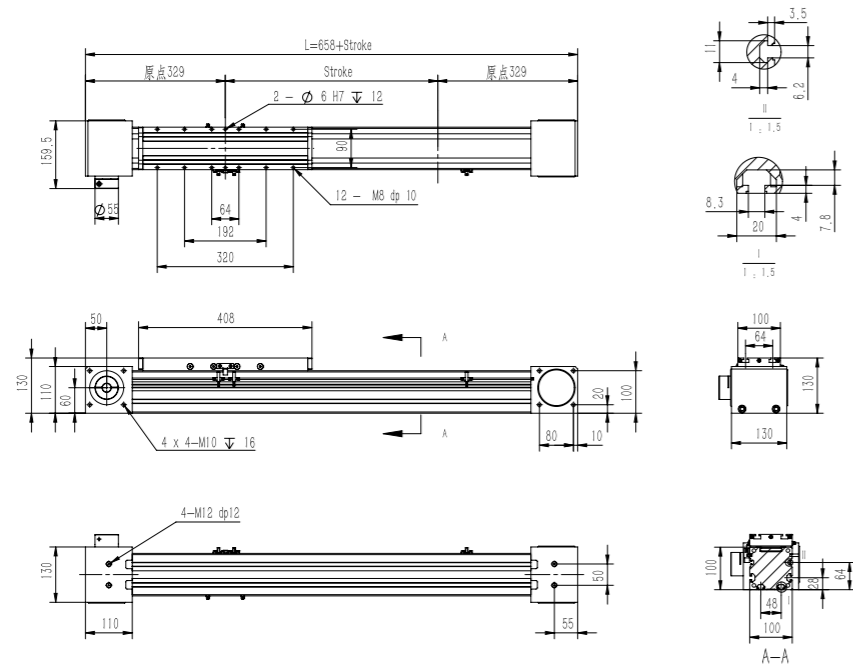
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	680	780	880	980	1080	1180	1280	1380	1480	1580	1680	1780	1880	1980	2080	2180	2280	2380	2480	2580
重量 Weight (kg)	9.8	10.6	11.4	12.2	13	13.8	14.6	15.4	16.2	17	17.8	18.6	19.4	20.2	21	21.8	22.6	23.4	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 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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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)	16.5	17.8	19.1	20.4	21.7	23	24.3	25.6	26.9	28.2	29.5	30.8	32.1	33.4	34.7	36	37.3	38.6	39.9	41.2
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	2758	2858	2958	3058	3158	3258	3358	3458	3558	3658	3758	3858	3958	4058	4158	4258	4358	4458	4558	4658
重量 Weight (kg)	42.5	43.8	45.1	46.4	47.7	49	50.3	51.6	52.9	54.2	55.5	56.8	58.1	59.4	60.7	62	63.3	64.6	65.9	67.2

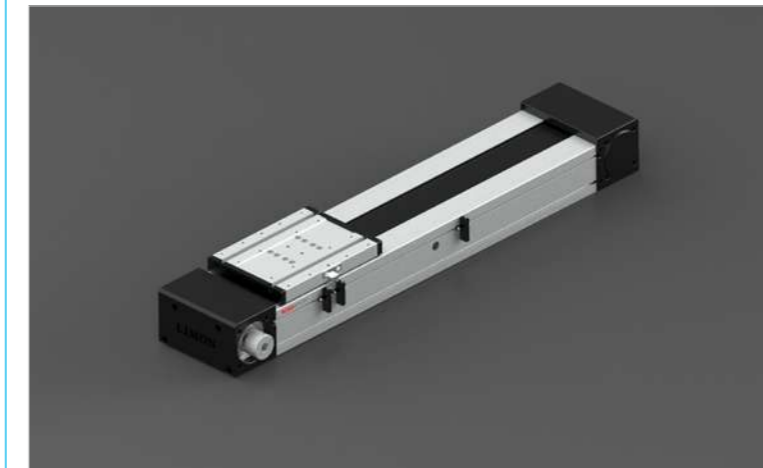
欧标半密式同步带驱动型 ITO 160

European standard semi-dense synchronous belt drive type

订购型号代码 Code

ITO160	500	D01	DB	GB2	22	P3	A001
本体型号 Item NO.	行程 Stroke	马达方向 Motor Mounting Position	辅助滑块 Auxiliary Block	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.
ITO160	100-4000, 间隔Gap100	D01 D02 D03 D04 D05	未填写: 单滑块 DB: 辅助滑块	GB2 GB3		P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 No Mark: No Sensor	

注: 辅助滑块选项相关参数参见样本P219.



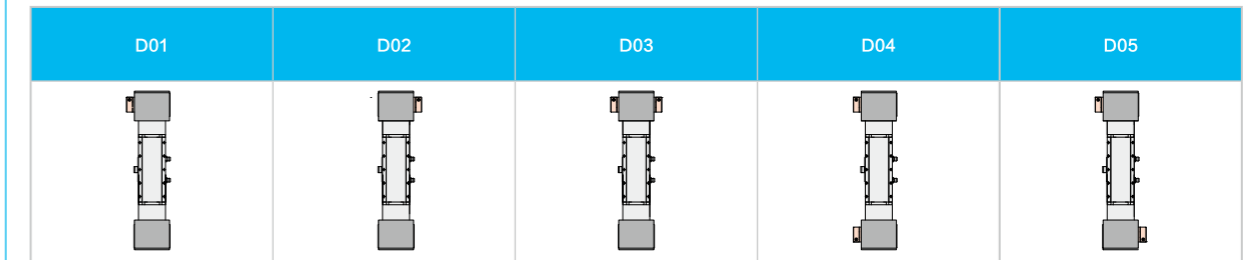
最大动力和力矩

Max Permissible Forces And Torques

规格 Type	160
F(x) (N)	9703
F(z) (N)	9450
F(y) (N)	9703
M(x) (N·m)	395.1
M(y) (N·m)	356.2
M(z) (N·m)	348.8

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:
 $F_y \max + F_z \max + M_x \max + M_y \max + M_z \max \leq 1$

马达安装方向 Motor Mounting Position Version



基本规格 Basic Specification

	ITO	160	
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)	176	
	皮带型号 Belt Type	8M-70	
	最高速度 Maximum Speed (mm/s)	5000	
	最大可搬重量 Maximum Payload	水平使用 Horizontal (kg)	160
		垂直使用 Vertical (kg)	120
	最大空载扭矩 Max. No-load Driving Torque (N·m)	1.2	
最大扭矩 Max. Driving Torque (N·m)	112.7		
基本规格 Basic Specification	标准行程 Stroke (mm)	100-4000mm / 100 Pitch	
	AC伺服马达容量 AC Servo Motor Output (W)	750W-1000W	
	高刚性直线滑轨 Linear Guide	20# × 2pcs	
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	166 × 106	
	原点感应器 Home Sensor	EE-SX672(NPN)	

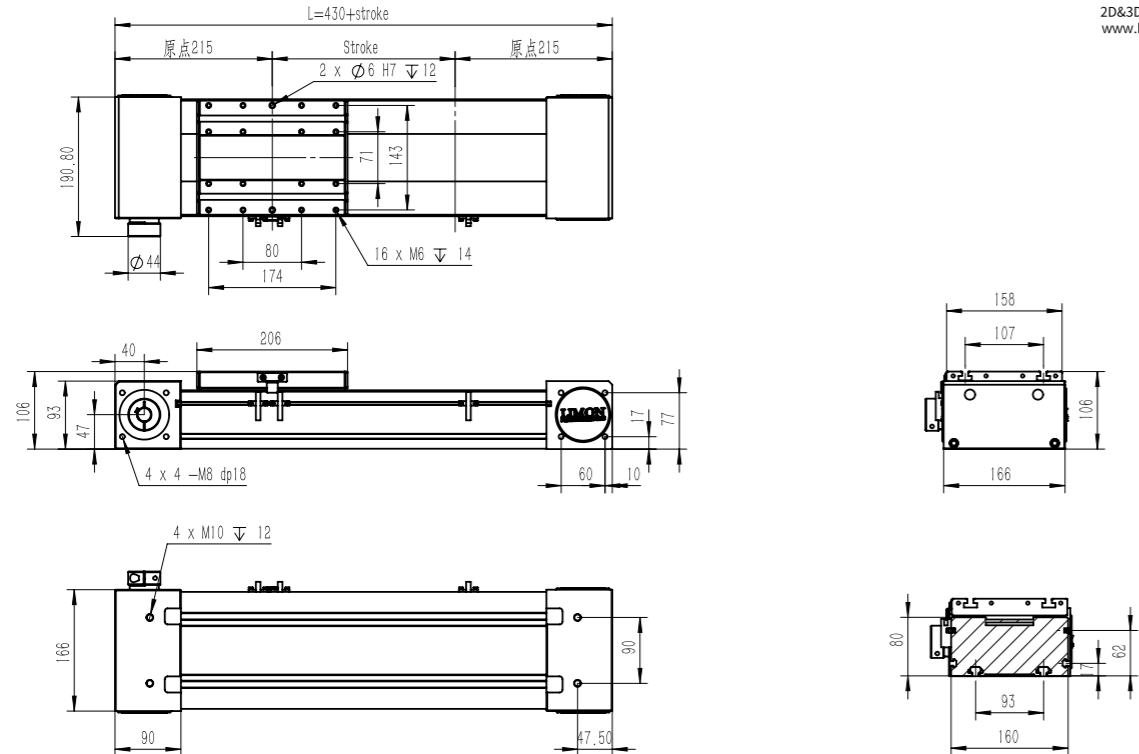
注1: 辅助滑块选项相关参数参见样本P219.
Note1: Refer to catalogue P209 for relevant parameters of auxiliary carriage option
注2: 马达型号相关参数参见样本P89.
Note 2: Refer to catalogue P89 for relevant parameters of motor model
注3: 减速机端联轴器孔径尺寸
Note3: Hole dimension of coupling (reducer side)
注4: 测定条件为无力矩的理论数据, 根据力矩和加速度数据会相应改变, 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.

ITO 160 欧标半密式同步带驱动型

European standard semi-dense synchronous belt drive type

ITO 160

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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	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430
重量 Weight (kg)	17.4	18.9	20.4	21.9	23.4	24.9	26.4	27.9	29.4	30.9	32.4	33.9	35.4	36.9	38.4	39.9	41.4	42.9	44.4	45.9
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	2530	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230	4330	4430
重量 Weight (kg)	47.7	48.9	50.4	51.9	53.4	54.9	56.4	57.9	59.4	60.9	62.4	63.9	65.4	66.9	68.4	69.9	71.4	72.9	74.4	75.9

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

HTO 60/80/100 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

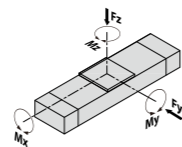
HTO80	L	500	DB ^{注1}	D01	GB2	22 ^{注3}	P3	A001
本体型号 Item NO.	是否加长滑块	行程 Stroke	辅助滑块	马达方向	马达座型号	联轴器内孔尺寸	限位传感器数量	特注式样
HTO60	未标注:标准滑块	100-4000,间隔Gap100	未填写:单滑块	D01	GB2 ^{注2}	联轴器内孔尺寸	P1: 1个 1PC	
HTO80	L: 加长滑块		注2: 辅助滑块	D02	GB3		P2: 2个 2PCS	
HTO100				D03	GB4		P3: 3个 3PCS	
				D04			未标记: 无	
				D05			No Mark: No Sensor	
				D06				

注: 辅助滑块选项相关参数参见样本P219.



最大动态力和力矩

Max Permissible Forces And Torques



规格 Type	60	80	80L	100	100L
F(y) (N)	5300	6980	10470	9702	14554
F(z) (N)	5300	6980	10470	9702	14554
M(x) (N·m)	82	118	178	216	374
M(y) (N·m)	118	333	590	765	1080
M(z) (N·m)	118	333	590	765	1080

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	D03	D04	D05	D06

基本规格 Basic Specification

HTO		60	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	176	224	224	
	皮带型号 Belt Type	5M-25	8M-30	8M-30	8M-50	8M-50	
	最高速度 Maximum Speed (mm/s)	5000	5000	5000	5000	5000	
	最大可搬重量 Maximum Payload	水平使用 Horizontal (kg)	55	100	150	165	247.5
		垂直使用 Vertical (kg)	25	62	93	105	157.5
最大空载扭矩 Max. No-load Driving Torque (N·m)		0.5	0.9	0.9	1.4	1.4	
最大扭矩 Max. Driving Torque (N·m)		13.3	49.8	49.8	105.7	105.7	
基本规格 Basic Specification	标准行程 Stroke (mm)	100-4000mm/100 pitch					
	AC伺服马达容量 AC Servo Motor Output (W)	200/400	200/400/750	200/400/750	750/1000	750/1000	
	高刚性直线滑轨 Linear Guide	15# × 2PCS	20# × 1PC + 15# × 1PC	20# × 1PC + 15# × 1PC	25# × 1PC + 20# × 1PC	25# × 1PC + 20# × 1PC	
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	102.5 × 79	106 × 122	106 × 122	130 × 151	130 × 151	
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P219.

Note1: Refer to catalogue P148 for relevant parameters of auxiliary carriage option

注2: 马达座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)

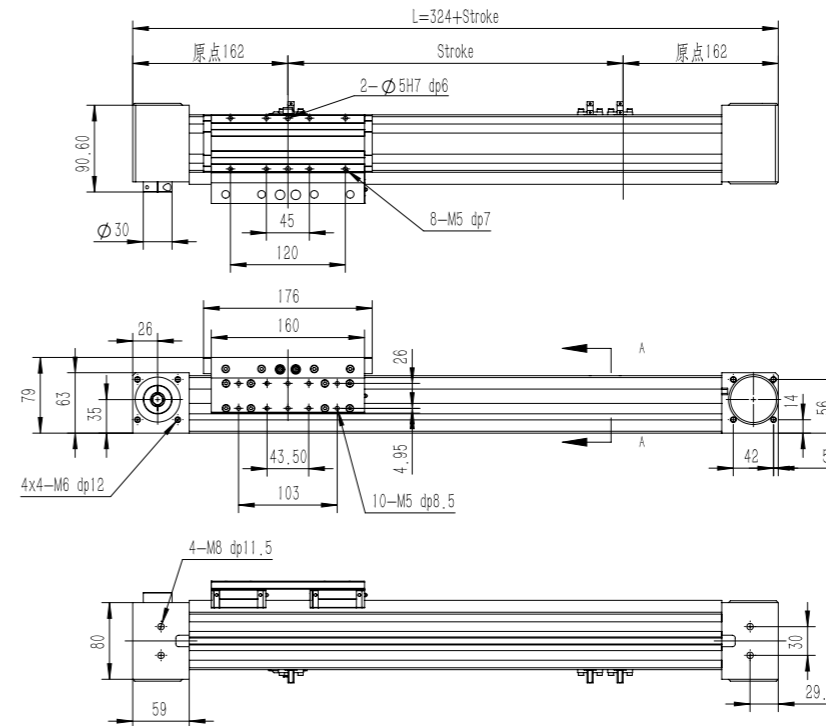
注4: 测定条件为无力矩的理论数据, 根据力矩和加速度数据会相应改变, 具体请参考选型软件.

Note4: Date changes 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侧轨加强型 HTO 60/80/100

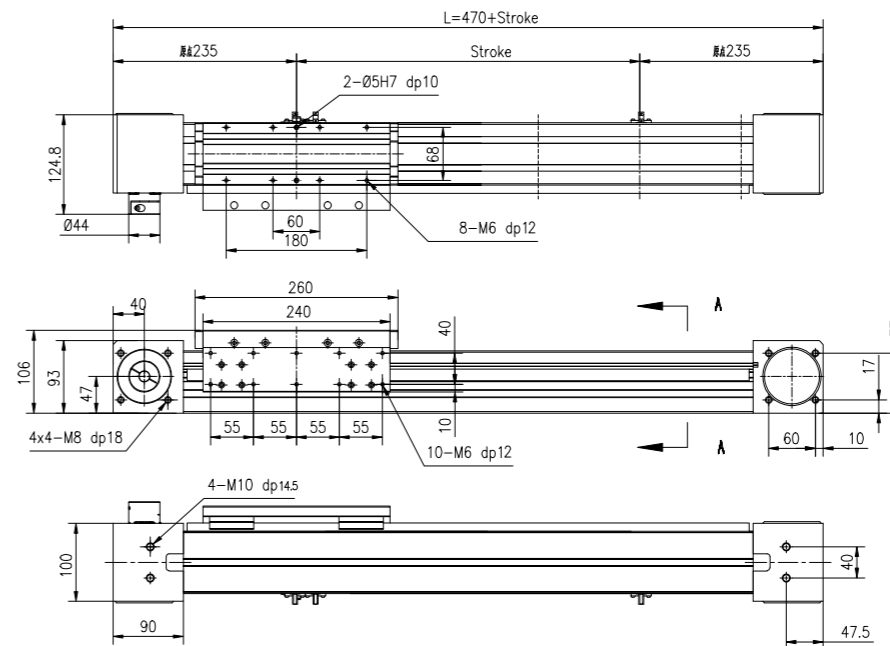
European standard semi-dense synchronous belt drive side rail reinforced type

HTO 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)	4.8	5.4	6.1	6.7	7.4	8.0	8.7	9.3	10.0	10.6	11.3	12.0	12.6	13.3	13.9	14.6	15.2	15.9	16.5	17.2

HTO 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)	10.4	11.4	12.4	13.4	14.4	15.4	16.4	17.4	18.4	19.4	20.4	21.4	22.4	23.4	24.4	25.4	26.4	27.4	28.4	29.4
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)	30.4	31.4	32.4	33.4	34.4	35.4	36.4	37.4	38.4	39.4	40.4	41.4	42.4	43.4	44.4	45.4	46.4	47.4	48.4	49.4

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

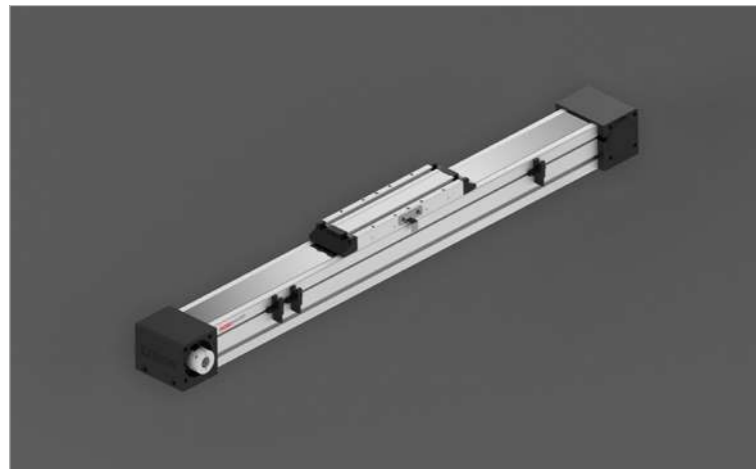
ITC 60/80/100 欧标全密式同步带驱动型

European standard fully dense synchronous belt drive type

订购型号代码 Code

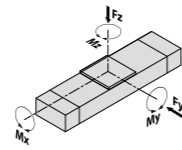
ITC60	L	500	DB ^注	D01	GB2	22 ^{注3}	P3	A001
本体型号 Item NO.	是否加长滑块	行程 Stroke	辅助滑块	马达方向	马达座型号	联轴器内孔尺寸	限位传感器数量	特注式样
ITC 60	未标注:标准滑块	100-4000,间隔Gap100	未填写:单滑块	D01	GB2	联轴器内孔尺寸	P1: 1个 1PCS	Special Order No.
ITC 80	L: 加长滑块		DB: 辅助滑块	D02	GB3	注2	P2: 2个 2PCS	
ITC100				D03	GB4	未标记: 无	P3: 3个 3PCS	
				D04		NoMark: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

注: 辅助滑块选项相关参数参见样本P219.



最大动态力和力矩

Max Permissible Forces And Torques



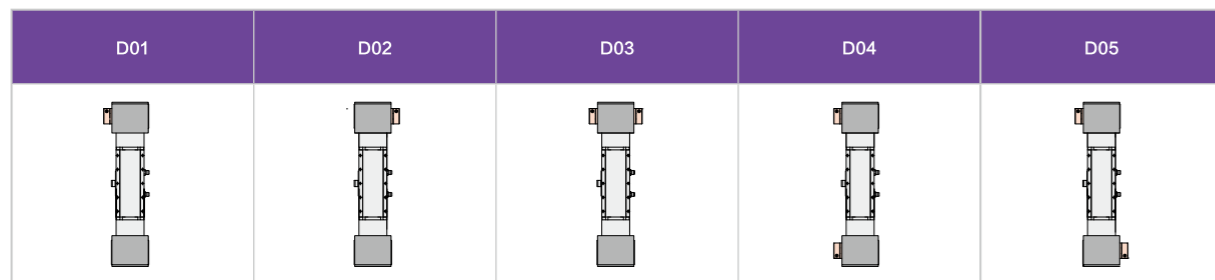
规格 Type	60	60L	80	80L	100	100L
■ F(y) (N)	2457	5235	3131	7277	4375	11675
■ F(z) (N)	3375	5335	5120	7277	7860	11675
■ M(x)(N·m)	22	40	75	75	115	135
■ M(y)(N·m)	78	231	210	558	310	1322
■ M(z)(N·m)	78	231	210	558	310	1322

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



基本规格

Basic Specification

ITC		60	60L	80	80L	100	100L	
技术参数	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	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	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)							

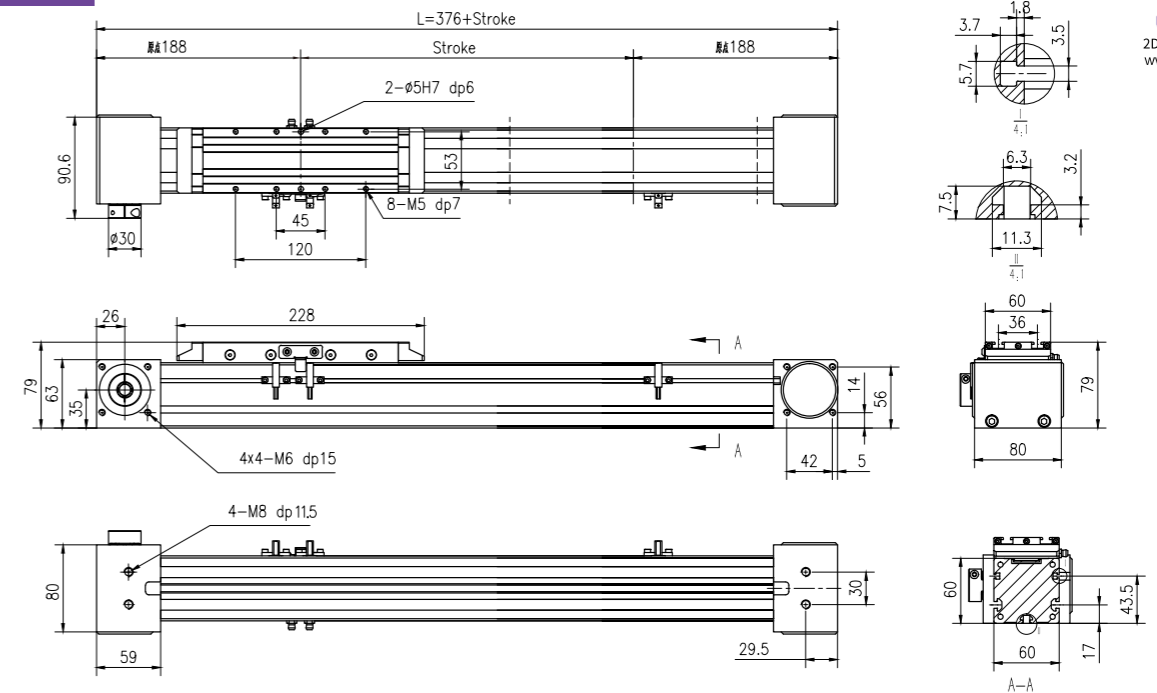
注1: 测定条件为无力矩的理论数据, 根据力矩和加速度数据会相应改变, 具体请参考选型软件。

#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

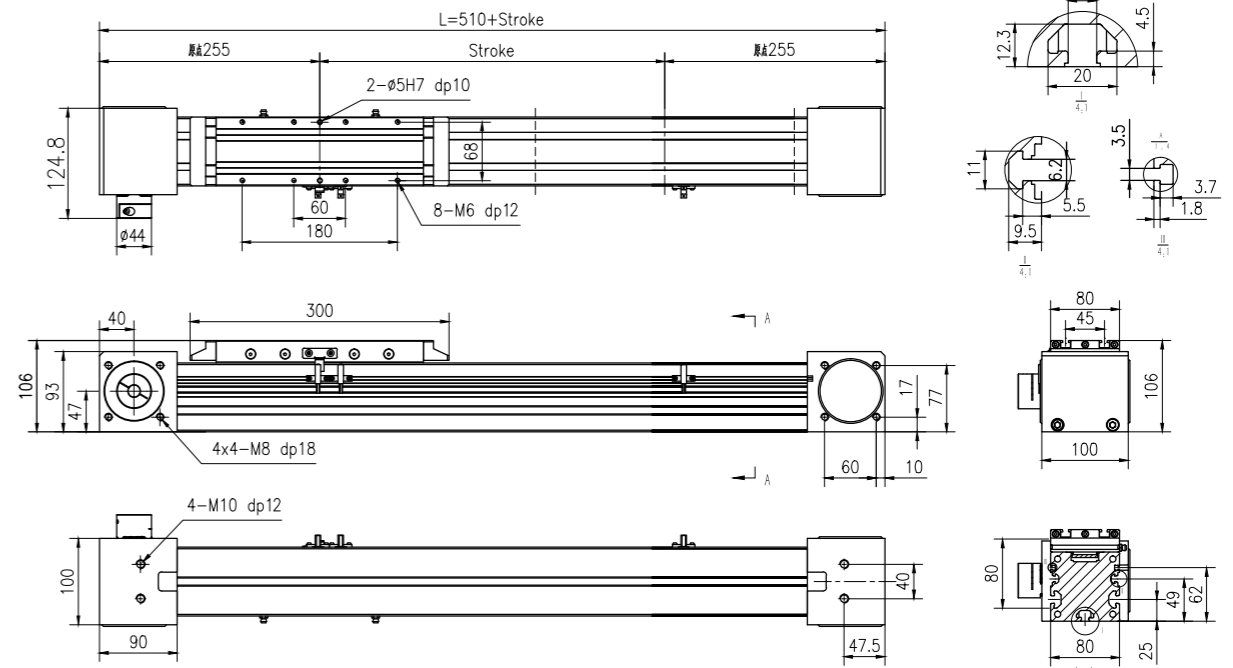
ITC 60



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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	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



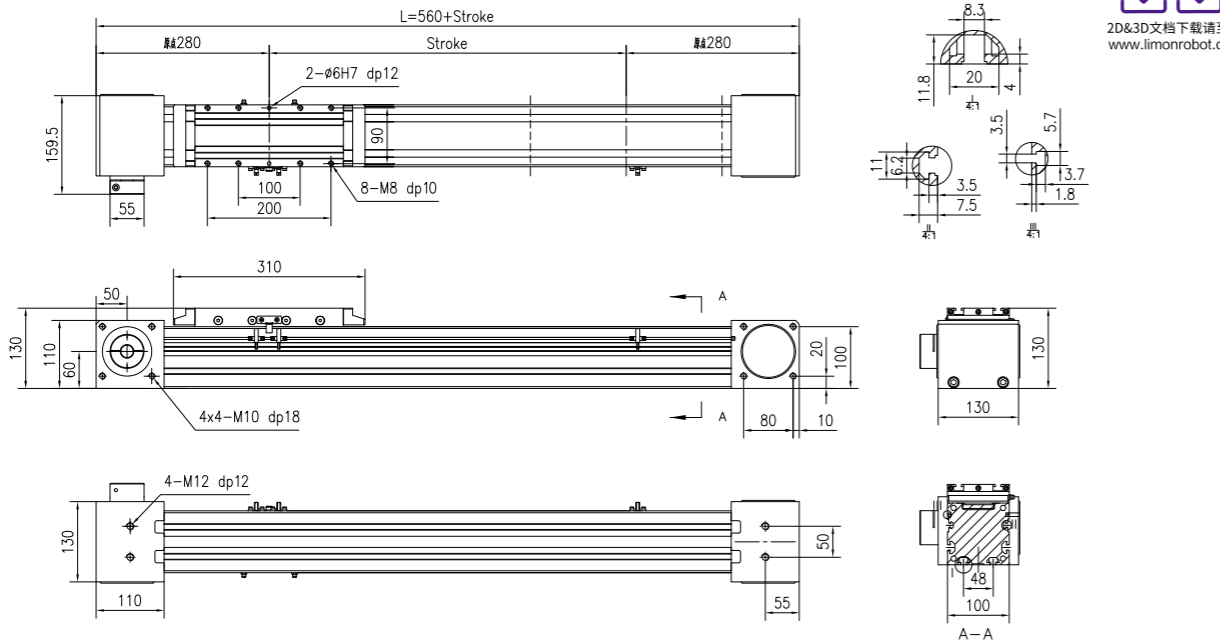
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510
重量 Weight (kg)	9.4	10.2	11.1	11.9	12.8	13.7	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 60/80/100 欧标全密式同步带驱动型

European standard fully dense synchronous belt drive type

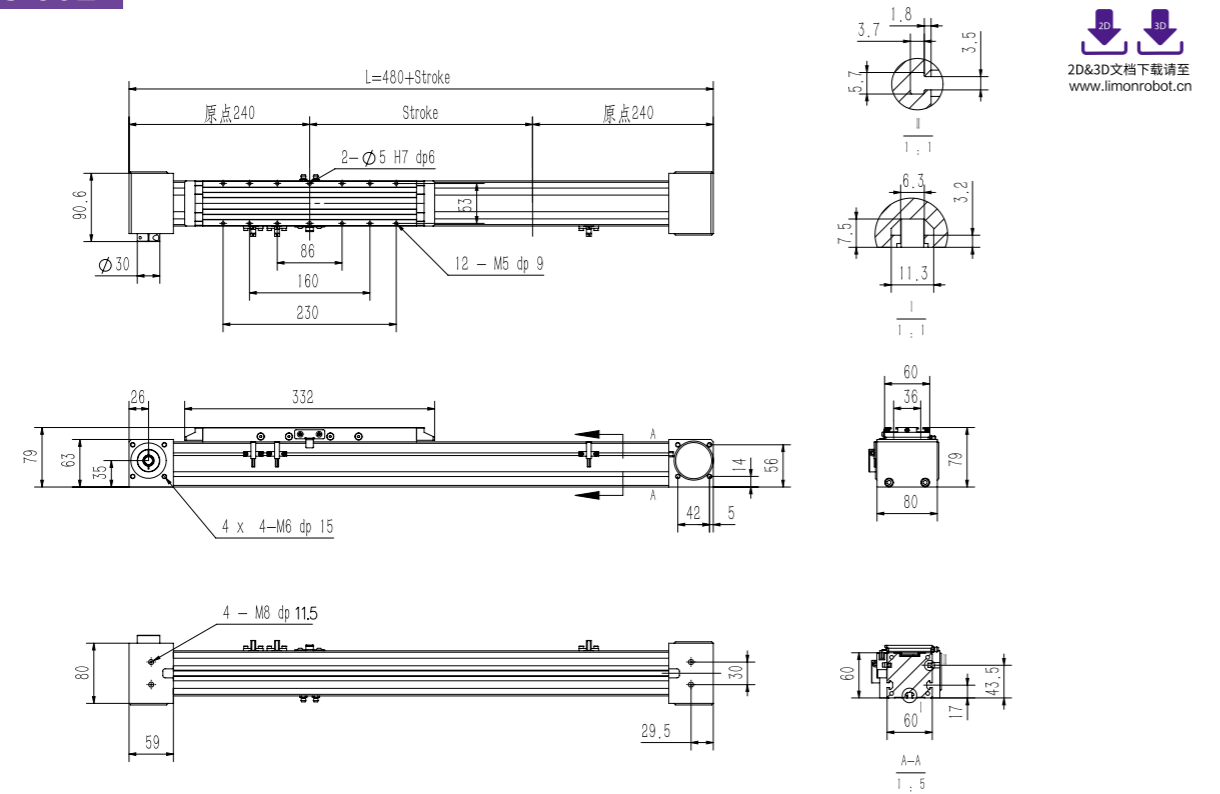
ITC 100



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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	660	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860	1960	2060	2160	2260	2360	2460	2560
重量 Weight (kg)	16.1	17.4	18.6	19.8	21.1	22.3	23.5	24.7	26	27.2	28.4	29.7	30.9	32.1	33.4	34.6	35.8	37	38.3	39.5
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	2660	2760	2860	2960	3060	3160	3260	3360	3460	3560	3660	3760	3860	3960	4060	4160	4260	4360	4460	4560
重量 Weight (kg)	40.7	42	43.2	44.4	45.7	46.9	48.1	49.3	50.6	51.8	53	54.3	55.5	56.7	58	59.2	60.4	61.6	62.9	64.1

ITC 60L



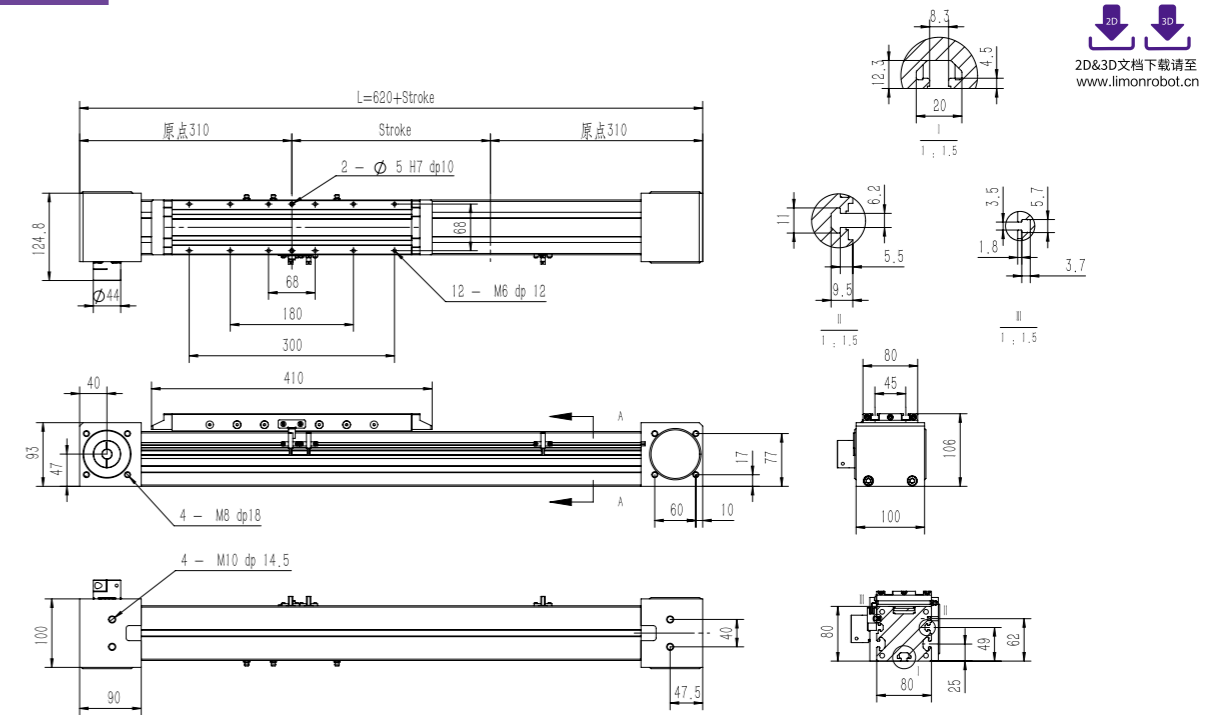
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	580	680	780	880	980	1080	1180	1280	1380	1480	1580	1680	1780	1880	1980	2080	2180	2280	2380	2480
重量 Weight (kg)	3.1	3.6	4.1	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6

欧标全密式同步带驱动型 ITC 60/80/100

European standard fully dense synchronous belt drive type

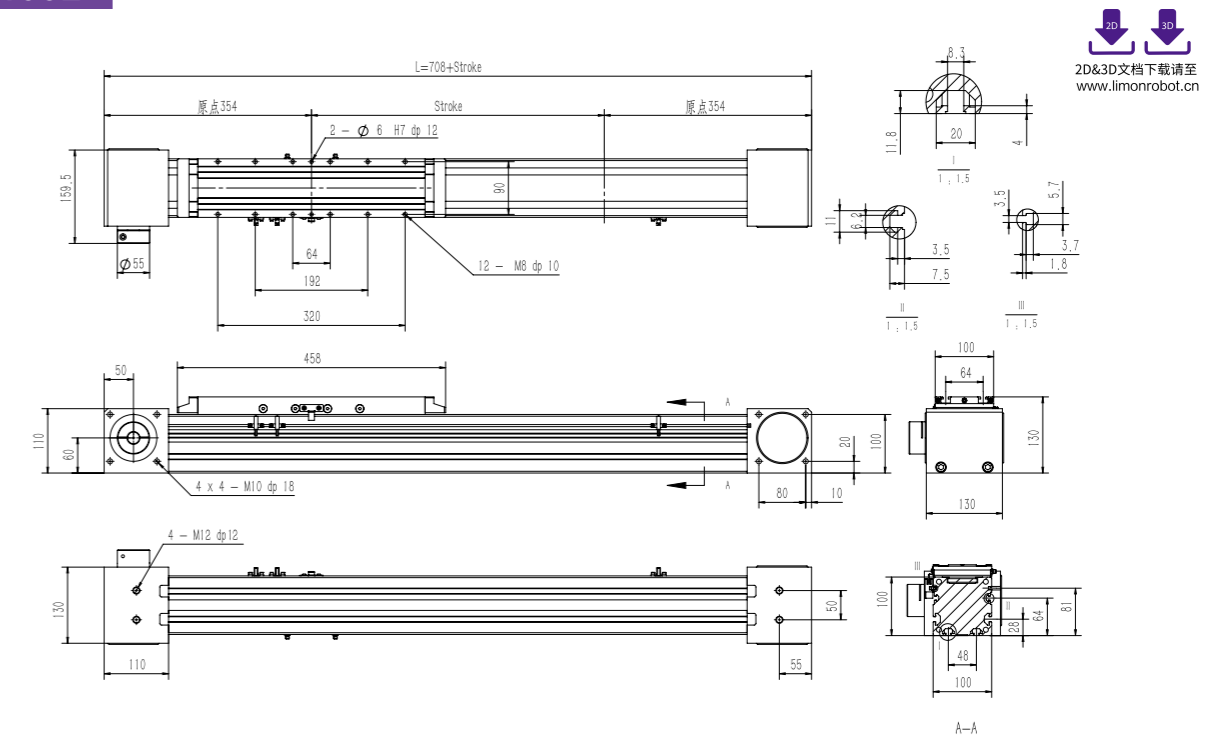
ITC 80L



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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	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420	2520	2620
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	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320	4420	4520	4620
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

ITC 100L

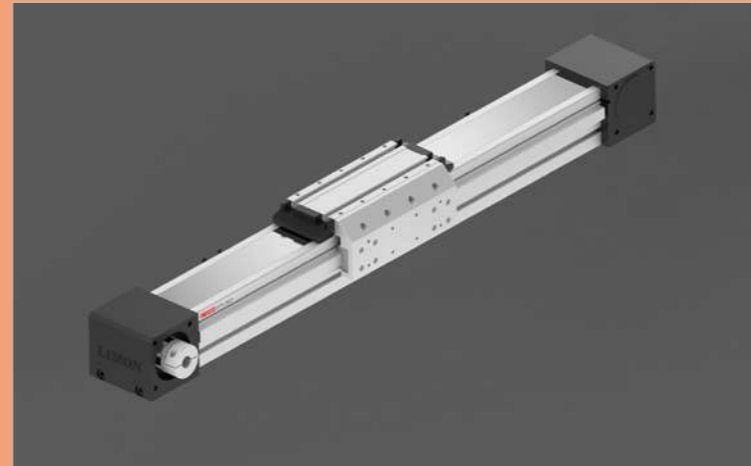


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408	2508	2608	2708
重量 Weight (kg)	16.6	17.9	19.2	20.5	21.8	23.1	24.4	25.7	27	28.3	29.6	30.9	32.2	33.5	34.8	36.1	37.4	38.7	40	41.3
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	2808	2908	3008	3108	3208	3308	3408	3508	3608	3708	3808	3908	4008	4108	4208	4308	4408	4508	4608	4708
重量 Weight (kg)	42.6	43.9	45.2	46.5	47.8	49.1	50.4	51.7	53	54.3	55.6	56.9	58.2	59.5	60.8	62.1	63.4	64.7	66	67.3

欧标全密式同步带驱动侧轨加强型

European standard fully dense synchronous belt drive side rail reinforced type



HTC 80 / 80L / 100 / 100L

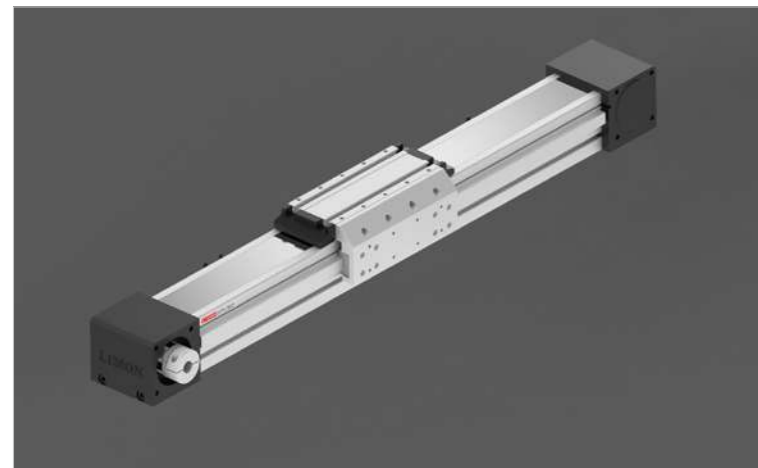
HTC 80/100 欧标全密式同步带驱动侧轨加强型

European standard fully dense synchronous belt drive side rail reinforced type

订购型号代码 Code

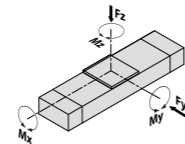
HTC80	L	500	DB	D01	GB2	22	P3	A001
本体型号 Item NO.	是否加长滑块	行程 Stroke	辅助滑块	马达方向	马达座型号	联轴器内孔尺寸	限位传感器数量	特注式样
HTC80	未标注:标准滑块	100-4000,间隔Gap100	未填写:单滑块	D01	GB2	联轴器内孔尺寸	P1: 1个 1PC	Special Order No.
HTC100	L: 加长滑块		DB: 辅助滑块	D02	GB3		P2: 2个 2PCS	
				D03			P3: 3个 3PCS	
				D04			未标记: 无	
				D05			No Mark/No Sensor	
				D06				

注: 辅助滑块选项相关参数参见样本P219.



最大动态力和力矩

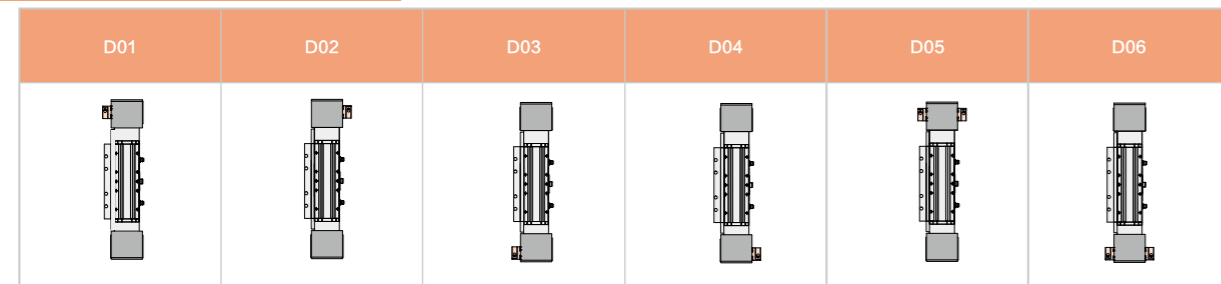
Max Permissible Forces And Torques



规格 Type	80	80L	100	100L
F(y) (N)	6980	10470	9702	14554
F(z) (N)	6980	10470	9702	14554
M(x) (N·m)	118	178	216	374
M(y) (N·m)	333	590	765	1080
M(z) (N·m)	333	590	765	1080

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

HTC		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)	176			
	皮带型号 Belt Type	8M-30			
	最高速度 Maximum Speed (mm/s)	5000			
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	100	150	165
	垂直使用Vertical (kg)	62	93	105	157.5
	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			
基本规格 Basic Specification	标准行程 Stroke (mm)	100-4000mm/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	20# × 1PC+15# × 1PC			
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	106 × 122			
	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P219.

Note1: Refer to catalogue P148 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)

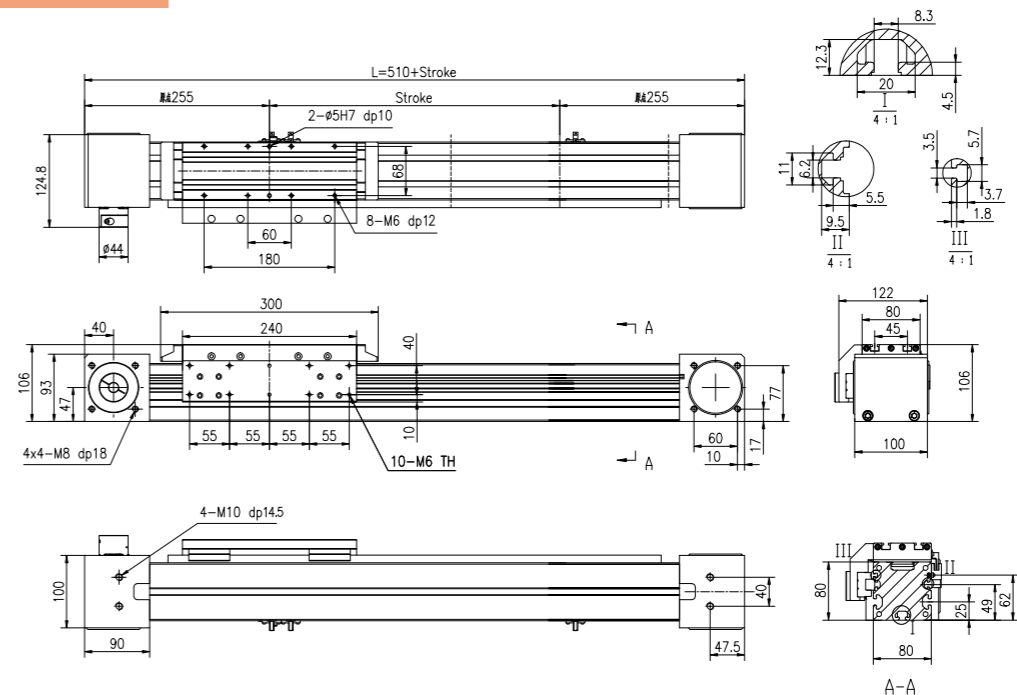
注4: 测定条件为无力矩的理论数据, 根据力矩和加速度数据会相应改变, 具体请参考选型软件.

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

HTC 80/100 欧标全密式同步带驱动侧轨加强型

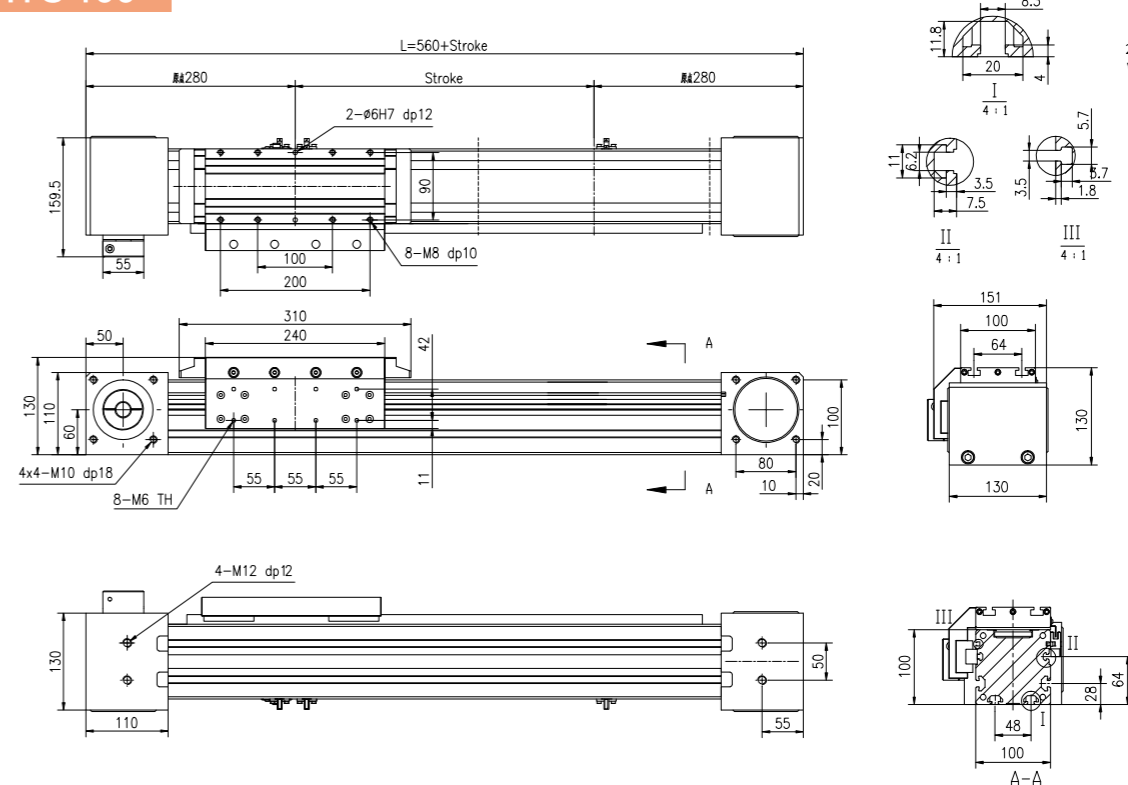
European standard fully dense synchronous belt drive side rail reinforced type

HTC 80



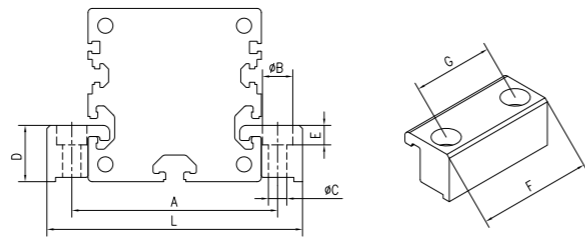
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510
重量 Weight (kg)	11.07	12.05	13.05	14.01	14.99	15.97	16.95	17.93	18.91	19.89	20.87	21.85	22.83	23.81	24.79	25.77	26.75	27.73	28.71	29.69
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)	30.67	31.65	32.63	33.61	34.59	35.57	36.55	37.53	38.51	39.49	40.47	41.45	42.43	43.41	44.39	45.37	46.35	47.33	48.31	49.29

HTC 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	660	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860	1960	2060	2160	2260	2360	2460	2560
重量 Weight (kg)	18.13	19.58	21.03	22.48	23.93	25.38	26.83	28.28	29.73	31.18	32.63	34.08	35.53	36.98	38.43	39.88	41.33	42.78	44.23	45.68
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	2660	2760	2860	2960	3060	3160	3260	3360	3460	3560	3660	3760	3860	3960	4060	4160	4260	4360	4460	4560
重量 Weight (kg)	47.13	48.58	50.03	51.48	52.93	54.38	55.83	57.28	58.73	60.18	61.63	63.08	64.53	65.98	67.43	68.88	70.33	71.78	73.23	74.68

安装块尺寸图 Dimensional Drawing of Jointing Block



#注1: 500mm行程以内建议配4个安装块, 行程每增加500mm, 需增加2个安装块。
 Note 1: Suggest to assemble 4 jointing block (stroke ≤ 500mm), two additional jointing block is required when stroke adds 500mm every time.
 #注2: 此零件为选配件, 如需订购请在下单时备注。
 Note 2: This is optional accessory, please remark if needed.

规格Type	A	B	C	D	E	F	G	L
ITO40	54	10	5.5	13	5.7	40	26	66
ITO/ITC 60	75	11	6.6	19	6.8	52	36	93
ITO/ITC80	96	14	8.5	26	9	64	45	119
ITO/ITC100	118	14	8.5	29	9	84	64	140
ITO160	75	11	6.6	19	6.8	52	36	93

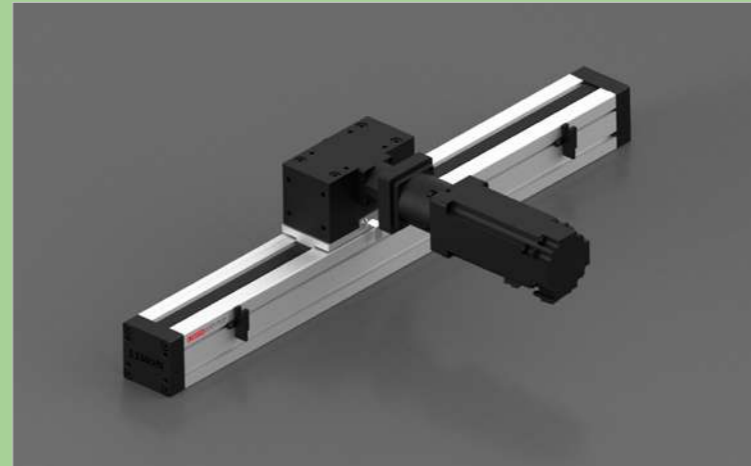
欧标同步带模块联轴器尺寸表

Coupling dimension table of belt driven linear actuator of Jointing Block

模组型号 Module model	可开孔径范围(mm) Hole dimension available range
ITO60 / ITO60L / ITC60 / ITC60L / HTO60/ITZ60	6 ~ 16
ITO80/ITO80L/ITC80/ITC80L/HTO80/HTO80L/HTC80/HTC80L	10 ~ 22
ITO100/ITO100L/ITC100/ITC100L/HTO100/HTO100L/HTC100/HTC100L	10 ~ 32
ITO160	10 ~ 22

欧标Z轴提升专用型

European standard Z-axis lifting special type



ITZ 60

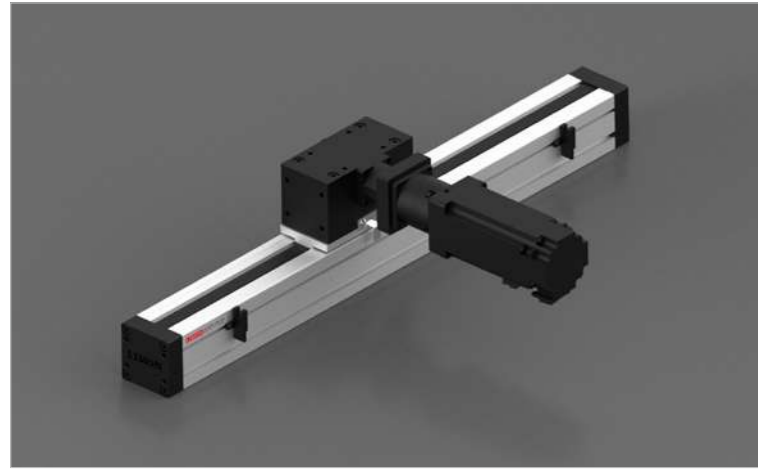


HTZ 80

订购型号代码 Code

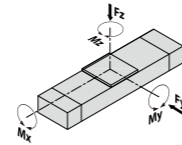
ITZ60	500	DB	D01	GB2	22	P3	A001
本体型号 Item NO.	行程 Stroke	辅助滑块 Auxiliary Block	马达方向 Motor Mounting Position	马达座型号 Motor type	联轴器内孔尺寸 Hole dimension of coupling	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
ITZ60	100-1500,间隔Gap100	未填写:单滑块 DB:辅助滑块	D01 D02	GB2		P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark/NoSensor	

注:辅助滑块选项相关参数参见样本P219.



最大动态力和力矩

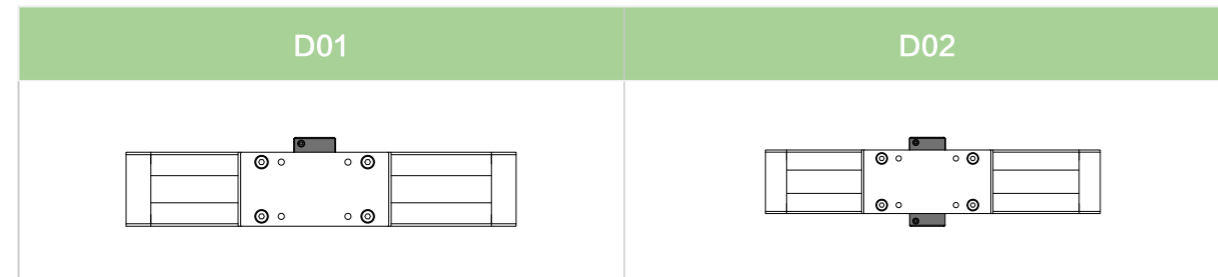
Max Permissible Forces And Torques



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



基本规格 Basic Specification

ITZ		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	垂直使用Vertical (kg)	10
	最大空载扭矩 Max. No-load Driving Torque (N·m)		0.35
基本 规格 Basic Specification	最大扭矩 Max. Driving Torque (N·m)	13.3	
	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# × 1PCS	
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	80 × 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P219.

Note1: Refer to catalogue P148 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)

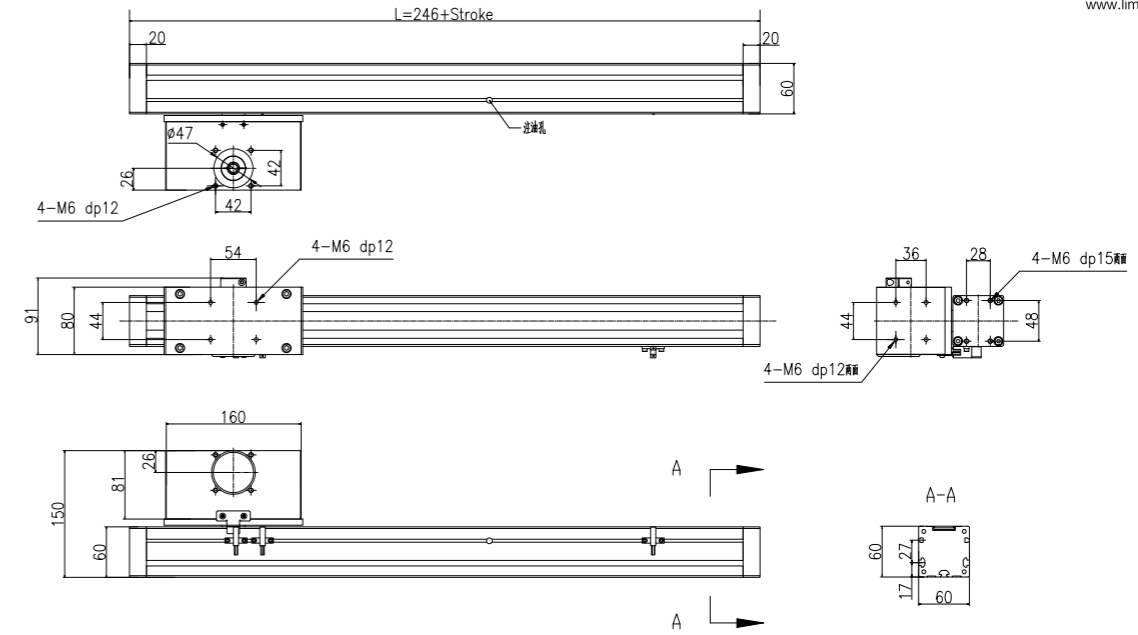
注4: 测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件.

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



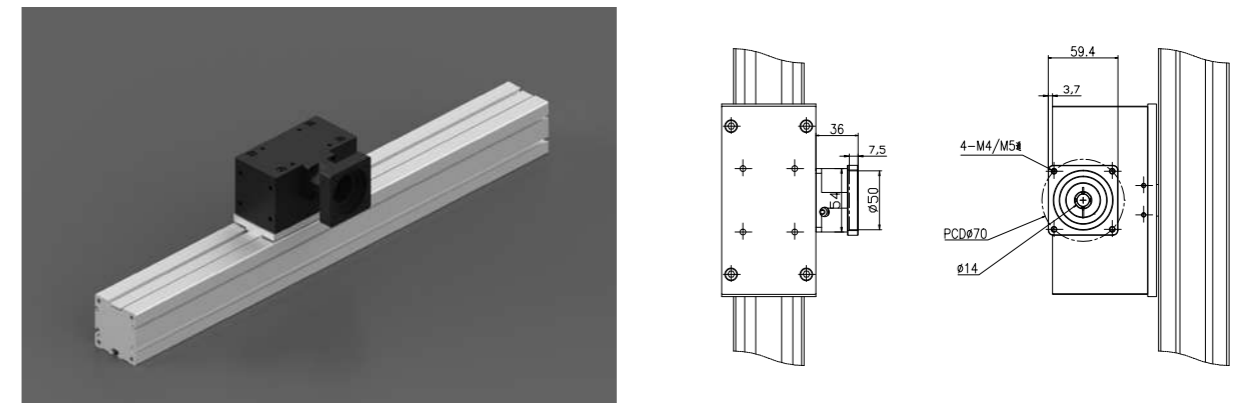
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ITZ 60



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)	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

马达座尺寸图 Dimensional 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: 此零件为选配件,如需订购请在下单时备注.

Note 2: This is optional accessory, please remark if needed.

订购型号代码 Code

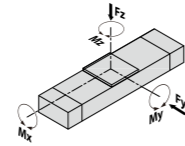
HTZ80	500	DB <small>注</small>	D01	GB2	22 <small>注3</small>	P3	A001
本体型号 Item NO.	行程 Stroke	辅助滑块 Auxiliary Block	马达方向 Motor Mounting Position	马达座型号 Motor type	联轴器内孔尺寸 I-hole dimension of coupling	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
HTZ80	100-1500,间隔Gap100	未填写:单滑块 DB:辅助滑块	D01	GB2 <small>注4</small> GB3		P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark/NoSensor	

注:辅助滑块选项相关参数参见样本P219.



最大动态力和力矩

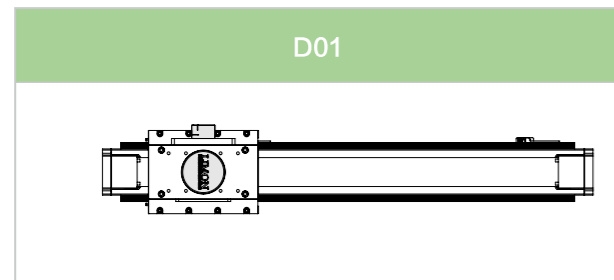
Max Permissible Forces And Torques



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 <small>注4</small> 垂直使用Vertical (kg)	30
	最大空载扭矩 Max. No-load Driving Torque (N·m)	0.9
基本 规格 Basic Specification	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
	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P219.

Note1: Refer to catalogue P148 for relevant parameters of auxiliary carriage option

注2:马达座型号相关参数参见样本P38.

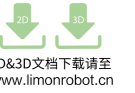
Note2: Refer to catalogue P38 for relevant parameters of motor model

注3:减速机联轴器轴孔尺寸

Note3: Hole dimension of coupling (reducer side)

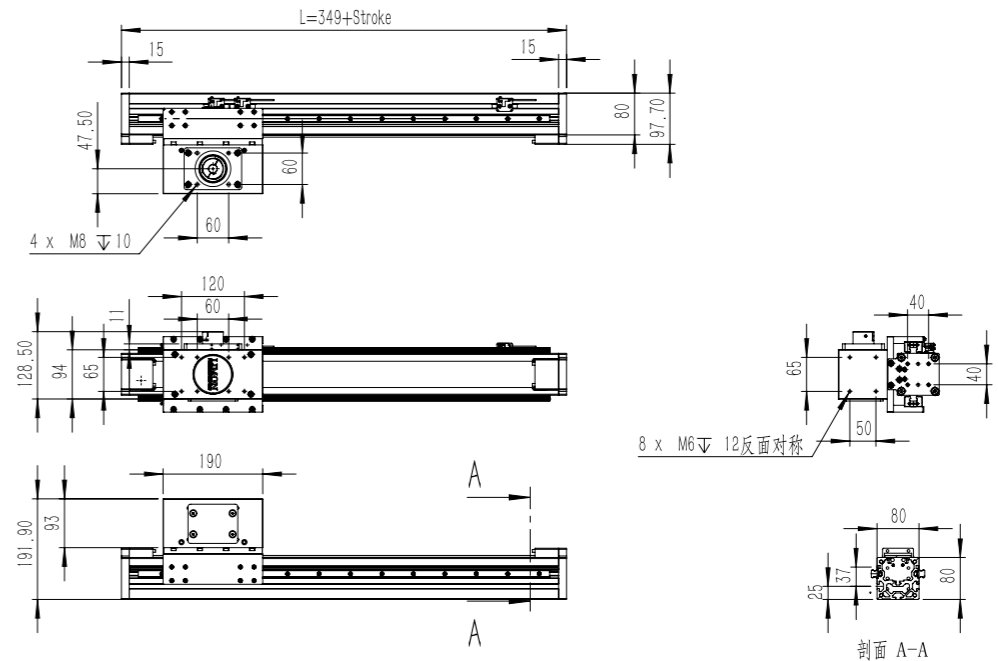
注4:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件.

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



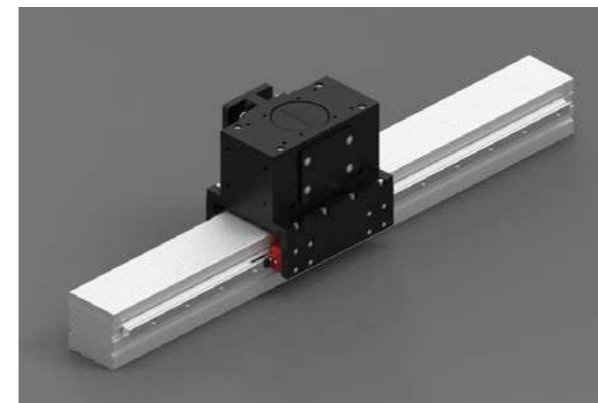
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HTZ 80



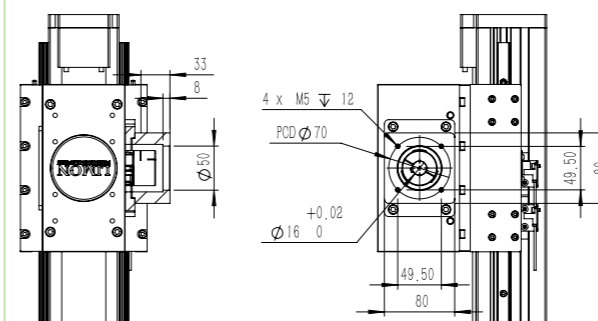
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
L	449	549	649	749	849	949	1049	1149	1249	1349	1449	1549	1649	1749	1849
重量 Weight (kg)	14.6	15.4	16.2	17	17.8	18.6	19.4	20.2	21	21.8	22.6	23.4	24.2	25	25.8

马达座尺寸图 Dimentional Drawing of Motor Base

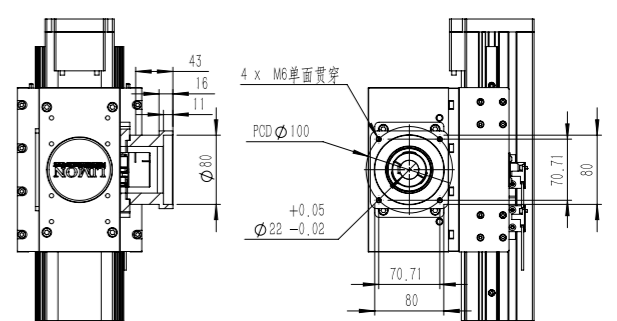


#注1: 此零件为选购件,如需订购请在下单时备注。
Note 1: This is optional accessory, please remark if needed.

180-马达座-GB2



180-马达座-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

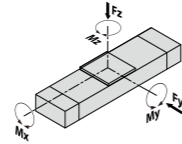
YSO135	L10	500	DB <small>注</small>	2P	MS	M40	P3	A001
本体型号 Item NO.	螺杆菌程 Ball Screw Lead	行程 Stroke	辅助滑块 Auxiliary Block	直线导轨滑块数量 Block Quantity	马达方向 Motor Mounting Position	马达品牌、功率 Motor Brand, Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	05 10 16 20	100-1250, 间隔Gap50	未填写:单滑块 DB: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	

注: 辅助滑块选项相关参数参见样本P219.



最大动态力和力矩

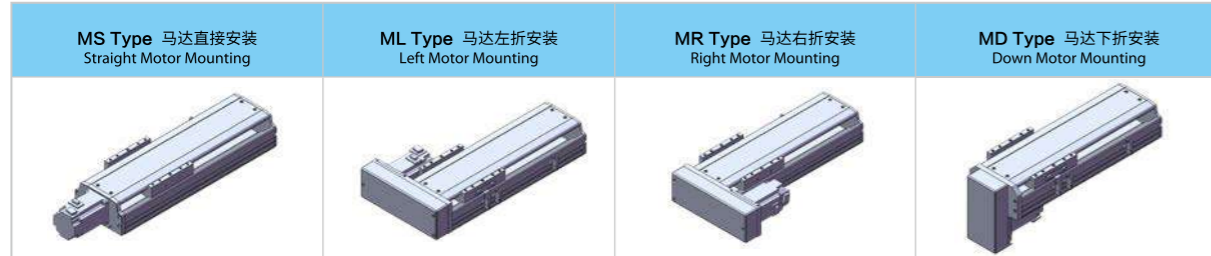
Max Permissible Forces And Torques



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



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				
	位置重复精度 Repetitive Accuracy (mm)	±0.005							
螺杆菌程 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)	683	341	213	174	683	341	213	174	
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	
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)								

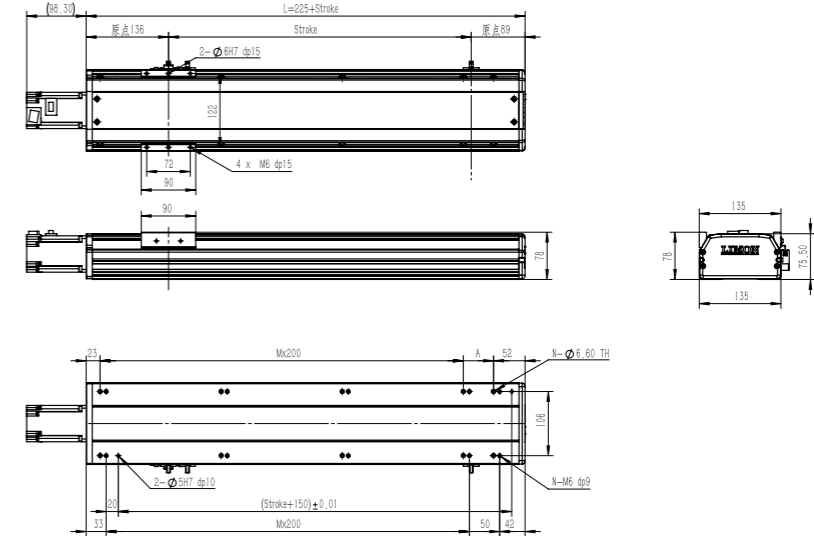
#注1:行程超过900mm时, 可能会产生严重的共振现象, 此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2:测定条件为无力矩的理论数据, 根据力矩和加速度数据会相应改变, 具体请参考选型软件。
#Note2:Date changes relevently according to different torque and accelrated 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

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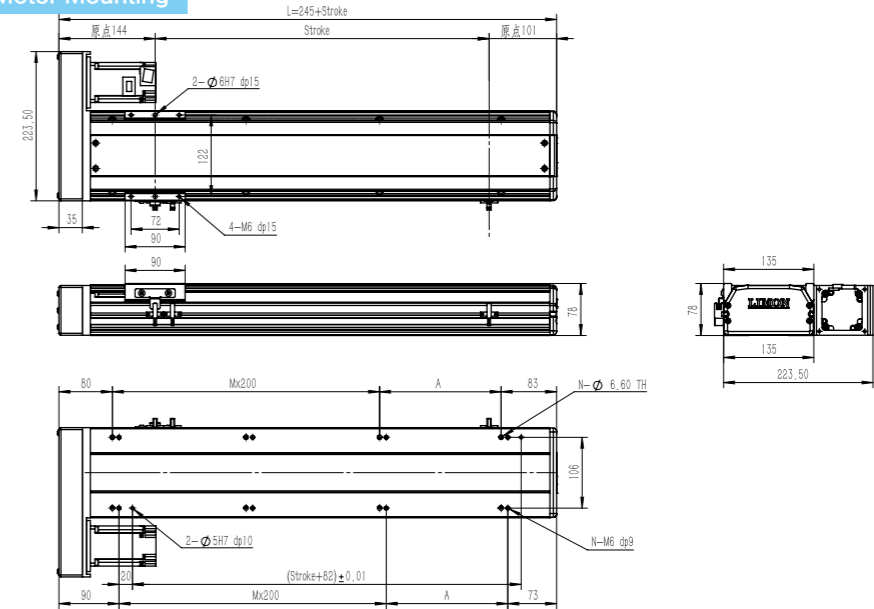


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	1323	1373	1423	1473
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	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	1000																						
	导程 Pitch 16	800																						
	导程 Pitch 10	500																						
	导程 Pitch 05	250																						

#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

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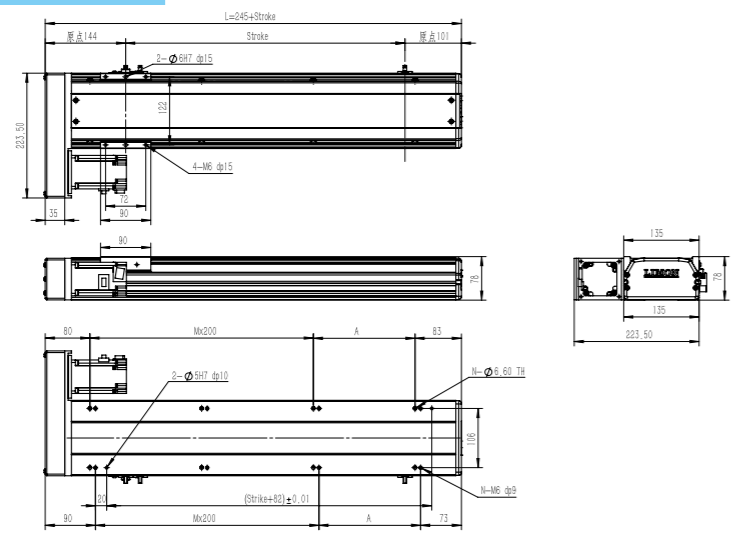
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	343	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493
A	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	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	1000																						
	导程 Pitch 16	800																						
	导程 Pitch 10	500																						
	导程 Pitch 05	250																						

#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

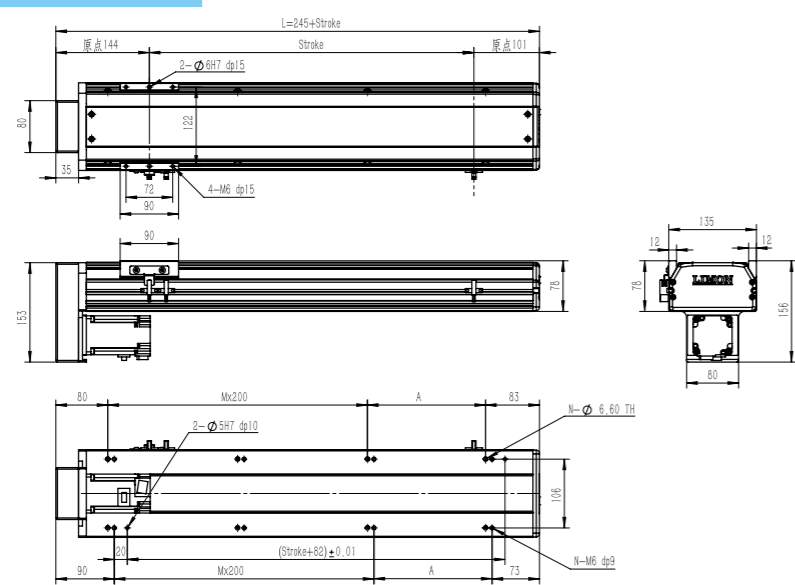


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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	343	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493
A	182	32	82	132	182	232	282	332	382	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132
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: 1000 导程 Pitch 16: 800 导程 Pitch 10: 500 导程 Pitch 05: 250													

#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-MD 马达下折安装 Down Motor Mounting



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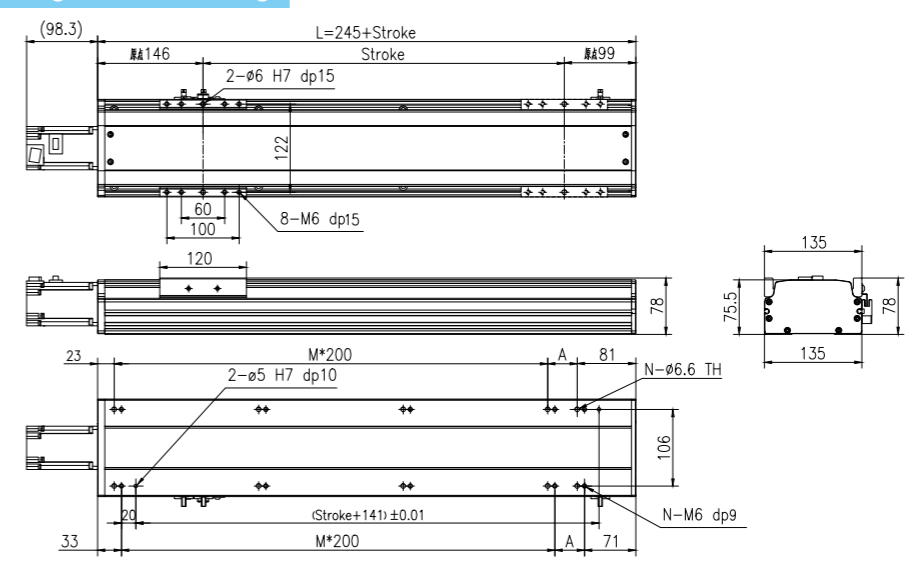
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	343	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493
A	182	32	82	132	182	232	282	332	382	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132
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: 1000 导程 Pitch 16: 800 导程 Pitch 10: 500 导程 Pitch 05: 250													

#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

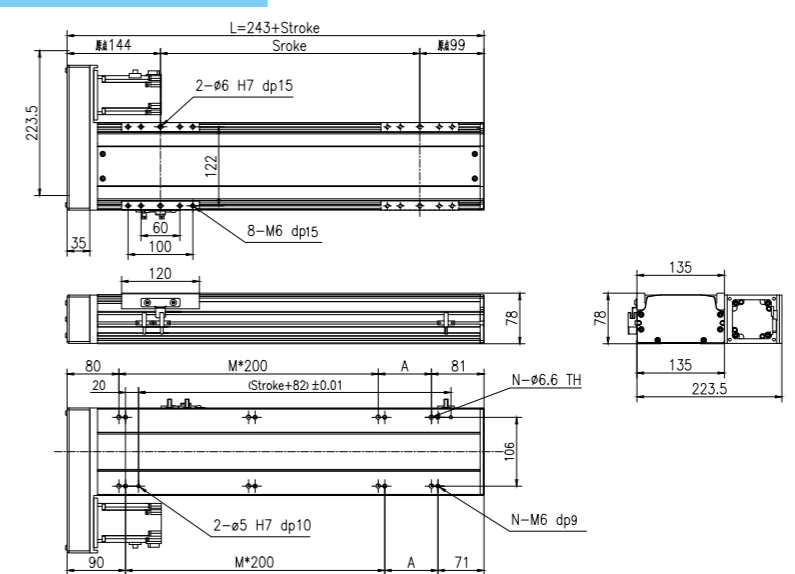


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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	345	395	445	495	545	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495
A	41	91	141	191	241	291	341	391	441	491	541	591	641	691	741	791	841	891	941	991	1041	1091	1141	1191
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: 1000 导程 Pitch 16: 800 导程 Pitch 10: 500 导程 Pitch 05: 250													

#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.

YSO135-4P-ML 马达左折安装 Left 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	343	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493
A	182	32	82	132	182	232	282	332	382	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132
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: 1000 导程 Pitch 16: 800 导程 Pitch 10: 500 导程 Pitch 05: 250													

#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.

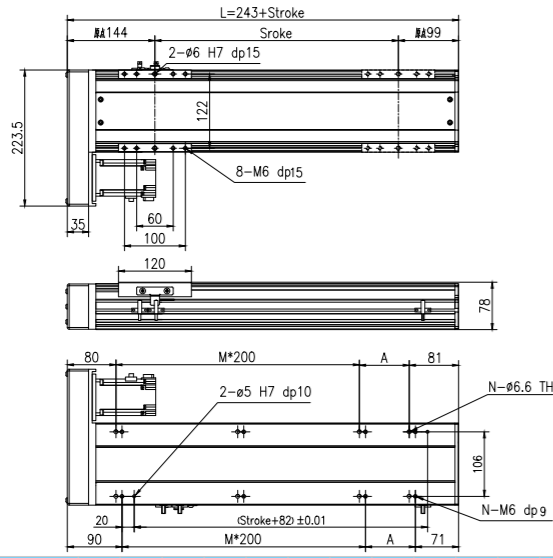
YSO Series

YSO Series

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

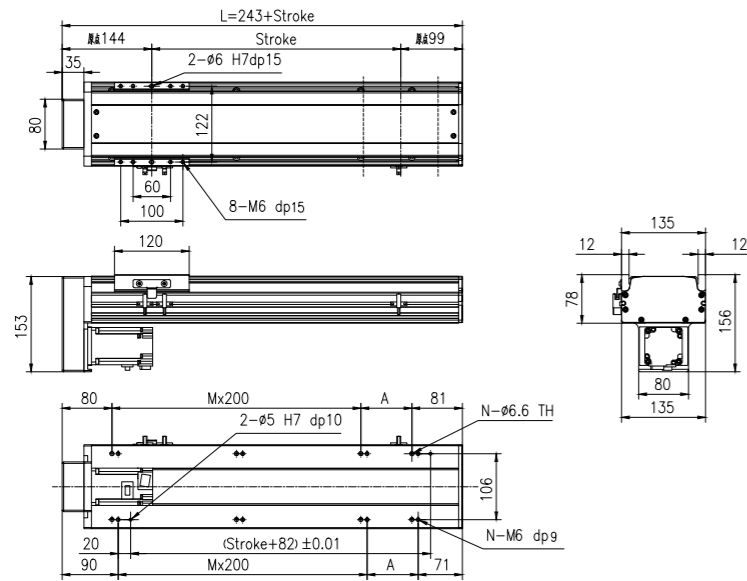


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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	343	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493
A	182	32	82	132	182	232	282	332	382	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132
M	0	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	5	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: 1000 导程 Pitch 16: 800 导程 Pitch 10: 500 导程 Pitch 05: 250																							

#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.

YSO135-4P-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	343	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493
A	182	32	82	132	182	232	282	332	382	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132
M	0	1	1	1	1	2	2	2	3	3	3	3	4	4	4	4	5	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: 1000 导程 Pitch 16: 800 导程 Pitch 10: 500 导程 Pitch 05: 250																							

#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 Position	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 16 20	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	

注:辅助滑块选项相关参数参见样本P219.

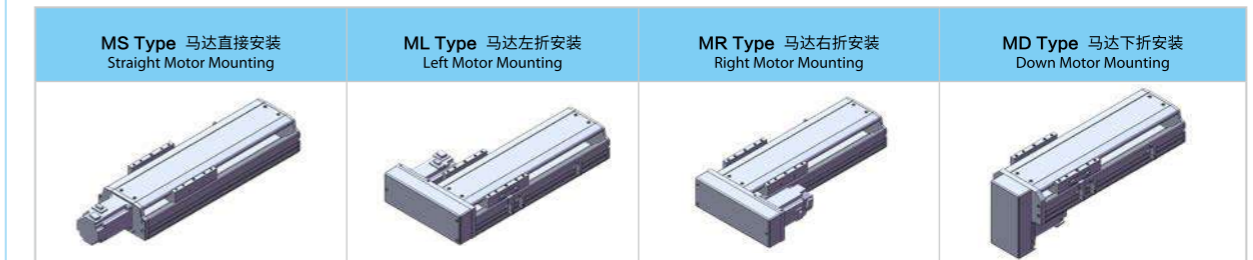


最大动力和力矩
Max Permissible Forces And Torques

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

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)	683	341	213	174	
	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)					

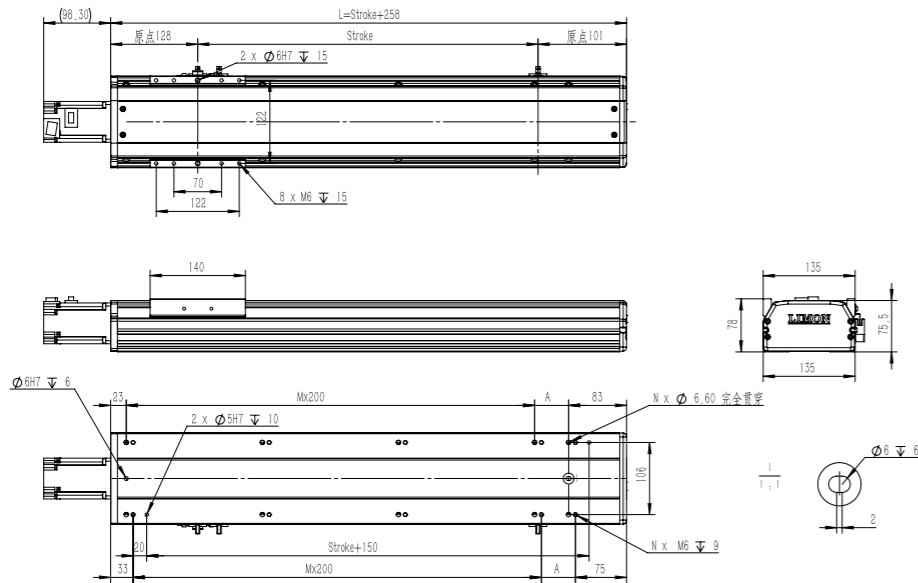
#注1:行程超过900mm时,可能会产生严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。
#Note 2:Date changes relevently according to different torque and accelrated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

YSO 135G 亚标半密式螺杆驱动型

Sub-standard semi-tight screw drive type

YSO135G-4P-MS 马达直接安装 StRight Motor Mounting

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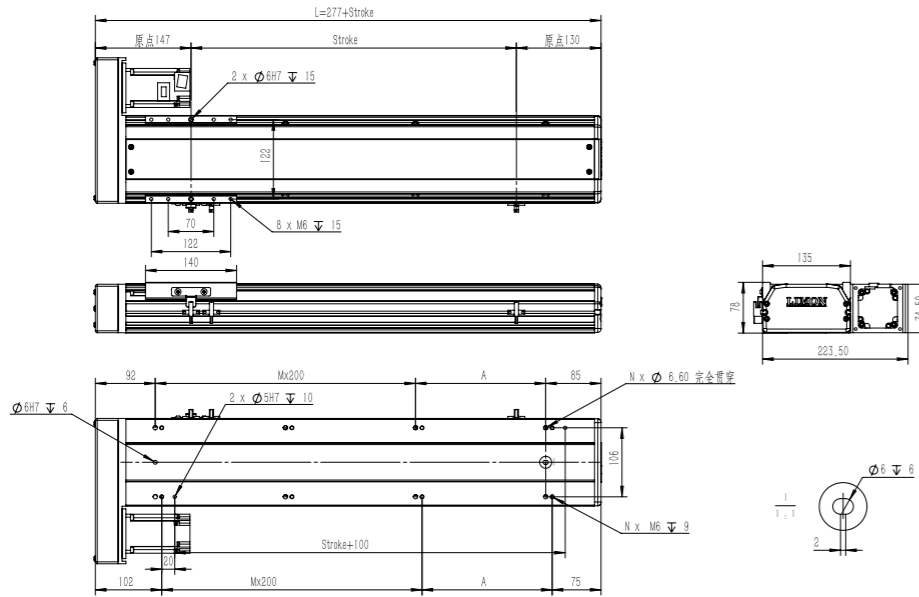


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	358	408	458	508	558	608	658	708	758	808	858	908	958	1008	1058	1108	1158	1208	1258	1308	1358	1408	1458	1508
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
M	1	1	1	2	2	2	2	3	3	3	3	4	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	8.6	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																		1000	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.

YSO135G-4P-ML 马达左折安装 Left 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	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527
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
M	0	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	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																		1000	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.

亚标半密式螺杆驱动型 YSO 135G

Sub-standard semi-tight screw drive type

YSO135G-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	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527
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
M	0	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	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																		1000	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.

YSO135G-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	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527
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
M	0	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	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																		1000	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 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

YSO170	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 Position	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 40	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	

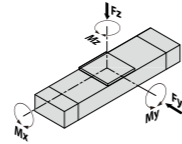
注:辅助滑块选项相关参数参见样本P219.



精度 ±0.005mm

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

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

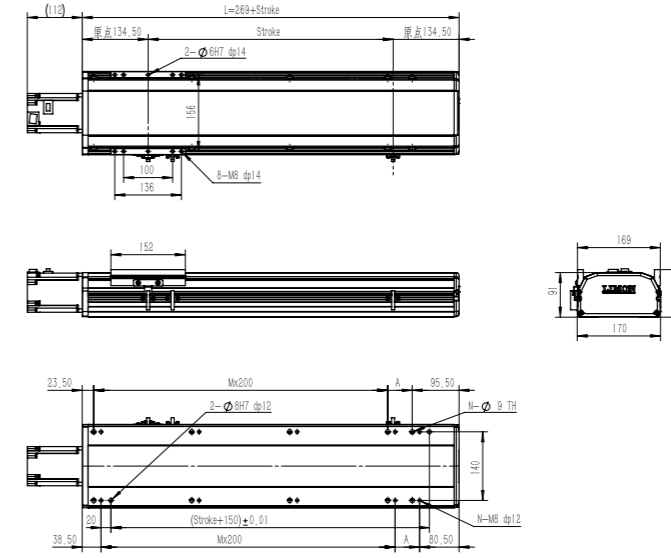
YSO170		4P(导轨滑块数量) Block Quantity				
技术 参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	±0.005				
	螺杆导程 Ball Screw Lead (mm)	5	10	20	40	
	最高速度 Maximum Speed (mm/s)	250	500	1000	2000	
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	120	100	85	60
		垂直使用Vertical (kg)	60	50	35	20
	定格推力 Rated Thrust (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)	100-1250 mm/ 50 Pitch				
	AC伺服马达容量 AC Servo Motor Output (W)	400 / 750				
	滚珠螺杆外径 Ball Screw Diameter (mm)	ø20 / ø25				
	高刚性直線滑軌 Linear Guide (mm)	20# × 2 PCS				
	主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	170 × 97				
原点感应器 Home Sensor	EE-SX672(NPN)					

#注1:行程超过850mm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 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 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 170

Sub-standard semi-tight screw drive type

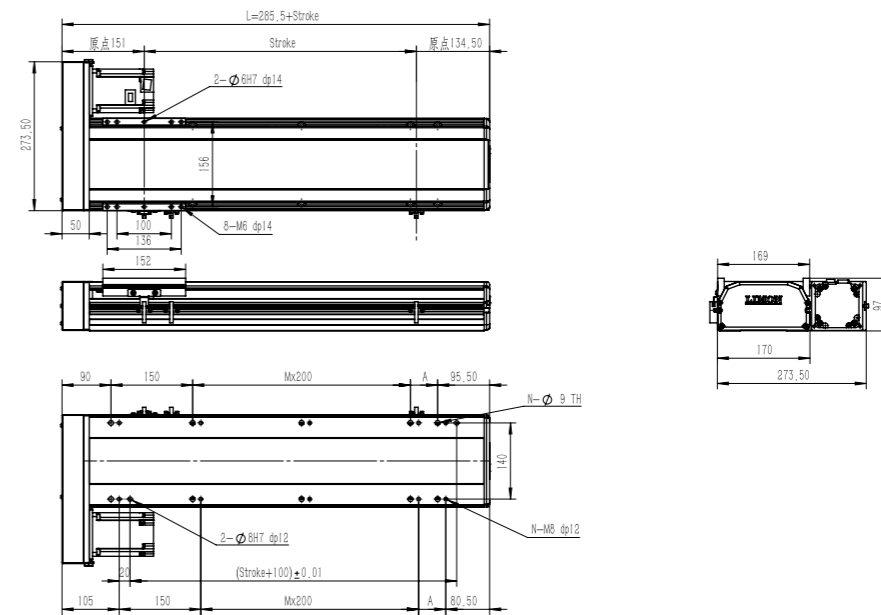
YSO170-4P-MS 马达直接安装 Straight Motor Mounting



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	369	419	469	519	569	619	669	719	769	817	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519								
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)	11.8	12.6	13.4	14.2	15	15.7	16.5	17.3	18.2	19	19.8	20.6	21.4	22.2	23	23.8	24.6	25.4	26.2	27	27.8	28.6	29.4	30.2								
最高速度 Max speed (mm/sec)																	导程 Pitch 40		2000		导程 Pitch 20		1000		导程 Pitch 10		500		导程 Pitch 05		250	
																			1600		1500		1000		900							
																			800		650		500		450							
																			400		325		250		225							
																		200		162.5		125		112.5								

#注1:行程超过850mm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 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



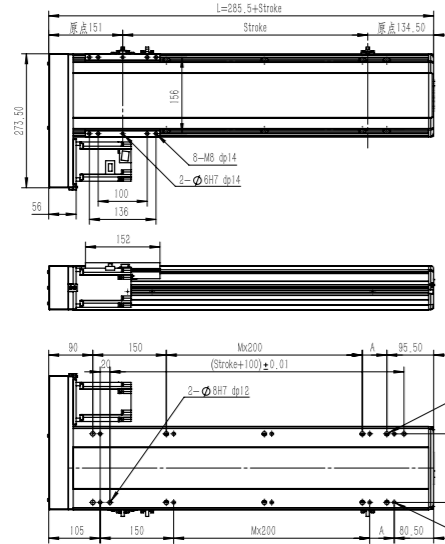
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250								
L	385.5	435.5	485.5	535.5	585.5	635.5	685.5	735.5	785.5	835.5	885.5	935.5	985.5	1035.5	1085.5	1135.5	1185.5	1235.5	1285.5	1335.5	1385.5	1435.5	1485.5	1535.5								
A	50	100	150	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		2000		导程 Pitch 20		1000		导程 Pitch 10		500		导程 Pitch 05		250	
																			1600		1500		1000		900							
																			800		650		500		450							
																			400		325		250		225							
																		200		162.5		125		112.5								

#注1:行程超过850mm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 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

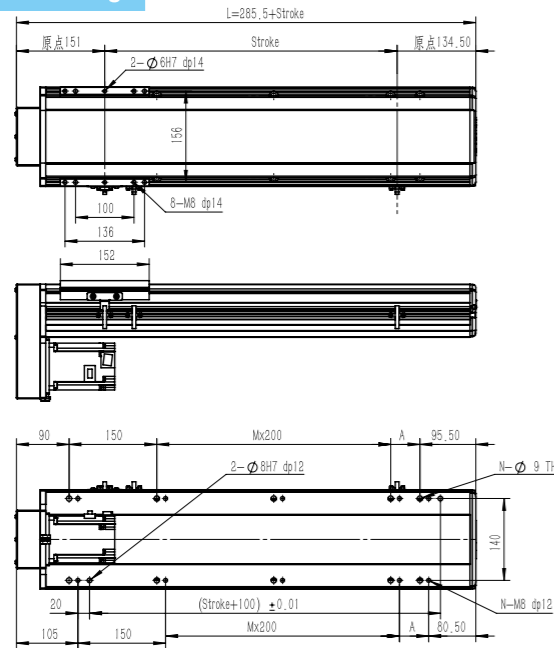


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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	385.5	435.5	485.5	535.8	585.5	635.5	685.5	735.5	785.5	835.5	885.5	935.5	985.5	1035.5	1085.5	1135.5	1185.5	1235.5	1285.5	1335.5	1385.5	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)																	2000	1600	1500	1000	900	450	225	112.5

#注1:行程超过850mm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 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	535.8	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)																	2000	1600	1500	1000	900	450	225	112.5

#注1:行程超过850mm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 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

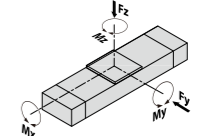
YSO220	L10	500	DB	4P	MS	M75	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead	行程 Stroke	辅助滑块 Auxiliary Block	直线导轨滑块数量 Block Quantity	马达方向 Motor Mounting Position	马达品牌、功率 Motor Brand, Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	05 10 25 32	100-1500, 间隔Gap50	未填写:单滑块 DB:辅助滑块	4P	MS: 马达直接安装 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	

#注:辅助滑块选项相关参数参见样本P219.



最大动态力和力矩

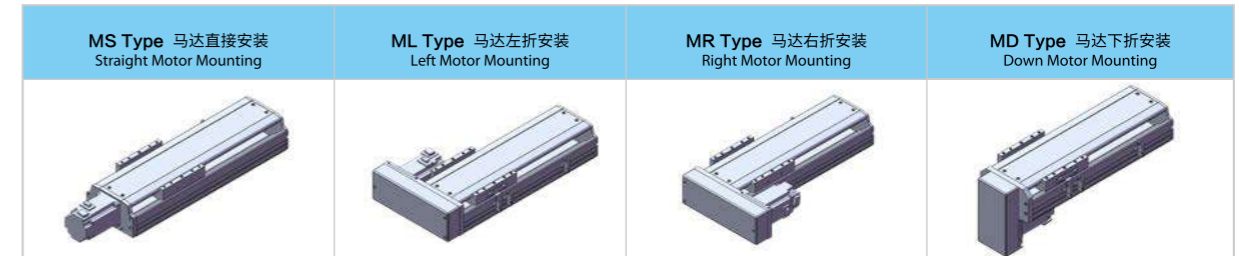
Max Permissible Forces And Torques



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



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)					

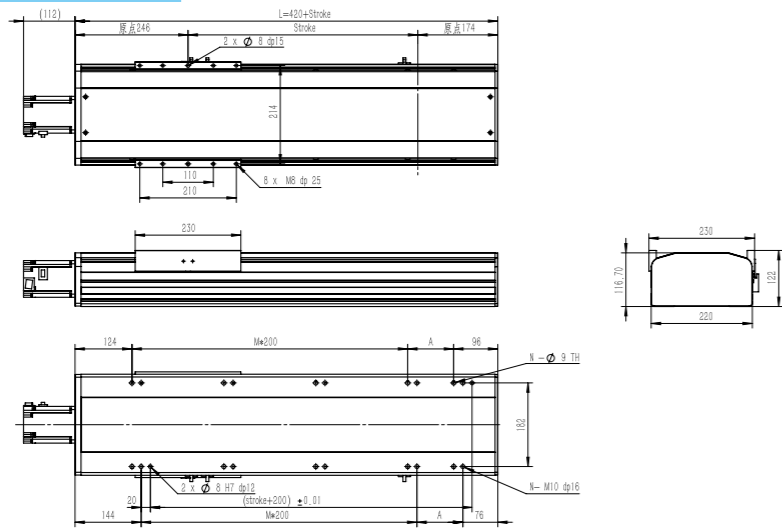
#注1:行程超过900mm时,可能会产生严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。
#Note 2:Date changes relevently according to different torque and accelarated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

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

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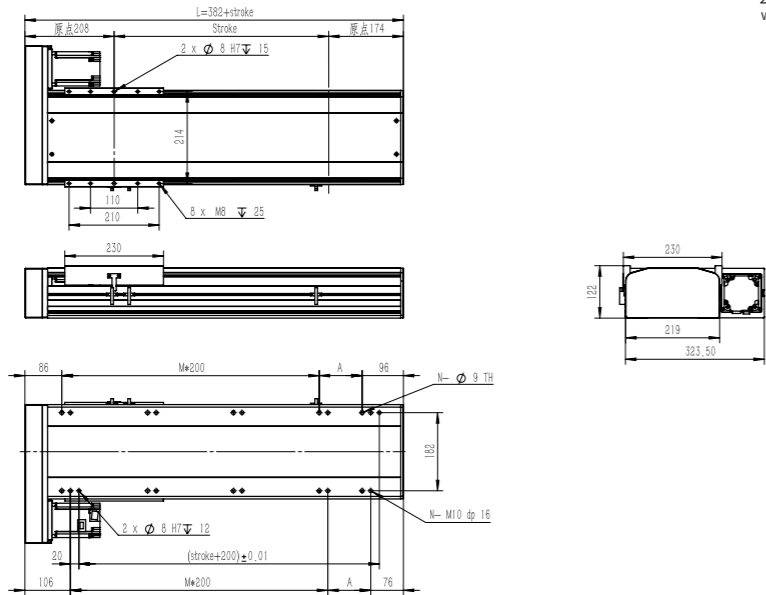


行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500		
L	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820	1870	1920		
A	50	100	150	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)																			1600		1440		1280		1180		960		800		640	
导程 Pitch 32																			1250		1125		1000		875		750		625		500	
导程 Pitch 25																			500		450		400		350		300		250		200	
导程 Pitch 10																			250		225		200		175		150		125		100	
导程 Pitch 05																			250		225		200		175		150		125		100	

#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 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

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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	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)																			1600		1440		1280		1180		960		800		640		480	
导程 Pitch 32																			1250		1125		1000		875		750		625		500			
导程 Pitch 25																			500		450		400		350		300		250		200			
导程 Pitch 10																			250		225		200		175		150		125		100			
导程 Pitch 05																			250		225		200		175		150		125		100			

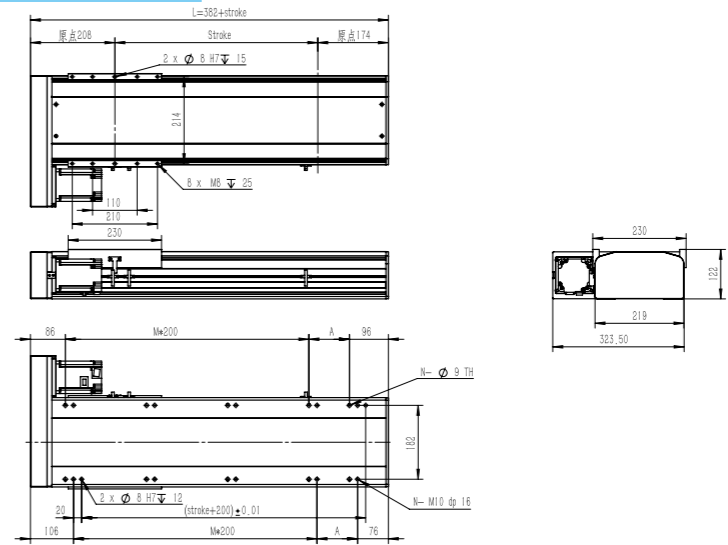
#注1:行程超过900mm时,可能会产生严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

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

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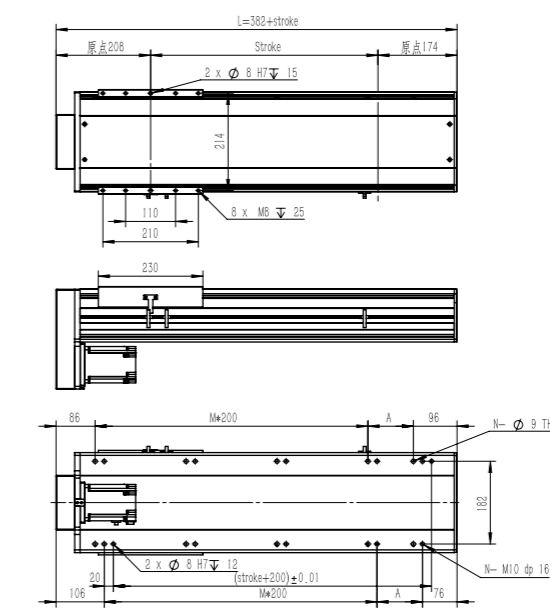


行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500				
L	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532	1582	1632	1682	1732	1782	1832	1882				
A	50	100	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)																			1600		1440		1280		1180		960		800		640		480	
导程 Pitch 32																			1250		1125		1000		875		750		625		500			
导程 Pitch 25																			500		450		400		350		300		250		200			
导程 Pitch 10																			250		225		200		175		150		125		100			
导程 Pitch 05																			250		225		200		175		150		125		100			

#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.

YSO220-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	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)																			1600		1440		1280		1180		960		800		640		480	
导程 Pitch 32																			1250		1125		1000		875		750		625		500			
导程 Pitch 25																			500		450		400		350		300		250		200			
导程 Pitch 10																			250		225		200		175		150		125		100			
导程 Pitch 05																			250		225		200		175		150		125		100			

#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 Series

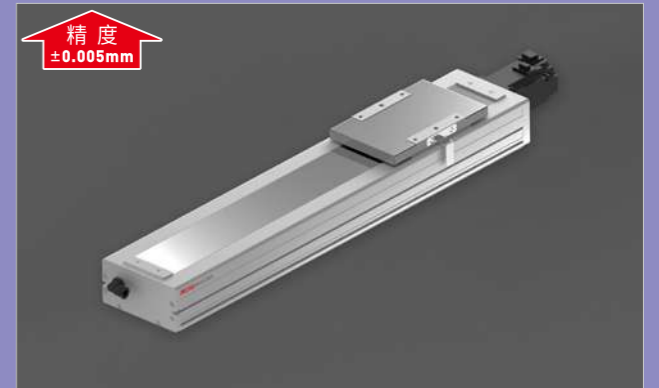
YSO Series

亚标全密式螺杆驱动型

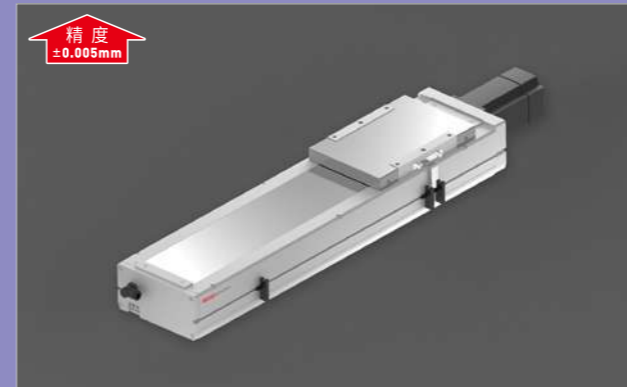
Sub-standard full-tight screw drive type



YSC 135



YSC 135G



YSC 170

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

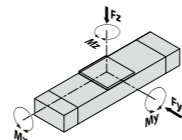
YSC135	L10	500	DB <small>注</small>	4P	MS	M40	P3	A001
本体型号 Item NO.	螺杆导程 Ball Screw Lead	行程 Stroke	辅助滑块 Auxiliary Block	直线导轨滑块数量 Block Quantity	马达方向 Motor Mounting Position	马达厂牌、功率 Motor Brand, Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	05	100-1250, 间隔Gap50	未填写:单滑块 B:辅助滑块	4P	MS: 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 No Mark: No Sensor	

注: 辅助滑块选项相关参数参见样本P219.



最大动力和力矩

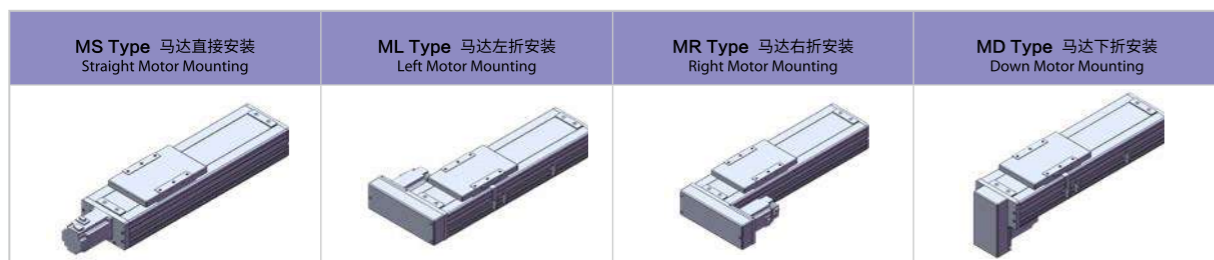
Max Permissible Forces And Torques



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



基本规格 Basic Specification

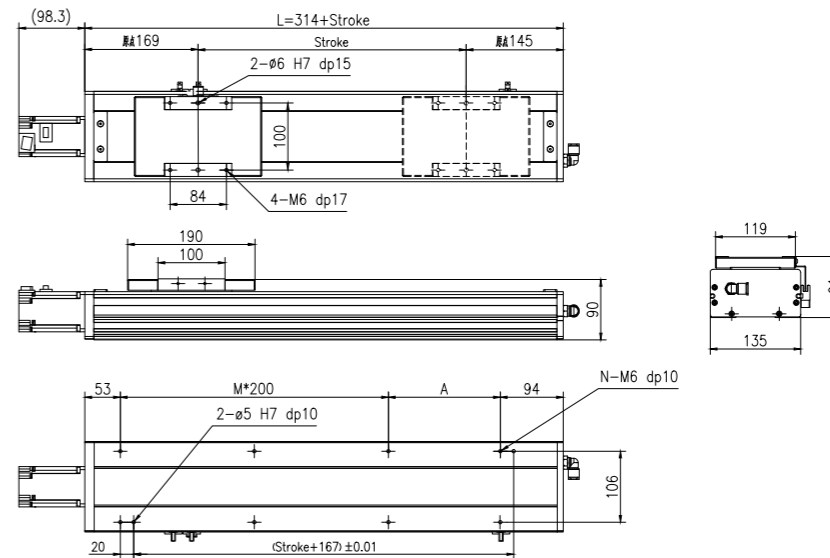
YSC135		4P(导轨滑块数量) Block Quantity				
技术 参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	±0.005				
	螺杆导程 Ball Screw Lead (mm)	5	10	16	20	
	最高速度 Maximum Speed (mm/s)	*注1*Note1				
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	100	80	60	45
		垂直使用Vertical (kg)	50	30	22	16
	定格推力 Rated Thrust (N)	683	341	213	174	
	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 × 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 relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

亚标全密式螺杆驱动型 YSC 135

Sub-standard full-tight screw drive type

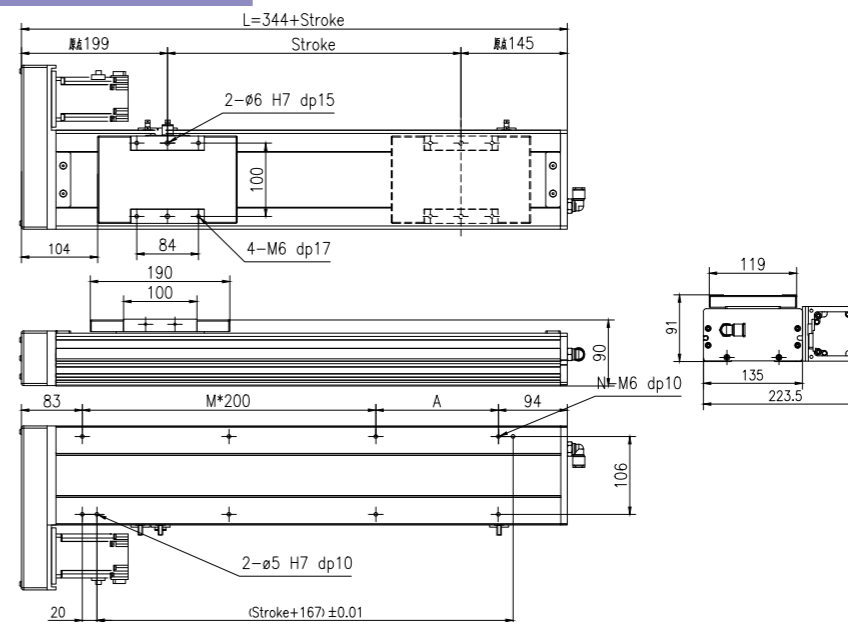
YSC135-4P-MS 马达直接安装 Straight Motor Mounting



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	414	464	514	564	614	664	714	764	814	864	914	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	1464	1514	1564
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)	7.6	8.1	8.6	9.0	9.5	10.0	10.5	10.9	11.4	11.9	12.4	12.8	13.3	13.8	14.3	14.7	15.2	15.7	16.2	16.6	17.1	17.6	18.1	18.5
最高速度 Max speed (mm/sec)	导程 Pitch 20	1000																						
	导程 Pitch 16	800																						
	导程 Pitch 10	500																						
	导程 Pitch 05	250																						

#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-ML 马达左折安装 Left Motor Mounting



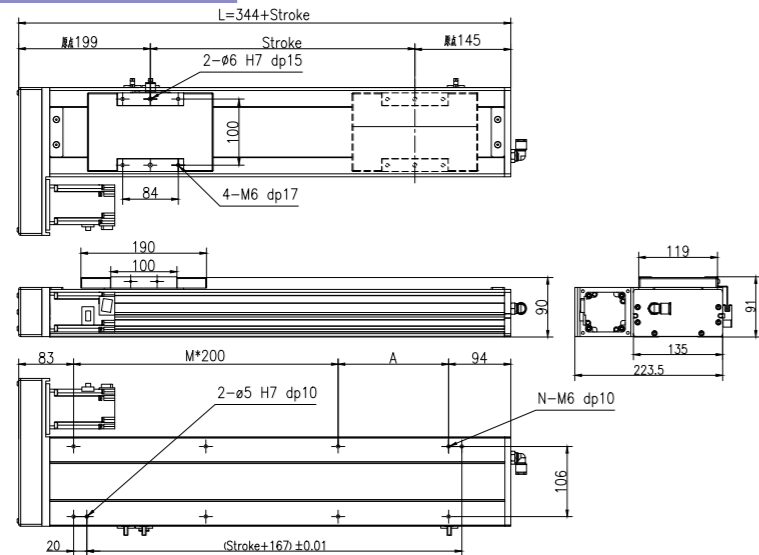
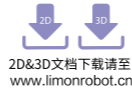
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544	1594
A	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	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)	导程 Pitch 20	1000																						
	导程 Pitch 16	800																						
	导程 Pitch 10	500																						
	导程 Pitch 05	250																						

#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.

YSC 135 亚标全密式螺杆驱动型

Sub-standard full-tight screw drive type

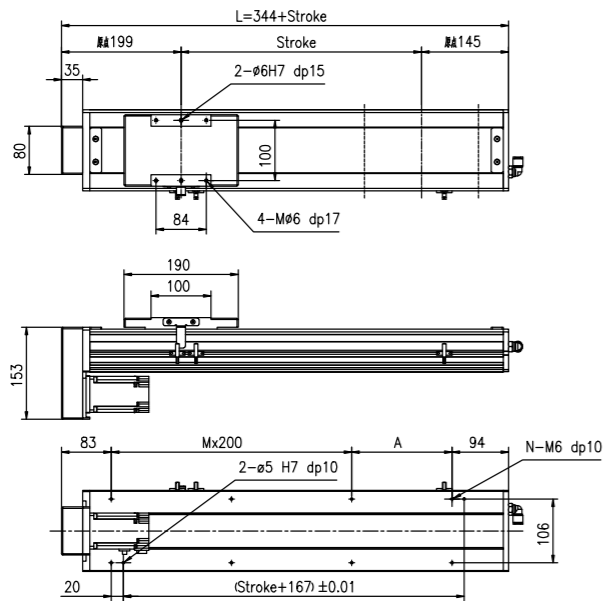
YSC135-4P-MR 马达右折安装 Right Motor Mounting



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	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	6	7						
N	6	6	6	8	8	8	10	10	10	10	12	12	12	12	14	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)																			1000	800	640	520	400	360	250	225	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



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	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	6	7						
N	6	6	6	8	8	8	10	10	10	10	12	12	12	12	14	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)																			1000	800	640	520	400	360	250	225	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.	螺杆菌程 Ball Screw Lead	行程 Stroke	直线导轨滑块数量 Block Quantity	马达方向 Motor Mounting Position	辅助滑块 Auxiliary Block	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	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	未填写:单滑块 DB: 辅助滑块	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 No Mark: NoSensor	

注:辅助滑块选项相关参数参见样本P219.

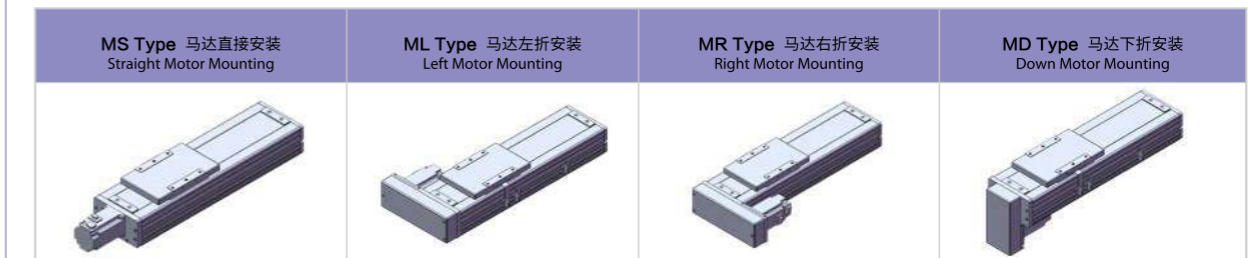


最大动力和力矩 Max Permissible Forces And Torques

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:
 $F_y \max + F_z \max + M_x \max + M_y \max + M_z \max \leq 1$

马达安装方向 Motor Mounting Position Version



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				
	螺杆菌程 Ball Screw Lead (mm)	5	10	16	20	
	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)	100	80	60	45
		垂直使用Vertical (kg)	50	30	22	16
	定格推力 Rated Thrust (N)	683	341	213	174	
	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				
	滚珠螺杆菌外径 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 × 91				
	原点感应器 Home Sensor	EE-SX672(NPN)				

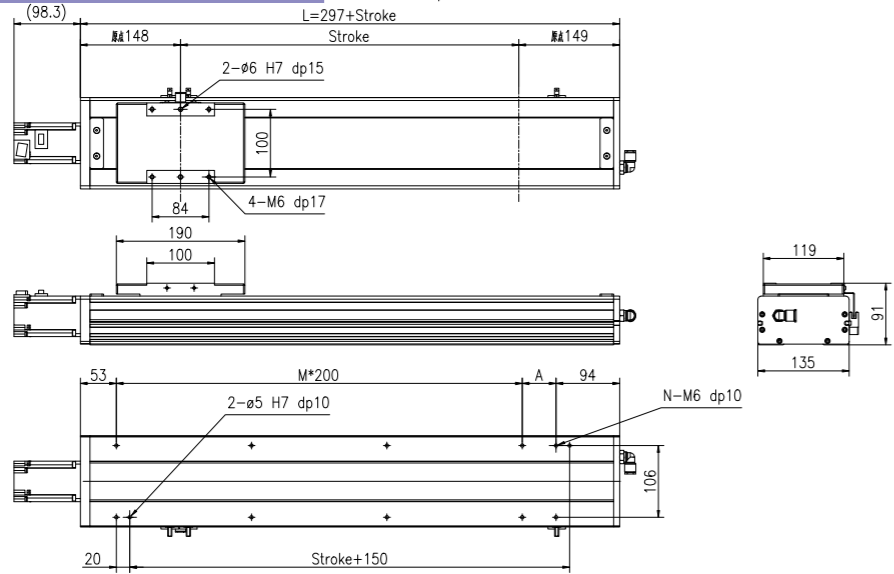
#注1:行程超过900mm时,可能会产生严重的共振现象,此时应参考图纸下侧表格所对应的速度。
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。
#Note 2:Date changes relevantly according to different torque and accelerated 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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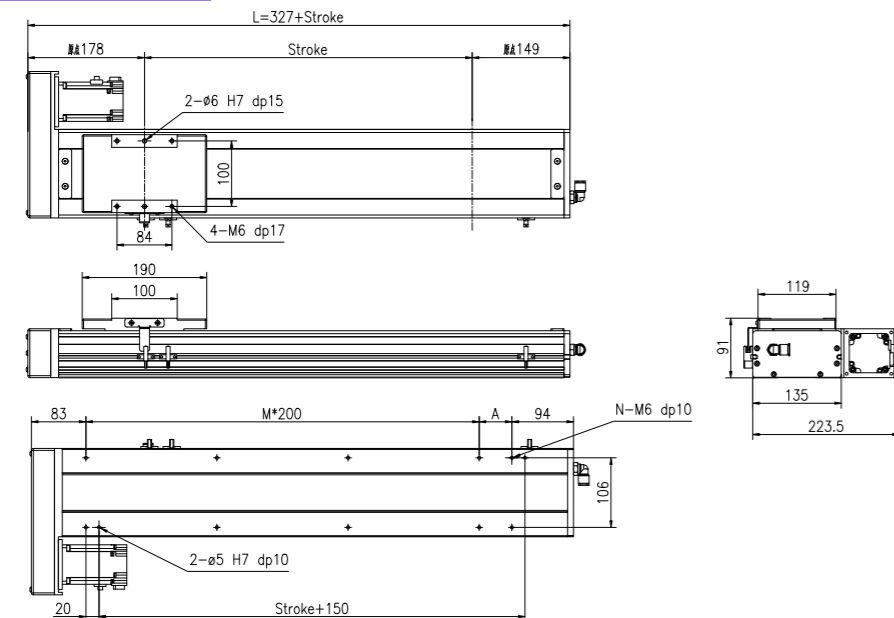
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	414	464	514	564	614	664	714	764	814	864	914	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	1464	1514	1564
A	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	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	14	14	14	14	16	16	16	16	16	18
重量 Weight (kg)	7.6	8.1	8.6	9.0	9.5	10.0	10.5	10.9	11.4	11.9	12.4	12.8	13.3	13.8	14.3	14.7	15.2	15.7	16.2	16.6	17.1	17.6	18.1	18.5
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.

YSC135G-4P-ML 马达左折安装 Left 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	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577
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	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	14	14	14	14	16	16	16	16	16
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。

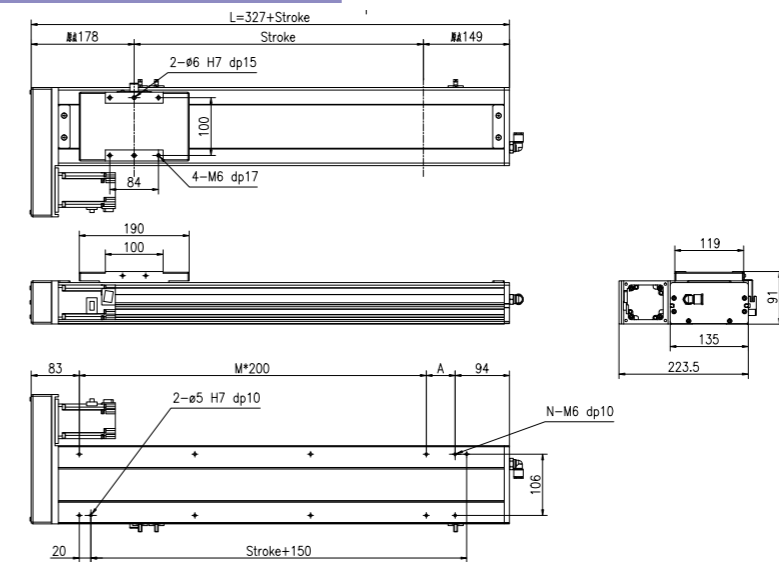
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

亚标全密式螺杆驱动型 YSC 135G

Sub-standard full-tight screw drive type

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

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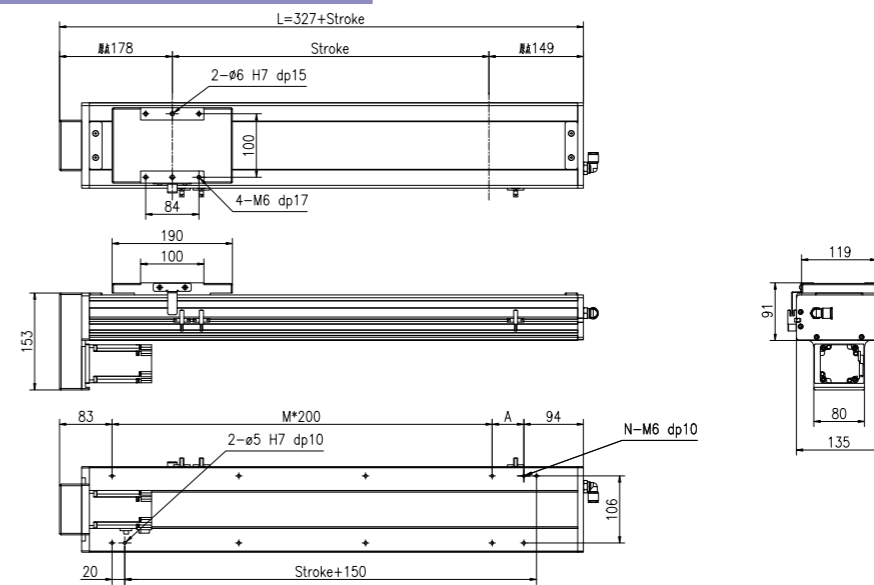
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577
A	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17
M	1	1	1	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	14	14	14	14	16	16	16	16	16
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.

YSC135G-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	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577
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	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	14	14	14	14	16	16	16	16	16
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。

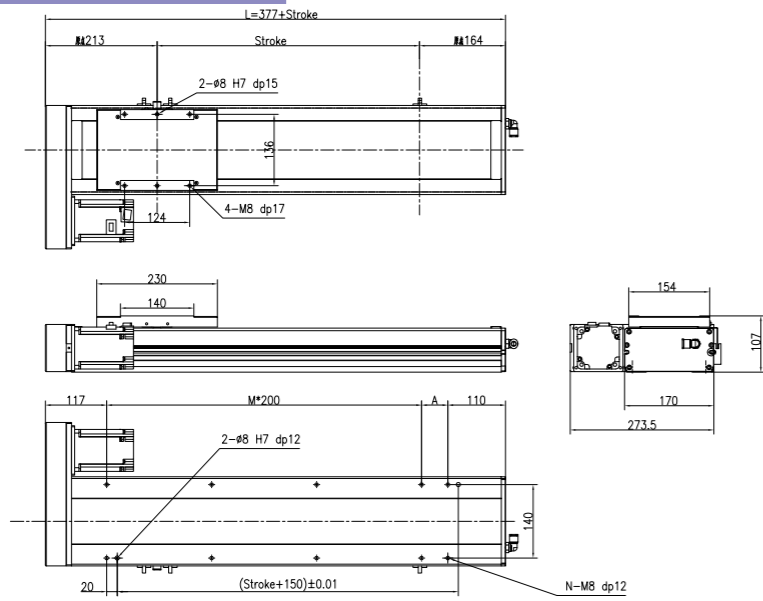
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

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

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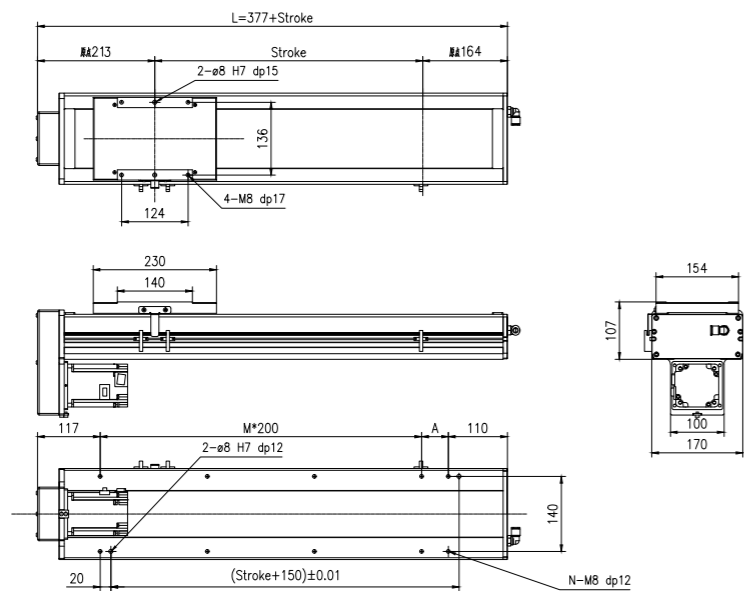


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	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			
导程 Pitch 40																		2000						
导程 Pitch 20																		1000						
导程 Pitch 10																		500						
导程 Pitch 05																		250						
																		400	325	250	225			
																		200	162.5	125	112.5			

#注1:行程超过850mm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 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

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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	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			
导程 Pitch 40																		2000						
导程 Pitch 20																		1000						
导程 Pitch 10																		500						
导程 Pitch 05																		250						
																		400	325	250	225			
																		200	162.5	125	112.5			

#注1:行程超过850mm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 850mm, 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

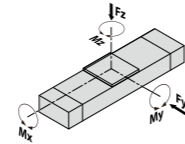
YTO135	500	DB	4P	D01	M40	P3	A001
本体型号 Item NO.	行程 Stroke 100-4000, 间隔Gap100	辅助滑块 Accessory Block 未填写:单滑块 DB:辅助滑块	直线导轨滑块数量 Block Quantity 4P	马达方向 Motor Mounting Positon	马达厂牌、功率 Motor Brand、Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order
				D01 D02 D03 D04 D05 D06 D07 D08 D09	M 三菱 Mitsubishi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

注:辅助滑块选项相关参数参见样本P219.



最大动力和力矩

Max Permissible Forces And Torques

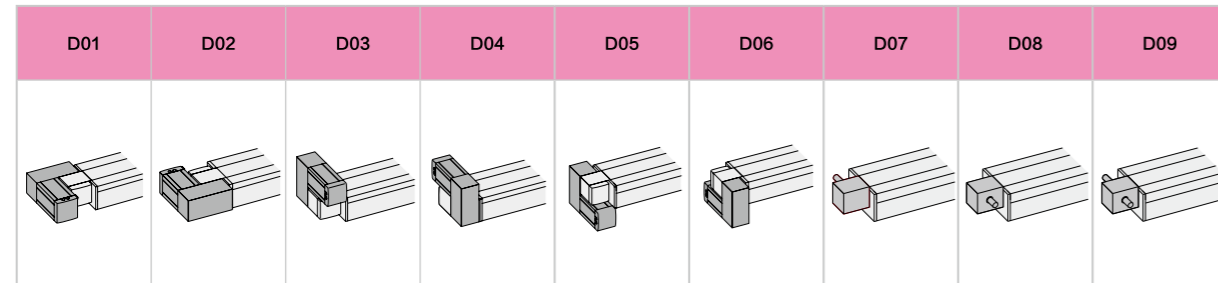


Type	4P
■F(y) (N)	5370
■F(z) (N)	5370
■M(x) (N·m)	142
■M(y) (N·m)	104
■M(z) (N·m)	346

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 × 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 relevently according to different torque and accelerated speed.Please refer to the LIMON calculate software.

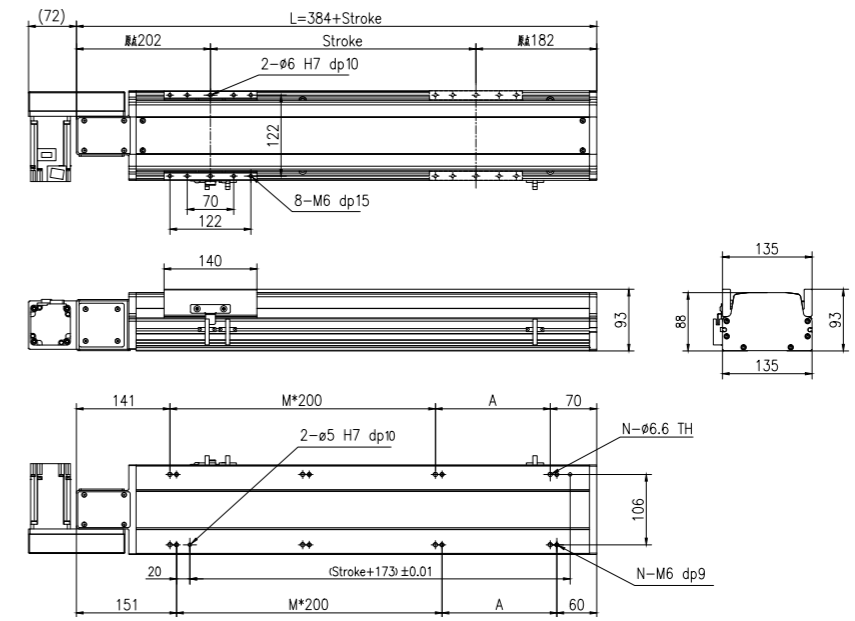
#注2:皮带轮原始导程为110mm,标准品默认附减速机,减速后导程为50mm。

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

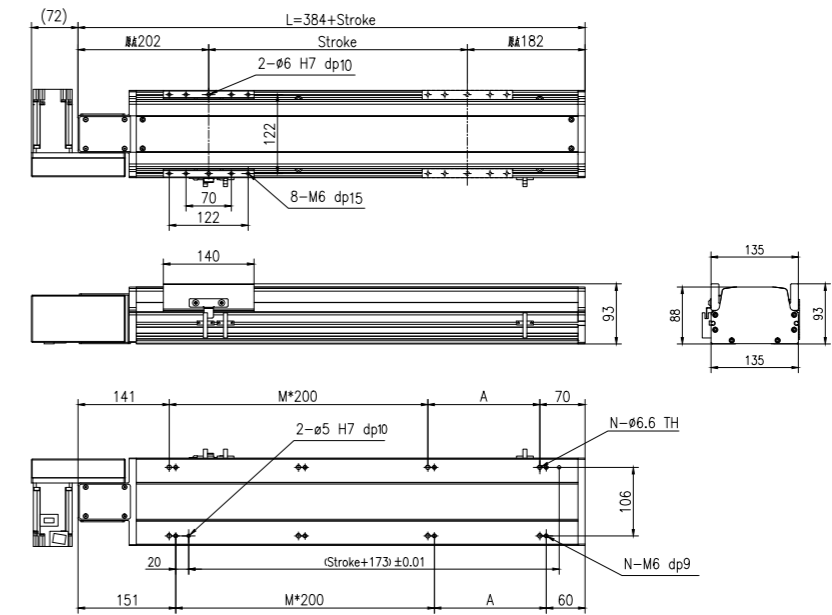
Sub-standard semi-dense synchronous belt drive type

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) <th>2100</th> <th>2200</th> <th>2300</th> <th>2400</th> <th>2500</th> <th>2600</th> <th>2700</th> <th>2800</th> <th>2900</th> <th>3000</th> <th>3100</th> <th>3200</th> <th>3300</th> <th>3400</th> <th>3500</th> <th>3600</th> <th>3700</th> <th>3800</th> <th>3900</th> <th>4000</th>	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

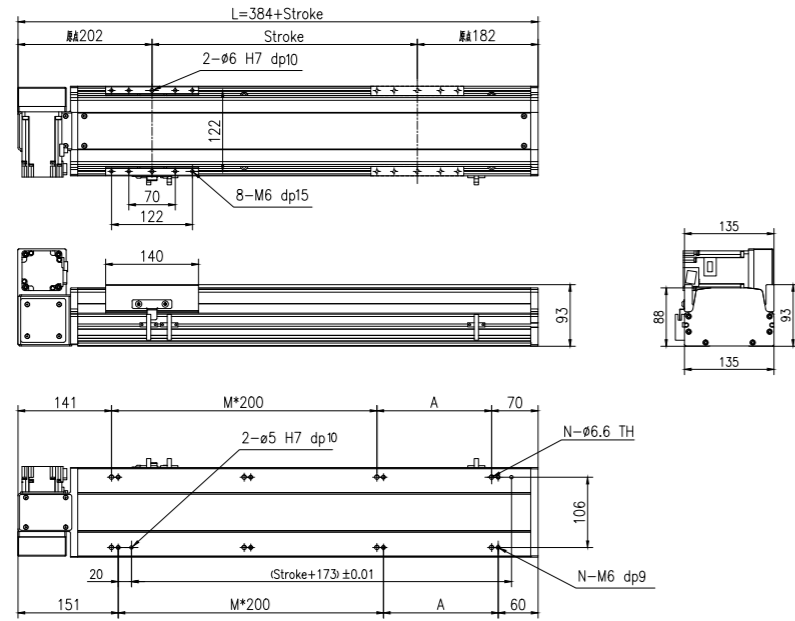


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	1	1	2	2	3	3	4	4	5	5	6	6	7	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) <th>2100</th> <th>2200</th> <th>2300</th> <th>2400</th> <th>2500</th> <th>2600</th> <th>2700</th> <th>2800</th> <th>2900</th> <th>3000</th> <th>3100</th> <th>3200</th> <th>3300</th> <th>3400</th> <th>3500</th> <th>3600</th> <th>3700</th> <th>3800</th> <th>3900</th> <th>4000</th>	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 亚标半密式同步带驱动型

Sub-standard semi-dense synchronous belt drive type

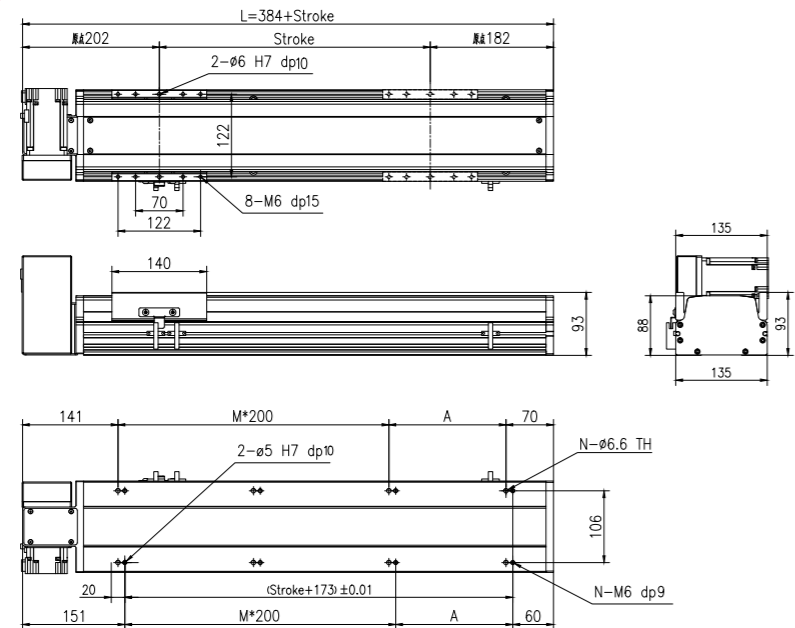
YTO135-4P-D03



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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	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-D04



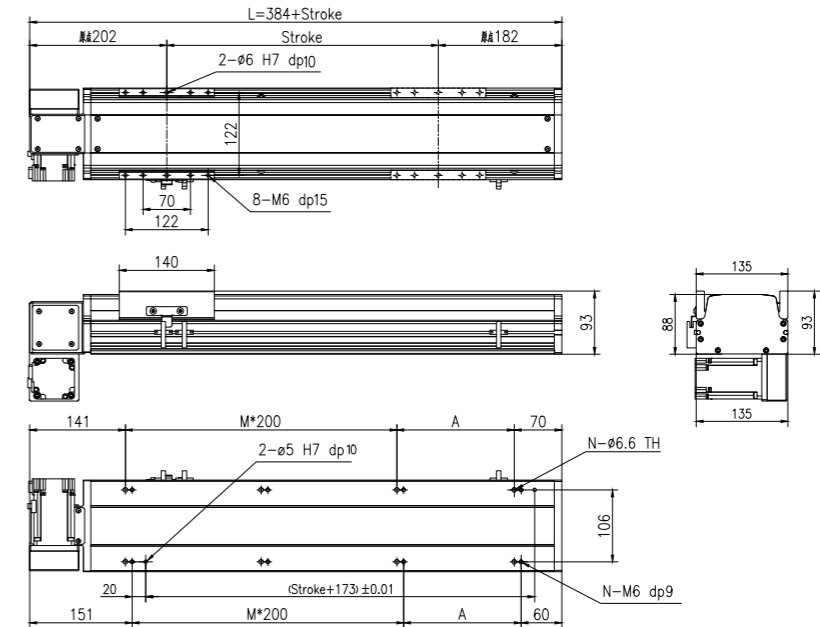
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	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

亚标半密式同步带驱动型 YTO135

Sub-standard semi-dense synchronous belt drive type

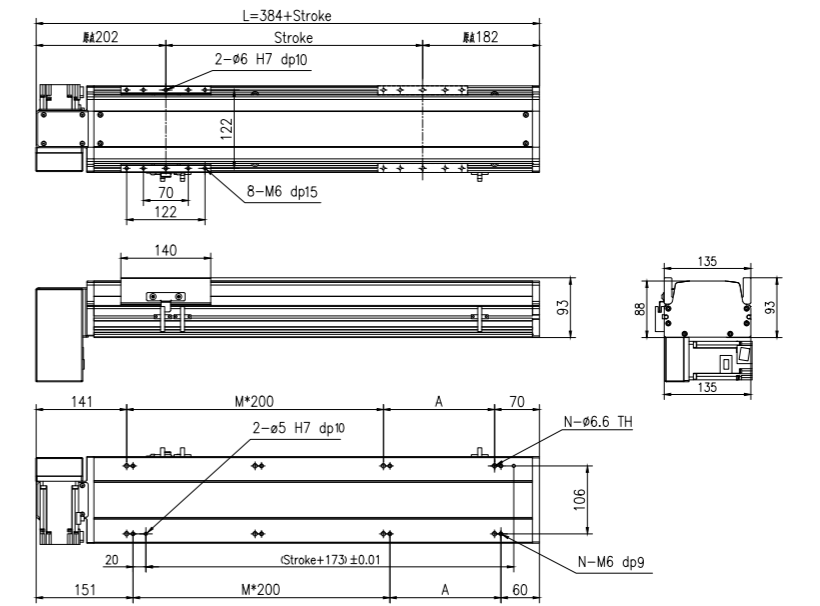
YTO135-4P-D05



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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	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-D06



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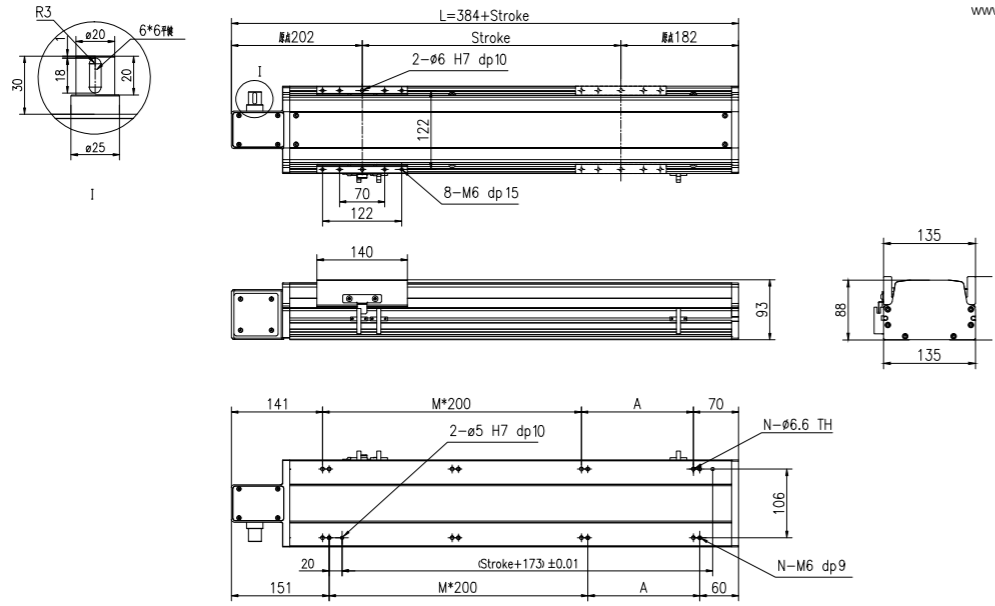
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	1	1	2	2	3	3	4	4	5	5	6	6	7	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 亚标半密式同步带驱动型

Sub-standard semi-dense synchronous belt drive type

YTO135-4P-D07

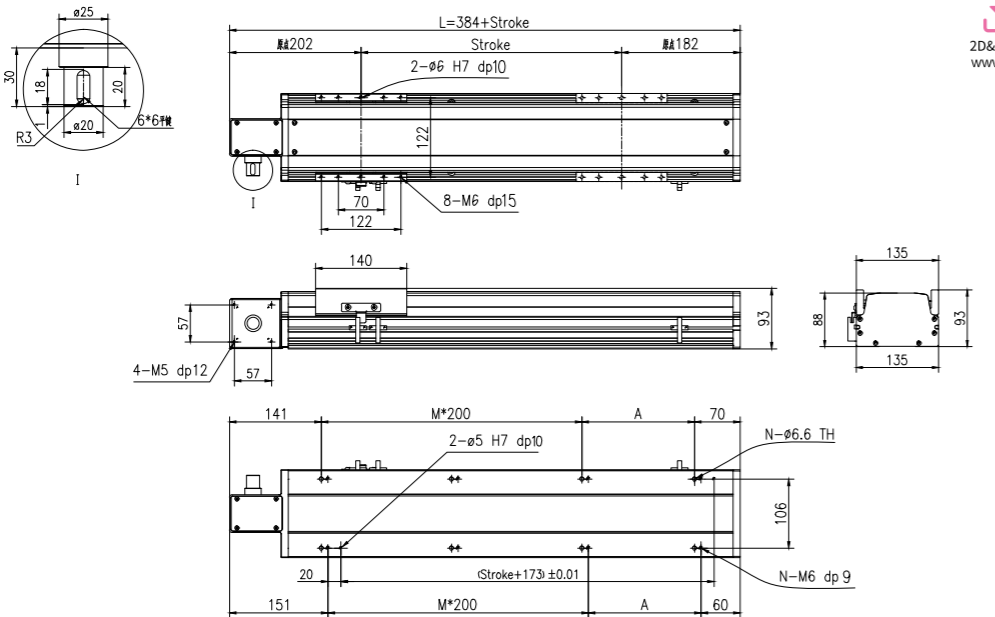
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	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-D08

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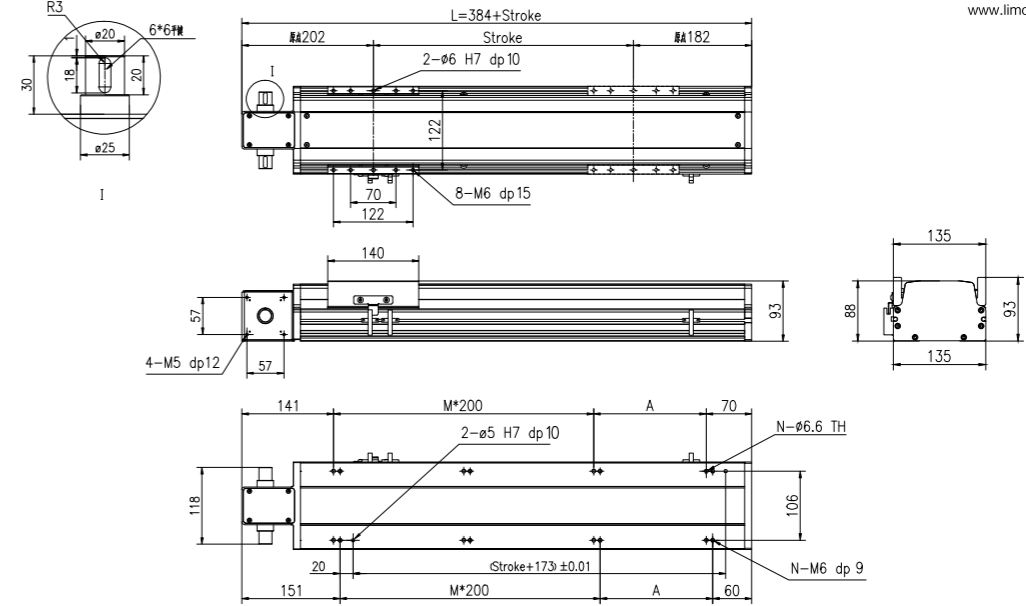
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	1	1	2	2	3	3	4	4	5	5	6	6	7	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

亚标半密式同步带驱动型 YTO135

Sub-standard semi-dense synchronous belt drive type

YTO135-4P-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	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

YTO170 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

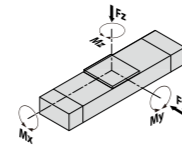
YTO170	500	DB <small>注</small>	4P	D01	M40	P3	A001
本体型号 Item NO.	行程 Stroke	辅助滑块 Auxiliary Block	直线导轨滑块数量 Block Quantity	马达方向 Motor Mounting Position	马达厂牌、功率 Motor Brand、Power Output	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	100-4000,间隔Gap100	未填写:单滑块 DB 辅助滑块	4P	D01 D02 D03 D04 D05 D06 D07 D08 D09	M 三菱 Mitsubishi 10 P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台达 Delta 75 1K	P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 No Mark: No Sensor	

注:辅助滑块选项相关参数参见样本P219.



最大动态力和力矩

Max Permissible Forces And Torques

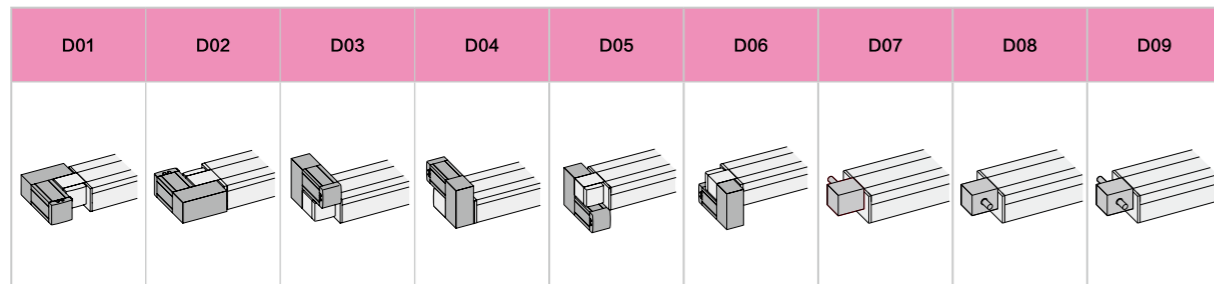


Type	4P
■ F(y) (N)	7463
■ F(z) (N)	7463
■ M(x) (N·m)	339
■ M(y) (N·m)	178
■ M(z) (N·m)	742

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

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	水平使用Horizontal (kg) 45 垂直使用Vertical (kg) 20
基本 规格 Basic Specification	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
	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 × 108	
原点传感器 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.

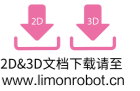
#注2:皮带轮原始导程为100mm,标准品默认附减速机,减速后导程为40mm。

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

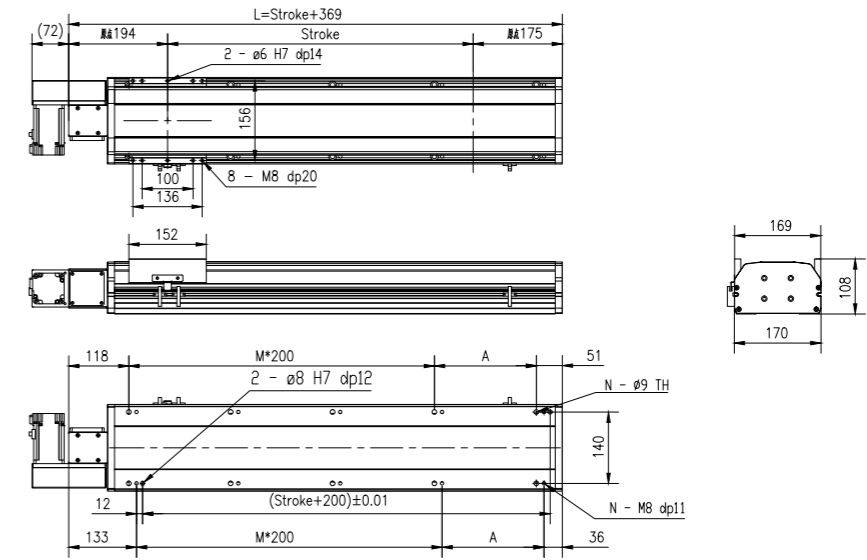
亚标半密式同步带驱动型 YTO170

Sub-standard semi-dense synchronous belt drive type

YTO170-4P-D01

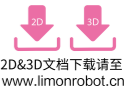


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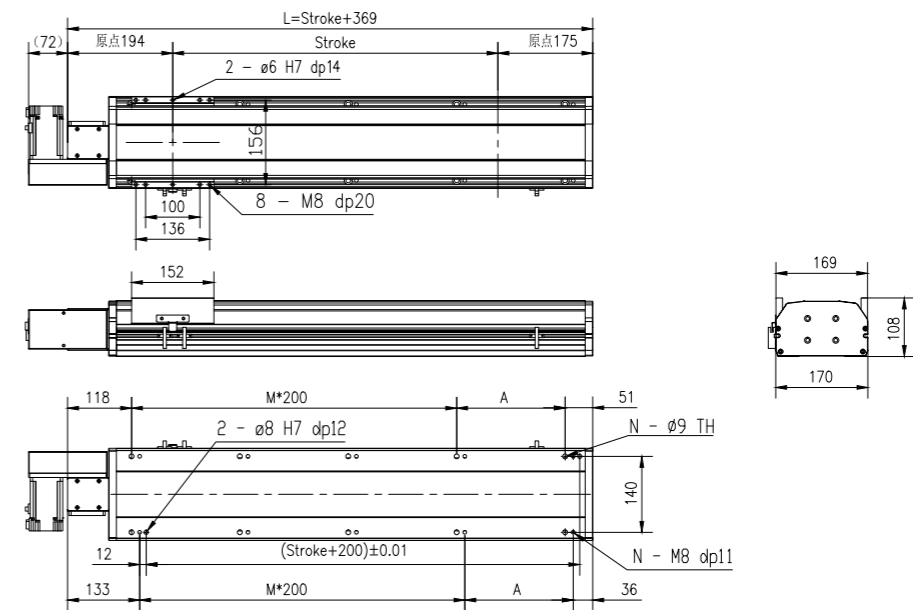


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	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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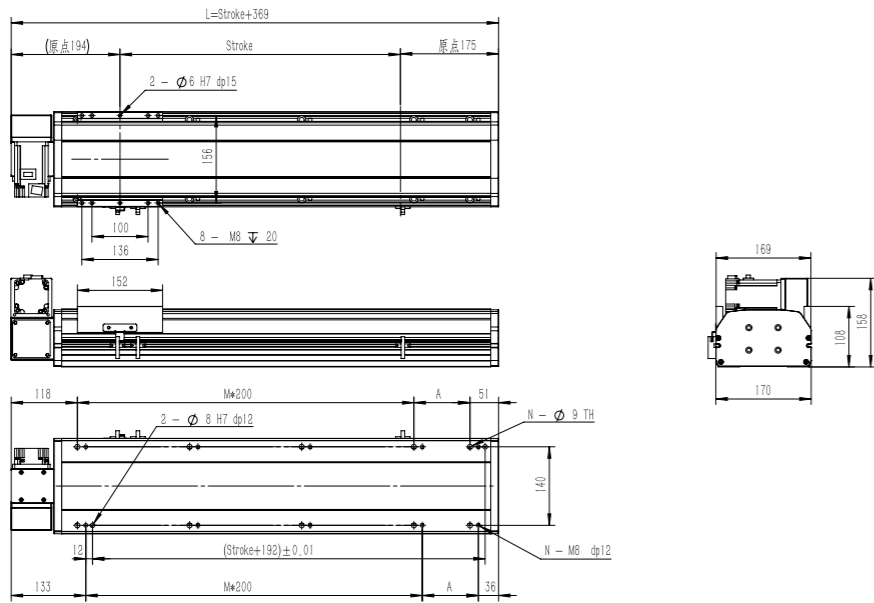
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	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

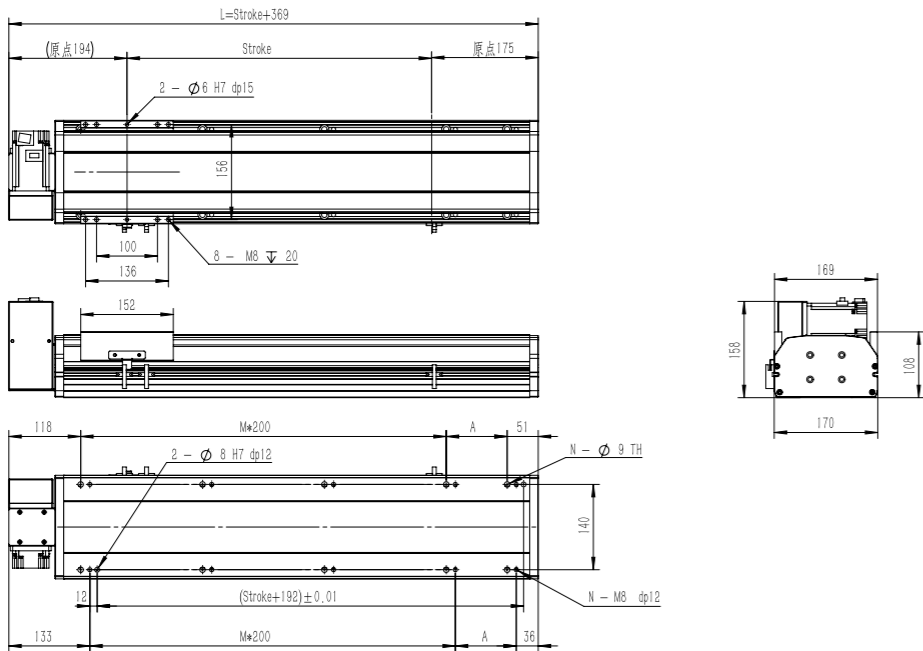
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	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-D04

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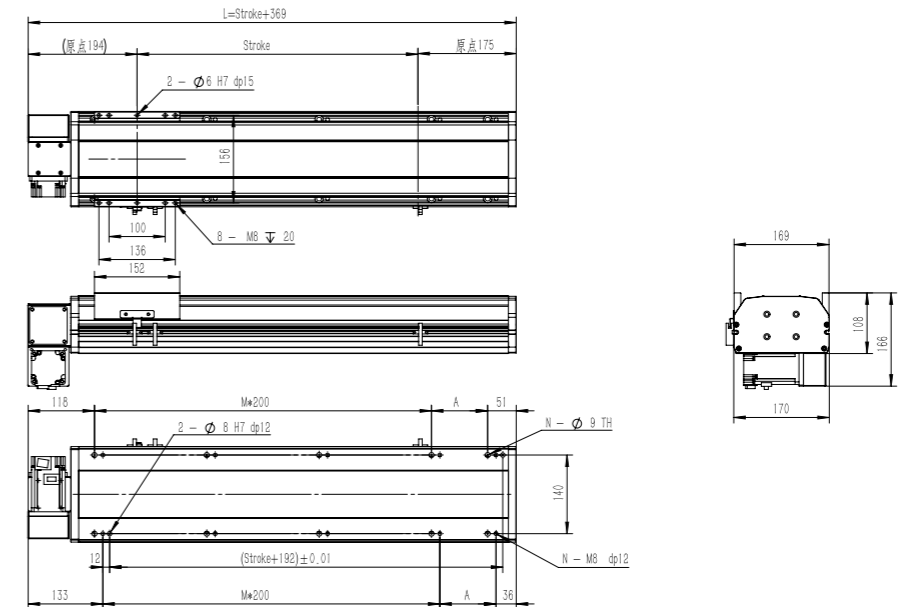
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	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-D05

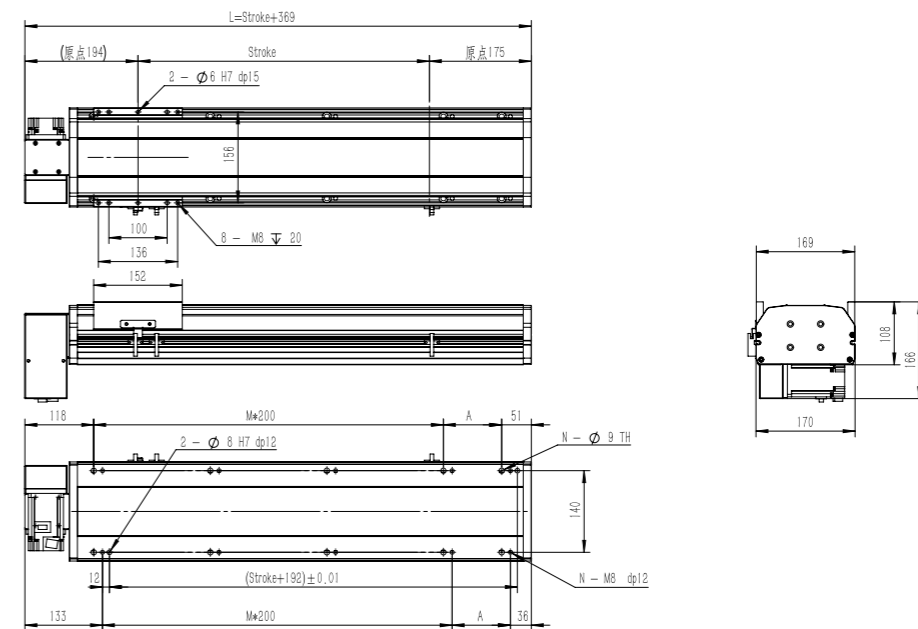
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	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

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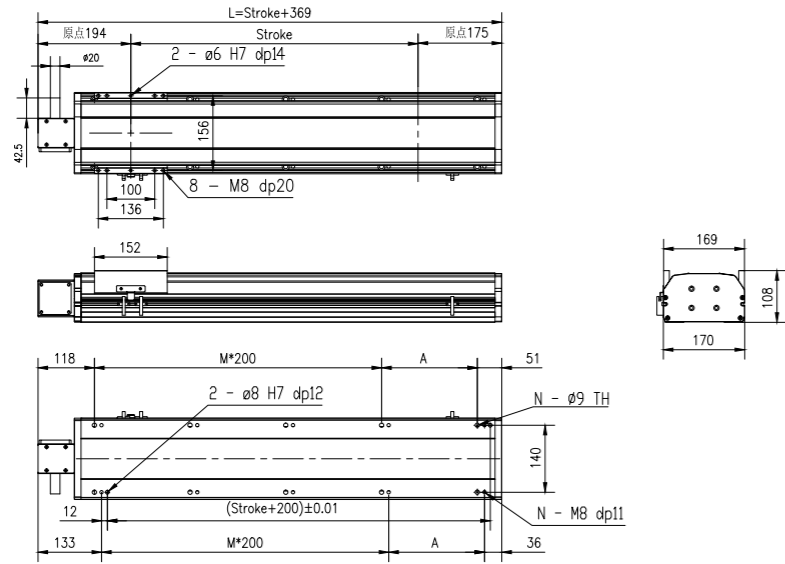
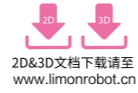


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	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

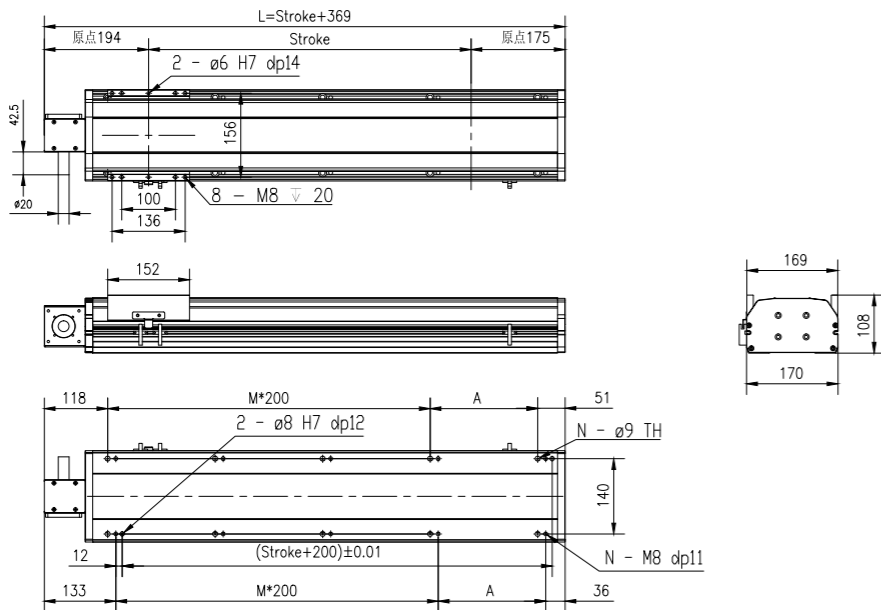
Sub-standard semi-dense synchronous belt drive type

YTO170-4P-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

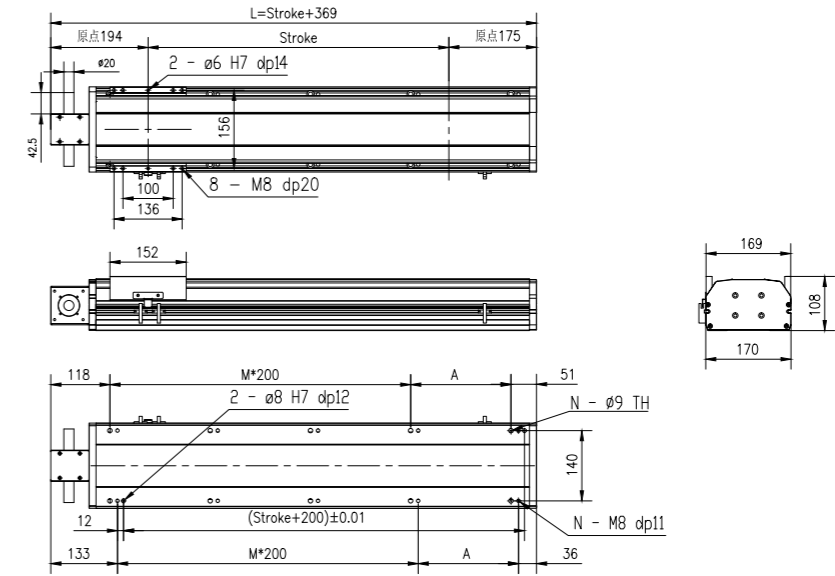
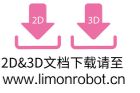


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	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

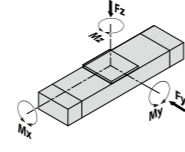
YTO220 - 500 - DB - 4P - D01 - M75 - P3 - A001

本体型号 Item NO.	行程 Stroke	辅助滑块 Auxiliary Block	直线导轨滑块数量 Block Quantity	马达方向 Motor Mounting Position	马达厂牌、功率 Motor Brand, Power Output	限位传感器数量 Photoelectric Sensor	特法式样 Special Order No.
100-3050,间隔Gap50		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 - 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 No Mark/No Sensor	

注:辅助滑块选项相关参数参见样本P219.



最大动力和力矩 Max Permissible Forces And Torques

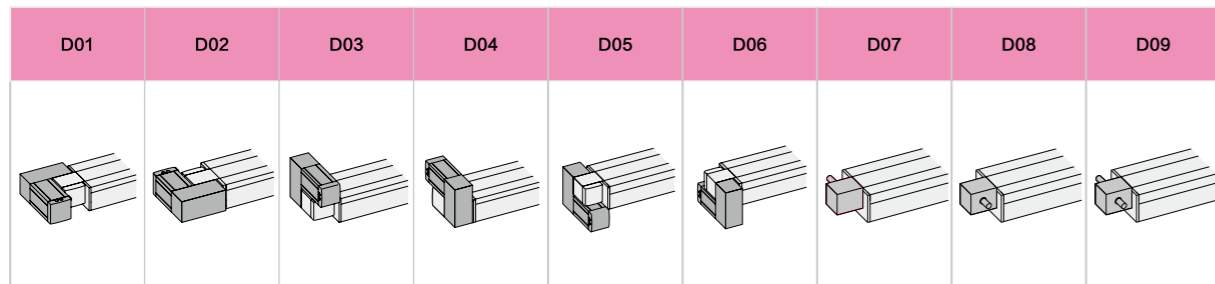


Type	4P
■F(y) (N)	10333.3
■F(z) (N)	10333.3
■M(x) (N·m)	2052
■M(y) (N·m)	2052
■M(z) (N·m)	1810

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:

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

马达安装方向 Motor Mounting Position Version



基本规格 Basic Specification

YTO 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	水平使用Horizontal (kg) 90 垂直使用Vertical (kg) 40
	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)	100-3050 mm/ 50 Pitch
	AC伺服马达容量 AC Servo Motor Output (W)	750
	高刚性直線滑軌 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	
原贴传感器 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 acclerated speed.Please refer to the LIMON calculate software.

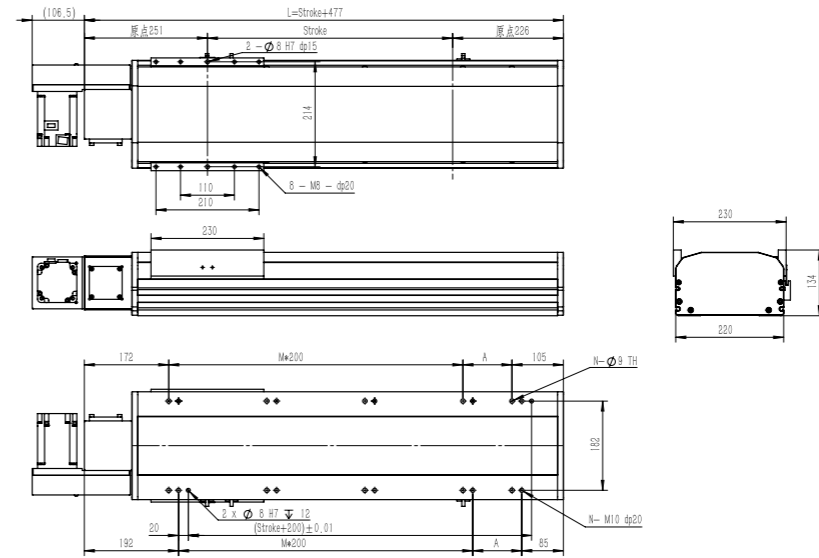
#注2:皮带轮原始导程为100mm,标准品默认附减速机构,减速后导程为40mm。

#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

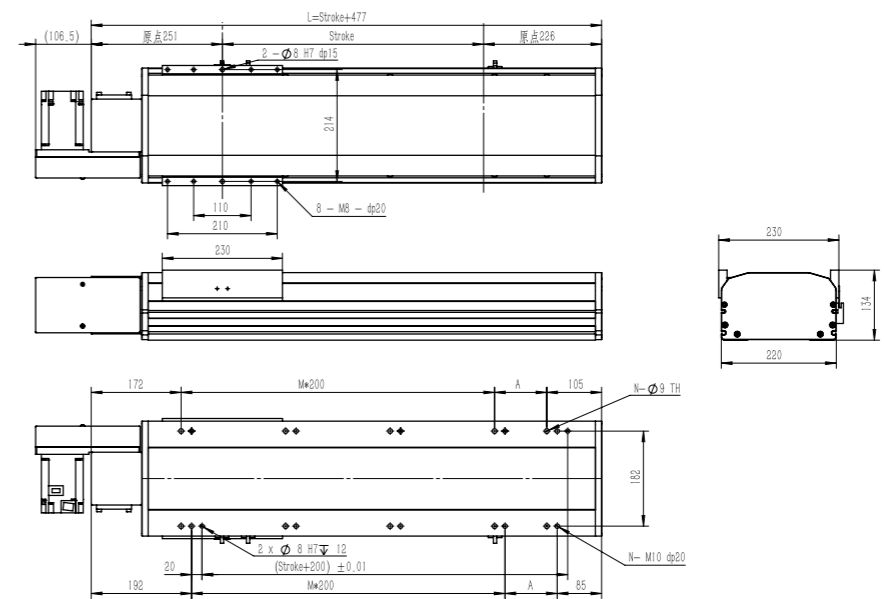
Sub-standard semi-dense synchronous belt drive type

YTO220-D01



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	57.6	58.8	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	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

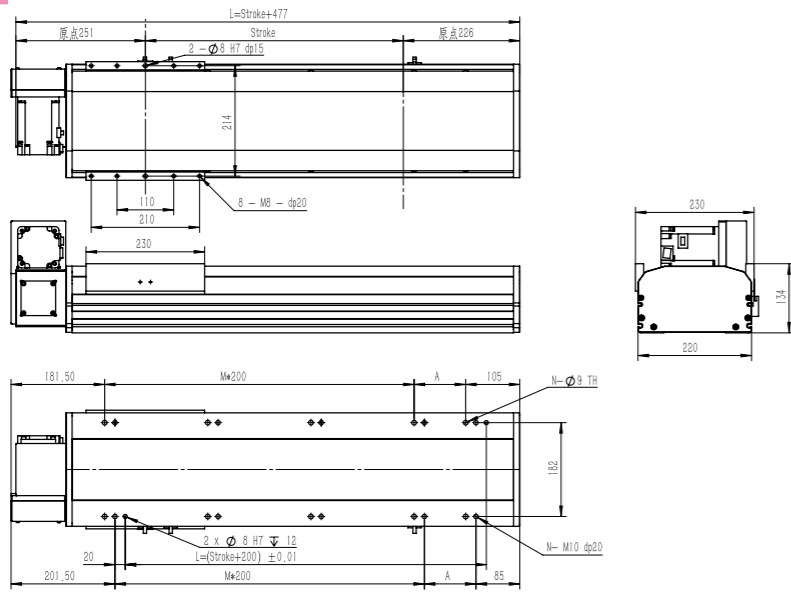


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	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	57.6	58.8	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	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

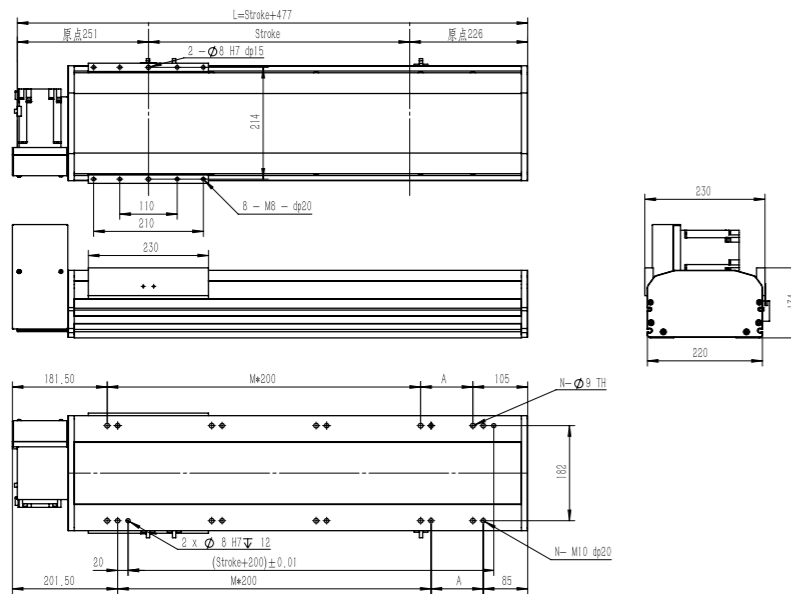
YTO220-D03



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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	2	2	2	2	3	3	3	3	4	4	4	4	5	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	1550
M	8	9	9	9	10	10	10	10	11	11	11	11	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16	16	
N	20	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	36	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-D04



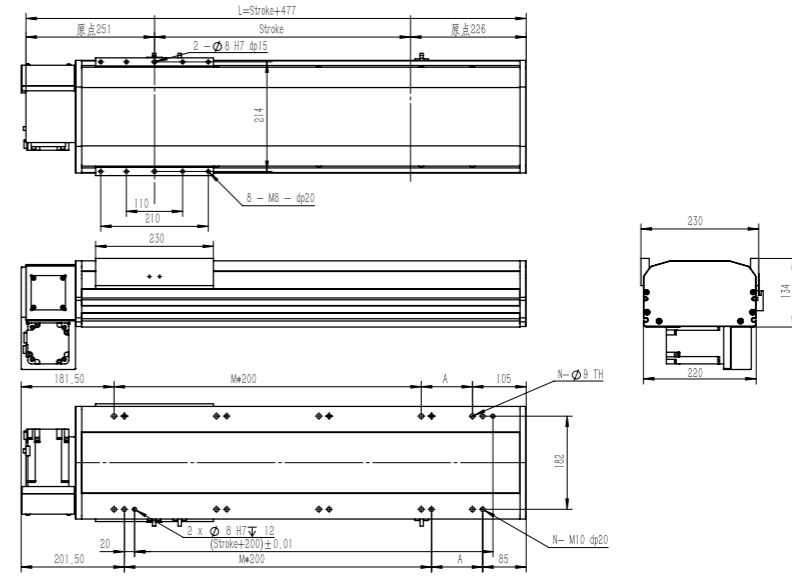
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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	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	2	2	2	2	3	3	3	3	4	4	4	4	5	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	1550
M	8	9	9	9	10	10	10	10	11	11	11	11	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16	16	
N	20	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	36	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

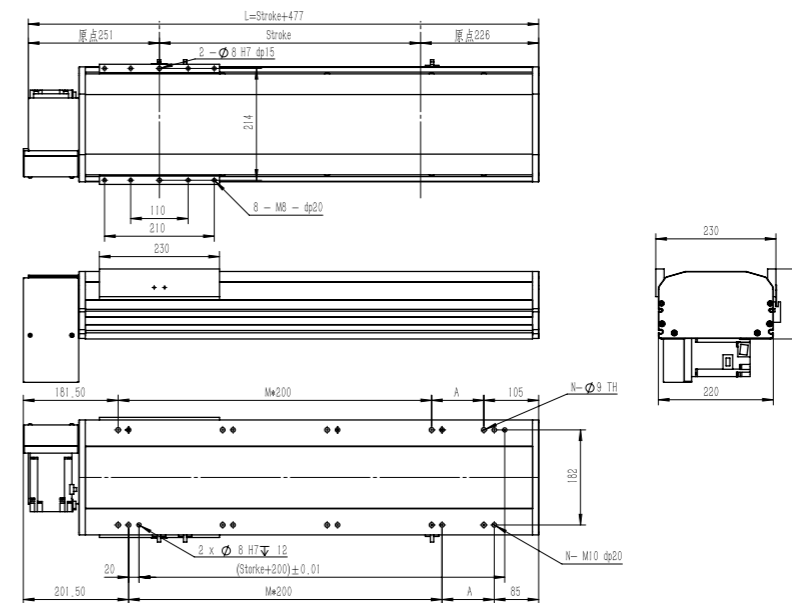
YTO220-D05



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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	2	2	2	2	3	3	3	3	4	4	4	4	5	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	1550
M	8	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	16	16	
N	20	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	36	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-D06



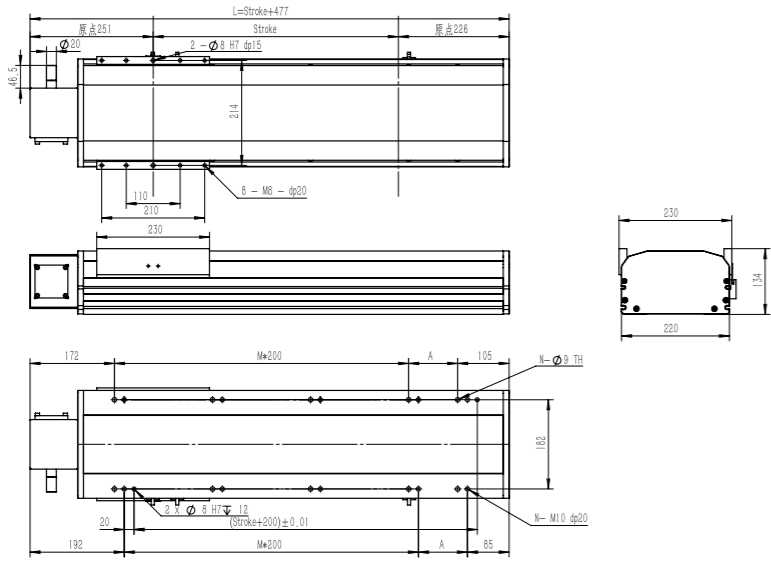
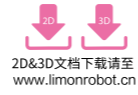
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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	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	2	2	2	2	3	3	3	3	4	4	4	4	5	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																			

YTO 220 亚标半密式同步带驱动型

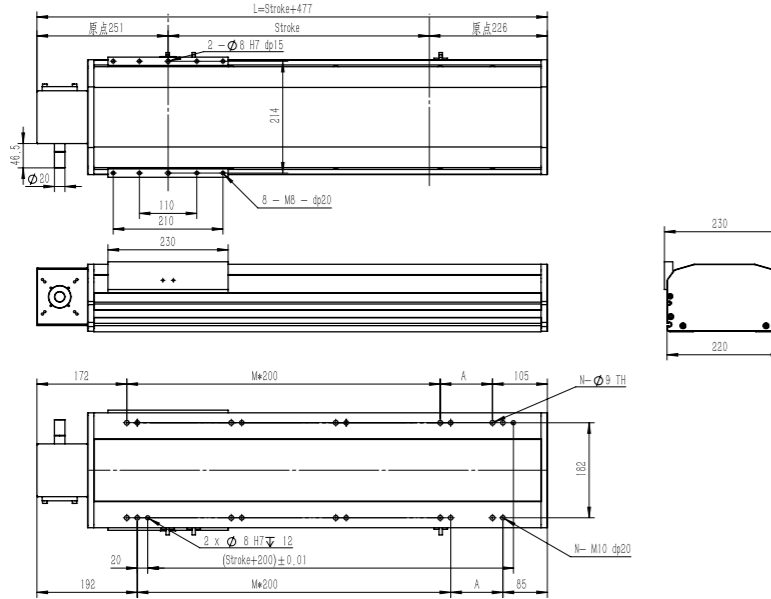
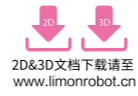
Sub-standard semi-dense synchronous belt drive type

YTO220-D07



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	57.6	58.8	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

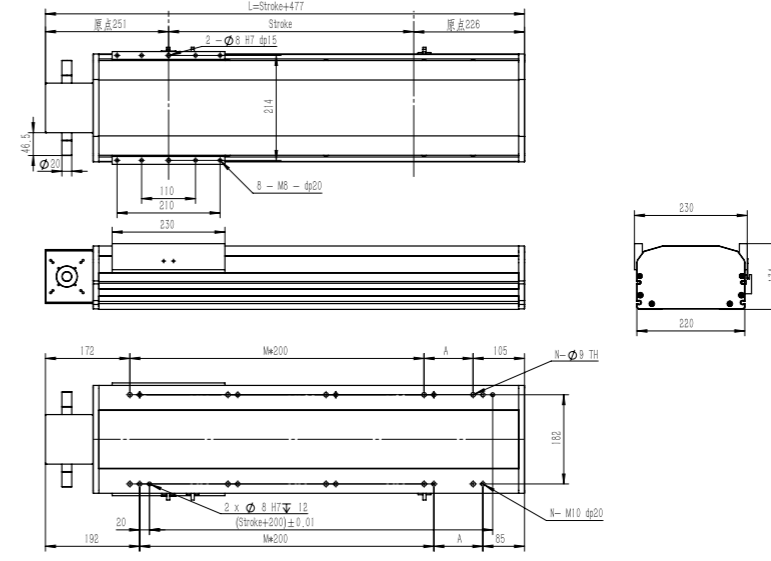
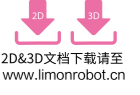


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	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	57.6	58.8	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

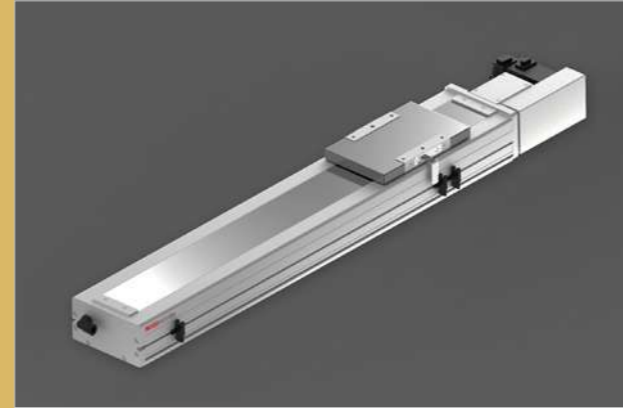
YTO220-D09



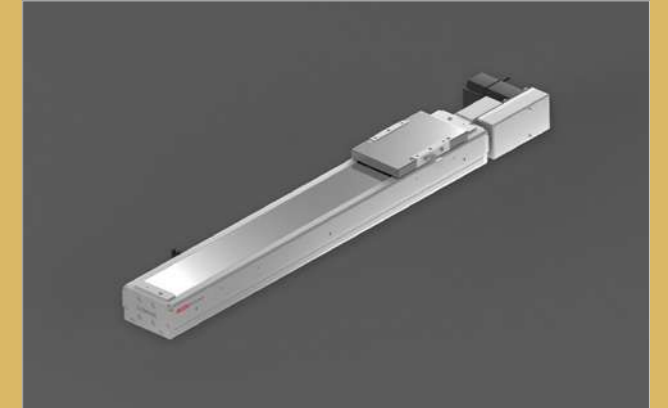
行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	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	57.6	58.8	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	

亚标全密式同步带驱动型

Sub-standard full-density synchronous belt drive type



YTC 135



YTC 170

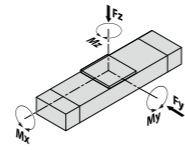
订购型号代码 Code

YTC135	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 Position 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 1PCS P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 NoMark:NoSensor	特注式样 Special Order No.

注:辅助滑块选项相关参数参见样本P219.



最大动力和力矩 Max Permissible Forces And Torques

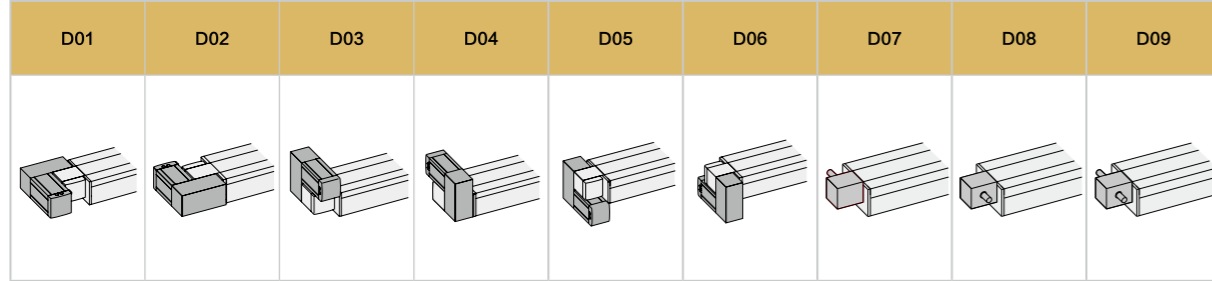


Type	4P
■ F(y) (N)	5370
■ F(z) (N)	5370
■ M(x) (N·m)	142
■ M(y) (N·m)	104
■ M(z) (N·m)	346

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

YTC135		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
基本规格 Basic Specification	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
	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)	15# × 2 PCS
主机截面最大外形 Max Outline of Main Engine's Cross Section (mm)	135 × 91	
原点传感器 Home Sensor	EE-SX672(NPN)	

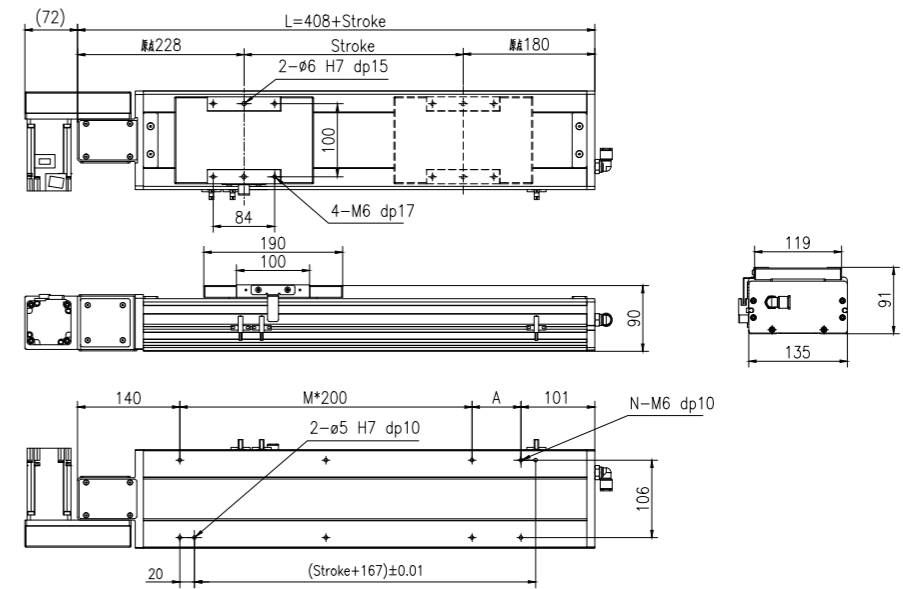
#注1:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。

#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110mm,标准品默认附减速机,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.

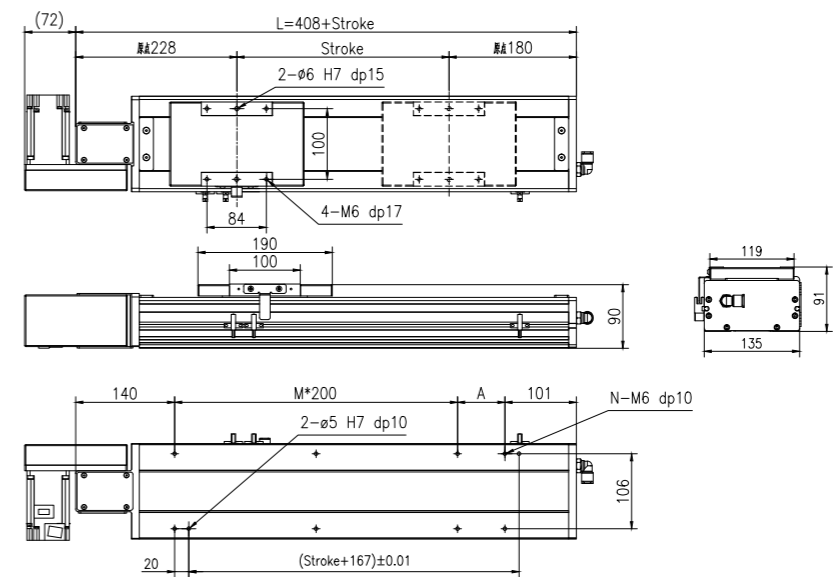
YTC135-4P-D01



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	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

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YTC135-4P-D02



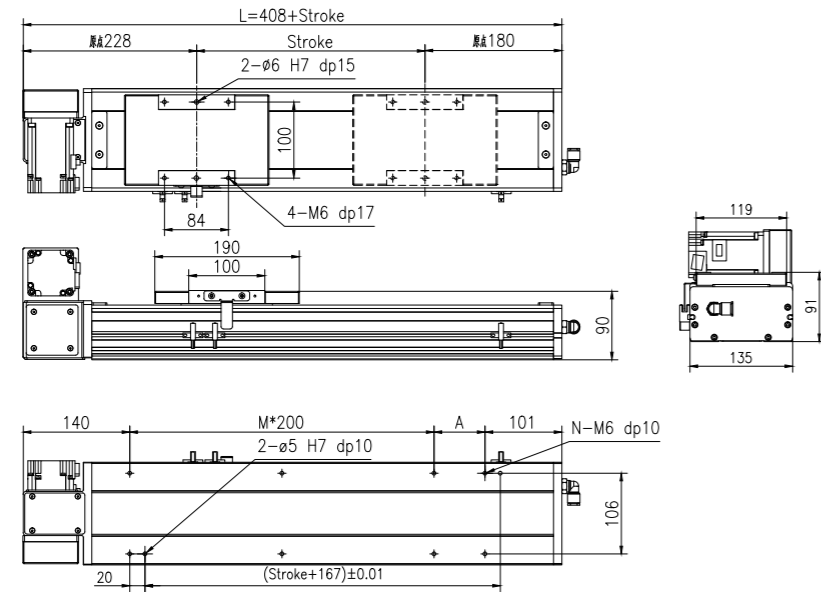
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	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

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YTC135 亚标全密式同步带驱动型

Sub-standard full-density synchronous belt drive type

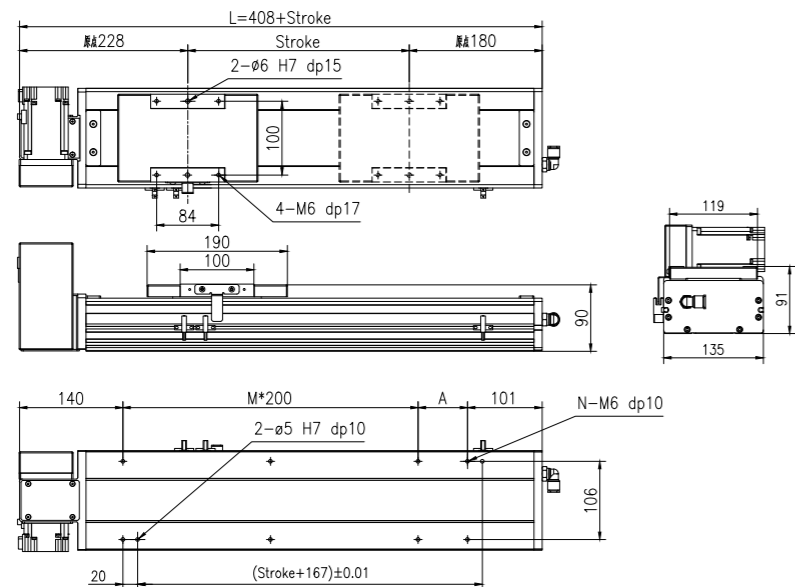
YTC135-4P-D03



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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



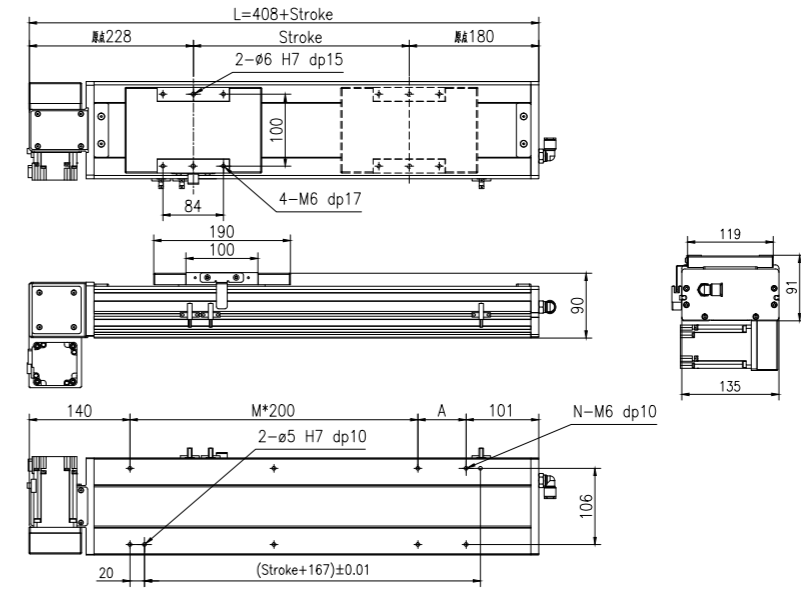
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	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

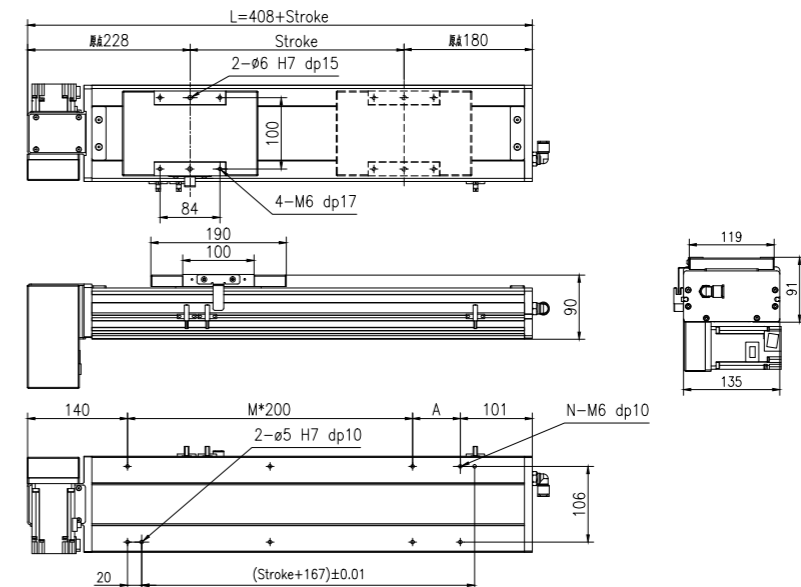
YTC135-4P-D05



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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



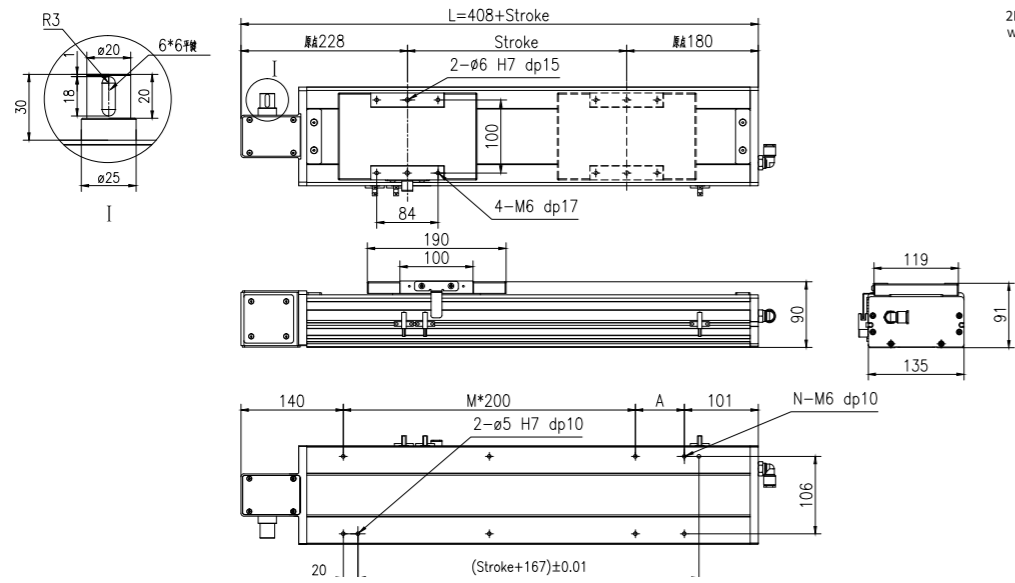
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	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

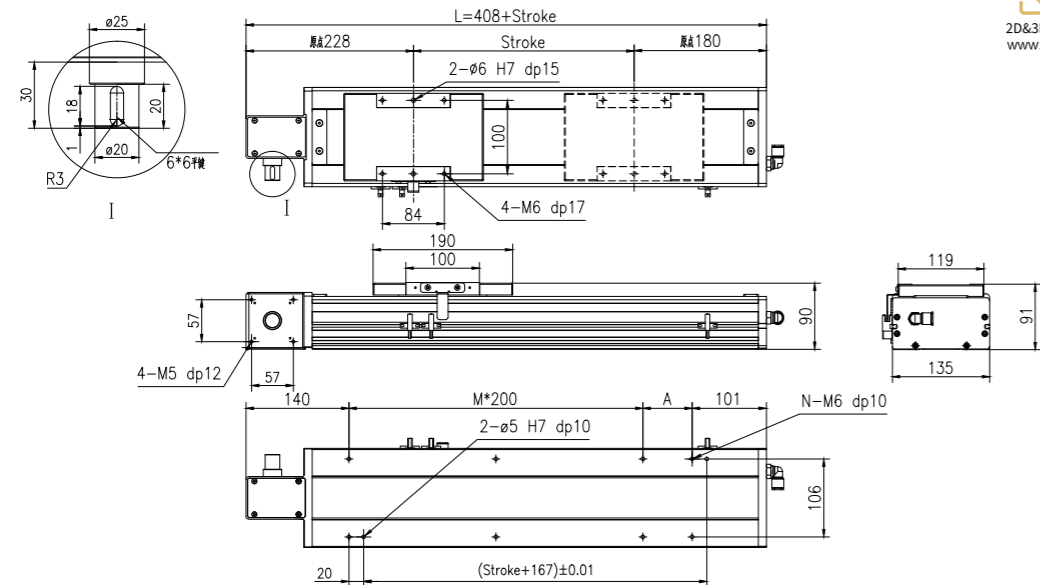
YTC135-4P-D07



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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-D08



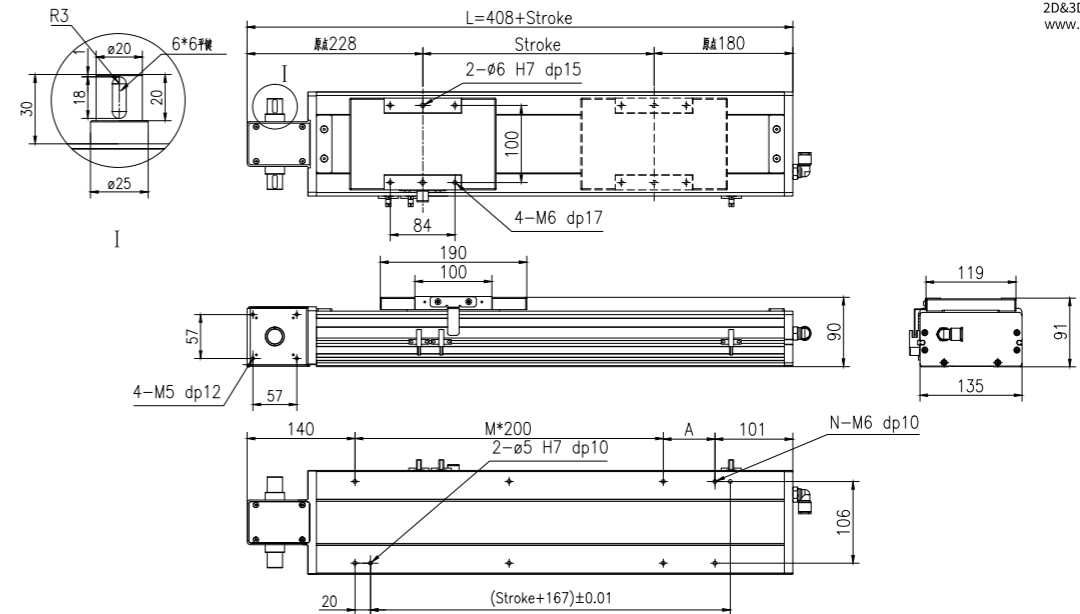
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	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-D09



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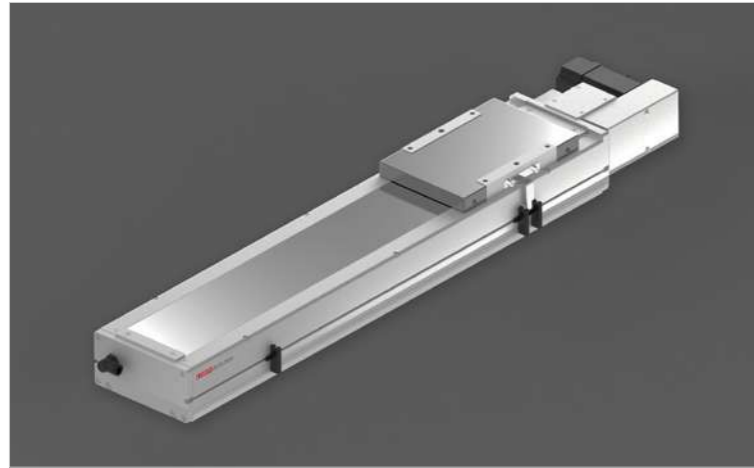
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	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

订购型号代码 Code

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

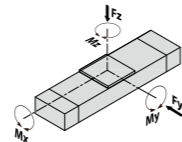
本体型号 Item NO.	行程 Stroke 100-4000, 间隔Gap100	辅助滑块 Auxiliary Block 未填写:单滑块 DB:辅助滑块	直线导轨滑块数量 Block Quantity 4P	马达方向 Motor Mounting Position D01 D02 D03 D04 D05 D06 D07 D08 D09	马达厂牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台达 Delta 75 - 1K -	限位传感器数量 Photoelectric Sensor P1: 1个 1PCS P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 No Mark/No Sensor	特注式样 Special Order No.
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注:辅助滑块选项相关参数参见样本P221



最大动力和力矩

Max Permissible Forces And Torques



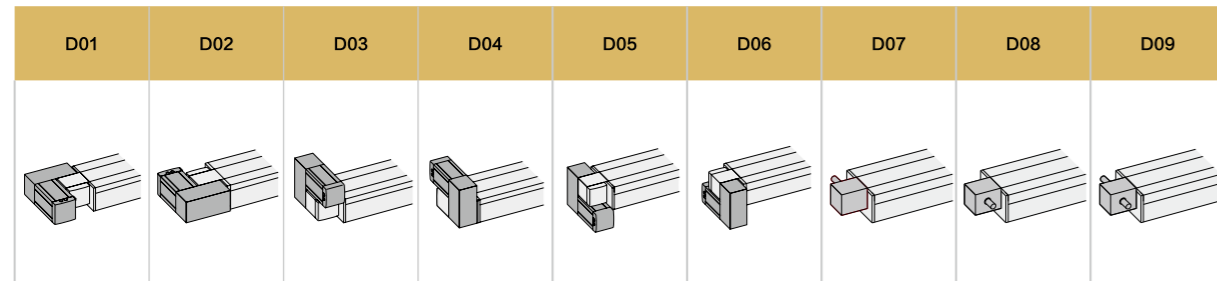
Type	4P
■ F(y) (N)	7463
■ F(z) (N)	7463
■ M(x) (N·m)	339
■ M(y) (N·m)	178
■ M(z) (N·m)	742

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

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 Maximum Payload	水平使用Horizontal (kg)	45
		垂直使用Vertical (kg)	20
	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)	400	
	高刚性直轨滑轨 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	
原点传感器 Home Sensor	EE-SX672(NPN)		

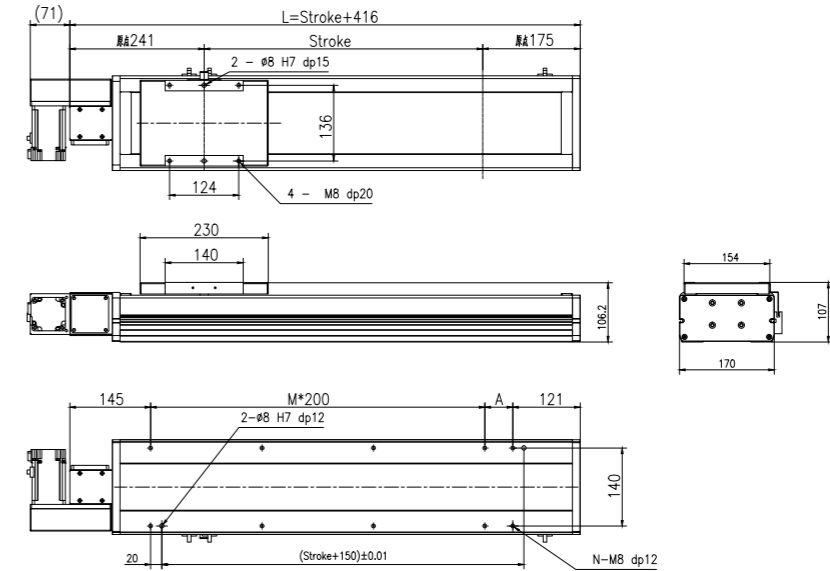
#注1:测定条件为无力矩的理论数据,根据力矩和加速度数据会相应改变,具体请参考选型软件。

#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.

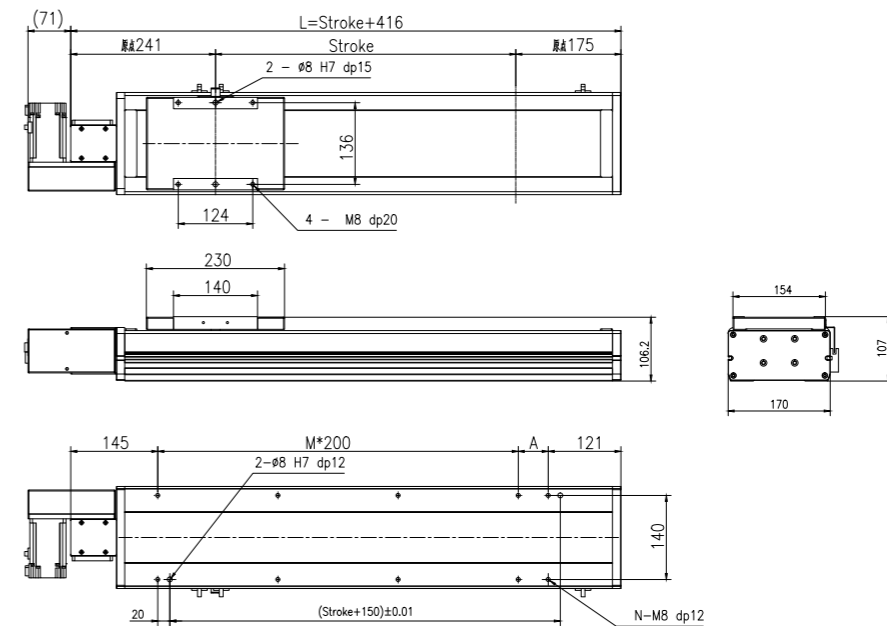
YTC170-4P-D01



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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



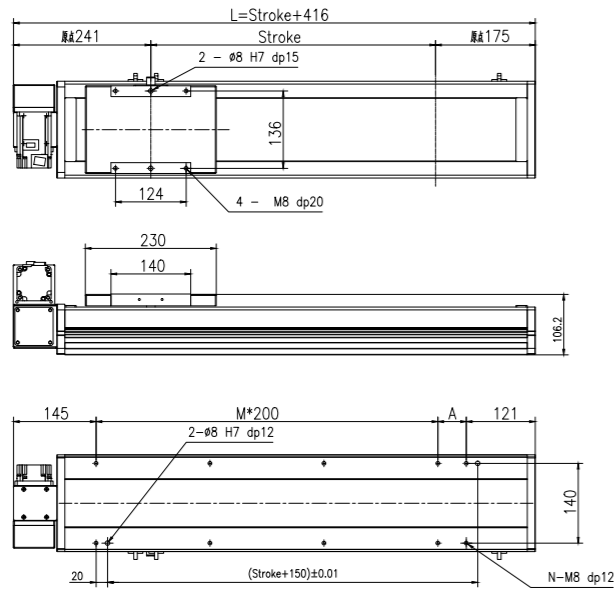
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	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

YTC 170 亚标全密式同步带驱动型

Sub-standard full-density synchronous belt drive type

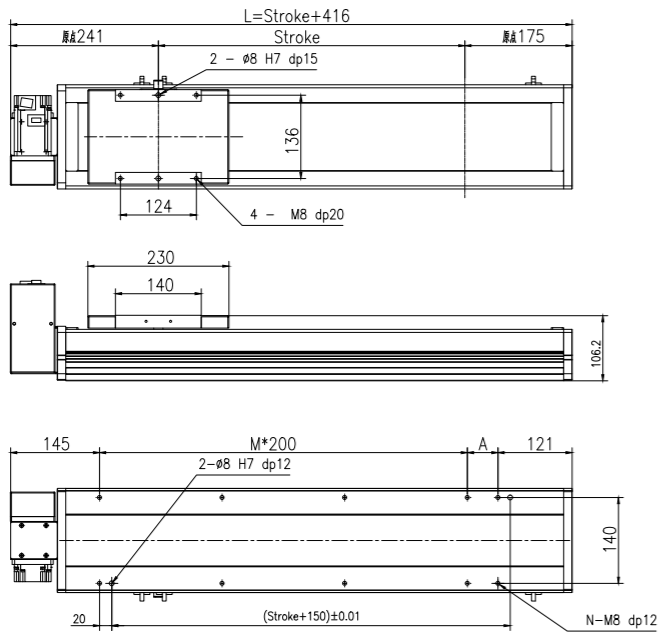
YTC170-4P-D03



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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



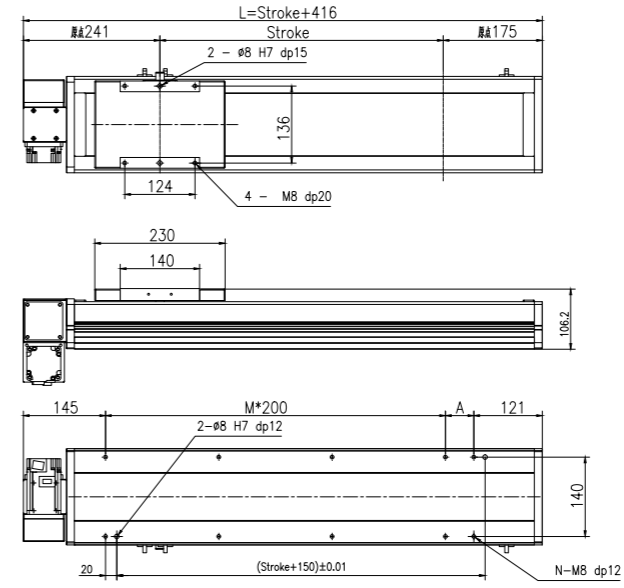
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	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

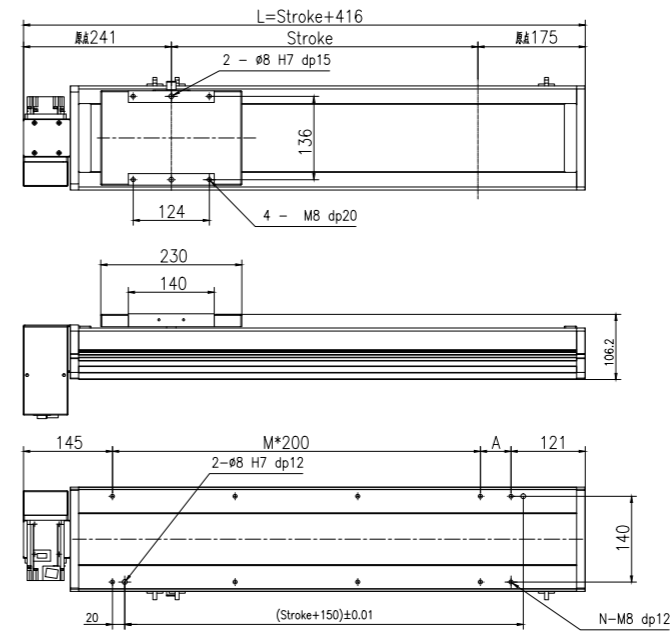
YTC170-4P-D05



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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



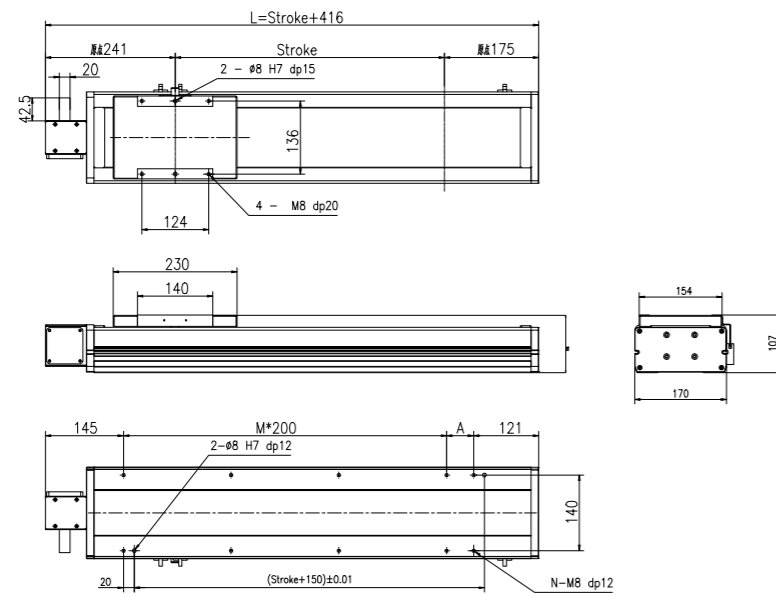
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	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

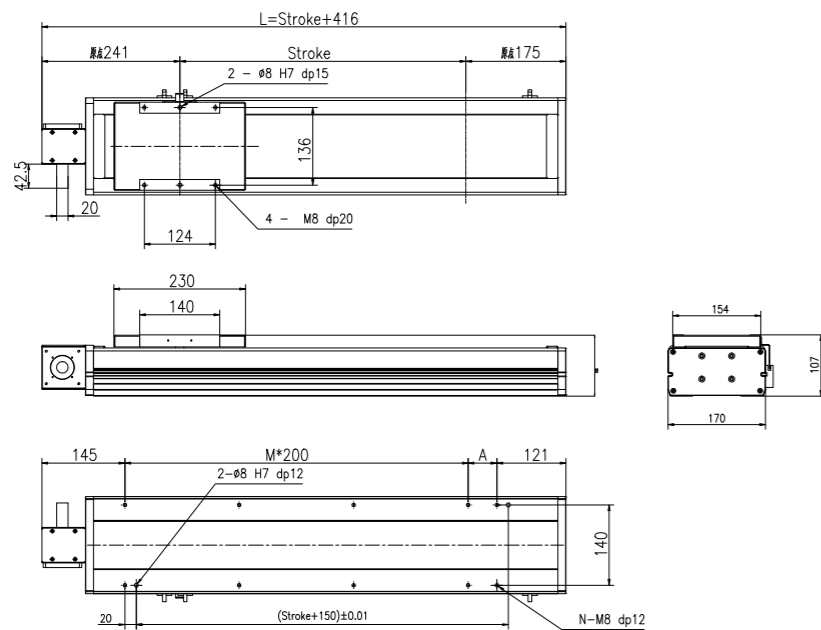
YTC170-4P-D07



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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



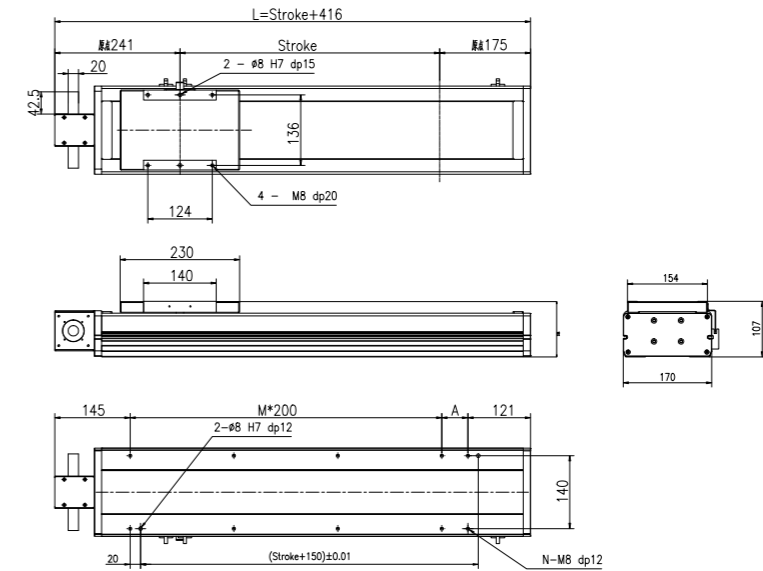
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	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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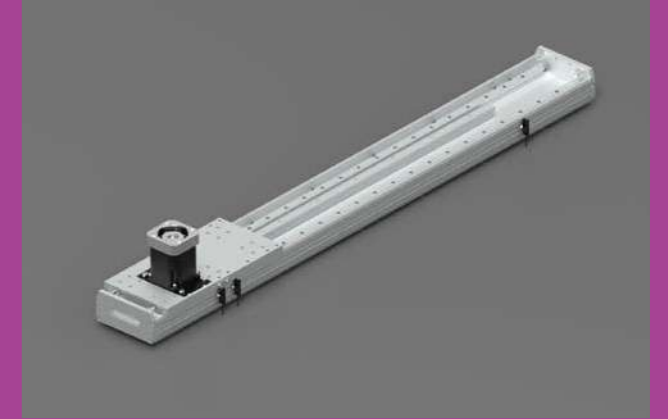
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	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

半密式齿轮齿条驱动型

Semi-tight rack and pinion drive type



YRO170



YRO220

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

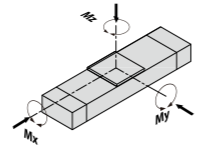
YRO170 - L26 - 1000 - 6P - MS - GB3 - 22 - P3 - A001

本体型号 Item NO.	导程 Lead	行程 Stroke	直线导轨滑块数量 Block Quantity	马达方向 Motor Mounting Position	减速机规格 Reducer specifications	齿轮孔径 Lead	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	L13:13mm L26:26mm L44:44mm	900-5500,间隔Gap100	6P				P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 No Mark/No Sensor	

注: 辅助滑块选项相关参数参见样本P221



最大静力和力矩 Max Static Forces And Torques

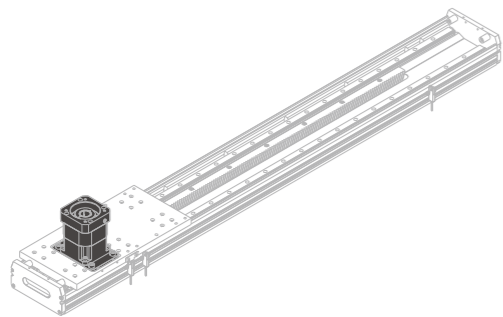


Type	YRO 170
M(x) (N·m)	1180
M(y) (N·m)	1344
M(z) (N·m)	1342

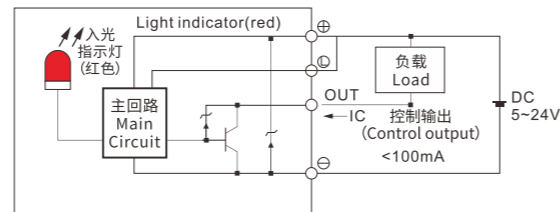
除了满足最大负载和力矩外, 还必须满足以下公式:
All forces and torques relate to the following:

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

马达安装方向 Motor Mounting Position Version



感应器接线图(原点及端点) Sensor Layout



基本规格 Basic Specification

YRO		170			
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	± 0.02			
	齿条导程 Rack and Pinion Lead (mm)	13	26	44	
	最高速度 Maximum Speed (mm/s)	650	1300	2200	
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	250	135	85
		垂直使用Vertical (kg)	60	40	25
	减速机速比 Reducer Speed Ratio	1/10	1/5	1/3	
基本规格 Basic Specification	额定推力 Rate Thrust (N)	1133	566	340	
	标准行程 Stroke (mm)	900-5500 mm / 间隔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)	W20 × H19			
原点传感器 Home Sensor	EE-SX672(NPN) EE-SX672P(PNP)				

#注1: 马达加减速设定0.2秒。
#Note1: Acceleration and deceleration value is set 0.2 second.
#注2: 本产品标准行程工作速度请参照P 页应用。
#Note 2: Please refer to page P for standard stroke working speed.

容许负载力矩表 Allowable Overhang

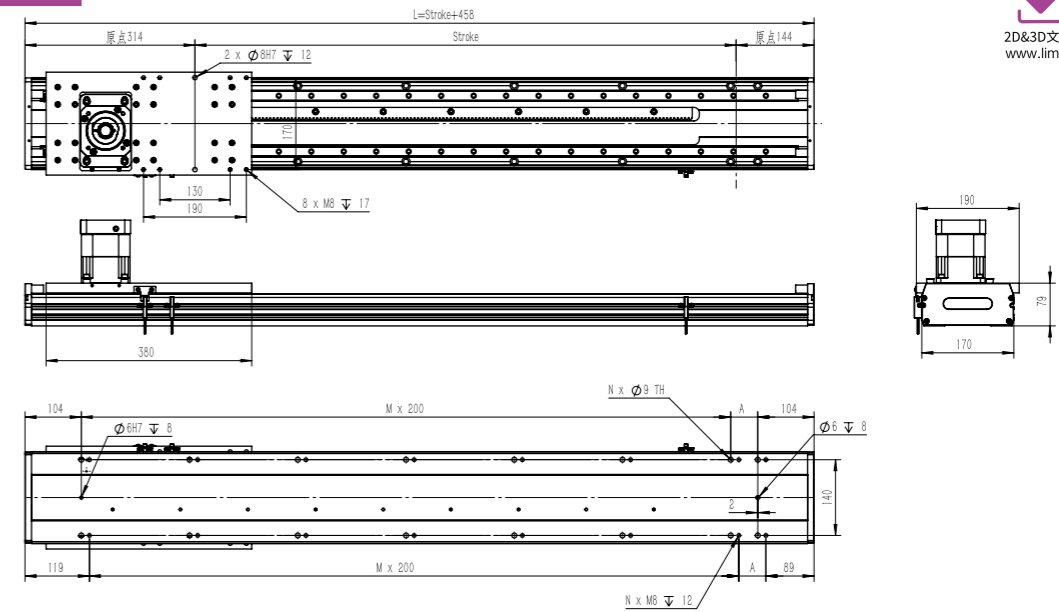
	水平安装 Horizontal Installation			壁挂安装 Wall Installation			垂直安装 Vertical Installation				
	A	B	C	A	B	C	A	B	C		
导程 13 lead	100kg	1300	260	195	100kg	300	300	1300	30kg	1000	800
	200kg	637	127	96	200kg	147	147	637	45kg	654	512
	300kg	420	85	64	300kg	98	98	420	80kg	364	282
导程 26 lead	40kg	1625	533	415	40kg	610	555	2600	20kg	1219	975
	80kg	797	261	203	80kg	299	272	1274	30kg	797	624
	160kg	394	129	100	160kg	148	135	631	50kg	437	367
导程 44 lead	30kg	1083	433	358	30kg	579	541	2167	8kg	2217	1773
	50kg	637	255	211	50kg	347	317	1274	20kg	868	681
	100kg	316	126	104	100kg	172	157	631	30kg	573	445

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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行程 Stroke(mm)	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200
L	1358	1458	1558	1658	1758	1858	1958	2058	2158	2258	2358	2458	2558	2658	2758	2858	2958	3058	3158	3258	3358	3458	3558	3658
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	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	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38
重量 Weight(kg)	29	30.75	32.5	34.25	36	37.75	39.5	41.25	43	44.75	46.5	48.25	50	51.75	53.5	55.25	57	58.75	60.5	62.25	64	65.75	67.5	69.25
行程 Stroke(mm)	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000	5100	5200	5300	5400	5500	
L	3758	3858	3958	4058	4158	4258	4358	4458	4558	4658	4758	4858	4958	5058	5158	5258	5358	5458	5558	5658	5758	5858	5958	
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	
M	17	18	18	19	19	20	20	21	21	22	22	23	23	24	24	25	25	26	26	27	27	28	28	
N	38	40	40	42	42	44	44	46	46	48	48	50	50	52	52	54	54	56	56	58	58	60	60	
重量 Weight(kg)	71	72.75	74.5	76.25	78	79.75	81.5	83.25	85	86.75	88.5	90.25	92	93.75	95.5	97.25	99	100.7	102.5	104.2	106	107.7	109.5	

YRO 220 半密式齿轮齿条驱动型

Semi-tight rack and pinion drive type

半密式齿轮齿条驱动型 YRO 220

Semi-tight rack and pinion drive type

订购型号代码 Code

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

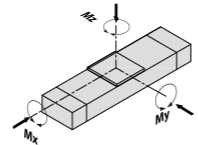
本体型号 Item NO.	导程 Lead	行程 Stroke	直线导轨滑块数量 Block Quantity	马达方向 Motor Mounting Position	减速机规格 Reducer specifications	齿轮孔径 Lead	限位传感器数量 Photoelectric Sensor	特注式样 Special Order No.
	L13:13mm L26:26mm L44:44mm	900-5500,间隔Gap100	6P				P1: 1个 1PC P2: 2个 2PCS P3: 3个 3PCS 未标记: 无 No Mark/No Sensor	

注: 辅助滑块选项相关参数参见样本P221



最大静态力和力矩

Max Static Forces And Torques

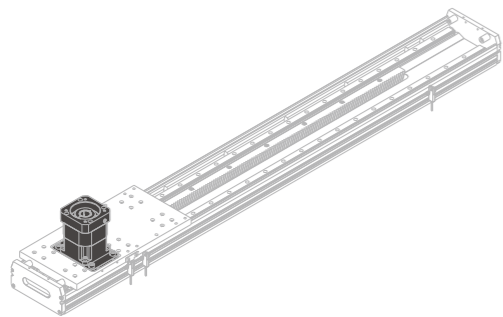


Type	YRO 220
M(x) (N·m)	1810
M(y) (N·m)	2052
M(z) (N·m)	2052

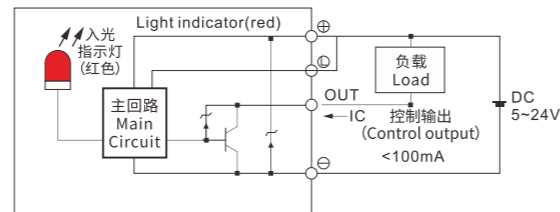
除了满足最大负载和力矩外, 还必须满足以下公式:
All forces and torques relate to the following:

$$\frac{Mx}{Mx \max.} + \frac{My}{My \max.} + \frac{Mz}{Mz \max.} \leq 1$$

马达安装方向 Motor Mounting Position Version



传感器接线图(原点及端点) Sensor Layout



基本规格 Basic Specification

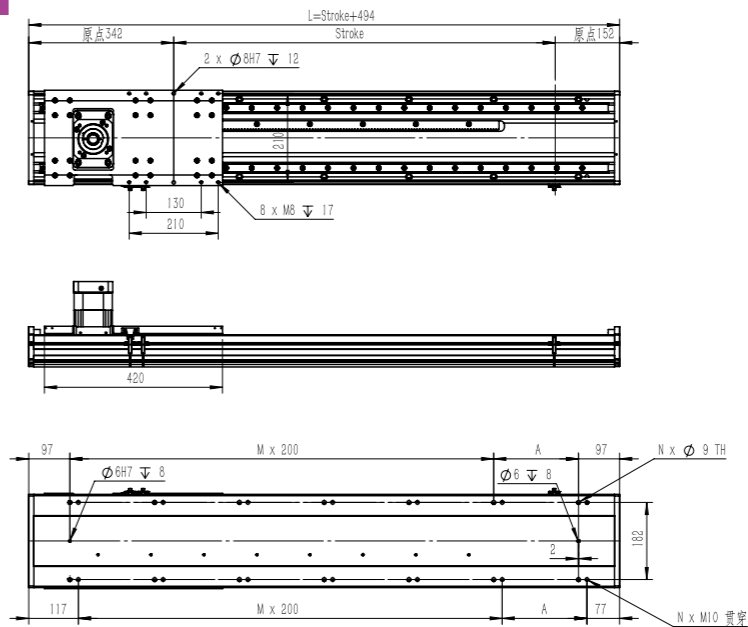
YRO		220			
技术参数 Technical Parameters	位置重复精度 Repetitive Accuracy (mm)	± 0.02			
	齿条导程 Rack and Pinion Lead (mm)	13	26	44	
	最高速度 Maximum Speed (mm/s)	650	1300	2200	
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	300	160	100
		垂直使用Vertical (kg)	80	50	30
	减速机速比 Reducer Speed Ratio	1/10	1/5	1/3	
基本规格 Basic Specification	额定推力 Rate Thust (N)	1133	566	340	
	标准行程 Stroke (mm)	900-5500 mm / 间隔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)	W23 × H18			
原点传感器 Home Sensor	EE-SX672(NPN) EE-SX672P(PNP)				

#注1: 马达加减速设定0.2秒。
#Note1: Acceleration and deceleration value is set 0.2 second.
#注2: 本产品标准行程工作速度请参照P 页应用。
#Note 2: Please refer to page P for standard stroke working speed.

容许负载力矩表 Allowable Overhang

导程 Lead	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 13 lead	100kg	1950	385	273	100kg	420	436	130	30kg	1300	1039
	200kg	956	189	134	200kg	205	213	637	45kg	850	666
	300kg	631	125	88	300kg	135	140	420	80kg	473	367
导程 26 lead	40kg	2438	789	580	40kg	853	806	2600	20kg	1585	1268
	80kg	1195	386	285	80kg	419	395	1274	30kg	1035	811
	160kg	592	191	140	160kg	207	195	631	50kg	615	477
导程 44 lead	30kg	1625	641	501	30kg	827	784	2167	8kg	2881	2305
	50kg	956	377	294	50kg	486	462	1274	20kg	1130	886
	100kg	473	187	146	100kg	241	228	631	30kg	745	578

YRO 220



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行程 Stroke(mm)	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200
L	1394	1494	1594	1694	1794	1894	1994	2094	2194	2294	2394	2494	2594	2694	2794	2894	2994	3094	3194	3294	3394	3494	3594	3694
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
M	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	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38
重量 Weight(kg)	46.6	48.87	51.54	54.21	56.88	59.55	62.22	64.89	67.56	70.23	72.9	75.57	78.24	80.91	83.58	86.25	88.92	91.59	94.26	96.93	99.6	102.2	104.9	107.6
行程 Stroke(mm)	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000	5100	5200	5300	5400	5500	
L	3794	3894	3994	4094	4194	4294	4394	4494	4594	4694	4794	4894	4994	5094	5194	5294	5394	5494	5594	5694	5794	5894	5994	
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	
M	17	18	18	19	19	20	20	21	21	22	22	23	23	24	24	25	25	26	26	27	27	28	28	
N	38	40	40	42	42	44	44	46	46	48	48	50	50	52	52	54	54	56	56	58	58	60	60	
重量 Weight(kg)	110.3	113	115.6	118.3	121	123.6	126.3	129	131.6	134.3	137	139.7	142.3	145	147.7	150.3	153	155.7	158.3	161	163.7	166.3	169	

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



MLO 110 / 135 / 210



ZLO 17 / 22



WLO 14 / 17 / 22



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。

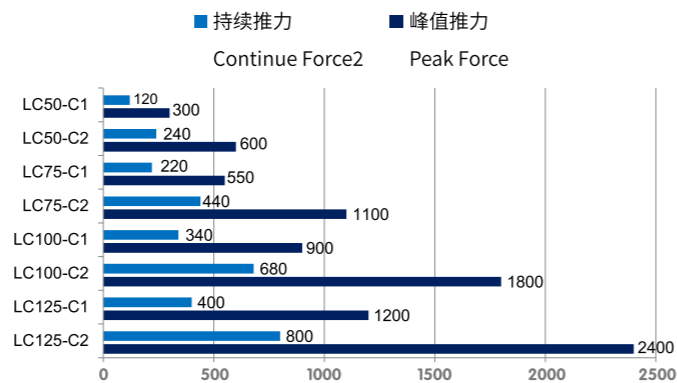
产品特点:

- ★ 低顿挫、热散性能优异
- ★ 推力强大、承载重负载
- ★ 高加减速、高运行速度
- ★ 功率范围覆盖广泛
- ★ 可根据客户需求灵活定制产品

应用领域:

- ★ 数控机床
- ★ 半导体设备
- ★ 医疗器械
- ★ 激光切割机
- ★ 3D打印机
- ★ 纺织机械
- ★ 电子设备生产线
- ★ 飞行模拟器
- ★ 机器人
- ★ 包装机械

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.



产品特点:

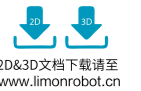
定子命名规则 Naming Rule of Motor Forcer

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

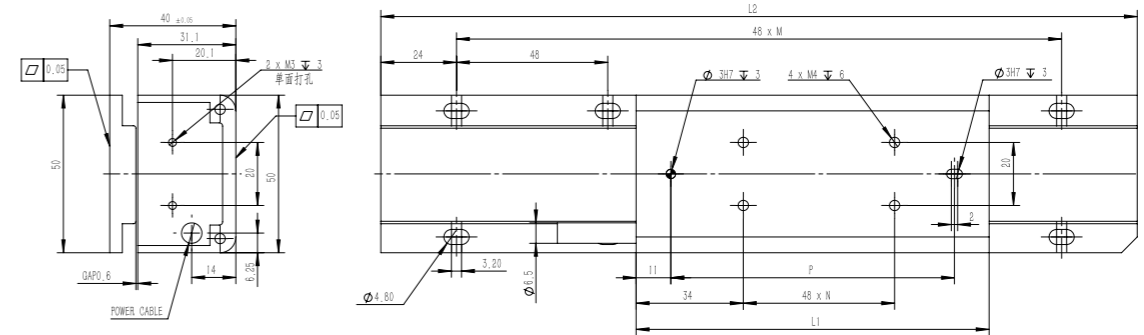
定子命名规则 Naming Rule of Motor Stator

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

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	/	/	
定子型号 Stator Item No.	LC50-M48	/	/	/	48	0
LC50-M144	/	/	/	144	2	
LC50-M240	/	/	/	240	4	

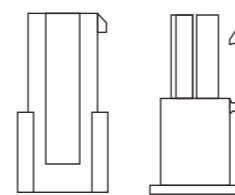


性能参数 Performance Parameter

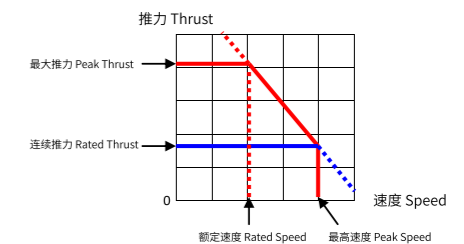
定子型号 Coil Item No.	持续推力 Continue Force (n)	峰值推力 Peak Force (n)	负载 Load (1G)	额定电流 Rated Current (A)	最大电流 Peak Current (A)	推力常数 Force Constant (n/arms)	电阻 Resistance (Ω)	电感 Inductance (mh)	质量 Weight (kg)	极距 Polar Distance (mm)	额定速度 Rated Speed (m/s)	最大速度 Maximum Speed (m/s)	相互吸力 Mutual Attraction (N)
LC50-C1	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

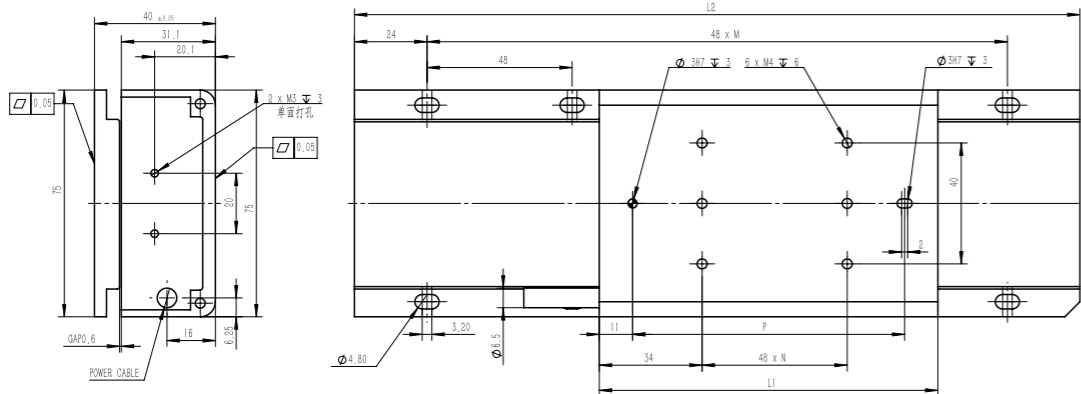
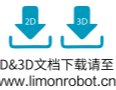


公端子Public Terminal:
HX42001-31PT
公端子壳体Male terminal housing:
HX42000-4R
母端子Mother Terminal:
HX42000-31RT
母端子壳体Mother terminal housing:
HX42001-4P



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

LC 75



尺寸参数 Dimension Parameter

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

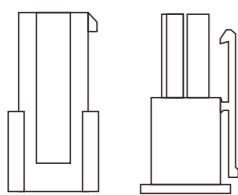


性能参数 Performance Parameter

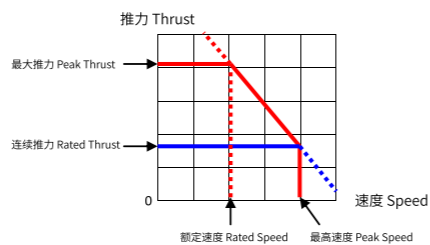
定子型号 Coil Item No.	持续推力 Continue Force (n)	峰值推力 Peak Force (n)	负载 Load (1G)	额定电流 Rated Current (A)	最大电流 Peak Current (A)	推力常数 Force Constant (n/arms)	电阻 Resistance (Ω)	电感 Inductance (mh)	质量 Weight (kg)	极距 Polar Distance (mm)	额定速度 Rated Speed (m/s)	最大速度 Maximum Speed (m/s)	相互吸力 Mutual Attraction (N)
LC75-C1	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: $7.5 \times$ outer diameter
固定安装Fixed installation: $4 \times$ outer diameter

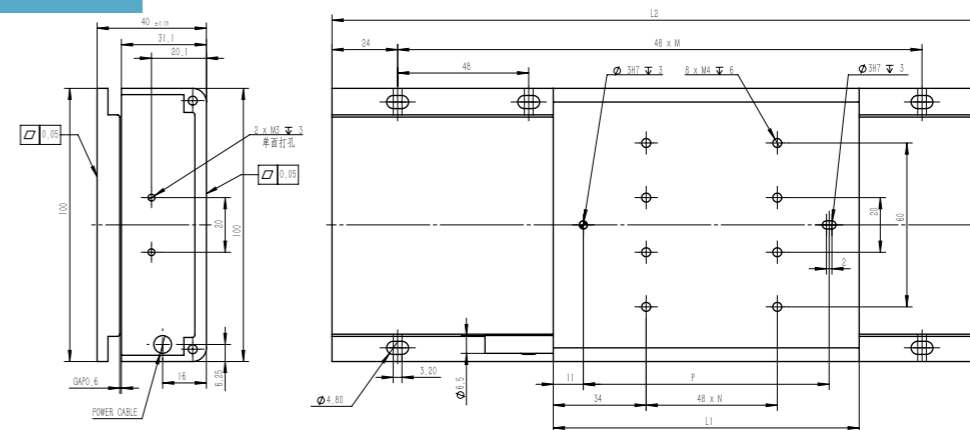


公端子Public Terminal:
HX42001-31PT
公端子壳体Male terminal housing:
HX42000-4R
母端子Mother Terminal:
HX42000-31RT
母端子壳体Mother terminal housing:
HX42001-4P



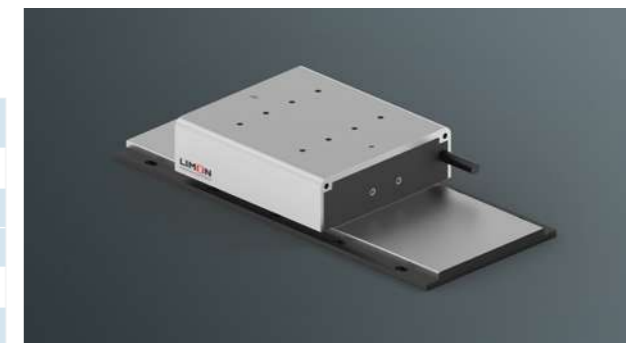
推力速度曲线定义图
Definition diagram of thrust speed curve

LC 100



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.	LC100-C1	112	1	90	/	/
定子型号 Coil Item No.	LC100-C2	208	3	186	/	/
定子型号 Stator Item No.	LC100-M48	/	/	/	48	0
定子型号 Stator Item No.	LC100-M144	/	/	/	144	2
定子型号 Stator Item No.	LC100-M240	/	/	/	240	4

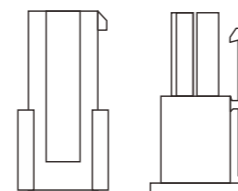


性能参数 Performance Parameter

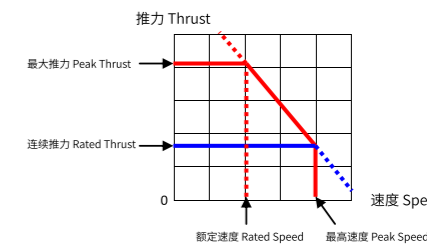
定子型号 Coil Item No.	持续推力 Continue Force (n)	峰值推力 Peak Force (n)	负载 Load (1G)	额定电流 Rated Current (A)	最大电流 Peak Current (A)	推力常数 Force Constant (n/arms)	电阻 Resistance (Ω)	电感 Inductance (mh)	质量 Weight (kg)	极距 Polar Distance (mm)	额定速度 Rated Speed (m/s)	最大速度 Maximum Speed (m/s)	相互吸力 Mutual Attraction (N)
LC100-C1	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

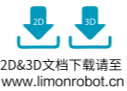
◎ Note 1
电机电缆规格 Specification of motor cable
外径尺寸Outer diameter (mm): $\phi 6.5\text{mm}$
偶发弯曲Occasional flexing: $7.5 \times$ outer diameter
固定安装Fixed installation: $4 \times$ outer diameter



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

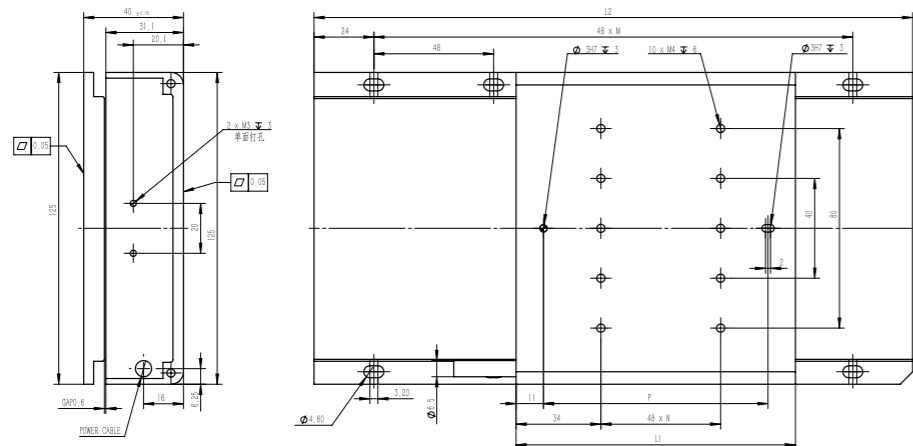


推力速度曲线定义图
Definition diagram of thrust speed curve



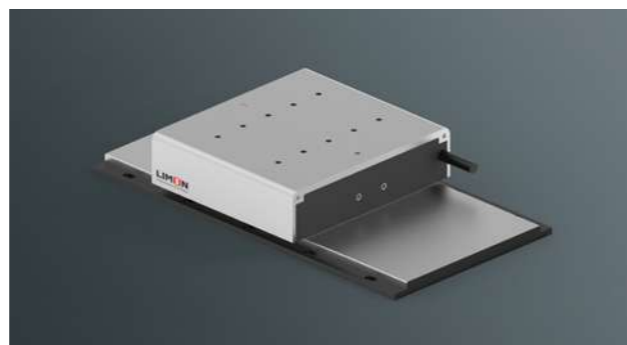
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LC 125



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.	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



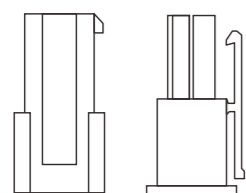
性能参数 Performance Parameter

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

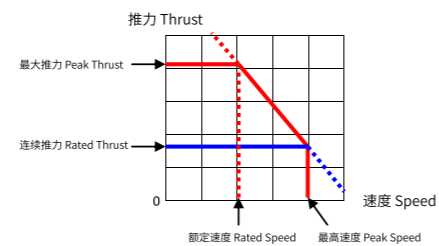
插针编号Pin no.	信号源Signal	线缆编号Wire no.
1	Phase U	1
2	Phase V	2
3	Phase W	3
4	FG	Yellow Green

◎ 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: $7.5 \times$ outer diameter
 固定安装Fixed installation: $4 \times$ 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

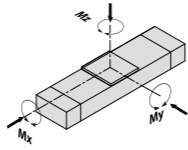
GLC 50 GLC系列有铁芯式线性马达驱动

GLC Series Linear Motor Driven Type With Iron Core

型号订购码 Code	GLC 50	C1	500	3L	M	P	P3
	GLC 50D2	C1	500	3L	M	P	P3
本体型号 Item NO.	线圈规格 Coil Size	行程 Stroke	线缆长度 Wire Length	编码器 Encoder	驱动器 Driver	限位传感器数量 Photoelectric Sensor	
GLC 50 单动子型 Single Carriage	C1:标准型动子 Standard Coil	50-1650, 间隔/Gap:50	3L:3m	G: 光学尺 Optical Scale	S: 高创 Servotronics	P1:1个 1PC	
GLC 50D2 双动子型 Double Carriage		120-1520, 间隔/Gap:100	5L:5m	M: 磁性尺 Magnetic Scale	P: 松下 Panasonic	P2:2个 2PCS	
			8L:8m	B: 编码器 Encoder		P3:3个 3PCS	
						未标记:无 No Mark: None	



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:

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

履带取出方向 Caterpillar Band Entry Location

GLC-50				GLC-50D2		厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
RH 水平右侧取出 RH Right & Horizontal	RW 壁挂右侧取出 RW Right & Wall-hanging	LH 水平左侧取出 LH Left & Horizontal	LW 壁挂左侧取出 LW Left & Wall-hanging	H 水平安装 H Horizontal	W 侧挂安装 W Wall-hanging	高创 Servotronics	S	CDHD-AP1	脉冲
						松下 Panasonic	P	MBDLN-SL	脉冲
								MBDLN-BL	EtherCAT

注:请务必按导线槽方向图和各规格图规定的方向进行设置。规定以外的安装会导致故障发生,请务必加以注意。
Note:Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

基本规格 Basic Specification

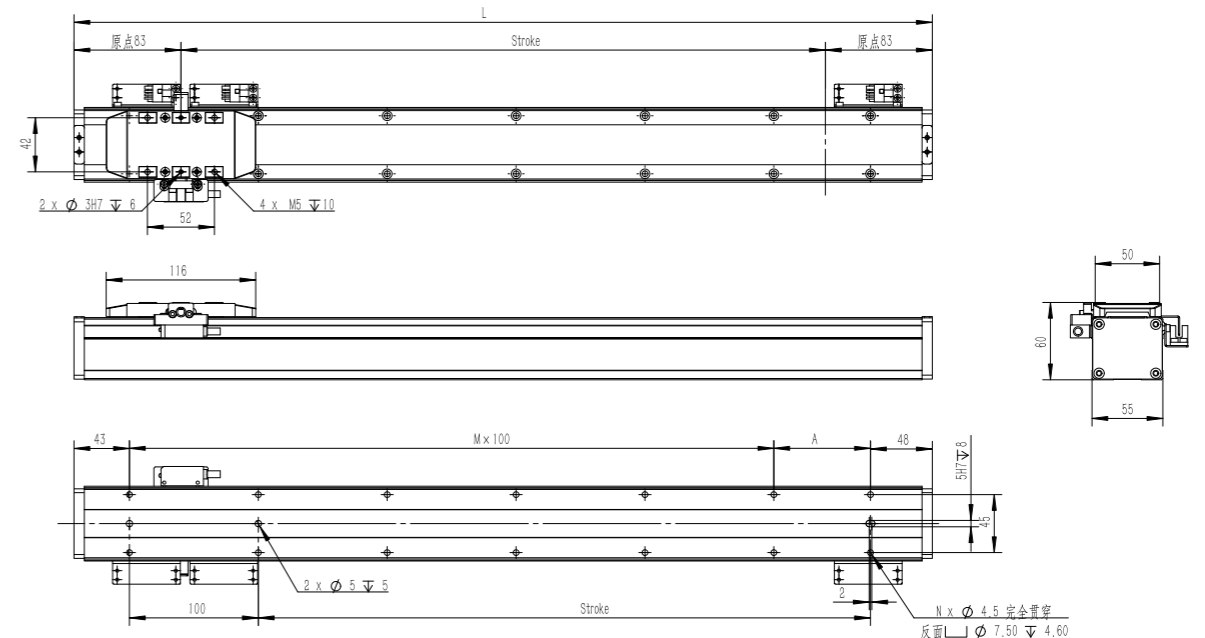
技术 参数 Technical Parameters	机型 Type	GLC-50	GLC-50D2
	驱动方式 Driving Method	有铁芯平板式线性马达 Linear Motor Driven Type With Iron Core	
位置重复精度(μ) Repetitive Accuracy	± 2 μm		
线性度 Strength	X-X	20 μm/300mm	
	Y-Y	20 μm/300mm	
最大负载(加速度1G工况下) Max load	5 kg		
最大速度(MM/S) Max Speed	4 m/s		
最大加速度(M/S²) Max Accelerated Speed	4G		
马达 参数	峰值电流(Peak Current)	3.6Arms	
	持续电流(Continuous Current)	0.9Arms	
	峰值推力(Peak Thrust)	150 N	
持续推力(N) Continuous Thrust(N)	50 N		
Technical Parameters	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 x 60	
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

GLC50-C1

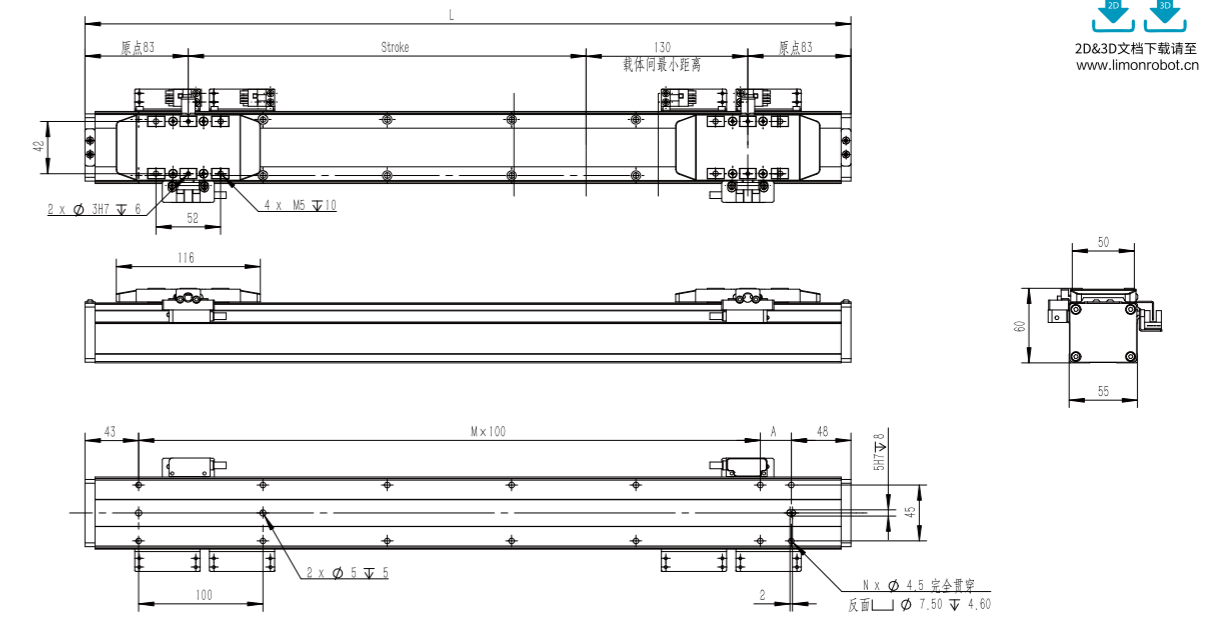
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行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
总长 Length (L)	216	266	316	366	416	466	516	566	616	666	716	766	816	866	916	966	1016	1066	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

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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

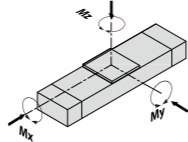
GLC 80 GLC系列有铁芯式线性马达驱动

GLC Series Linear Motor Driven Type With Iron Core

型号订购码 Code	GLC 80	C1	500	3L	M	P	P3
	GLC 80D2	C1	500	3L	M	P	P3
本体型号 Item NO.	线圈规格 Coil Size	行程 Stroke	线缆长度 Wire Length	编码器 Encoder	驱动器 Driver	限位传感器数量 Photoelectric sensor	
GLC 80 单动子型 Single Carriage	C1:标准型动子 Standard Coil	50-1650, 间隔/Gap50	3L:3m	G: 光学尺 Optical Scale	S: 高创 Servotronics	P1:1个 1PC P2:2个 2PCS P3:3个 3PCS	
GLC 80D2 双动子型 Double Carriage		100-1500, 间隔/Gap100	5L:5m 8L:8m	M: 磁性尺 Magnetic Scale B: 编码器 Encoder	P: 松下 Panasonic	未标记:无 No Mark None	



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



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:

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

履带取出方向 Caterpillar Band Entry Location

GLC-80				GLC-80D2		厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
RH 水平右侧取出 RH Right & Horizontal	RW 壁挂右侧取出 RW Right & Wall-hanging	LH 水平左侧取出 LH Left & Horizontal	LW 壁挂左侧取出 LW Left & Wall-hanging	H 水平安装 H Horizontal	W 侧挂安装 W Wall-hanging	高创 Servotronics	S	CDHD-AP1 CDHD-EC1	脉冲 EtherCAT
						松下 Panasonic	P	MBDLN-SL MBDLN-BL	脉冲 EtherCAT

注:请务必按导线槽方向图和各规格图规定的方向进行设置。规定以外的安装会导致故障发生,请务必加以注意。
Note:Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

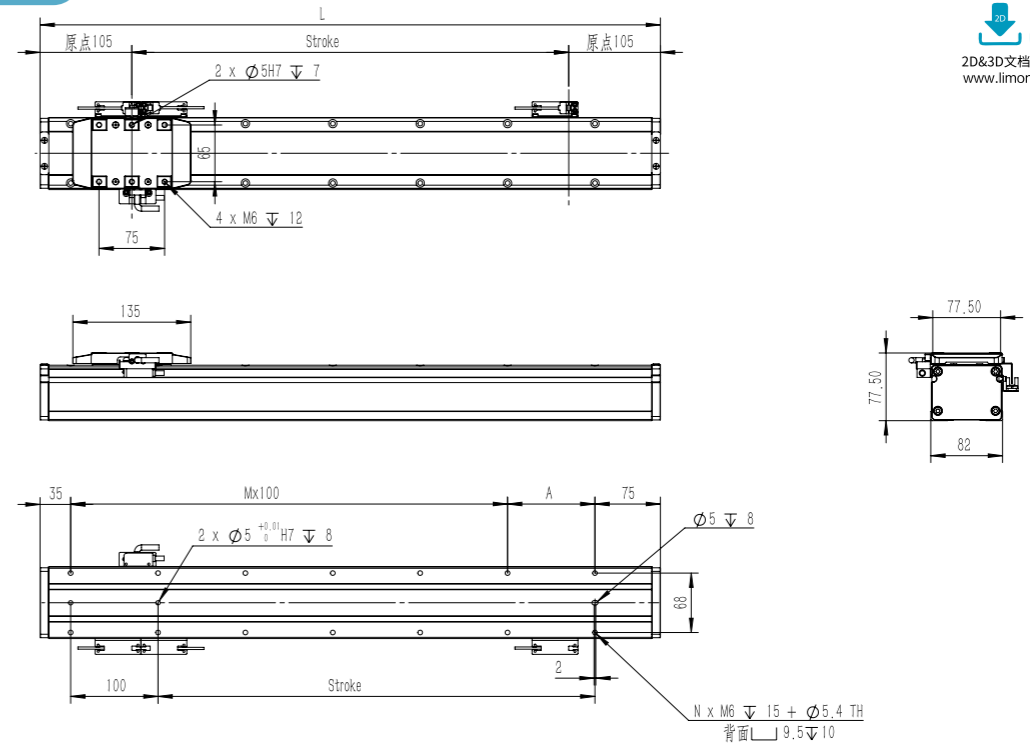
基本规格 Basic Specification

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	
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	
相间电阻(Interphase Resistance)		3.1Ω	
相间电感(Interphase Inductance)		15.5 mH	
磁极距(Magnetic Pole Distance)		24mm	
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 80 GLC系列有铁芯式线性马达驱动

GLC Series Linear Motor Driven Type With Iron Core

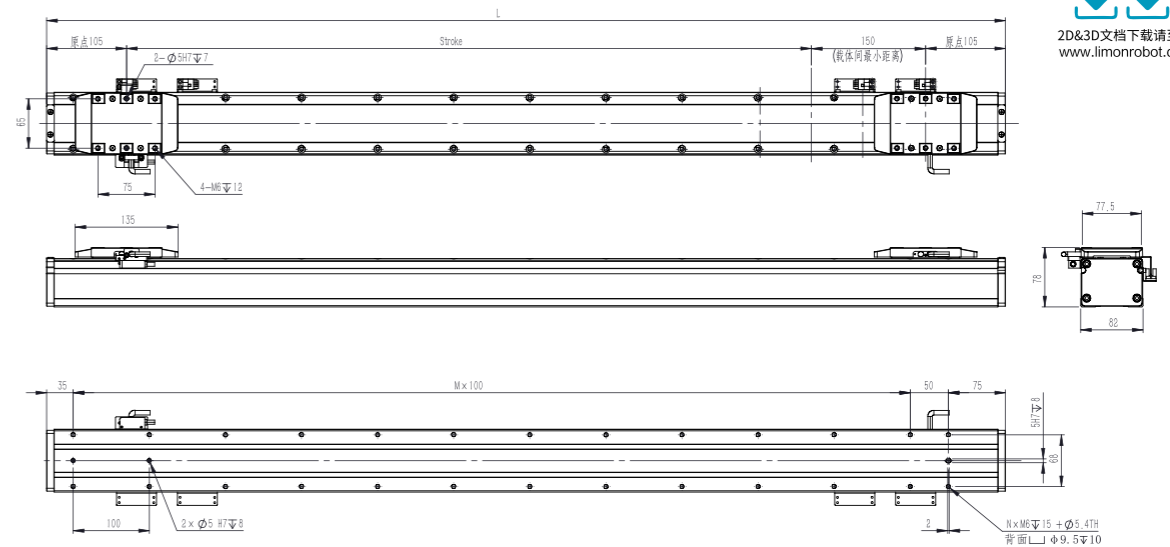
GLC80-C1



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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	1600	1650
总长 Length (L)	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
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	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	50	100	50
重量 Weight (kg)	3.39	3.83	4.27	4.71	5.15	5.59	6.03	6.47	6.91	7.35	7.79	8.23	8.67	9.11	9.55	9.99	10.43	10.87	11.31	11.75	12.19	12.63	13.07	13.51	13.95	14.39	14.83	15.27	15.71	16.15	16.59	17.03	17.47

GLC80D2-C1



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
总长 Length (L)	460	560	660	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860
M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
重量 Weight (kg)	6.48	7.36	8.24	9.12	10	10.88	11.76	12.64	13.52	14.4	15.28	16.16	17.04	17.92	18.8

MLO 110

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 MLO110 C1 500 3L M P RH T P3
MLO110D2 C1 500 3L M P T P3

本体型号 Item NO.	线圈规格 Coil Size	行程 Stroke	线缆长度 Wire Length	编码器 Encoder	驱动器 Driver	履带取出方向 Caterpillar Band Entry Location	拖链 Drag chain	限位传感器数量 Photoelectric Sensor
MLO 110 单动子型 Single Carriage	C1:标准型动子 Standard Coil	100-4500, 间隔/Gap100	3L:3m	G: 光学尺 Optical Scale	S: 高创 Servotronic	RH:水平右侧取出 Horizontal.Right	T: 含拖链 With Drag chain	P1:1个 1PC
MLO110D2 双动子型 Double Carriage	C2:加长型动子 Extended Coil		5L:5m	M: 磁性尺 Magnetic Scale	P: 松下 Panasonic	LH:水平左侧取出 Horizontal.Left	未标记:无 No Mark: None	P2:2个 2PCS
			8L:8m	B: 编码器 Encoder		RW:壁挂右侧取出 Wall-hanging.Right		P3:3个 3PCS
						LW:壁挂左侧取出 Wall-hanging.Left		未标记:无 No Mark: None



最大动力和力矩 Max Permissible Forces And Torques

规格 Type	MLO110-C1	MLO110-C2
■F(y) (N·m)	4295	5580
■F(z) (N·m)	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 torque relate to the following:
$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

履带取出方向 Caterpillar Band Entry Location

MLO-110				MLO-110D2		厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
RH 水平右侧取出 Right & Horizontal	RW 壁挂右侧取出 Right & Wall-hanging	LH 水平左侧取出 Left & Horizontal	LW 壁挂左侧取出 Left & Wall-hanging	H 水平安装 H Horizontal	W 侧挂安装 W Wall-hanging	高创 Servotronic	S	CDHD-AP1 CDHD-EC1	脉冲 EtherCAT
						松下 Panasonic	P	MBDLN-SL MBDLN-BL	脉冲 EtherCAT

注:请务必按导线槽方向图和各规格图规定的方向进行设置。规定以外的安装会导致故障发生,请务必加以注意。
Note:Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

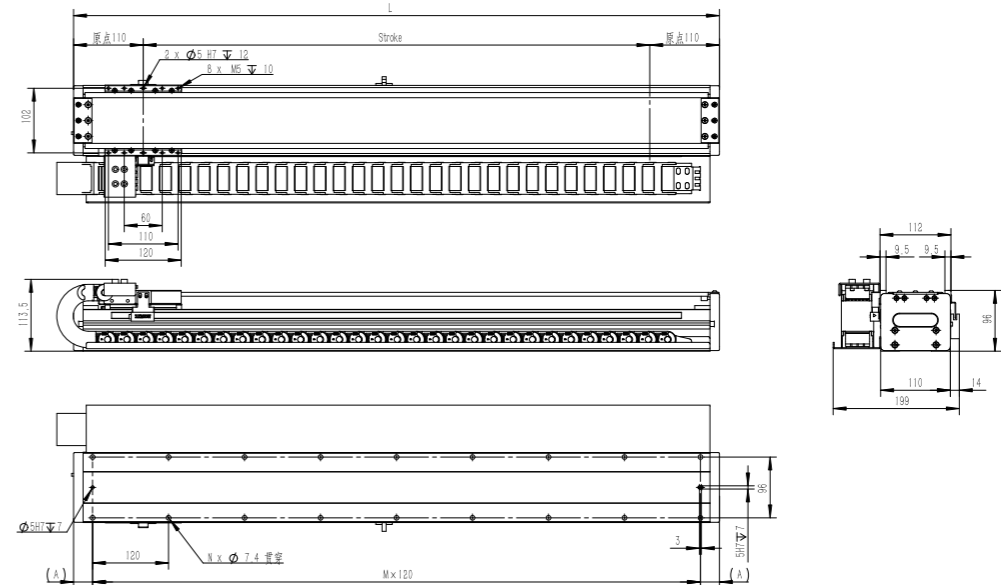
基本规格 Basic Specification

机型 Type	MLO110-C1	MLO110D2-C1	MLO110-C2	MLO110D2-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	20 μ m/300mm			
最大负载(加速度1G工况下) Max load	25 kg		50 kg	
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)	7.2 Arms		7.1Arms	
持续电流(Continuous Current)	3.6 Arms		3.5Arms	
峰值推力(Peak Thrust)	240 N		480 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			
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-T45(NPN)			

GLC系列有铁芯式线性马达驱动 MLO 110

GLC Series Linear Motor Driven Type With Iron Core

MLO110-C1

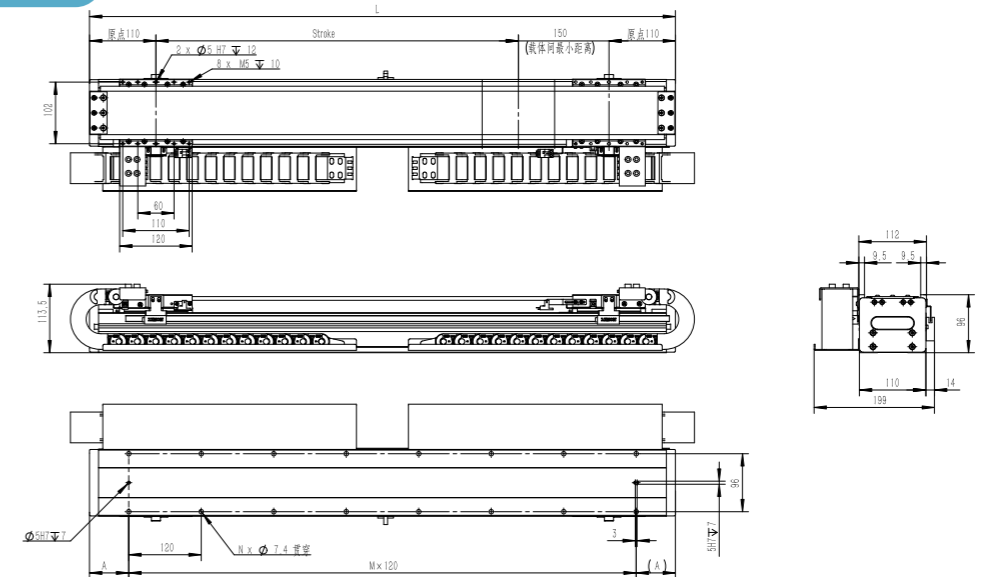


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	320	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420	2520
M	2	3	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	40	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)	6.76	7.87	9.63	11.00	12.38	13.73	15.10	16.46	17.84	19.21	20.57	21.94	23.29	24.81	26.16	27.53	28.91	30.27	31.64	33.00	34.37	35.74	37.10

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)	2620	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320	4420	4520	4620	4720
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	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80
重量 Weight (kg)	38.48	39.85	41.34	42.70	44.07	45.45	46.80	48.17	49.53	50.91	52.28	53.64	55.01	56.37	57.88	59.23	60.60	61.98	63.34	64.71	66.07	67.44

MLO110D2-C1



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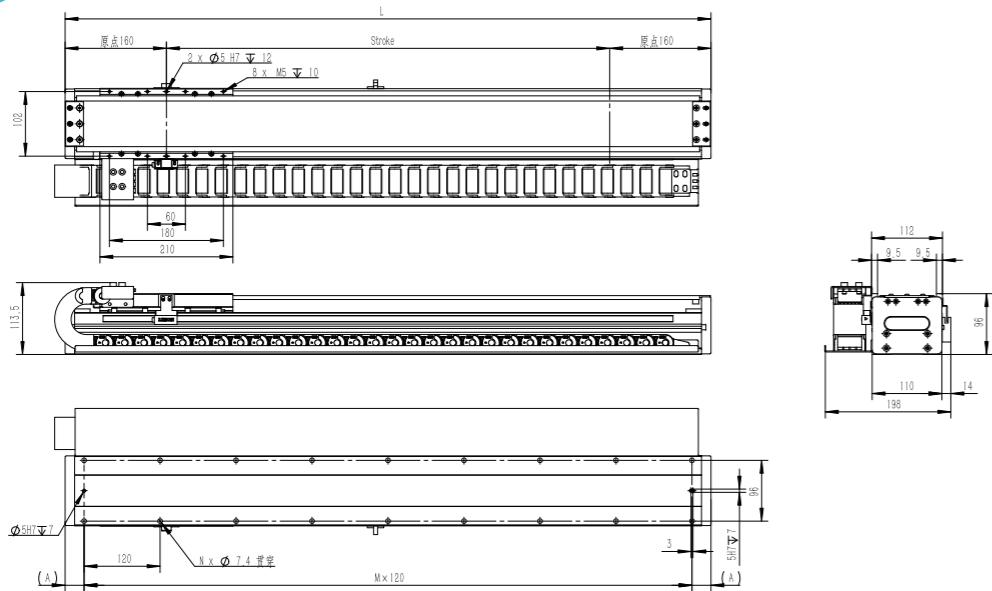
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	470	570	670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370	2470	2570	2670
M	3	4	5	5	6	7	8	9	10	10	11	12	13	14	15	15	16	17	18	19	20	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)	10.96	12.31	13.69	15.05	16.15	17.79	19.15	20.52	21.88	23.26	24.63	26.12	27.50	28.85	30.22	31.58	32.95	34.33	35.69	37.06	38.42	39.79	41.16

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	38	40	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)	42.65	44.03	45.38	46.76	48.12	49.49	50.87	52.22	53.59	54.95	56.33	57.70	59.19	60.57	61.92	63.30	64.65	66.02	67.40	68.76	70.13	71.49	

MLO 110 GLC系列有铁芯式线性马达驱动

GLC Series Linear Motor Driven Type With Iron Core

MLO110-C2

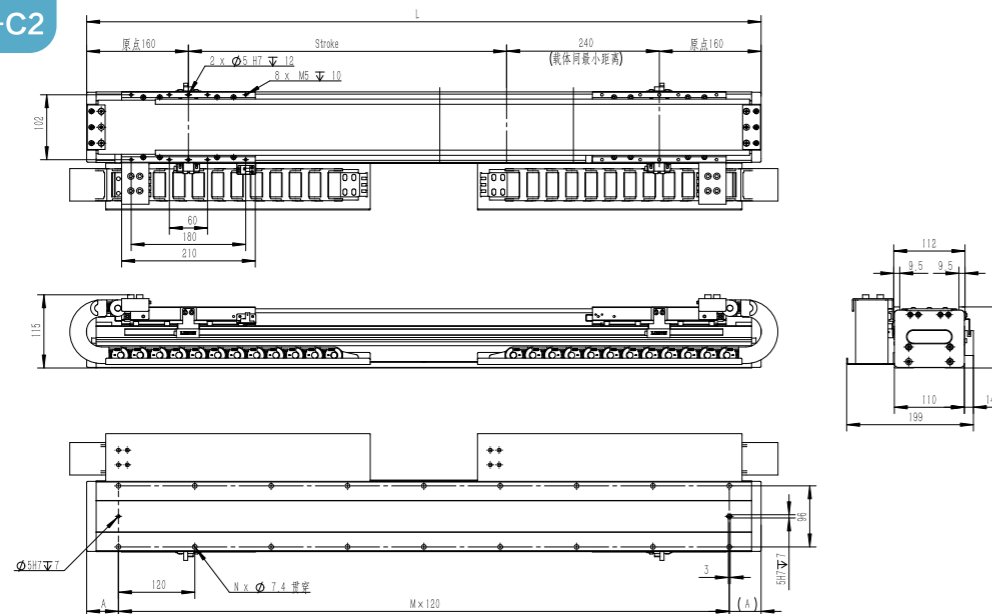


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420	2520	2620
M	3	3	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18	18	19	20	21	21
N	8	8	10	12	14	16	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42	44	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)	8.92	10.68	12.05	13.43	14.79	16.16	17.52	18.89	19.73	21.75	23.00	24.35	25.86	27.22	28.59	29.97	31.32	32.69	34.05	35.43	36.80	38.16	39.53

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)	40.88	42.40	43.75	45.12	46.50	47.86	49.23	50.59	51.96	53.33	54.69	56.07	57.42	58.93	60.29	61.66	63.04	64.39	65.76	67.12	68.50	69.87

MLO110D2-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)	660	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860	1960	2060	2160	2260	2360	2460	2560	2660	2760	2860
M	5	5	6	7	8	9	10	10	11	12	13	14	15	15	16	17	18	19	20	20	21	22	23
N	12	12	14	16	18	20	22	22	24	26	28	30	32	32	34	36	38	40	42	42	44	46	48
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)	15.69	17.04	18.42	19.79	21.15	22.52	23.88	25.26	26.63	27.98	29.36	30.71	32.22	33.58	34.95	36.33	37.69	39.06	40.41	41.79	43.16	44.52	45.90

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)	2960	3060	3160	3260	3360	3460	3560	3660	3760	3860	3960	4060	4160	4260	4360	4460	4560	4660	4760	4860	4960	5060
M	24	25	25	26	27	28	29	30	30	31	32	33	34	35	35	36	37	38	39	40	40	41
N	50	52	52	54	56	58	60	62	62	64	66	68	70	72	72	74	76	78	80	82	82	84
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)	47.25	48.76	50.12	51.49	52.86	54.22	55.59	57.22	58.33	59.70	61.05	62.43	63.78	65.29	66.65	68.02	69.40	70.76	72.13	73.48	74.86	76.23

MLO系列有铁芯式线性马达驱动 MLO 135

MLO Series Linear Motor Driven Type With Iron Core

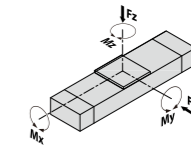
型号订购码 Code

MLO135	C1	500	3L	M	P	RH	T	P3
MLO135D2	C1	500	3L	M	P		T	P3

本体型号 Item NO.	线圈规格 Coil Size	行程 Stroke	线缆长度 Wire Length	编码器 Encoder	驱动器 Driver	履带取出方向 Caterpillar Band Entry Location	拖链 Drag chain	限位传感器数量 Photoelectric Sensor
MLO 135 单动子型 Single Carriage	C1:标准型动子 Standard Coil	100-4500, 间隔/Gap100	3L:3m 5L:5m 8L:8m	G: 光学尺 Optical Scale M: 磁性尺 Magnetic Scale B: 编码器 Encoder	S: 高创 Servotronics P: 松下 Panasonic	RH:水平右侧取出 Horizontal,Right LH:水平左侧取出 Horizontal,Left RW:壁挂右侧取出 Wall-hanging,Right LW:壁挂左侧取出 Wall-hanging,Left	T:含拖链 With Drag chain 未标记:无 No Mark: None	P1:1个 1PC P2:2个 2PCS P3:3个 3PCS 未标记:无 No Mark: None



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



规格 Type	MLO135-C1	MLO135-C2
F(y) (N·m)	5370	6980
F(z) (N·m)	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 torque relate to the following:

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

履带取出方向 Caterpillar Band Entry Location



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
高创 Servotronics	S	CDHD-AP1	脉冲
		CDHD-EC1	EtherCAT
松下 Panasonic	P	MBDLN-SL	脉冲
		MBDLN-BL	EtherCAT

注:请务必按导线槽方向图和各规格图规定的方向进行设置。规定以外的安装会导致故障发生,请务必加以注意。
Note:Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

基本规格 Basic Specification

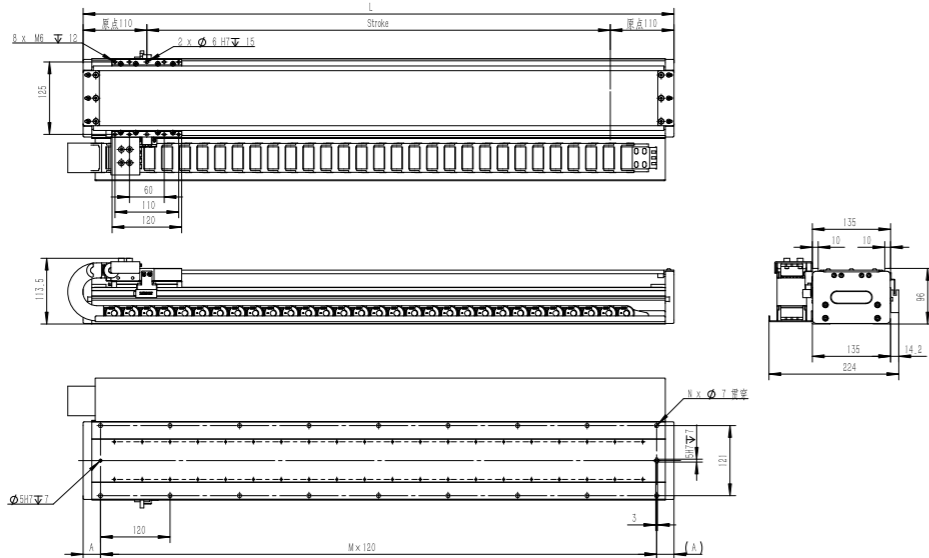
机型 Type	MLO135-C1	MLO135D2-C1	MLO135-C2	MLO135D2-C2
驱动方式 Driving Method	有铁芯平板线性马达 Linear Motor Driven Type With Iron Core			
位置重复精度(μ) Repetitive Accuracy	± 2 μm			
线性度 Strength	20 μm/300mm			
最大负载(加速度1G工况下) Max load	40 kg		80 kg	
最大速度(MM/S) Max Speed	4 m/s			
最大加速度(M/S²) Max Accelerated Speed	4G			
峰值电流(Peak Current)	7.2 Arms		21.9 Arms	
持续电流(Continuous Current)	3.6 Arms		7.3Arms	
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(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	135*96			
原点感应器 Home Sensor	PM-T45(NPN)			

MLO 135

MLO系列有铁芯式线性马达驱动

MLO Series Linear Motor Driven Type With Iron Core

MLO135-C1

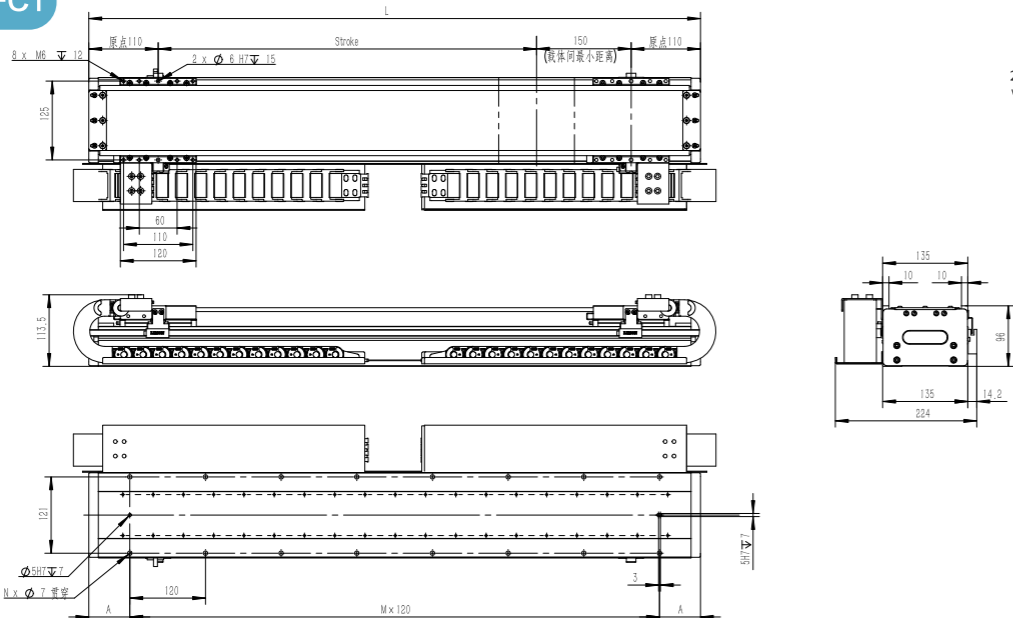


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length(L)	320	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420	2520
M	2	3	3	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18	18	19	20	21
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	40	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)	8.18	9.33	11.50	13.08	14.65	16.18	17.76	19.29	20.86	22.44	23.97	25.54	27.07	28.86	30.39	31.96	33.54	35.07	36.64	38.17	39.75	41.32	42.85

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)	2620	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320	4420	4520	4620	4720
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	60	62	64	66	68	68	70	72	74	76	78	78	80
A	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80
重量 Weight (kg)	44.43	46.00	47.75	49.28	50.85	52.43	53.96	55.53	57.06	58.64	60.21	61.74	63.32	64.84	66.63	68.16	69.73	71.31	72.84	74.42	75.94	77.52

MLO135D2-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	
重量 Weight (kg)	13.49	15.01	16.59	18.12	19.26	21.27	22.80	24.37	25.90	27.48	29.05	30.80	32.37	33.90	35.48	37.01	38.58	40.16	41.69	43.26	44.79	46.37	47.94

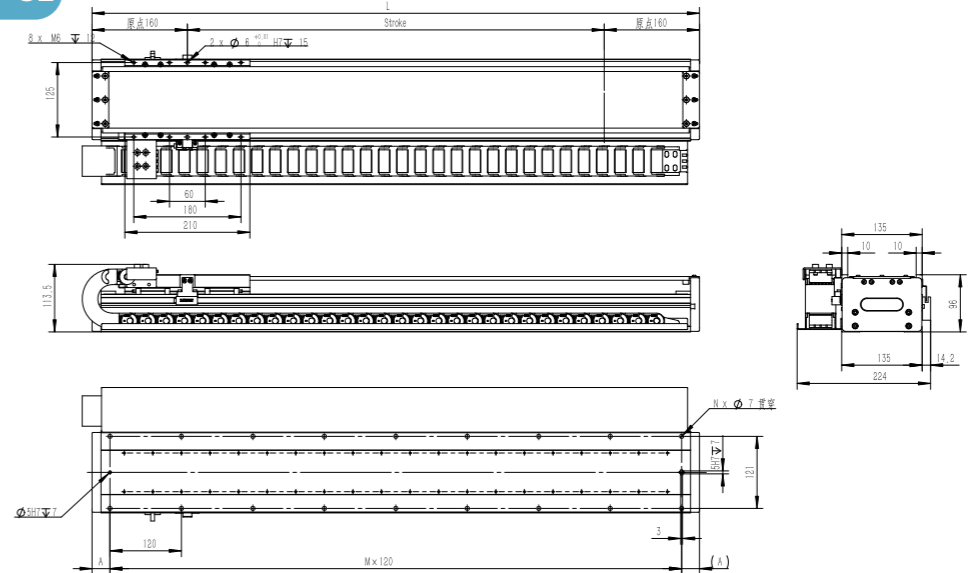
行程 Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
总长 Length(L)	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070	4170	4270	4370	4470	4570	4670	4770	4870
M	22	23	24	25	25	26	27	28	29	30	30	31	32	33	34	35	35	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)	49.68	51.26	52.78	54.36	55.89	57.46	59.04	60.57	62.14	63.67	65.25	66.83	68.57	70.15	71.67	73.25	74.78	76.35	77.93	79.46	81.03	82.56

MLO 135

MLO系列有铁芯式线性马达驱动

MLO Series Linear Motor Driven Type With Iron Core

MLO135-C2

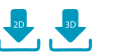
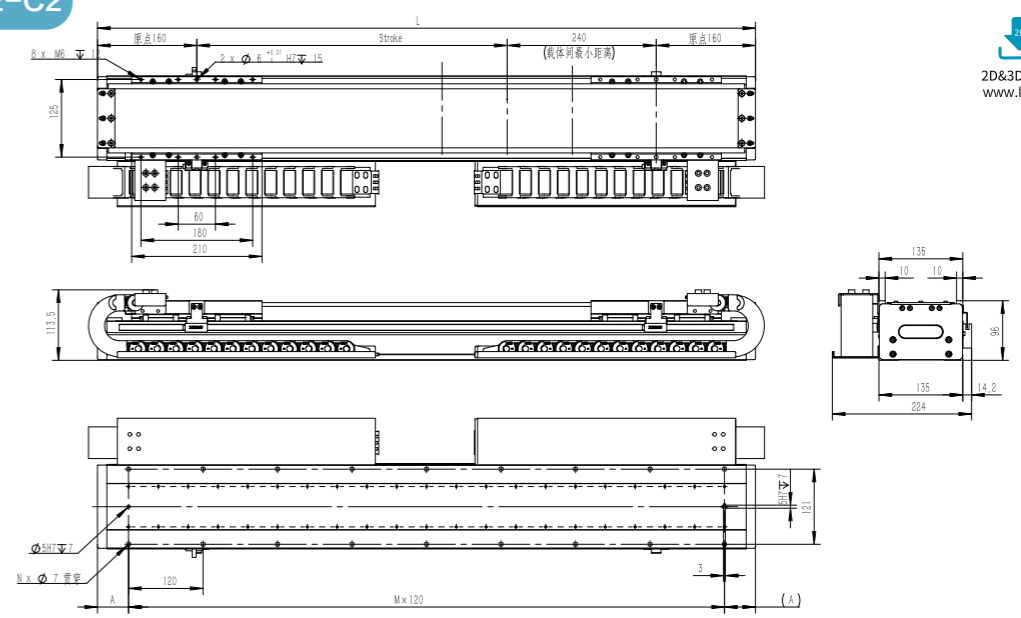


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length(L)	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420	2520	2620
M	3	3	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18	18	19	20	21	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)	11.44	12.97	14.54	16.12	17.65	19.22	20.75	22.33	23.90	26.66	27.22	28.53	30.32	31.85	33.43	35.00	36.53	38.11	39.64	41.21	42.79	44.32	45.89

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	60	62	64	66	68	68	70	72	74	76	78	78	80	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)	47.42	49.21	50.74	52.31	53.89	55.42	56.99	58.52	60.10	61.67	63.20	64.78	66.30	68.10	69.63	71.20	72.78	74.31	75.88	77.41	78.99	80.56

MLO135D2-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)	660	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860	1960	2060	2160	2260	2360	2460	2560	2660	2760	2860
M	5	5	6	7	8	9	10	10	11	12	13	14	15	15	16	17	18	19	20	20	21	22	23
N	12	12	14	16	18	20	22	22	24	26	28	30	32	32	34	36	38	40	42	42	44	46	48
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)	19.40	20.93	22.51	24.08	25.61	27.19	28.72	30.29	31.87	33.40	34.97	36.50	38.29	39.82	41.39	42.97	44.50	46.07	47.60	49.18	50.75	52.28	53.86

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)	2960	3060	3160	3260	3360	3460	3560	3660	3760	3860	3960	4060	4160	4260	4360	4460	4560	4660	4760	4860	4960	5060
M	24	25	25	26	27	28	29	30	30	31	32	33	34	35	35	36	37	38	39	40	40	41
N	50	52	52	54	56	58	60	62	62	64	66	68	70	72	74	76	78	80	82	82	84	84
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)	55.38	57.18	58.71	60.28	61.86	63.39	64.96	66.49	68.07	69.64	71.17	72.75	74.27	76.06	77.59	79.16	80.74	82.27	83.85	85.37	86.95	88.53

MLO Series

MLO Series

MLO 210 MLO系列有铁芯式线性马达驱动

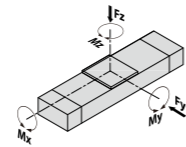
MLO Series Linear Motor Driven Type With Iron Core

型号订购码 Code MLO210 C1 500 3L M P RH T P3
MLO210D2 C1 500 3L M P T P3

本体型号 Item NO.	线圈规格 Coil Size	行程 Stroke	线缆长度 Wire Length	编码器 Encoder	驱动器 Driver	履带取出方向 Caterpillar Band Entry Location	拖链 Drag chain	限位传感器数量 Photoelectric Sensor
MLO 210 单动子型 Single Carriage	C1:标准型动子 Standard Coil	100-4500, 间隔/Gap100	3L:3m	G: 光学尺 Optical Scale	S: 高创 Servotronic	RH:水平右侧取出 Horizontal,Right	T: 含拖链 With Drag chain	P1:1个 1PC
MLO210D2 双动子型 Double Carriage	C2:加长型动子 Extended Coil		5L:5m	M: 磁性尺 Magnetic Scale	P: 松下 Panasonic	LH:水平左侧取出 Horizontal,Left	未标记:无 No Mark: None	P2:2个 2PCS
			8L:8m	B: 编码器 Encoder		RW:壁挂右侧取出 Wall-hanging,Right		P3:3个 3PCS
						LW:壁挂左侧取出 Wall-hanging,Left		未标记:无 No Mark: None



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



规格 Type	MLO210-C1	MLO210-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 torque relate to the following:
$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

履带取出方向 Caterpillar Band Entry Location

MLO-210				MLO-210D2	
RH 水平右侧取出 RH Right & Horizontal	RW 壁挂右侧取出 RW Right & Wall-hanging	LH 水平左侧取出 LH Left & Horizontal	LW 壁挂左侧取出 LW Left & Wall-hanging	H 水平安装 H Horizontal	W 侧挂安装 W Wall-hanging

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
高创 Servotronic	S	CDHD-AP1	脉冲
		CDHD-EC1	EtherCAT
松下 Panasonic	P	MBDLN-SL	脉冲
		MBDLN-BL	EtherCAT

注:请务必按导线槽方向图和各规格图规定的方向进行设置。规定以外的安装会导致故障发生,请务必加以注意。
Note:Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

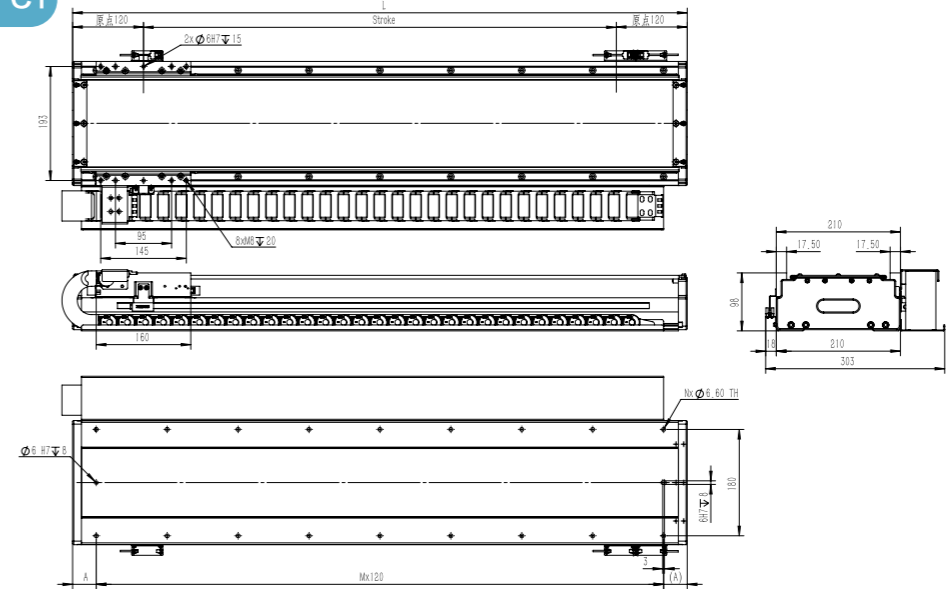
基本规格 Basic Specification

机型 Type	MLO210-C1	MLO210D2-C1	MLO210-C2	MLO210D2-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 μm			
线性度 Strength	X-X		20 μm/300mm	
	Y-Y		20 μm/300mm	
最大负载(加速度1G工况下) Max load	60 kg		120 kg	
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	
持续推力(N) Continuous Thrust(N)	340 N		680 N	
相间电阻(Interphase Resistance)	7.5Ω		3.9Ω	
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	210*98			
原点感应器 Home Sensor	PM-Y45(NPN)			

MLO 210 MLO系列有铁芯式线性马达驱动

MLO Series Linear Motor Driven Type With Iron Core

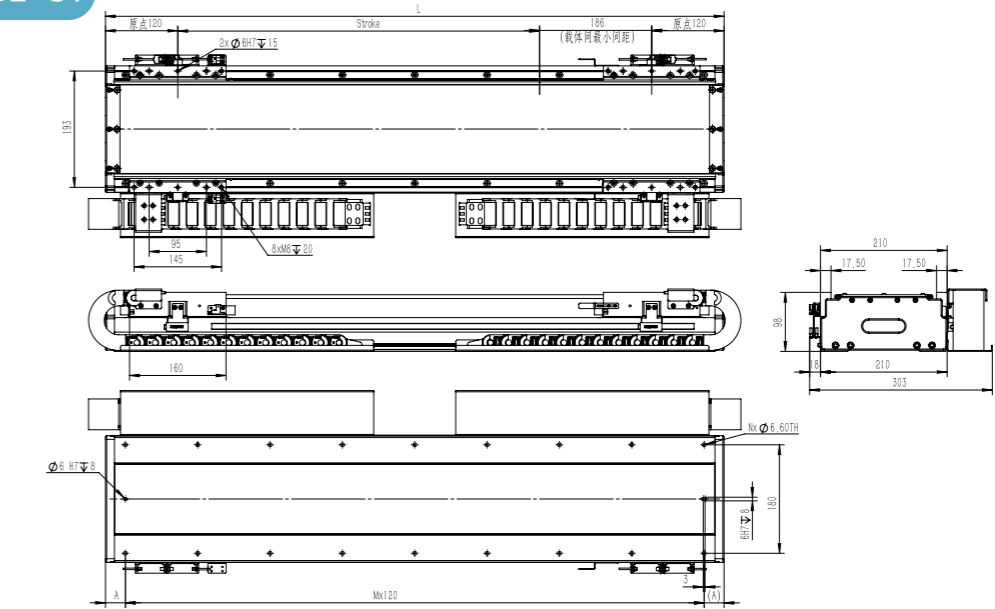
MLO210-C1



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)	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	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	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)	13	15.6	18.2	20.8	23.4	26	28.6	31.2	33.8	36.4	39	41.6	44.2	46.8	49.4	52	54.6	57.2	59.8	62.4	65	67.6	70.2

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)	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	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	72	74	76	78	80	80
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)	72.8	75.4	78	80.6	83.2	85.8	88.4	91	93.6	96.2	98.8	101.4	104	106.6	109.2	111.8	114.4	117	119.6	122.2	124.8	127.4

MLO210D2-C1



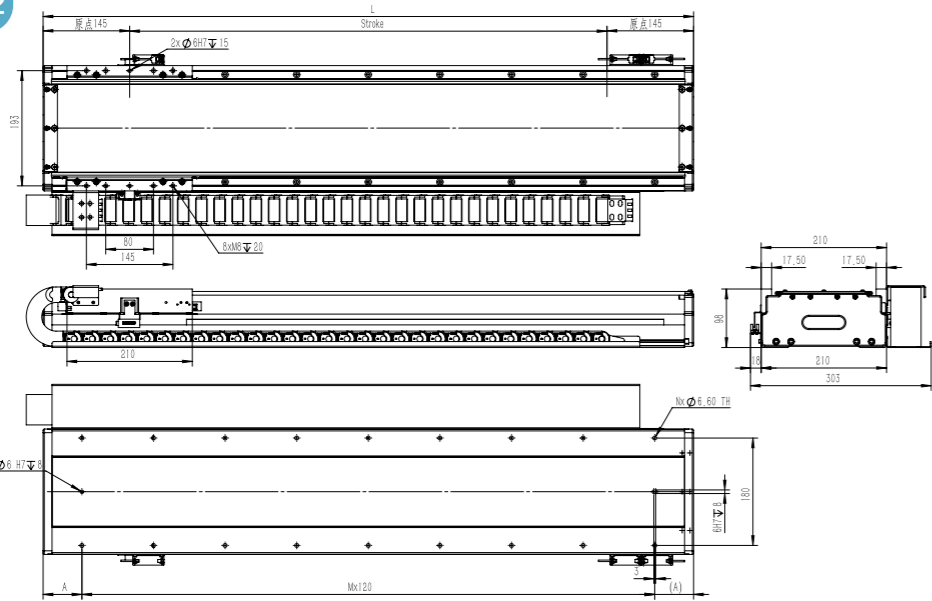
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	526	626	726	826	926	1026	1126	1226	1326	1426	1526	1626	1726	1826	1926	2026	2126	2226	2326	2426	2526	2626	2726
M	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20	21	22
N	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42	44	46
A	83	73	63	53	43	33	83	73	63	53	43	33	83	73	63	53	43	33	83	73	63	53	43
重量 Weight (kg)	22.6	25.2	27.8	30.4	33	35.6	38.2	40.8	43.4	46	48.6	51.2	53.8	56.4	59	61.6	64.2	66.8	69.4	72	74.6	77.2	79.8

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)	2826	2926	3026	3126	3226	3326	3426	3526	3626	3726	3826	3926	4026	4126	4226	4326	4426	4526	4626	4726	4826	4926
M	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38	39	40
N	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78	80	82
A	33	83	73	63	53	43	33	83	73	63	53	43	33	83	73	63	53	43	33	83	73	63
重量 Weight (kg)	82.4	85	87.6	90.2	92.8	95.4	98	100.6	103.2	105.8	108.4	111	113.6	116.2	118.8	121.4	124	126.6	129.2	131.8	134.4	137

MLO 210 MLO系列有铁芯式线性马达驱动

MLO Series Linear Motor Driven Type With Iron Core

MLO210-C2

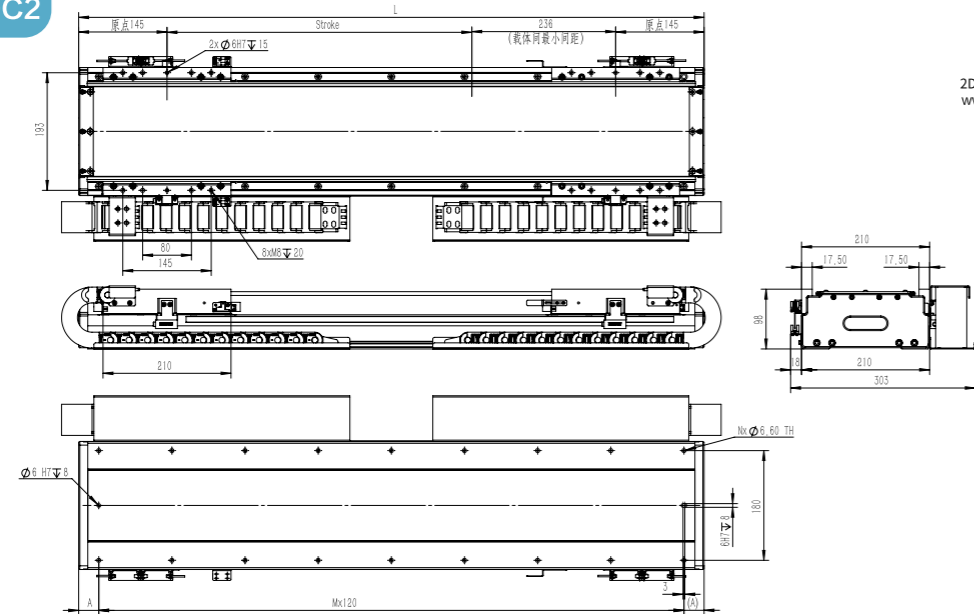


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
总长 Length (L)	390	490	590	690	790	890	990	1090	1190	1290	1390	1490	1590	1690	1790	1890	1990	2090	2190	2290	2390	2490	2590
M	2	3	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	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)	16.4	19	21.6	24.2	26.8	29.4	32	34.6	37.2	39.8	42.4	45	47.6	50.2	52.8	55.4	58	60.6	63.2	65.8	68.4	71	73.6

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)	2690	2790	2890	2990	3090	3190	3290	3390	3490	3590	3690	3790	3890	3990	4090	4190	4290	4390	4490	4590	4690	4790
M	21	22	23	24	25	26	26	27	28	29	30	31	31	32	33	34	35	36	36	37	38	39
N	44	46	48	50	52	54	54	56	58	60	62	64	64	66	68	70	72	74	74	76	78	80
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)	76.2	78.8	81.4	84	86.6	89.2	91.8	94.4	97	99.6	102.2	104.8	107.4	110	112.6	115.2	117.8	120.4	123	125.6	128.2	130.8

MLO210D2-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)	626	726	826	926	1026	1126	1226	1326	1426	1526	1626	1726	1826	1926	2026	2126	2226	2326	2426	2526	2626	2726	2826
M	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20	21	22	23
N	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42	44	46	48
A	73	63	53	43	33	83	73	63	53	43	33	83	73	63	53	43	33	83	73	63	53	43	33
重量 Weight (kg)	29.4	32	34.6	37.2	39.8	42.4	45	47.6	50.2	52.8	55.4	58	60.6	63.2	65.8	68.4	71	73.6	76.2	78.8	81.4	84	86.6

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)	2926	3026	3126	3226	3326	3426	3526	3626	3726	3826	3926	4026	4126	4226	4326	4426	4526	4626	4726	4826	4926	5026
M	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38	39	40	41
N	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78	80	82	84
A	83	73	63	53	43	33	83	73	63	53	43	33	83	73	63	53	43	33	83	73	63	53
重量 Weight (kg)	89.2	91.8	94.4	97	99.6	102.2	104.8	107.4	110	112.6	115.2	117.8	120.4	123	125.6	128.2	130.8	133.4	136	138.6	141.2	143.8

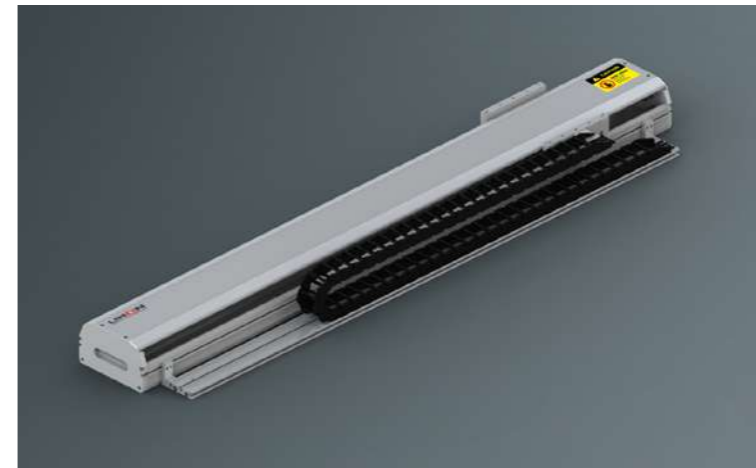
ZLO 17 ZLO系列有铁芯式线性马达驱动

ZLO Series Linear Motor Driven Type With Iron Core

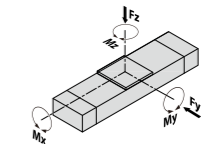
型号订购码 Code

ZLO 17	C1	500	3L	M	P	RH		T	P3
ZLO 17D2	C1	500	3L	M	P		H	T	P3

本体型号 Item NO.	线圈规格 Coil Size	行程 Stroke	线缆长度 Wire Length	编码器 Encoder	驱动器 Driver	履带取出方向 Caterpillar Band Entry Location	安装方式 Mounting	拖链 Drag chain	限位传感器数量 Photoelectric Sensor
ZLO17 单动子型 Single Carriage	C1:标准型动子 Standard Coil	180-2460, 间隔/Gap120	3L:3m	G: 光学尺 Optical Scale	S: 高创 Servotronics	RH:水平右侧取出 Horizontal, Right	H:水平安装 Horizontal	T: 含拖链 With Drag chain	P1:1个1PC
ZLO17D2 双动子型 Double Carriage	C2:加长型动子 Extended Coil		5L:5m	M: 磁性尺 Magnetic Scale	P: 松下 Panasonic	LH:水平左侧取出 Horizontal, Left	W:侧挂安装 Wall-hanging	未标记:无 No Mark: None	P2:2个2PCS
	C3:超长型动子 Ultralong Coil		8L:8m			RW:壁挂右侧取出 Wall-hanging, Right			P3:3个3PCS
						LW:壁挂左侧取出 Wall-hanging, Left			未标记:无 No Mark: None



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



规格 Type	ZLO17-C1	ZLO17-C2	ZLO17-C3
F(y) (N·m)	7463	9702	11941
F(z) (N·m)	7463	9702	11941
M(x) (N·m)	339	339	475
M(y) (N·m)	167	369	517
M(z) (N·m)	696	1186	1660

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

履带取出方向 Caterpillar Band Entry Location

ZLO-17		ZLO-17D2		厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
RH 水平右侧取出 Right & Horizontal	RW 壁挂右侧取出 Right & Wall-hanging	LH 水平左侧取出 Left & Horizontal	LW 壁挂左侧取出 Left & Wall-hanging	高创 Servotronics	S	CDHD-AP1	脉冲
						CDHD-EC1	EtherCAT
				松下 Panasonic	P	MBDLN-SL	脉冲
						MBDLN-BL	EtherCAT

注:请务必按导线槽方向图和各规格图规定的方向进行设置。规定以外的安装会导致故障发生,请务必加以注意。
Note:Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

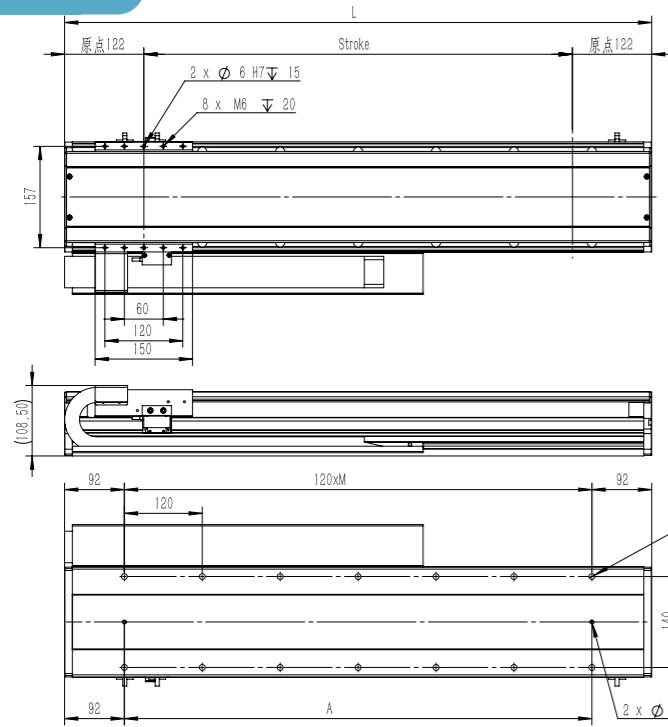
基本规格 Basic Specification

机型 Type	ZLO17-C1	ZLO17-C2	ZLO17-C3
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	5 #1		
持续推力(N) Continuous Thrust(N)	100	180	270
最大推力(N) Max Thrust(N)	280	504	756
最大加速度(M/S ²) Max Accelerated Speed	4G		
最大速度(MM/S) Max Speed	4000		
标准行程 (mm) Standard Stroke	180-2460 mm / 120 pitch		
主机截面最大外形: Max Outline of Main Engine's Cross Section	183*102		
高刚性直线滑轨 (mm) High Stiffness Linear Guide	20型导轨 2支 / 20 Guide 2 PCS		
履带内部容积: Internal Capacity of Caterpillar Band	17*25		
原点感应器 Home Sensor	EE-SX672(NPN)		

注#1:
1. 最高速度随最小分辨率而变化。
2. 动作速度、加速度等规格受负载的限制。
3. 加速度为2G动作时的负载,所到达速度,受推力和速度特性的限制。
4. 反复运动0背隙。

Note #1:
1. The max speed depends on the minimum resolution.
2. Movement speed and accelerated speed are restricted by the load.
3. The load that when the accelerated speed is 2G, and then speed reached is restricted by the thrust and its speed characteristics.
4. Repetitive movement with zero back clearance.

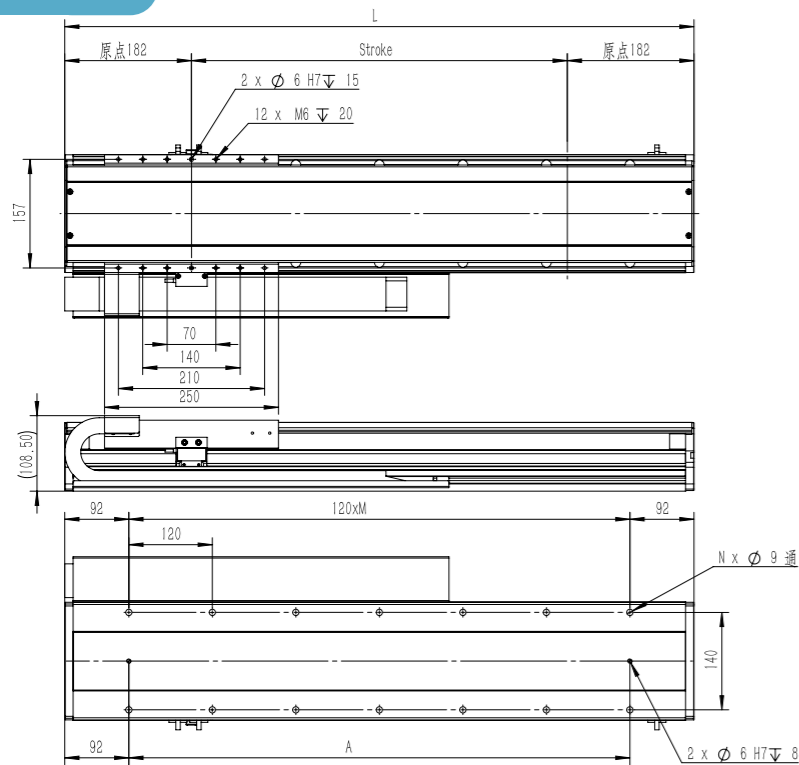
ZLO 17-C1



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行程 Stroke (mm)	180	300	420	540	660	780	900	1020	1140	1260	1380	1500	1620	1740	1860	1980	2100	2220	2340	2460
总长 Length (L)	424	544	664	784	904	1024	1144	1264	1384	1504	1624	1744	1864	1984	2104	2224	2344	2464	2584	2704
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
A	240	360	480	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
重量 Weight (kg)	14	16.3	18.6	20.9	23.2	25.5	27.8	30.1	32.4	34.7	37	39.3	41.6	43.9	46.2	48.5	50.8	53.1	55.4	57.7

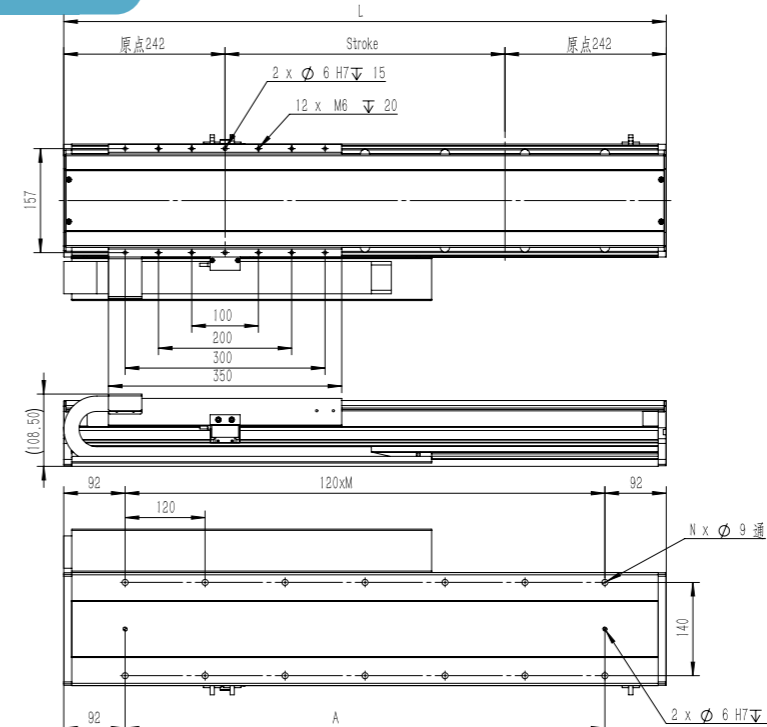
ZLO 17-C2



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行程 Stroke (mm)	180	300	420	540	660	780	900	1020	1140	1260	1380	1500	1620	1740	1860	1980	2100	2220	2340	2460
总长 Length (L)	544	664	784	904	1024	1144	1264	1384	1504	1624	1744	1864	1984	2104	2224	2344	2464	2584	2704	2824
M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	360	480	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520	2640
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46
重量 Weight (kg)	15.8	18.1	20.4	22.7	25	27.3	29.6	31.9	34.2	36.5	38.8	41.1	43.4	45.7	48	50.3	52.6	54.9	57.2	59.5

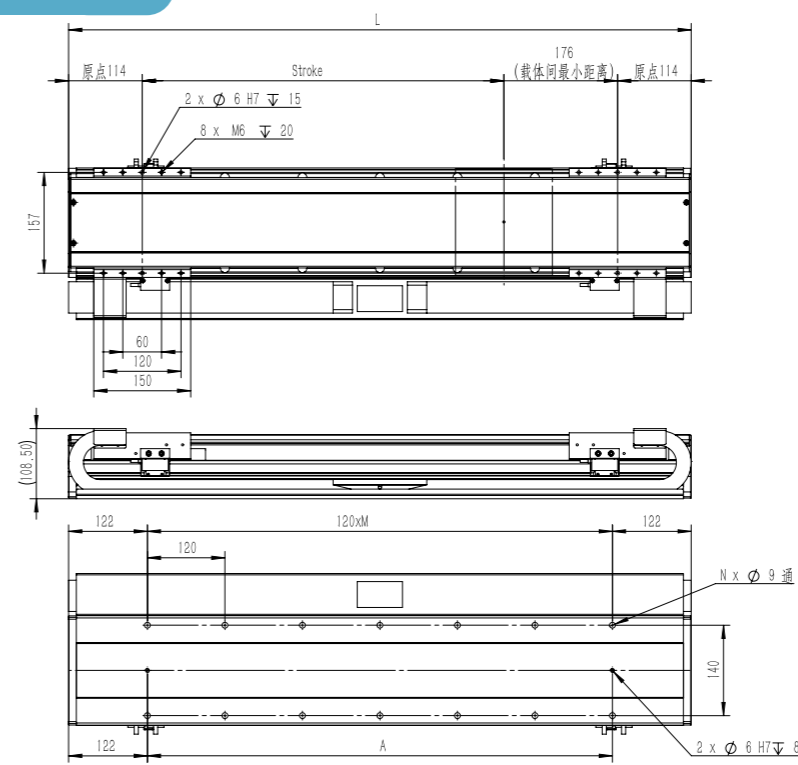
ZLO 17-C3



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行程 Stroke (mm)	180	300	420	540	660	780	900	1020	1140	1260	1380	1500	1620	1740	1860	1980	2100	2220	2340	2460
总长 Length (L)	664	784	904	1024	1144	1264	1384	1504	1624	1744	1864	1984	2104	2224	2344	2464	2584	2704	2824	2944
M	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A	480	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520	2640	2760
N	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
重量 Weight (kg)	17.8	20.1	22.4	24.7	27	29.3	31.6	33.9	36.2	38.5	40.8	43.1	45.4	47.7	50	52.3	54.6	56.9	59.2	61.5

ZLO17D2-C1



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行程 Stroke (mm)	200	320	440	560	680	800	920	1040	1160	1280	1400	1520	1640	1760	1880	2000	2120	2240	2360	2480
总长 Length (L)	604	724	844	964	1084	1204	1324	1444	1564	1684	1804	1924	2044	2164	2284	2404	2524	2644	2764	2884
M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	360	480	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520	2640
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46
重量 Weight (kg)	17.2	19.5	21.8	24.1	26.4	28.7	31	33.3	35.6	37.9	40.2	42.5	44.8	47.1	49.4	51.7	54	56.3	58.6	60.9

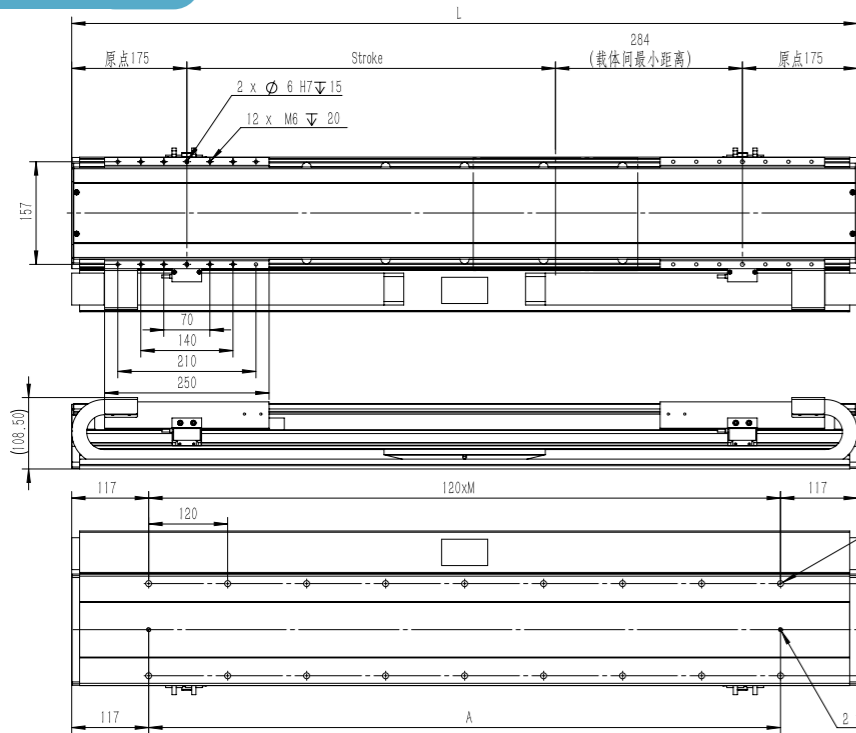
ZLO Series

ZLO Series

ZLO 17 ZLO系列有铁芯式线性马达驱动

ZLO Series Linear Motor Driven Type With Iron Core

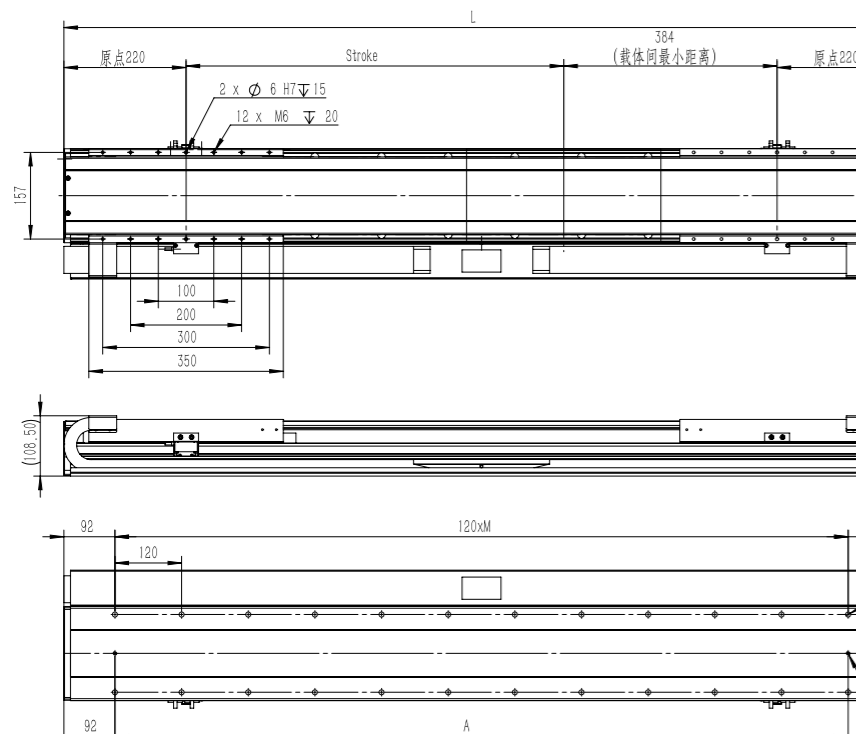
ZLO 17D2-C2



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行程 Stroke (mm)	200	320	440	560	680	800	920	1040	1160	1280	1400	1520	1640	1760	1880	2000	2120	2240	2360	2480
总长 Length (L)	834	954	1074	1194	1314	1434	1554	1674	1794	1914	2034	2154	2274	2394	2514	2634	2754	2874	2994	3114
M	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
A	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520	2640	2760	2880
N	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
重量 Weight (kg)	25.8	28.1	30.4	32.7	35	37.3	39.6	41.9	44.2	46.5	48.8	51.1	53.4	55.7	58	60.3	62.6	64.9	67.2	69.5

ZLO 17D2-C3



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行程 Stroke (mm)	200	320	440	560	680	800	920	1040	1160	1280	1400	1520	1640	1760	1880	2000	2120	2240	2360	2480
总长 Length (L)	1024	1144	1264	1384	1504	1624	1744	1864	1984	2104	2224	2344	2464	2584	2704	2824	2944	3064	3184	3304
M	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
A	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520	2640	2760	2880	3000	3120
N	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
重量 Weight (kg)	30.2	32.5	34.8	37.1	39.4	41.7	44	46.3	48.6	50.9	53.2	55.5	57.8	60.1	62.4	64.7	67	69.3	71.6	73.9

ZLO 22 ZLO系列有铁芯式线性马达驱动

ZLO Series Linear Motor Driven Type With Iron Core



本体型号 Item NO.	线圈规格 Coil Size	行程 Stroke	线缆长度 Wire Length	编码器 Encoder	驱动器 Driver	履带取出方向 Caterpillar Band Entry Location	安装方式 Mounting	拖链 Drag chain	限位传感器数量 Photoelectric Sensor
ZLO 22 单动子型 Single Carriage	C1:标准型动子 Standard Coil	180-2460, 间隔/Gap120	3L:3m 5L:5m 8L:8m	G: 光学尺 Optical Scale M: 磁性尺 Magnetic Scale	S: 高创 Servotronics P: 松下 Panasonic	RH:水平右侧取出 Horizontal,Right LH:水平左侧取出 Horizontal,Left RW:壁挂右侧取出 Wall-hanging,Right LW:壁挂左侧取出 Wall-hanging,Left	H:水平安装 Horizontal W:侧挂安装 Wall-hanging	T: 含拖链 With Drag chain 未标记:无 No Mark: None	P1:1个1PC P2:2个2PCS P3:3个3PCS 未标记:无 No Mark: None



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

规格 Type	ZLO22-C1	ZLO22-C2	ZLO22-C3
F(y) (N·m)	12916	12916	15119
F(z) (N·m)	12916	12916	15119
M(x) (N·m)	650	650	650
M(y) (N·m)	344	672	1008
M(z) (N·m)	672	700	1050

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

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

履带取出方向 Caterpillar Band Entry Location



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
高创 Servotronics	S	CDHD-AP1	脉冲
		CDHD-EC1	EtherCAT
松下 Panasonic	P	MBDLN-SL	脉冲
		MBDLN-BL	EtherCAT

注:请务必按导线槽方向图和各规格图规定的方向进行设置。规定以外的安装会导致故障发生,请务必加以注意。
 Note:Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

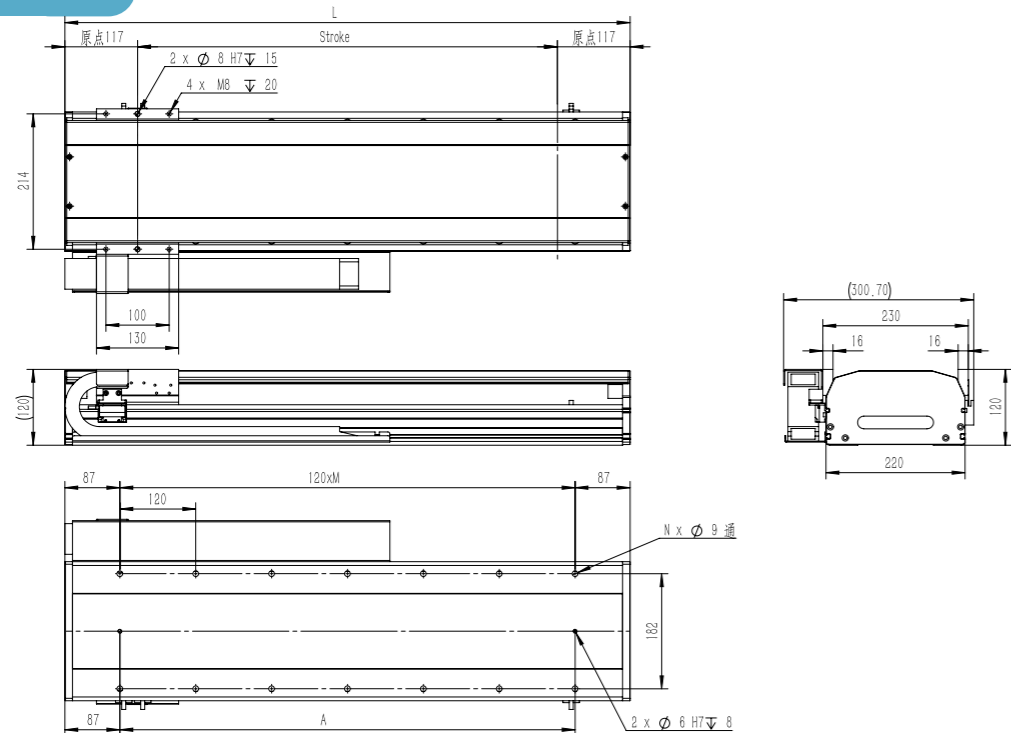
基本规格 Basic Specification

机型 Type	ZLO22-C1	ZLO22-C2	ZLO22-C3
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	5 #1		
持续推力(N) Continuous Thrust(N)	160	288	432
最大推力(N) Max Thrust(N)	448	806	1210
最大加速度(M/S²) Max Accelerated Speed	4G		
最大速度(MM/S) Max Speed	4000		
标准行程 (mm) Standard Stroke	180-2460 mm / 120 pitch		
主机截面最大外形: Max Outline of Main Engine's Cross Section	183*102		
高刚性直线滑轨 (mm) High Stiffness Linear Guide	25型导轨2支/25 Guide 2 PCS		
履带内部容积: Internal Capacity of Caterpillar Band	17*25		
原点感应器 Home Sensor	EE-SX672(NPN)		

注#1:
 1. 最高速度随最小分辨率而变化。
 2. 动作速度、加速度等规格受负载的限制。
 3. 加速度为2G动作时的负载,所到达速度,受推力和速度特性的限制。
 4. 反复运动0背隙。

Note #1:
 1. The max speed depends on the minimum resolution.
 2. Movement speed and accelerated speed are restricted by the load.
 3. The load that when the accelerated speed is 2G, and then speed reached is restricted by the thrust and its speed characteristics.
 4. Repetitive movement with zero back clearance.

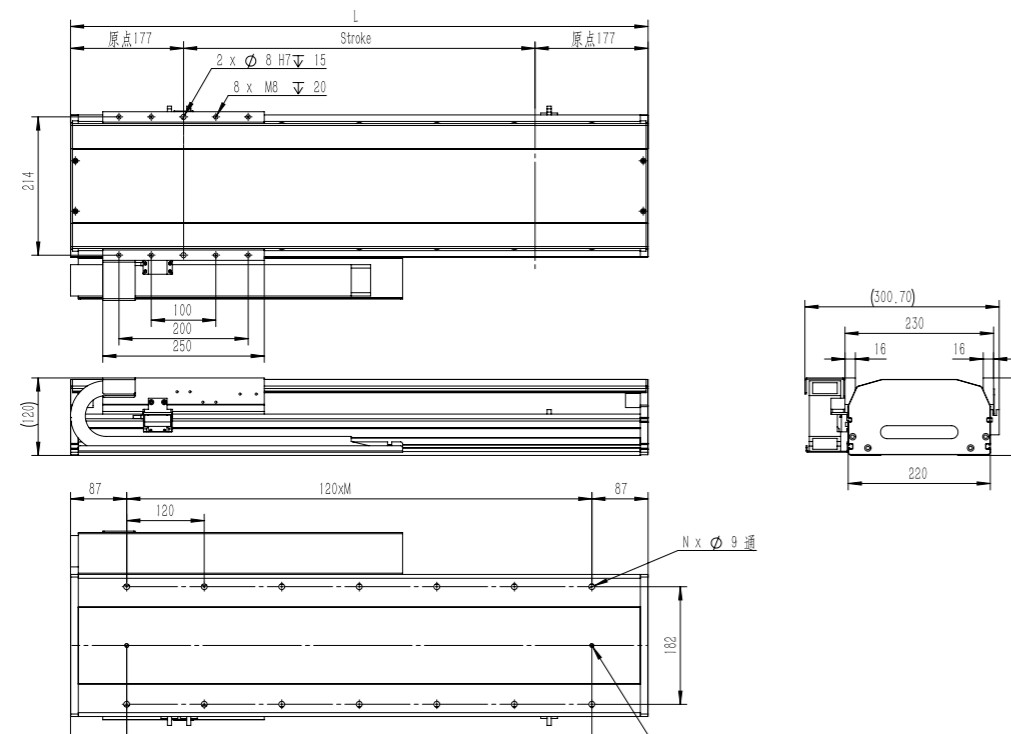
ZLO 22-C1



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行程 Stroke (mm)	180	300	420	540	660	780	900	1020	1140	1260	1380	1500	1620	1740	1860	1980	2100	2220	2340	2460
总长 Length (L)	414	534	654	774	894	1014	1134	1254	1374	1494	1614	1734	1854	1974	2094	2214	2334	2454	2574	2694
M	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
A	240	360	480	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520
N	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
重量 Weight (kg)	28.3	30.5	32.7	34.9	37.1	39.3	41.5	43.7	45.9	48.1	50.3	52.5	54.7	56.9	59.1	61.3	63.5	65.7	67.9	70.1

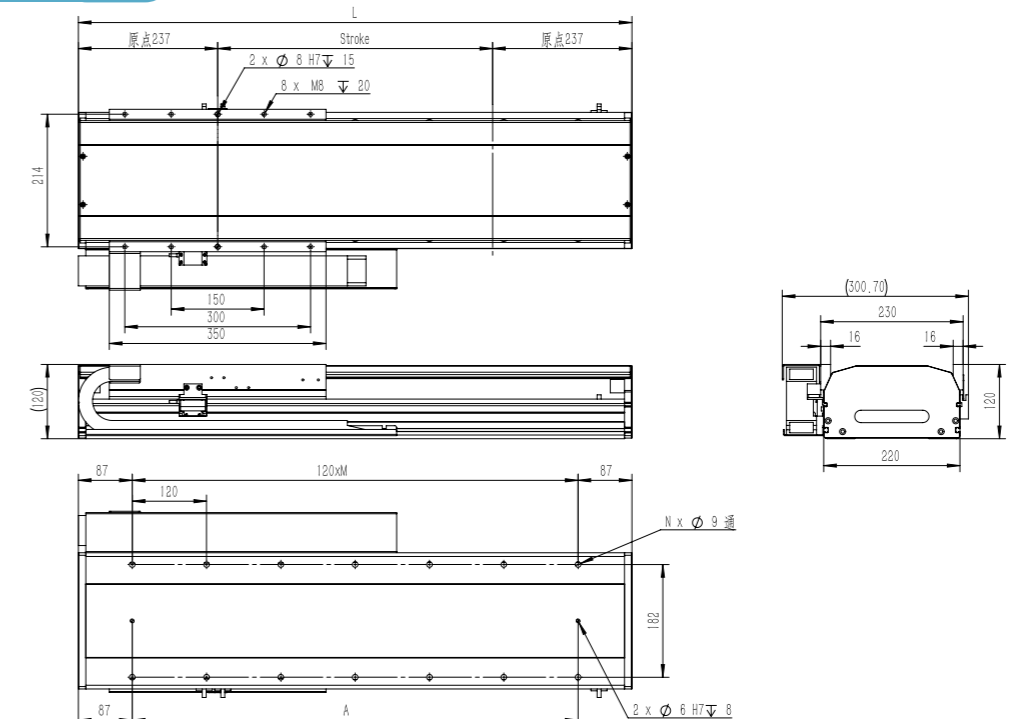
ZLO 22-C2



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行程 Stroke (mm)	180	300	420	540	660	780	900	1020	1140	1260	1380	1500	1620	1740	1860	1980	2100	2220	2340	2460
总长 Length (L)	534	654	774	894	1014	1134	1244	1374	1494	1614	1734	1854	1974	2094	2214	2334	2454	2574	2694	2814
M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	360	480	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520	2640
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46
重量 Weight (kg)	34.8	37	39.2	41.4	43.6	45.8	48	50.2	52.4	54.6	56.8	59	61.2	63.4	65.6	67.8	70.0	72.2	74.4	76.6

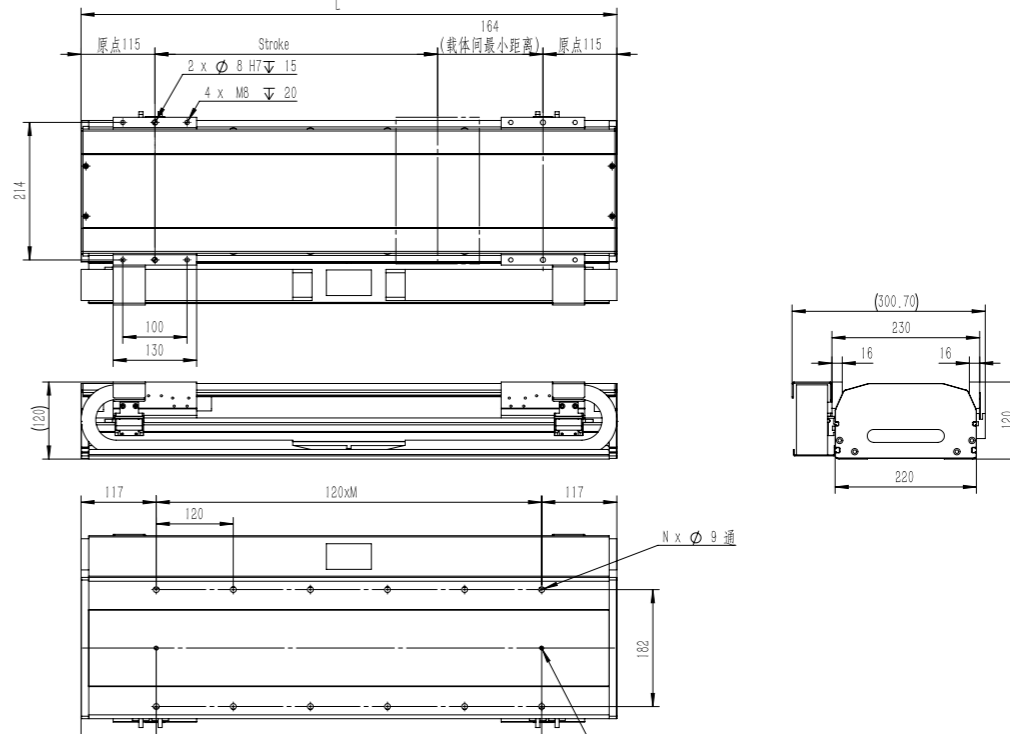
ZLO 22-C3



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行程 Stroke (mm)	180	300	420	540	660	780	900	1020	1140	1260	1380	1500	1620	1740	1860	1980	2100	2220	2340	2460
总长 Length (L)	654	774	894	1014	1134	1254	1374	1494	1614	1734	1854	1974	2094	2214	2334	2454	2574	2694	2814	2934
M	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A	480	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520	2640	2760
N	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
重量 Weight (kg)	42.3	44.5	46.7	48.9	51.1	53.3	55.5	57.7	59.9	62.1	64.3	66.5	68.7	70.9	73.1	75.3	77.5	79.7	81.9	84.1

ZLO 22D2-C1



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行程 Stroke (mm)	200	320	440	560	680	800	920	1040	1160	1280	1400	1520	1640	1760	1880	2000	2120	2240	2360	2480
总长 Length (L)	594	714	834	954	1074	1194	1314	1434	1554	1674	1794	1914	2034	2154	2274	2394	2514	2634	2754	2874
M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	480	600	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400	2520	2640	2760
N	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
重量 Weight (kg)	36.3	38.5	40.7	42.9	45.1	47.3	49.5	51.7	53.9	56.1	58.3	60.5	62.7	64.9	67.1	69.3	71.5	73.7	75.9	78.1

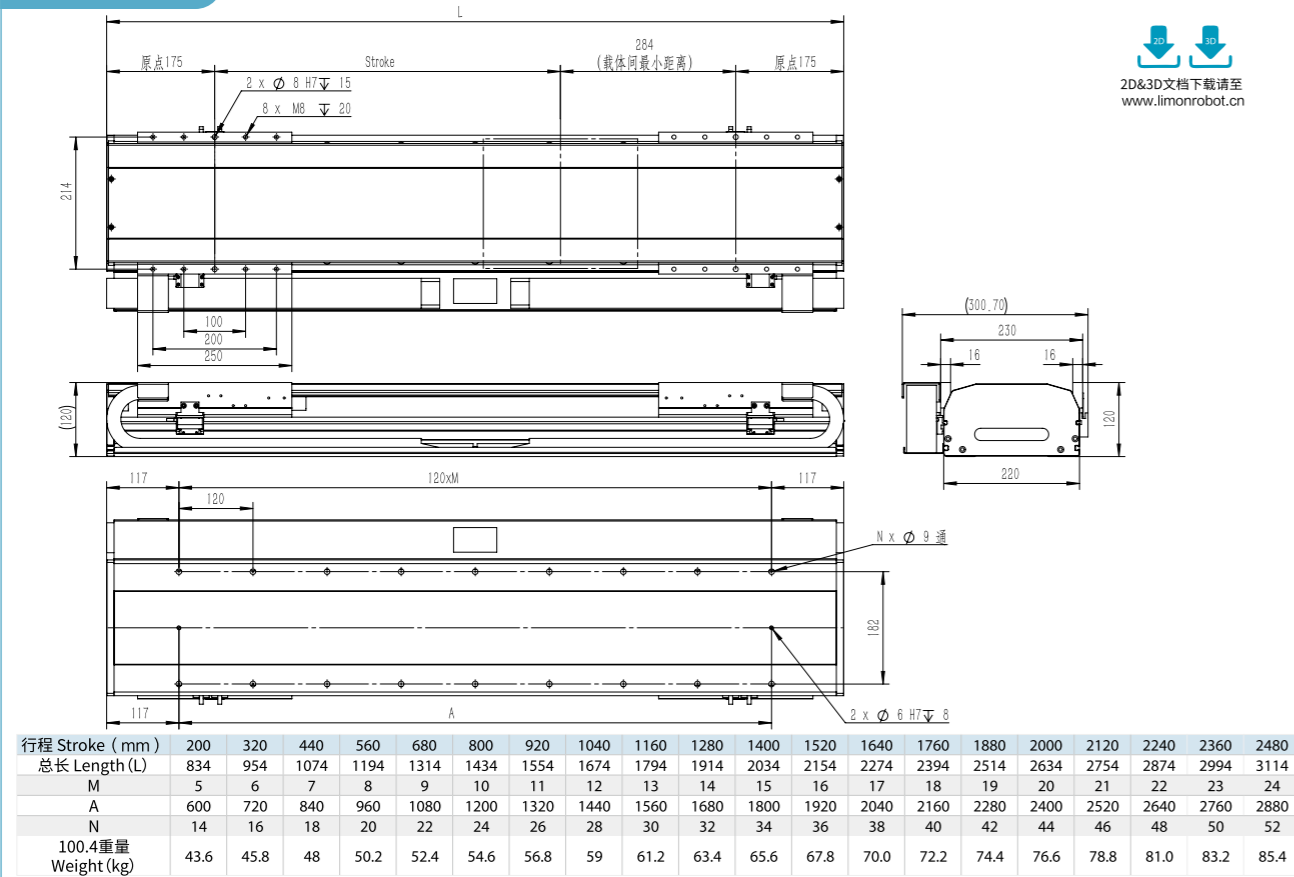
ZLO Series

ZLO Series

ZLO 22 ZLO系列有铁芯式线性马达驱动

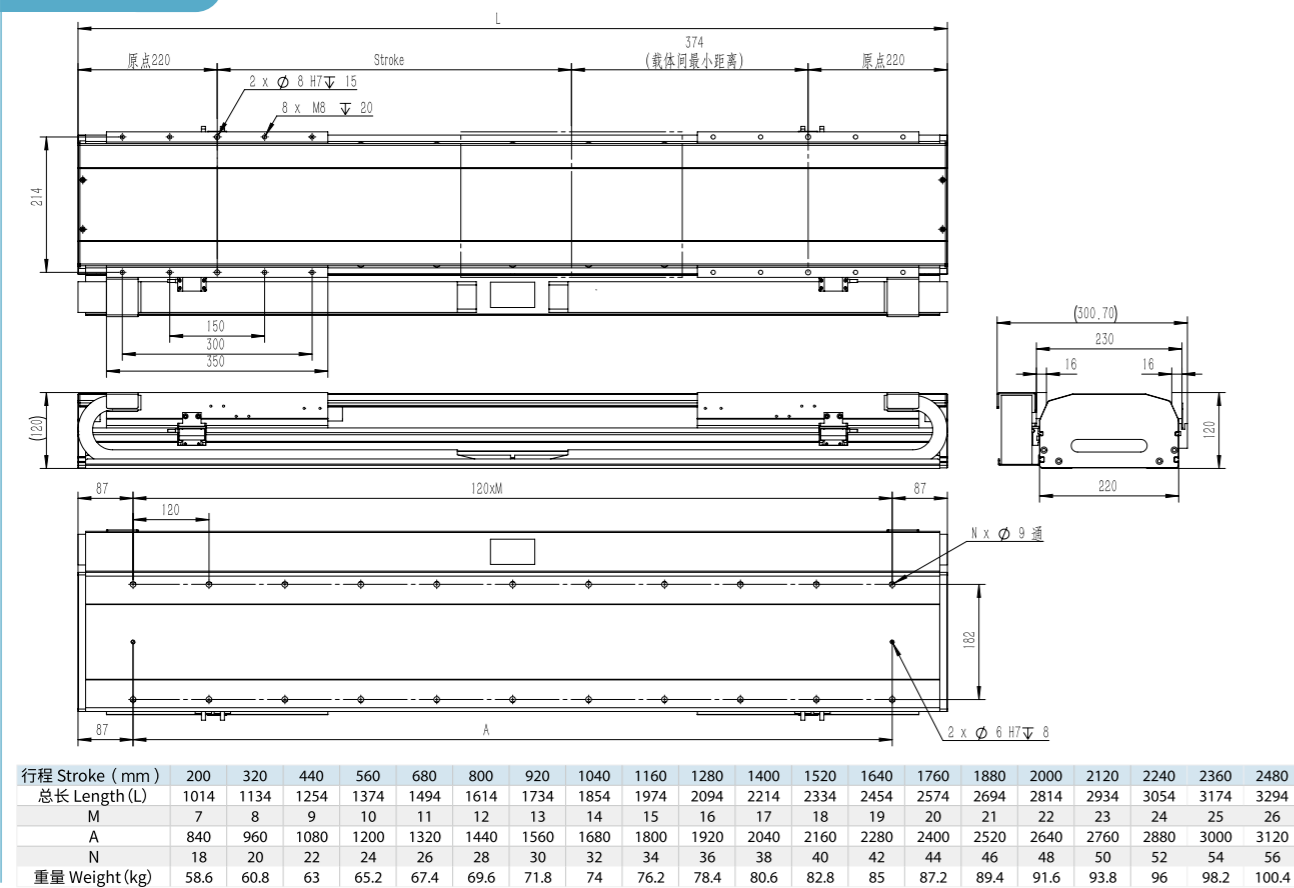
ZLO Series Linear Motor Driven Type With Iron Core

ZLO 22D2-C2



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ZLO 22D2-C3



WLO 14 WLO系列有铁芯式线性马达驱动

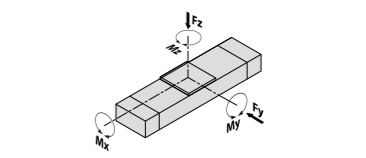
WLO Series Linear Motor Driven Type With Iron Core

型号订购码 Code: WLO 14 C1 500 3L M P RH T P3
WLO 14D2 C1 500 3L M P H T P3

本体型号 Item NO.	线圈规格 Coil Size	行程 Stroke	线缆长度 Wire Length	编码器 Encoder	驱动器 Driver	履带取出方向 Caterpillar Band Entry Location	安装方式 Mounting	拖链 Drag chain	限位传感器数量 Photoelectric Sensor
WLO14 单动子型 Single Carriage	C1:标准型动子 Standard Coil	143-2303, 间隔/Gap108	3L:3m	G: 光学尺 Optical Scale	S: 高创 Servotronics P: 松下 Panasonic	RH:水平右侧取出 Horizontal,Right LH:水平左侧取出 Horizontal,Left RW:壁挂右侧取出 Wall-hanging,Right LW:壁挂左侧取出 Wall-hanging,Left	H:水平安装 Horizontal W:侧挂安装 Wall-hanging	T: 含拖链 With Drag chain 未标记:无 No Mark:None	P1:1个1PC P2:2个2PCS P3:3个3PCS 未标记:无 No Mark:None
WLO14D2 双动子型 Double Carriage	C2:加长型动子 Extended Coil		5L:5m 8L:8m	M: 磁性尺 Magnetic Scale B: 编码器 Encoder					



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



规格 Type	WLO14-C1	WLO14-C2
F(y) (N·m)	5370	6980
F(z) (N·m)	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 torque relate to the following:
 $\frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$

履带取出方向 Caterpillar Band Entry Location



搭配驱动器一览表 Driver

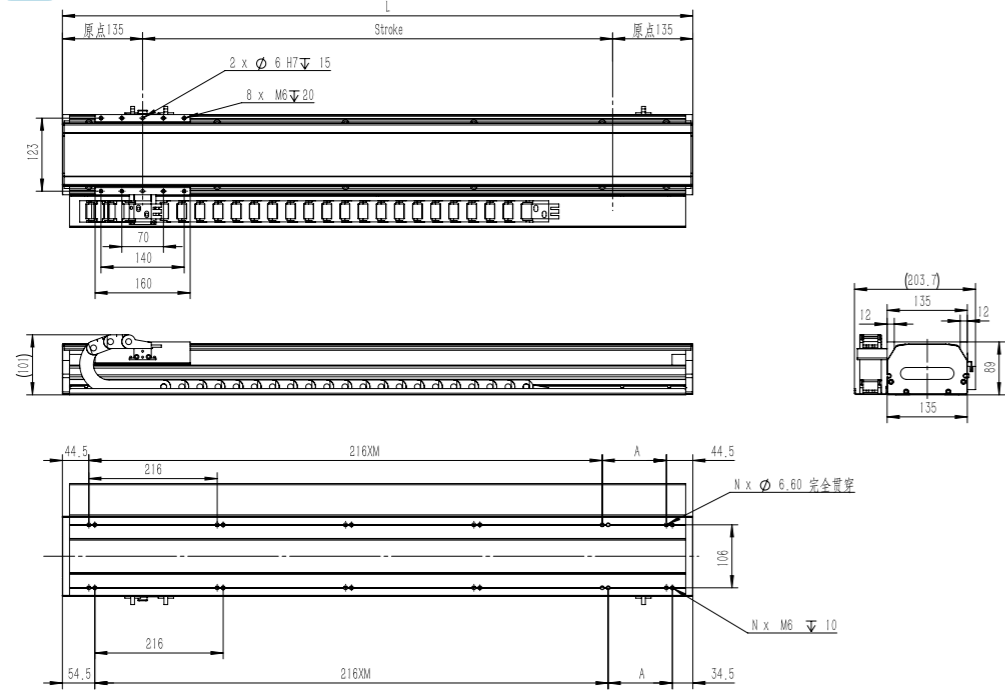
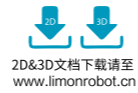
厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
高创 Servotronics	S	CDHD-AP1	脉冲
		CDHD-EC1	EtherCAT
松下 Panasonic	P	MBDLN-SL	脉冲
		MBDLN-BL	EtherCAT

注:请务必按导线槽方向图和各规格图规定的方向进行设置。规定以外的安装会导致故障发生,请务必加以注意。
Note:Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

基本规格 Basic Specification

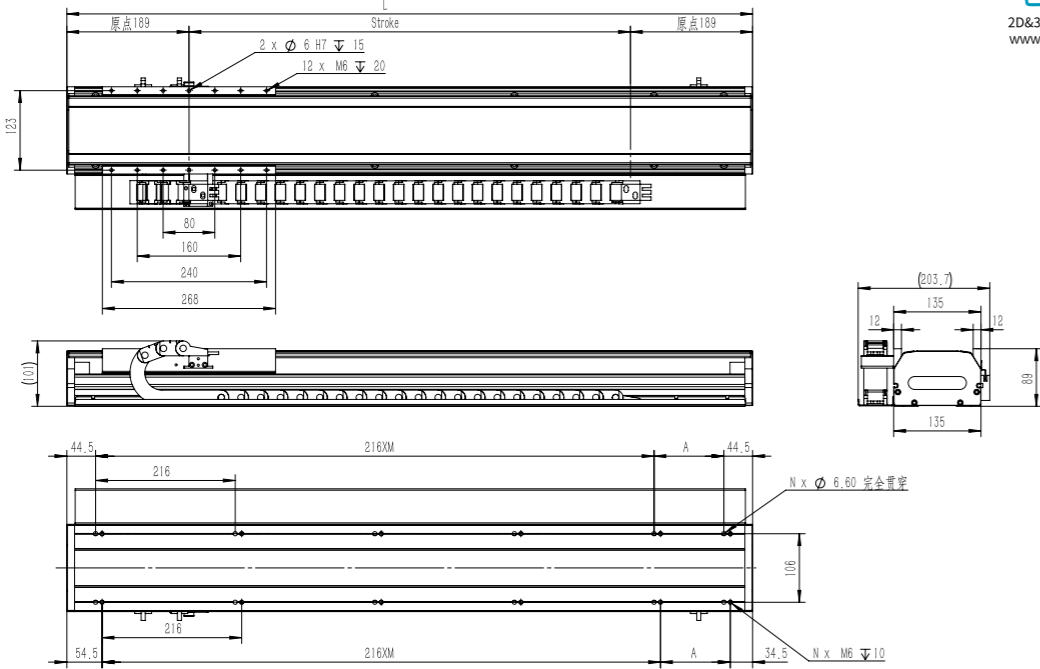
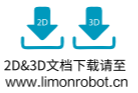
技术参数 Technical Parameters	机型 Type	WLO14- C1	WLO14- C2
	驱动方式 Driving Method	有铁芯平板线性马达 Linear Motor Driven Type With Iron Core	
位置重复精度(μ) Repetitive Accuracy	5 #1		
持续推力(N) Continuous Thrust(N)		40	80
最大推力(N) Max Thrust(N)		120	240
最大加速度(M/S²) Max Accelerated Speed		4G	
最大速度(MM/S) Max Speed		4000	
标准行程 (mm) Standard Stroke		143-2303 mm / 108 pitch	
主机截面最大外形:Max Outline of Main Engine's Cross Section		148*89	
高刚性直线滑轨 (mm) High Stiffness Linear Guide		15型导轨 2支 / 15 Guide 2PCS	
履带内部容积:Internal Capacity of Caterpillar Band		17*25	
原点感应器 Home Sensor		EE-SX672(NPN)	

WLO14-C1



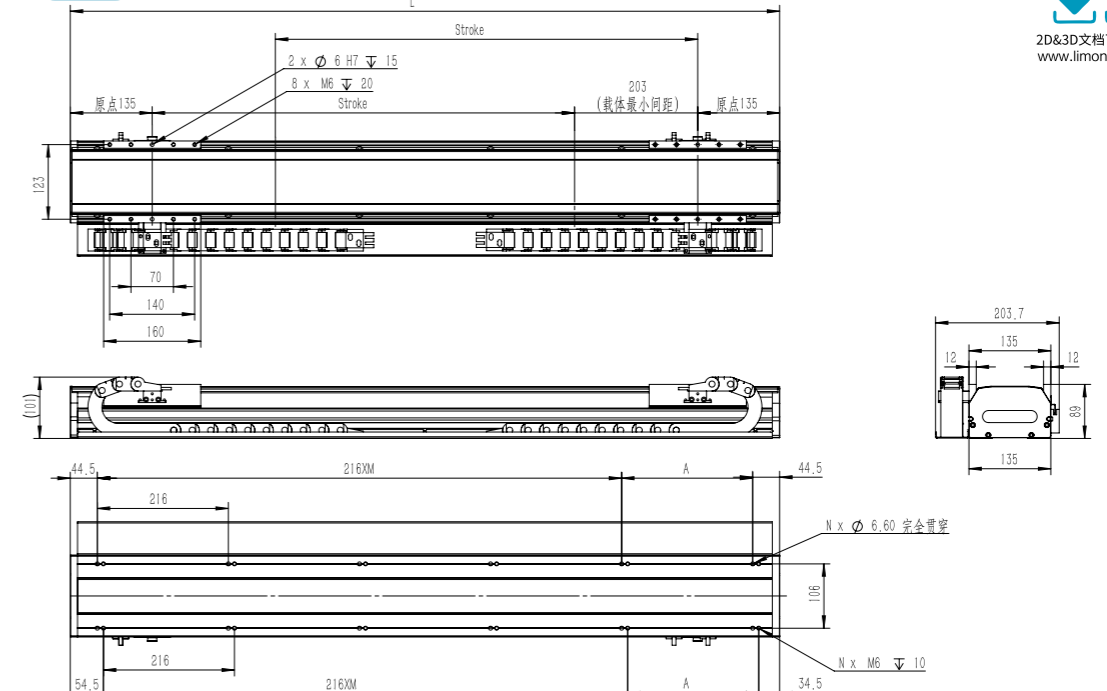
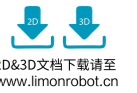
行程 Stroke (mm)	143	251	359	467	575	683	791	899	1007	1115	1223	1331	1439	1547	1655	1763	1871	1979	2087	2195	2303
总长 Length (L)	413	521	629	737	845	953	1061	1169	1277	1385	1493	1601	1709	1817	1925	2033	2141	2249	2357	2465	2573
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
A	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
重量 Weight (kg)	8.3	9.0	9.8	10.5	11.3	12.0	12.8	13.5	14.3	15.0	15.8	16.5	17.3	18.0	18.8	19.5	20.3	21.0	21.8	22.5	23.3

WLO14-C2



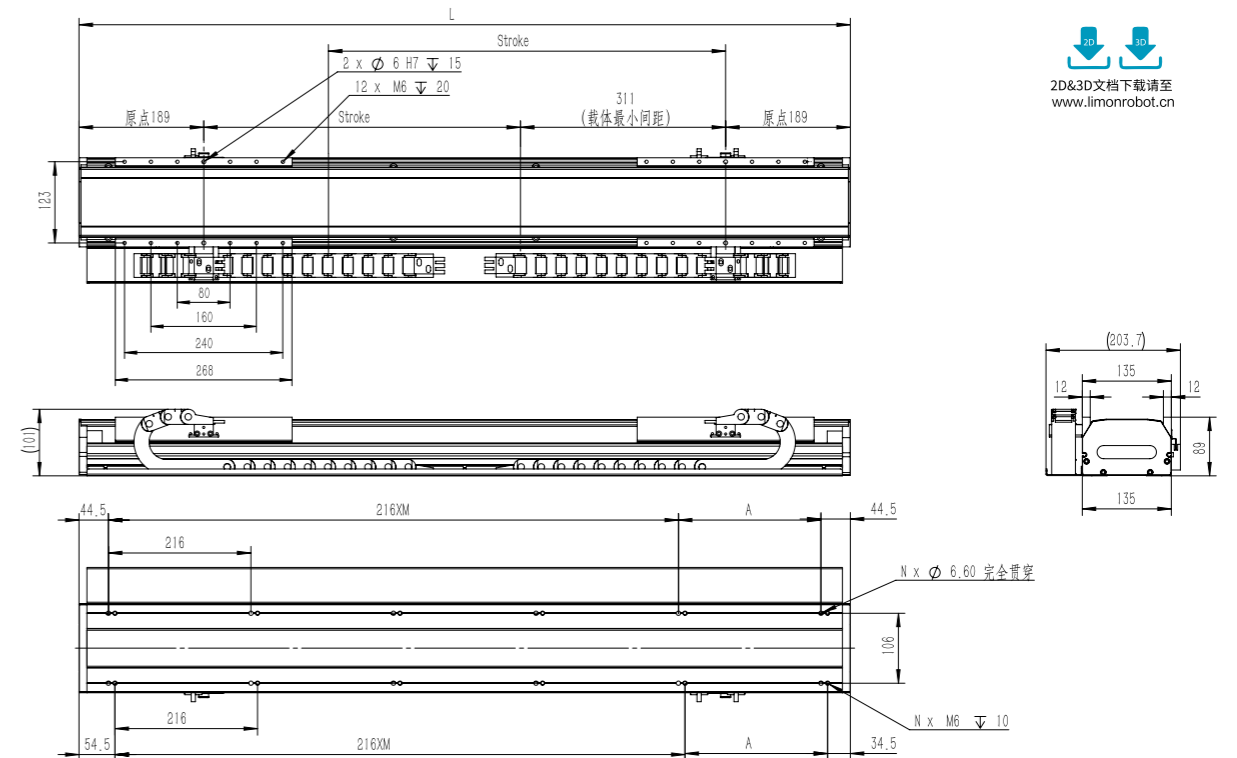
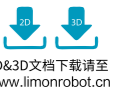
行程 Stroke (mm)	143	251	359	467	575	683	791	899	1007	1115	1223	1331	1439	1547	1655	1763	1871	1979	2087	2195
总长 Length (L)	521	629	737	845	953	1061	1169	1277	1385	1493	1601	1709	1817	1925	2033	2141	2249	2357	2465	2573
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
A	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108
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)	10.4	11.1	11.9	12.6	13.4	14.1	14.9	15.6	16.4	17.1	17.9	18.6	19.4	20.1	20.9	21.6	22.4	23.1	23.9	24.6

WLO14D2-C1



行程 Stroke (mm)	156	264	372	480	588	696	804	912	1020	1128	1236	1344	1452	1560	1668	1776	1884	1992	2100
总长 Length (L)	629	737	845	953	1061	1169	1277	1385	1493	1601	1709	1817	1925	2033	2141	2249	2357	2465	2573
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
A	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
重量 Weight (kg)	11.5	12.3	13.0	13.8	14.5	15.3	16.0	16.8	17.5	18.3	19.0	19.8	20.5	21.3	22.0	22.8	23.5	24.3	25.0

WLO14D2-C2



行程 Stroke (mm)	156	264	372	480	588	696	804	912	1020	1128	1236	1344	1452	1560	1668	1776	1884
总长 Length (L)	845	953	1061	1169	1277	1385	1493	1601	1709	1817	1925	2033	2141	2249	2357	2465	2573
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
A	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
重量 Weight (kg)	14.0	14.7	15.5	16.2	17.0	17.7	18.5	19.2	20.0	20.7	21.5	22.2	23.0	23.7	24.5	25.2	26.0

WLO Series

WLO Series

WLO 17 WLO系列有铁芯式线性马达驱动

WLO Series Linear Motor Driven Type With Iron Core

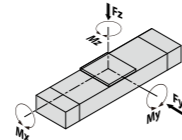
型号订购码 Code: WLO 17 - C1 - 500 - 3L - M - P - RH - [] - T - P3

WLO 17D2 - C1 - 500 - 3L - M - P - [] - H - T - P3

本体型号 Item NO.	线圈规格 Coil Size	行程 Stroke	线缆长度 Wire Length	编码器 Encoder	驱动器 Driver	履带取出方向 Caterpillar Band Entry Location	安装方式 Mounting	拖链 Drag chain	限位传感器数量 Photoelectric Sensor
WLO17 单动子型 Single Carriage	C1:标准型动子 Standard Coil	143-2303, 间隔/Gap:108	3L:3m	G: 光学尺 Optical Scale	S: 高创 Servotronic	RH:水平右侧取出 Horizontal,Right	H:水平安装 Horizontal	T:含拖链 With Drag chain	P1:1个 1PC
WLO17D2 双动子型 Double Carriage	C2:加长型动子 Extended Coil		5L:5m	M: 磁性尺 Magnetic Scale	P: 松下 Panasonic	LH:水平左侧取出 Horizontal,Left	W:侧挂安装 Wall-hanging	未标记:无 No Mark: None	P2:2个 2PCS
	C3:超长型动子 Ultralong Coil		8L:8m	B: 编码器 Encoder		RW:壁挂右侧取出 Wall-hanging,Right			P3:3个 3PCS
						LW:壁挂左侧取出 Wall-hanging,Left			未标记:无 No Mark: None



最大动力和力矩 Max Permissible Forces And Torques



规格 Type	WLO17-C1	WLO17-C2
F(y) (N·m)	7463	9702
F(z) (N·m)	7463	9702
M(x) (N·m)	339	339
M(y) (N·m)	178	396
M(z) (N·m)	742	1271

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

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

履带取出方向 Caterpillar Band Entry Location

WLO-17				WLO-17D2		厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
RH 水平右侧取出 Right & Horizontal	RW 壁挂右侧取出 Right & Wall-hanging	LH 水平左侧取出 Left & Horizontal	LW 壁挂左侧取出 Left & Wall-hanging	H 水平安装 H Horizontal	W 侧挂安装 W Wall-hanging	高创 Servotronic	S	CDHD-AP1	脉冲
						松下 Panasonic	P	MBDLN-SL	脉冲
								MBDLN-BL	EtherCAT

注:请务必按导线槽方向图和各规格图规定的方向进行设置。规定以外的安装会导致故障发生,请务必加以注意。
Note:Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

基本规格 Basic Specification

技术参数 Technical Parameters	机型 Type	WLO17-C1	WLO17-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		5 ^{#1}	
持续推力(N) Continuous Thrust(N)		80	160
最大推力(N) Max Thrust(N)		240	480
最大加速度(M/S ²) Max Accelerated Speed		4G	
最大速度(MM/S) Max Speed		4000	
标准行程 (mm) Standard Stroke		143-2303 mm / 108 pitch	
主机截面最大外形: Max Outline of Main Engine's Cross Section		183*102	
高刚性直线滑轨 (mm) High Stiffness Linear Guide		20型导轨 2支/ 20 Guide 2PCS	
履带内部容积: Internal Capacity of Caterpillar Band		17*25	
原点传感器 Home Sensor		EE-SX672(NPN)	

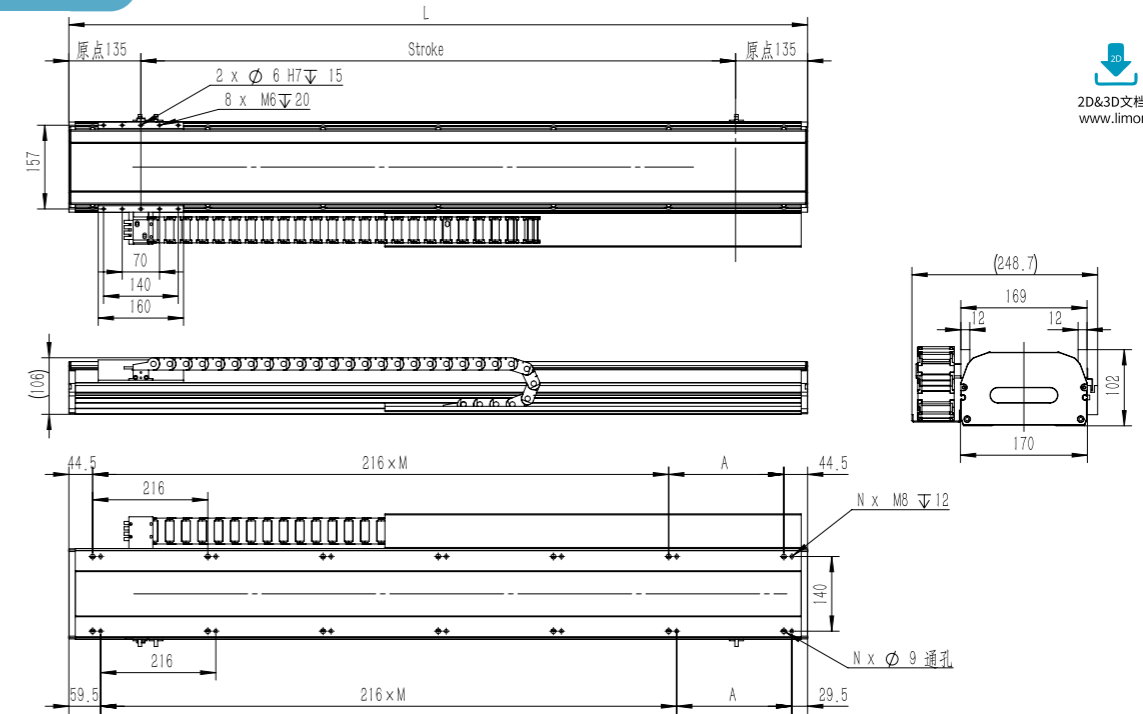
注#1:
1. 最高速度随最小分辨率而变化。
2. 动作速度、加速度等规格受负载的限制。
3. 加速度为2G动作时的负载,所到达速度,受推力和速度特性的限制。
4. 反复运动0背隙。

Note #1:
1. The max speed depends on the minimum resolution.
2. Movement speed and accelerated speed are restricted by the load.
3. The load that when the accelerated speed is 2G, and then speed reached is restricted by the thrust and its speed characteristics.
4. Repetitive movement with zero back clearance.

WLO 17 WLO系列有铁芯式线性马达驱动

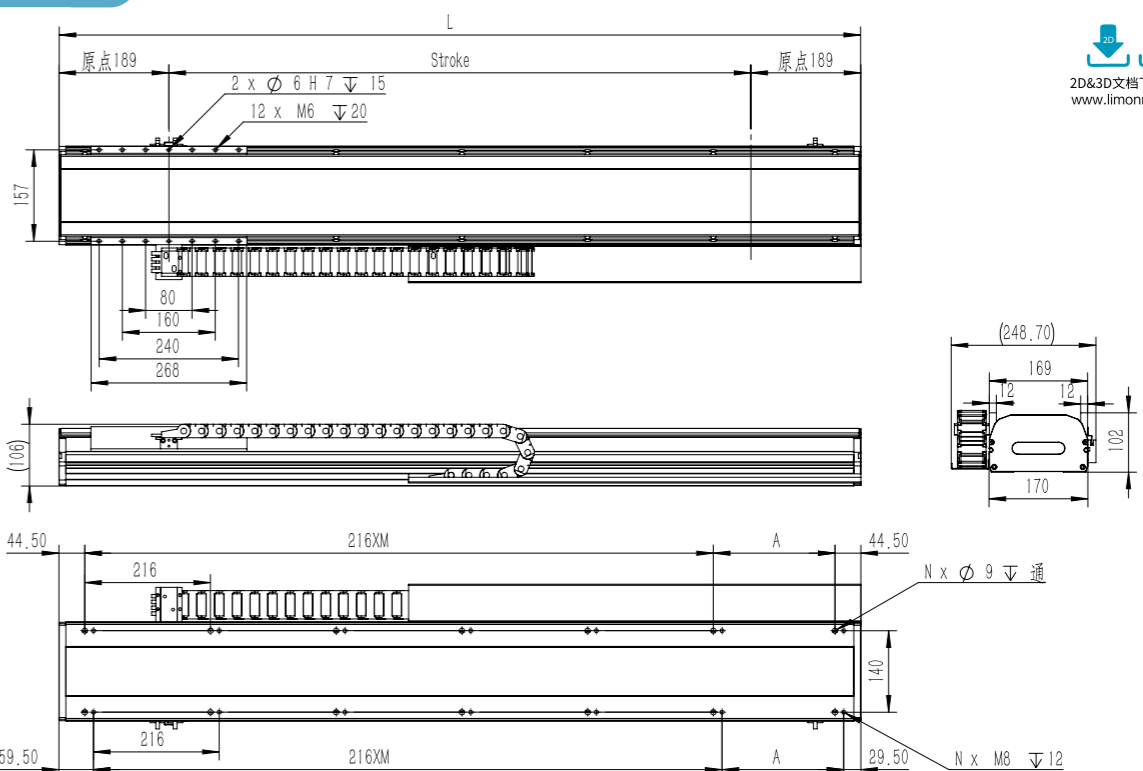
WLO Series Linear Motor Driven Type With Iron Core

WLO17-C1



行程 Stroke (mm)	143	251	359	467	575	683	791	899	1007	1115	1223	1331	1439	1547	1655	1763	1871	1979	2087	2195	2303
总长 Length (L)	413	521	629	737	845	953	1061	1169	1277	1385	1493	1601	1709	1817	1925	2033	2141	2249	2357	2465	2573
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
A	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
重量 Weight (kg)	13.8	15.9	18.0	20.1	22.2	24.2	26.3	28.4	30.5	32.6	34.6	36.7	38.8	40.9	43.0	45.0	47.1	49.2	51.3	53.4	55.4

WLO17-C2

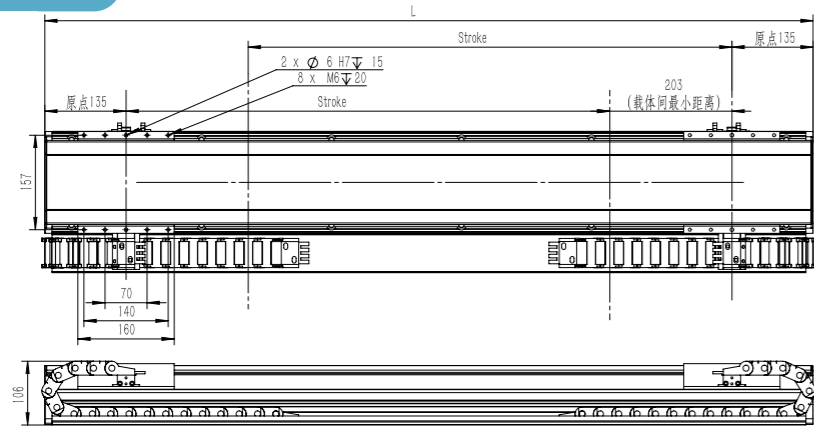


行程 Stroke (mm)	143	251	359	467	575	683	791	899	1007	1115	1223	1331	1439	1547	1655	1763	1871	1979	2087	2195
总长 Length (L)	521	629	737	845	953	1061	1169	1277	1385	1493	1601	1709	1817	1925	2033	2141	2249	2357	2465	2573
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
A	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108
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)	17.7	19.8	21.9	24.0	26.0	28.1	30.2	32.3	34.4	36.4	38.5	40.6	42.7	44.8	46.8	48.9	51.0	53.1	55.2	57.2

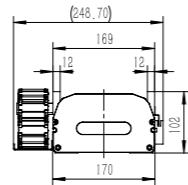
WLO 17 WLO系列有铁芯式线性马达驱动

WLO Series Linear Motor Driven Type With Iron Core

WLO17D2-C1

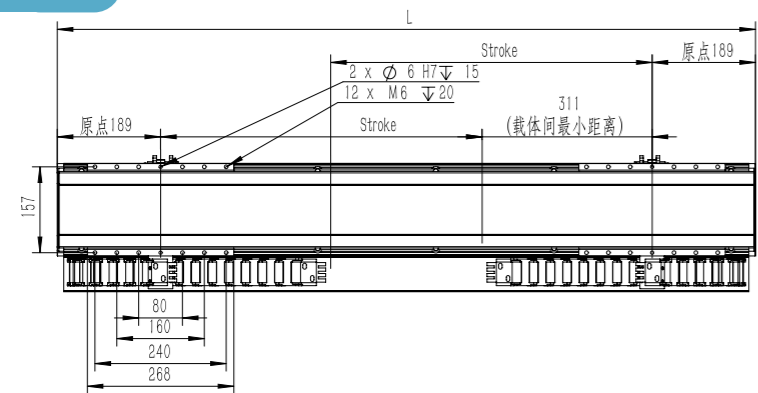


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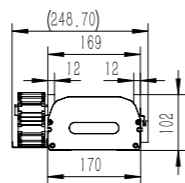


行程 Stroke (mm)	156	264	372	480	588	696	804	912	1020	1128	1236	1344	1452	1560	1668	1776	1884	1992	2100
总长 Length (L)	629	737	845	953	1061	1169	1277	1385	1493	1601	1709	1817	1925	2033	2141	2249	2357	2465	2573
M	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
A	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
重量 Weight (kg)	17.0	19.1	21.2	23.3	25.3	27.4	29.5	31.6	33.7	35.7	37.8	39.9	42.0	44.1	46.1	48.2	50.3	52.4	54.5

WLO17D2-C2



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行程 Stroke (mm)	156	264	372	480	588	696	804	912	1020	1128	1236	1344	1452	1560	1668	1776	1884
总长 Length (L)	845	953	1061	1169	1277	1385	1493	1601	1709	1817	1925	2033	2141	2249	2357	2465	2573
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
A	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108	216	108
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
重量 Weight (kg)	21.9	24.0	26.0	28.1	30.2	32.3	34.4	36.4	38.5	40.6	42.7	44.8	46.8	48.9	51.0	53.1	55.2

WLO 22 WLO系列有铁芯式线性马达驱动

WLO Series Linear Motor Driven Type With Iron Core

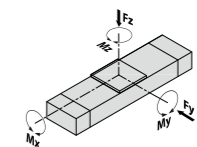
型号订购码 Code



本体型号 Item NO.	线圈规格 Coil Size	行程 Stroke	线缆长度 Wire Length	编码器 Encoder	驱动器 Driver	履带取出方向 Caterpillar Band Entry Location	安装方式 Mounting	拖链 Drag chain	限位传感器数量 Photoelectric Sensor
WLO22 单动子型 Single Carriage	C1:标准型动子 Standard Coil	122-2147, 间隔/Gap135	3L:3m	G: 光学尺 Optical Scale	S: 高创 Servotronics	RH:水平右侧取出 Horizontal,Right	H:水平安装 Horizontal	T: 含拖链 With Drag chain	P1:1个 1PC
WLO22D2 双动子型 Double Carriage	C2:加长型动子 Extended Coil		5L:5m	M: 磁性尺 Magnetic Scale	P: 松下 Panasonic	LH:水平左侧取出 Horizontal,Left	W:侧挂安装 Wall-hanging	未标记:无 No Mark: None	P2:2个 2PCS
	C3:超长型动子 Ultralong Coil		8L:8m	B: 编码器 Encoder		RW:壁挂右侧取出 Wall-hanging,Right			P3:3个 3PCS
						LW:壁挂左侧取出 Wall-hanging,Left			未标记:无 No Mark: None



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



规格 Type	WLO22-C1	WLO22-C2
F(y) (N·m)	12916	12916
F(z) (N·m)	12916	12916
M(x) (N·m)	650	650
M(y) (N·m)	615	1200
M(z) (N·m)	1200	1250

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

履带取出方向 Caterpillar Band Entry Location

WLO-22		WLO-22D2		厂牌 Brand	驱动器记号 Mark	驱动器型号 Driver Model	接线讯号 Connection Signal
RH 水平右侧取出 Right & Horizontal	RW 壁挂右侧取出 Right & Wall-hanging	LH 水平左侧取出 Left & Horizontal	LW 壁挂左侧取出 Left & Wall-hanging	高创 Servotronics	S	CDHD-AP1	脉冲
				松下 Panasonic	P	MBDLN-SL	脉冲
						MBDLN-BL	EtherCAT

注:请务必按导线槽方向图和各规格图规定的方向进行设置。规定以外的安装会导致故障发生,请务必加以注意。
Note:Be sure to set up according to the metallic channel directional diagram and each specification diagram specified,or it will occur some malfunction.So please pay more attention about this.

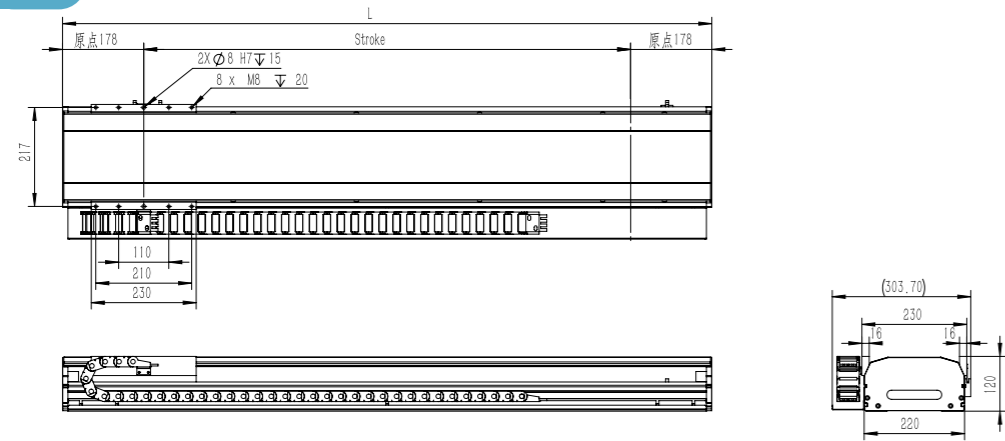
基本规格 Basic Specification

技术参数 Technical Parameters	机型 Type	WLO22-C1	WLO22-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	5 #1		
持续推力(N) Continuous Thrust(N)	280		560
最大推力(N) Max Thrust(N)	840		1680
最大加速度(M/S ²) Max Accelerated Speed	4G		
最大速度(MM/S) Max Speed	4000		
标准行程 (mm) Standard Stroke	143-2303 mm / 135 pitch		
主机截面最大外形: Max Outline of Main Engine's Cross Section	233*120		
高刚性直线滑轨 (mm) High Stiffness Linear Guide	25型号导轨 2支 / 25 Guide 2PCS		
履带内部容积: Internal Capacity of Caterpillar Band	17*25		
原点感应器 Home Sensor	EE-SX672(NPN)		

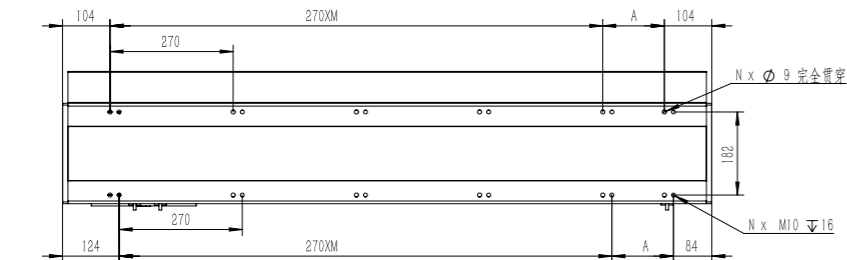
注#1:
1. 最高速度随最小分辨率而变化。
2. 动作速度、加速度等规格受负载的限制。
3. 加速度为2G动作时的负载,所到达速度,受推力和速度特性的限制。
4. 反复运动0背隙。

Note1:
1. The max speed depends on the minimum resolution.
2. Movement speed and accelerated speed are restricted by the load.
3. The load that when the accelerated speed is 2G, and then speed reached is restricted by the thrust and its speed characteristics.
4. Repetitive movement with zero back clearance.

WLO 22-C1

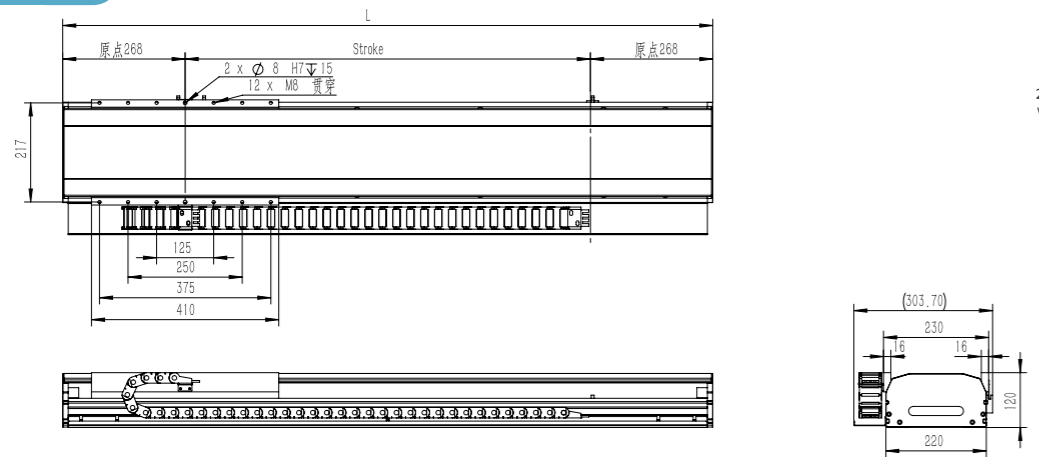


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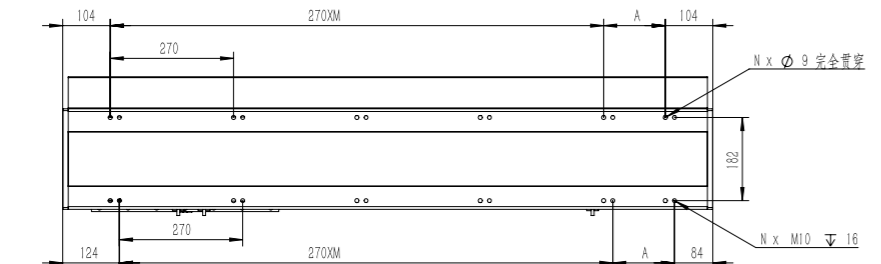


行程 Stroke (mm)	122	257	392	527	662	797	932	1067	1202	1337	1472	1607	1742	1877	2012	2147
总长 Length (L)	478	613	748	883	1017	1153	1288	1423	1558	1693	1828	1963	2098	2233	2368	2503
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
A	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
重量 Weight (kg)	29.1	31.3	33.6	35.8	38.0	40.2	42.5	44.7	46.9	49.2	51.4	53.6	55.9	58.1	60.3	62.5

WLO 22-C2

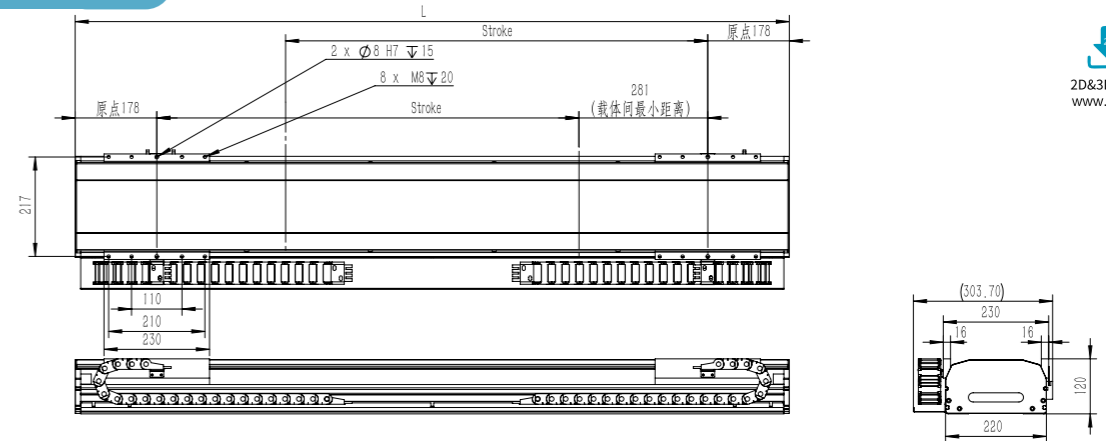


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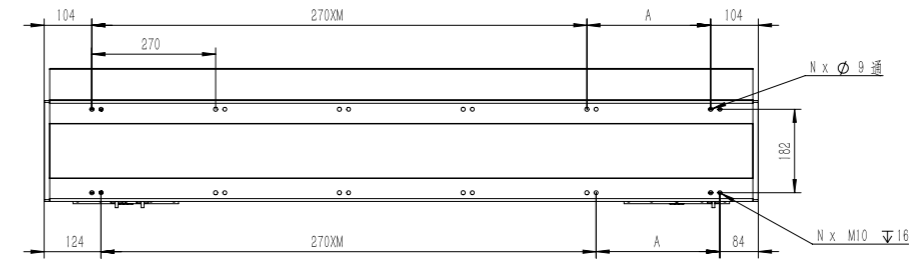


行程 Stroke (mm)	212	347	482	617	752	887	1022	1157	1292	1427	1562	1697	1832	1967
总长 Length (L)	748	883	1018	1153	1288	1423	1558	1693	1828	1963	2098	2233	2368	2503
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8
A	270	135	270	135	270	135	270	135	270	135	270	135	270	135
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20
重量 Weight (kg)	46.8	49.0	51.2	53.4	55.7	57.9	60.1	62.4	64.6	66.8	69.1	71.3	73.5	75.7

WLO 22D2-C1

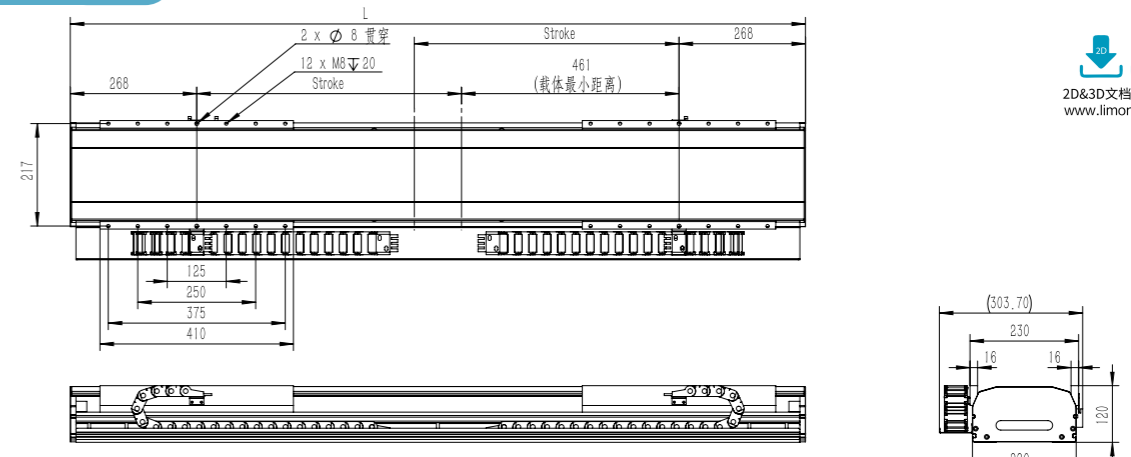


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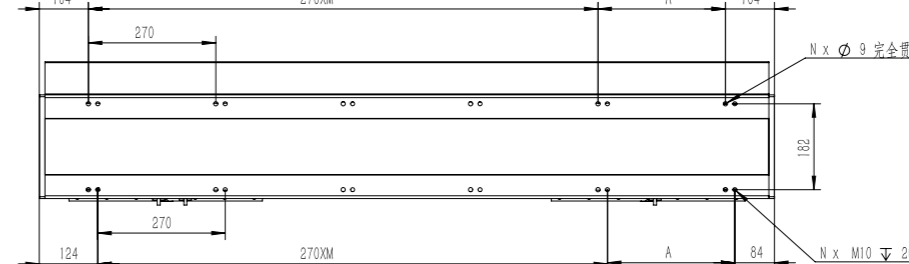


行程 Stroke (mm)	111	246	381	516	651	786	921	1056	1191	1326	1461	1596	1731	1866	2001	2136	2271	2406
总长 Length (L)	748	883	1018	1153	1288	1423	1558	1693	1828	1963	2098	2233	2368	2503	2638	2773	2908	3043
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10
A	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24
重量 Weight (kg)	42.3	44.5	46.8	49.0	51.2	53.5	55.7	57.9	60.1	62.4	64.6	66.8	69.1	71.3	73.5	75.8	78.0	80.2

WLO 22D2-C2



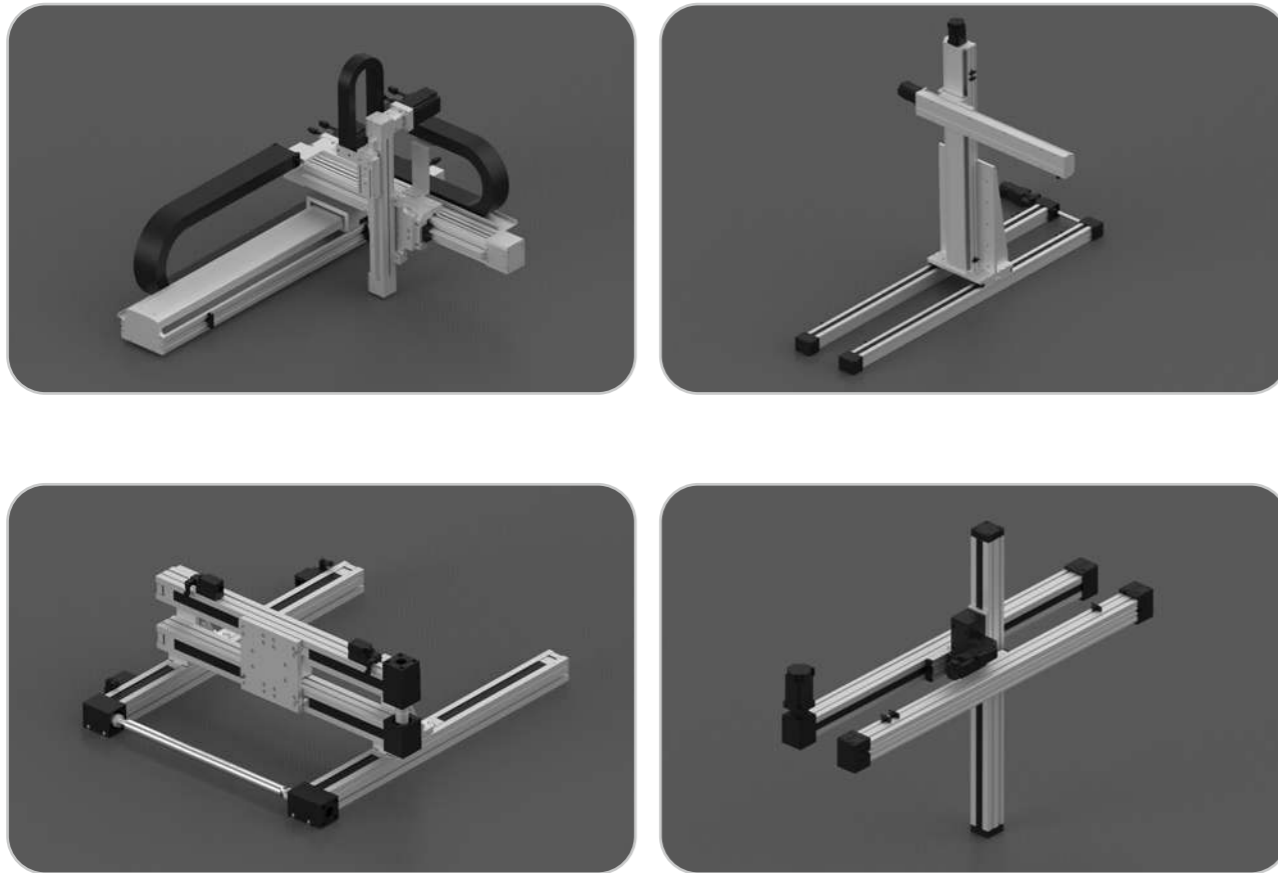
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行程 Stroke (mm)	156	291	426	561	696	831	966	1101	1236	1371	1506	1641	1776	1911	2046
总长 Length (L)	1153	1288	1423	1558	1693	1828	1963	2098	2233	2368	2503	2638	2773	2908	3043
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10
A	135	270	135	270	135	270	135	270	135	270	135	270	135	270	135
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24
重量 Weight (kg)	70.0	72.3	74.5	76.7	79.0	81.2	83.4	85.7	87.9	90.1	92.3	94.6	96.8	99.0	101.3

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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.

以上所示产品，必须选配直线导轨。当悬臂离心过长时，负载能力会下降。请联系莱盟机器人来根据实际图纸获得解决方案。我们提供监理多轴组合的所有必要配件，包括标准件，夹片和连接件。也可为客户定制所需非标配件。

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■多轴组合模块

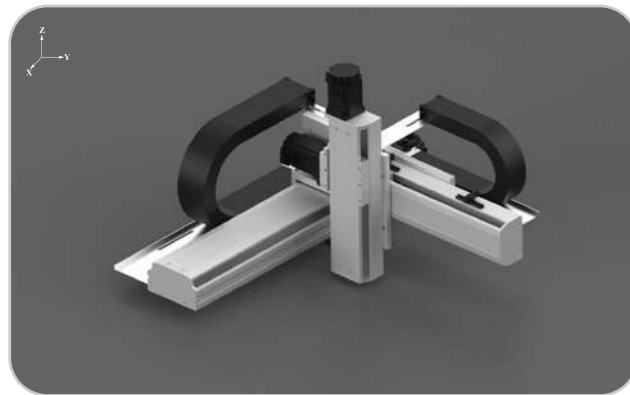
	Ixyz60			Ixyz80		
	X轴/ X Axis	Y轴/ Y Axis	Z轴/ Z Axis	X轴/ X Axis	Y轴/ Y Axis	Z轴/ Z Axis
轴组成 Axis Composition	ITO60	ITO60	ITZ60	ITO80	ITO80	ITZ60
重复定位精度 (mm) Repetitive Accuracy	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
驱动方式 Driving Method	同步带/ Belt	同步带/ Belt	同步带/ Belt	同步带/ Belt	同步带/ Belt	同步带/ Belt
最高速度 (mm/s) 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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以上所示产品，必须选配直线导轨。当悬臂离心过长时，负载能力会下降。请联系莱盟机器人来根据实际图纸获得解决方案。我们提供监理多轴组合的所有必要配件，包括标准件，夹片和连接件。也可为客户定制所需非标配件。

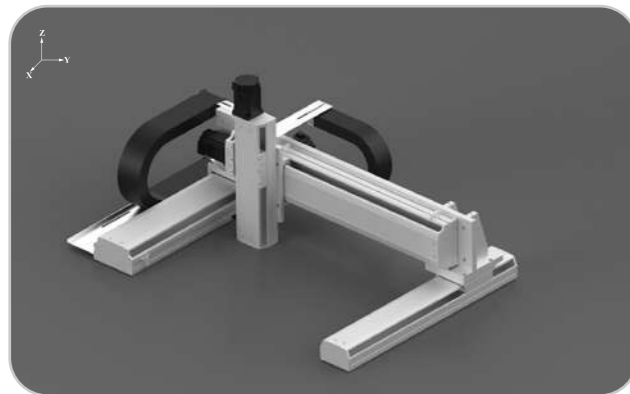
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■多轴组合模块

	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			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	150 250 350 450 550	5kg 5kg 5kg -	- -	10kg 9kg 7kg 5kg 3kg	10kg 8kg 6kg 4kg 2kg	9kg 7kg 5kg 3kg 1kg



■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			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.

以上所示产品, 必须选配直线导轨。当悬臂离心过长时, 负载能力会下降。请联系莱盟机器人来根据实际图纸获得解决方案。我们提供监理多轴组合的所有必要配件, 包括标准件, 夹片和连接件。也可为客户定制所需非标配件。

進给力算式 [N]

$$F_x = m \times g \times \mu$$

- F_x = 進给力 [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]

$$M_A = M_{load} + M_{trans} + M_{rot} + M_{idle}$$

$$M_{load} = \frac{F_x \times p}{2 \times 3,14 \times 1000}$$

$$M_{trans} = \frac{F_a \times p}{2 \times 3,14 \times 1000}$$

$$M_{rot} = j_{sp} \times \frac{2 \times 3,14 \times n_{max} \times a \times 2}{V_{max} \times 60 \times 1000}$$

M_{idle} = 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 [Nm]
- 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 = 進给力 [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	GSCS50	GSC80	GSC120	YSO/YS135	YSO/YS170	YSO220
滾珠螺絲桿慣量 (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]

$$P = \frac{MA \times n_{max} \times 2 \times 3,14}{60 \times 1000}$$

- P = required power [kW]
- MA = required drive moment [Nm]
- n_{max} = maximum required rotational speed [rpm]

Drive Moment Formulas [Nm]

$$MA = M_{load} + M_{trans} + M_{rot} + M_{idle}$$

$$M_{load} = \frac{F_x \times p}{2 \times 3,14 \times 1000}$$

$$M_{trans} = \frac{F_a \times p}{2 \times 3,14 \times 1000}$$

$$M_{rot} = j_{sp} \times \frac{2 \times 3,14 \times n_{max} \times a \times 2}{V_{max} \times 60 \times 1000}$$

M_{idle} = see table for unit in question

- MA = required drive moment [Nm]
- M_{load} = moment as a result of various loads [Nm]
- 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	GSCS50	GSC80	GSC120	YSO/YSC135	YSO/YSC170	YSCO220
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]

$$P = \frac{MA \times n_{max} \times 2 \times 3,14}{60 \times 1000}$$

- P = 所需功率 [kW]
- MA = 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]

$$MA = M_{load} + M_{trans} + M_{rot} + M_{idle}$$

$$M_{load} = \frac{F_x \times d_o}{1000 \times 2}$$

$$M_{trans} = \frac{F_a \times d_o}{1000 \times 2}$$

$$M_{rot} = J_{syn} \times \frac{2 \times 3,14 \times n_{max}}{60} \times \frac{a}{V_{max}}$$

M_{idle} = 請見相應單元的表格

- MA = 所需驅動扭矩 [Nm]
- M_{load} = 負載變動引起的力矩 [Nm]
- 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 (JSYN), [kgm ²]	1.34x10 ⁻⁵	8.42x10 ⁻⁵	3.38x10 ⁻⁵	1.17x10 ⁻⁵	7.44x10 ⁻⁵	3.88x10 ⁻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]

$$M_A = M_{load} + M_{trans} + M_{rot} + M_{idle}$$

$$M_{load} = \frac{F_x \times d_o}{1000 \times 2}$$

$$M_{trans} = \frac{F_a \times d_o}{1000 \times 2}$$

$$M_{rot} = J_{syn} \times \frac{2 \times 3,14 \times n_{max}}{60} \times \frac{a}{V_{max}}$$

M_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).

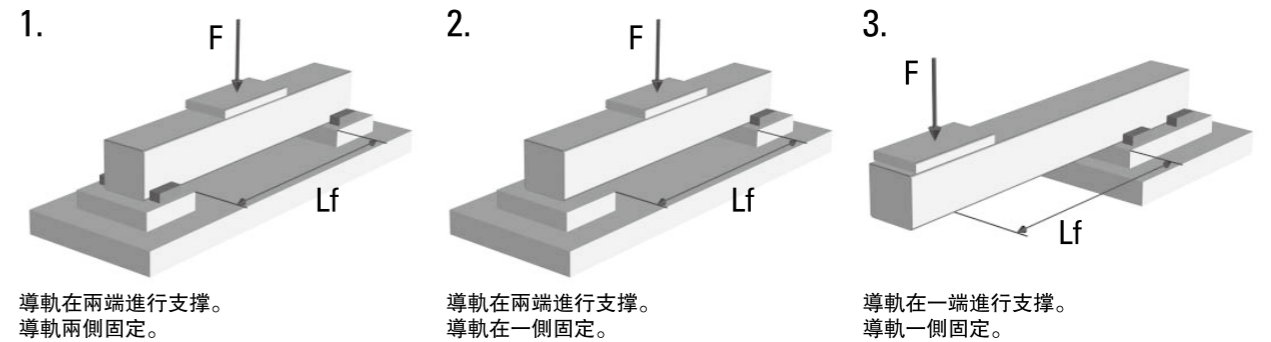
³ This value can be found in the carriage idle torque tables.

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/ITC80	ITO/ITC80	ITO/ITC100	YTO/YTC135	YTO/YTC170
Idle Torque Of Pulleys (J _{SYN}), [kgm ²]	1.34×10 ⁻⁵	8.42×10 ⁻⁵	3.38×10 ⁻⁵	1.17×10 ⁻⁵	7.44×10 ⁻⁵	3.88×10 ⁻⁵

負載類型



1. 導軌在兩端進行支撐。導軌兩側固定。

2. 導軌在兩端進行支撐。導軌在一側固定。

3. 導軌在一端進行支撐。導軌一側固定。

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

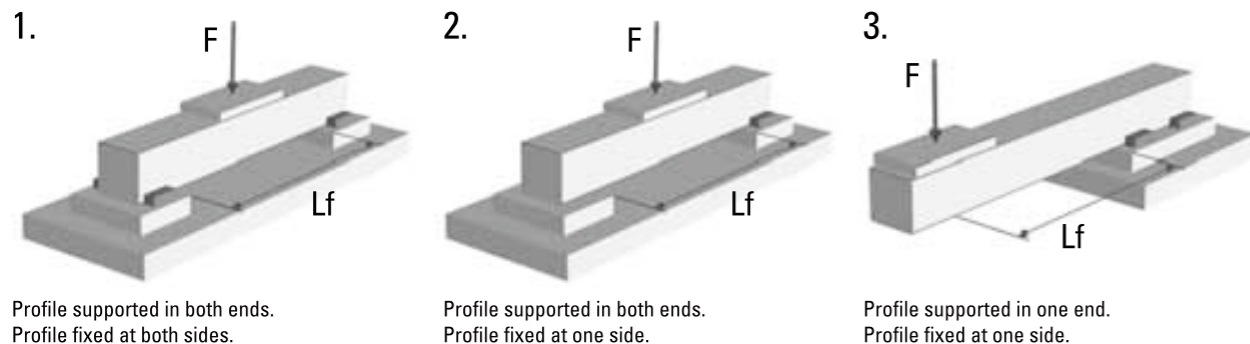
$f_h > f_{max}$ = 撓度滿足要求

$f_h < f_{max}$ = 撓度不符合要求, L_f 必須縮短

Deflection Calculations

How to calculate the deflection of the profile

Load Cases



Profile supported in both ends.
Profile fixed at both sides.

Profile supported in both ends.
Profile fixed at one side.

Profile supported in one end.
Profile fixed at one side.

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 factor¹

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

¹This value can be found in the additional technical data tables.

²This 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

實例 1

直線運動系統類型:
ITO80
 負載類型:
類型1 - 導軌在兩端支撐並在兩側固定

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:
ITO60
 負載類型:
類型2 - 導軌在兩端支撐並在一邊固定

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:
ITO80
 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

Deflection Calculations

Examples of calculations of the profile deflection

Example 1

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:
 $f_h > f_{max} = \text{deflection OK}$

Example 2

Type of linear motion system:
IT060

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:
 $f_h > f_{max} = \text{deflection OK}$

Example 3

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:
 $f_h > f_{max} = \text{deflection not OK}$

词汇表 Glossary

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的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

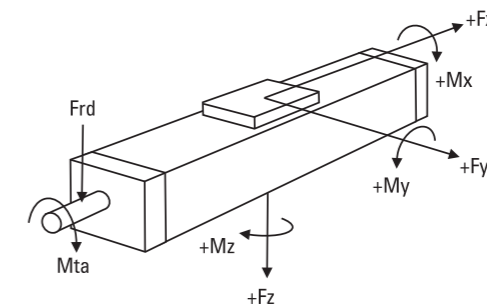
皮带传动机构包含一条运行在两个不同直径的皮带轮之间的同步带。皮带轮直径的差异决定了传动比的大小。皮带齿轮运行安静,精度达到中等水平且无需维护,但在过载情况下很容易损坏。

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

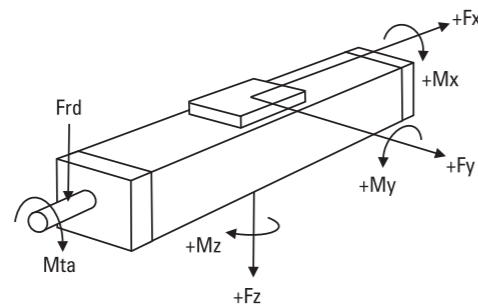
A belt gear consists of a timing belt that runs between two pulley wheels of different diameters. The difference between the diameters determines the gear ratio. Belt gears are quiet, have medium accuracy and require no maintenance but are susceptible to belt breakage under overload conditions.

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

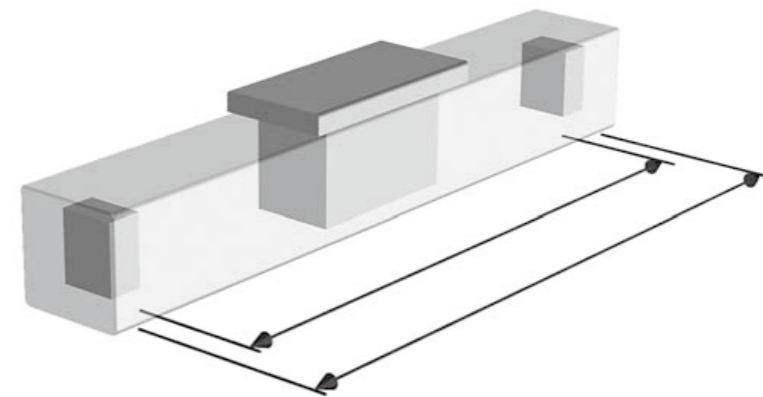
定位精度指期望位置与实际位置之间的偏差, 是所有可能造成精度降低的因素(即重复精度, 背隙, 分辨率, 丝杠/皮带精度, 电机、驱动和运动控制系统精度)叠加的结果。有些因素, 如背隙和导轨精度, 有时能够通过使用运动控制系统的软件进行补偿。同时参见“精度”。

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

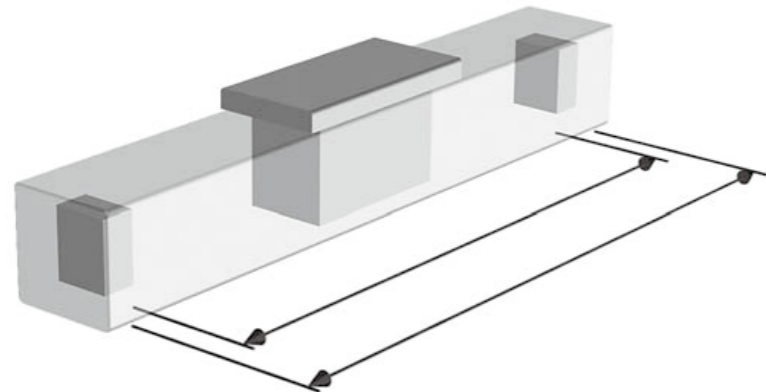
Positioning accuracy is the error between the expected and actual position and is the sum of all factors that will reduce the accuracy (i.e. repeatability, backlash, resolution, screw/belt accuracy, and the accuracy of the motor, drive and motion control system). Some of these factors, such as backlash and lead accuracy, can sometimes be compensated for in the software of the motion control system being used. Also see "Accuracy".

Repeatability

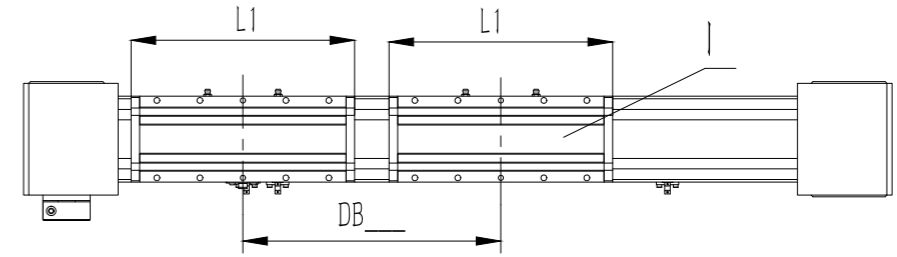
Repeatability is the ability for a positioning system to return to a location when approaching from the same distance, at the same speed and deceleration rate. Some of the factors that affect the repeatability are the angular repeatability of the motor, drive and motion control system, system friction 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 l=辅助滑块
L1=Block Length DB=Center l=Auxiliary Block

实例 Example

型号 Item No.: ITO60-500-DB300.....

不带辅助滑块的工作行程=500mm

Stroke(without auxiliary block)= 500mm

带辅助滑块的工作行程=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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