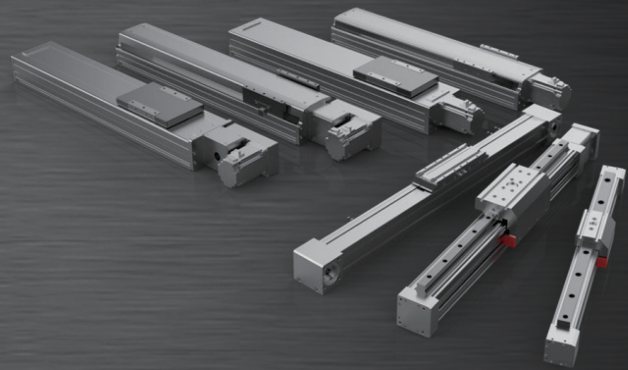


LINEAR PRECISION

LINEAR SPEED



萊盟機器人有限公司是一家高新技術型生產企業，主要生產製造高精度直線模組及相關產品。萊盟始終堅持專業化的發展道路，打造強大的技術團隊，做好每一款產品，做足每一個細節。專注專精於高品質模組的生產。萊盟一直秉持著沒有創新就沒有發展的態度。不斷深入市場瞭解客戶需求，適應快速變化的市場，研發新產品，為客戶提供最合理的解決方案，始終保持競爭優勢。萊盟打造的高效服務團隊無論從產品交期，客戶服務上都走在行業最前面。致力於成為直線模組的第一選擇！

LIMON is a high-tech manufacturer, specialized in automated light to medium-duty linear actuators, and currently undergoing rapid advancement of both capacity and capabilities with the purpose of profession and precision. Designing, engineering, and fabricating physical products to directly provide visible, bespoke solutions holds great appeal to the whole team at LIMON. We seek out and develop staff that are not only competent and hard-working, but that share our passion for serving client need directly and indirectly. LIMON linear actuators come in basic three types, two Europe type and one Asia type driven by belt or ball screw for the fast-moving and light-impact use. We focus on every detail of quality improvement to satisfy our clients' demands. And we have the ability to design and engineer optimal customized solution as well. LIMON is proud not only to be a strong enterprise, but to have grown from humble beginnings and to have earned its place in the automation industry.



產品綜述 / 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系列模組 / GSC Series Module

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



P1-P9

KS系列模組 / KS Series Module

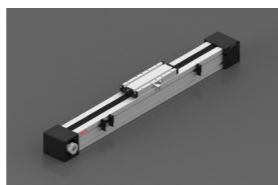
- 产品型号: KS 50 / 60 / 86
 - 高刚性
 - 模块化
 - 四方等负荷
- Part No.:KS 50 / 60 / 86
 - High Rigidity
 - Modular Design
 - Equal Load in Four Directions



P10-P15

歐標半密式同步帶驅動型 / Belt Driven Linear Actuator

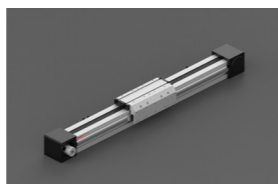
- 产品型号 :
 - 直线导轨导向
 - 高载荷
 - 同步带驱动半密式
- Part No.:
 - With Linear Guide
 - High Characteristic Load Values
 - Open Type Driven By Belt



P19-P25

歐標半密式同步帶驅動側軌加強型 / Belt Driven Linear Actuator

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



P26-P28

歐標全密式同步帶驅動型 / Belt Driven Linear Actuator

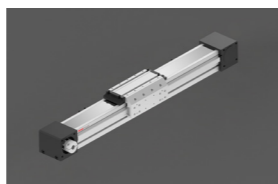
- 产品型号:
 - 直线导轨导向
 - 高载荷
 - 同步带驱动全密式
- Part No.:
 - With Linear Guide
 - High Characteristic Load Values
 - Clean Room Type Driven By Belt



P29-P32

歐標全密式同步帶驅動側軌加強型 / Belt Driven Linear Actuator

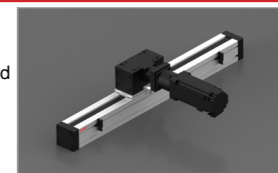
- 产品型号:HTC - 80/80L/100/100L
 - 直线导轨导向
 - 高载荷
 - 同步带驱动全密式
- Part No.: HTC - 80 / 80L / 100 / 100L
 - With Linear Guide
 - High Characteristic Load Values
 - Clean Room Type Driven By Belt



P33-P37

歐標Z軸提升專用型 / Belt Driven Linear Actuator

- 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



P38-P39

亞標半密式螺桿驅動型 / Ball Screw Driven Linear Actuator

- 产品型号:YSO - 100/110/135/170/220
 - 高载荷
 - 高精度
 - 半密型
- Part No.: YSO - 100 / 110 / 135 / 170 / 220
 - High Characteristic Load Values
 - High Precision
 - Open Type Driven By Ball Screw



P40-P58

亞標全密式螺桿驅動型 / Ball Screw Driven Linear Actuator

- 产品型号: YSC - 50/65/100/110/135/170
 - 高载荷
 - 高精度
 - 全密型
- Part No.: YSC - 50/65/100/110/135/170
 - With Linear Guide
 - High Characteristic Load Values
 - Clean Room Type Driven By Ball Screw



P59-P76

亞標半密式同步帶驅動型 / Belt Driven Linear Actuator

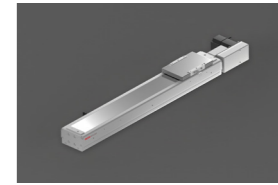
- 产品型号:YTO - 100/110/135/135M/170/220
 - 速度快
 - 高加速度
 - 半密型
- Part No.:YTO - 100/110/135/135M/170/220
 - High Speed
 - High Acceleration
 - Open Type Driven By Belt



P77-P112

亞標全密式同步帶驅動型 / Belt Driven Linear Actuator

- 产品型号 : YTC - 110/135/170
 - 速度快
 - 高加速度
 - 全密型
- Part No.:YTC - 110 / 135 / 170
 - High Speed
 - High Acceleration
 - Clean Room Type Driven By Belt



P113-P130

多軸組合 / 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



P131-P133

驅動計算 / Drive Calculations

P134-P136

撓度計算 / Deflection Calculations

P137-P140

詞匯表 / Glossary

P141-P145

輔助滑塊 / Auxiliary Block

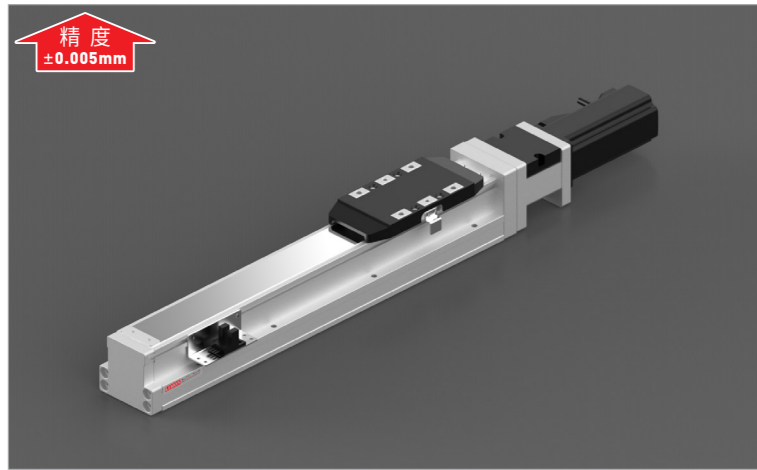
P146

GSC 50 導軌內嵌式滑台模組

Inserted sliding platform of guide rail

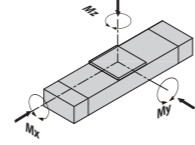
訂購型號代碼 Code

GSC 50	L10	500	MS	M10	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	馬達方向 Motor Mounting Position	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特法式樣 Special Order No.
	05 10 20	50-800, 間隔Gap50	MS: 馬達直接安裝 Straight Motor Mounting ML: 馬達左折安裝 Left Motor Mounting MR: 馬達右折安裝 Right Motor Mounting MD: 馬達下折安裝 Down Motor Mounting	M 三菱 Mitsubishi 10 100W P 松下 Panasonic 10 100W	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未標記, 无 NoMark:NoSensor	



精度 ±0.005mm

最大靜態力和力矩 Max Static Forces And Torques



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

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version

MS Type 馬達直接安裝 Straight Motor Mounting	ML Type 馬達左折安裝 Left Motor Mounting	MR Type 馬達右折安裝 Right Motor Mounting	MD Type 馬達下折安裝 Down Motor Mounting

基本規格 Basic Specification

GSC 50			
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.005	
	螺桿導程 Ball Screw Lead (mm)	5 10 20	
	最高可搬重量 Maximum Payload	水平使用Horizontal (kg)	30 15 10
		垂直使用Vertical (kg)	10 5 2.5
	定格推力 Rated Thrust (N)	341 170 85	
基本規格 Basic Specification	標準行程 Stroke (mm)	50-800 mm / 50 Pitch	
	AC伺服馬達容量 AC Servo Motor Output (W)	100	
	滾珠螺桿外徑 Ball Screw Diameter (mm)	C7 Ø12	
	聯軸器 Coupling (mm)	7 × 8	
	原點感應器 Home Sensor	PM-Y45(NPN)	

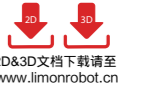
容許負載力矩表 Allowable Overhang

單位Unit : mm				
水平安裝 Horizontal Installation	A	B	C	
	導程 5 lead	10kg 650 75 100	20kg 440 32 45	
	導程 10 lead	10kg 600 145 185	20kg 370 70 85	
壁掛安裝 Wall Installation	A	B	C	
	導程 5 lead	10kg 100 75 650	20kg 45 32 420	
	導程 10 lead	10kg 180 145 600	20kg 85 68 370	
垂直安裝 Vertical Installation	A	C		
	導程 5 lead	10kg 145 145	20kg 110 110	
	導程 10 lead	10kg 800 800	20kg 260 260	
導程 20 lead	10kg 320 120 130	20kg 220 70 80	30kg 175 55 60	
	導程 10 lead	10kg 130 120 320	20kg 75 70 220	30kg 60 55 170
	導程 5 lead	10kg 100 75 650	20kg 45 32 420	30kg 25 19 260

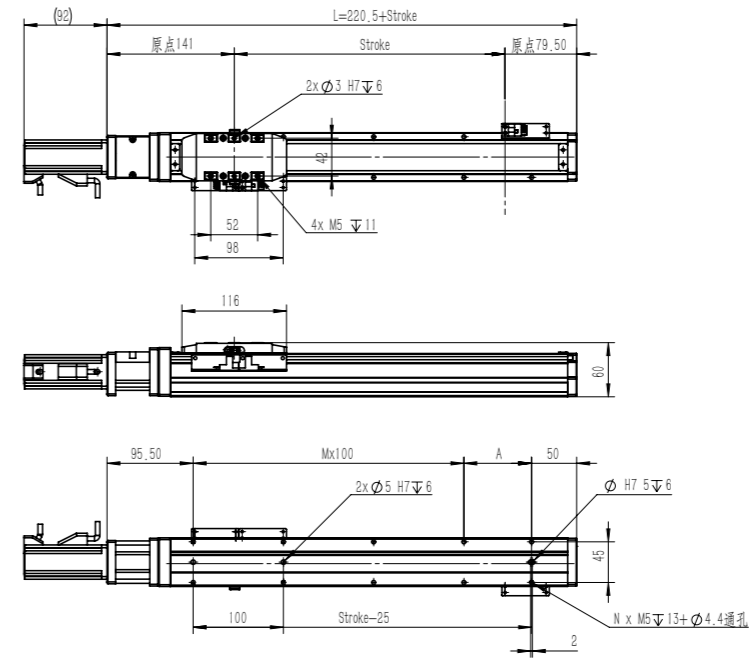
導軌內嵌式滑台模組 GSC 50

Inserted sliding platform of guide rail

GSC 50-MS 馬達直接安裝 Straight Motor Mounting

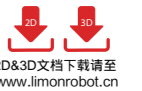


2D&3D文件下載請至
www.limonrobot.cn

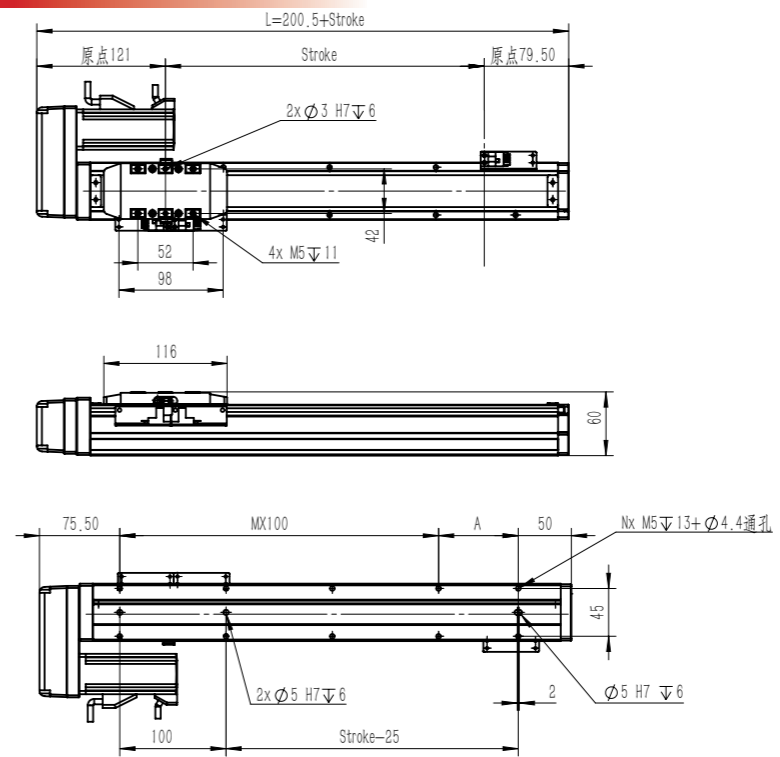


行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
重量 Weight (kg)	2.23	2.42	2.62	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

GSC 50-ML 馬達左折安裝 Left Motor Mounting



2D&3D文件下載請至
www.limonrobot.cn

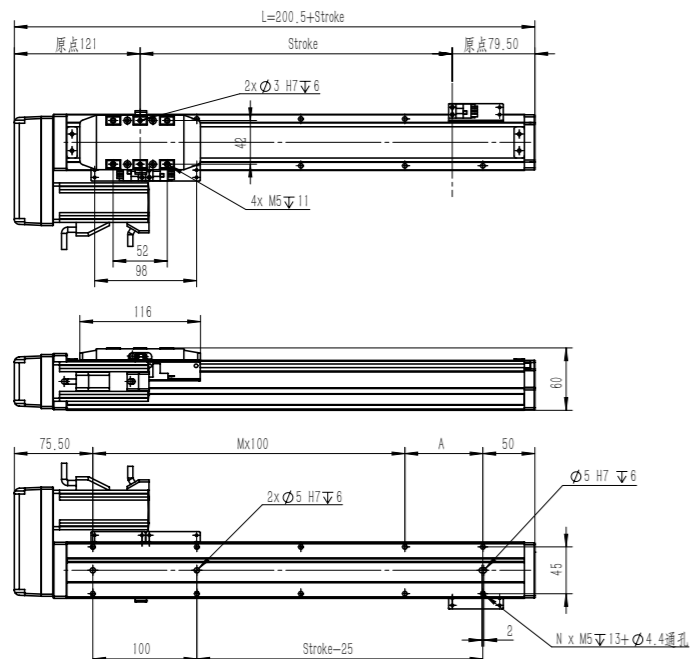


行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250.5	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
重量 Weight (kg)	2.4	2.59	2.79	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 50 導軌內嵌式滑台模組

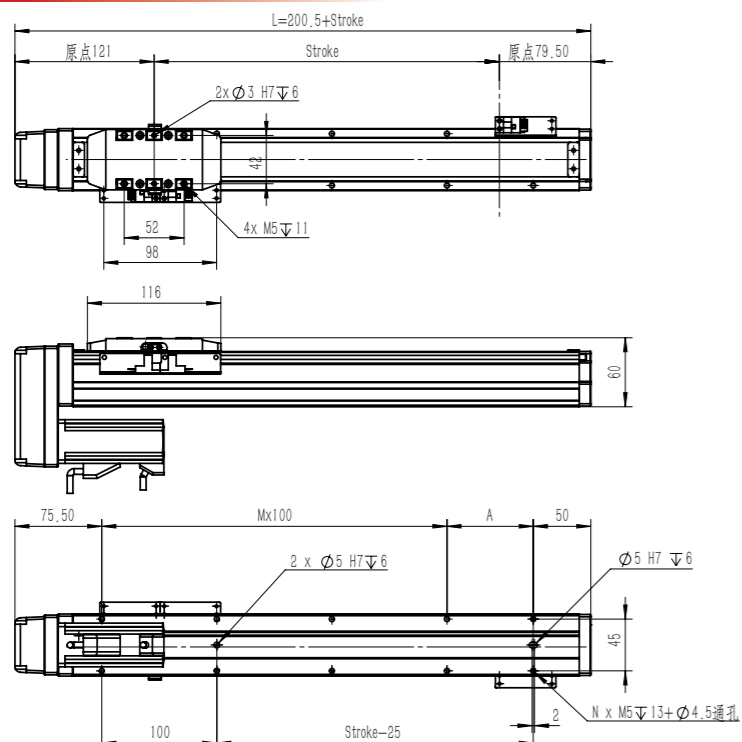
Inserted sliding platform of guide rail

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
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
重量 Weight (kg)	2.4	2.59	2.79	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 50-MD
马达下折安装 Down Motor Mounting



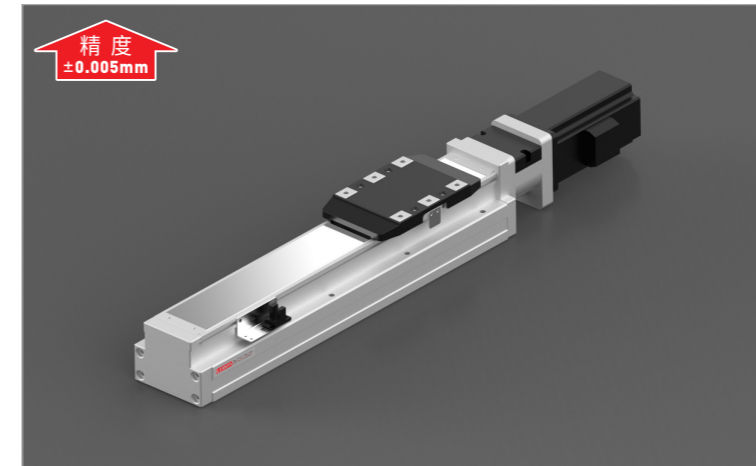
行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250.5	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
P	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775
重量 Weight (kg)	2.4	2.59	2.79	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

導軌內嵌式滑台模組 GSC 80

Inserted sliding platform of guide rail

訂購型號代碼 Code

GSC 80	L10	500	MS	M40	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	馬達方向 Motor Mounting Position	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
	05 10 20	50-1050, 間隔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只 1PC P2: 2只 2PCS P3: 3只 3PCS 未标记: 无 NoMark: NoSensor	



最大靜態力和力矩
Max Static Forces And Torques

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

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torques relate to the following:
 $\frac{M_x}{M_x \max} + \frac{M_y}{M_y \max} + \frac{M_z}{M_z \max} \leq 1$

馬達安裝方向 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

基本規格 Basic Specification

GSC 80				
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.005		
	螺桿導程 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
垂直使用 Vertical (kg)		15	8	3
	定格推力 Rated Thrust (N)	683	341	174
基本規格 Basic Specification	標準行程 Stroke (mm)	50-1050 mm / 50 Pitch		
	AC伺服馬達容量 AC Servo Motor Output (W)	200/400		
	滾珠螺桿外徑 Ball Screw Diameter (mm)	C7 Ø16		
	联轴器 Coupling (mm)	11/14		
	原點感應器 Home Sensor	PM-Y45(NPN)		

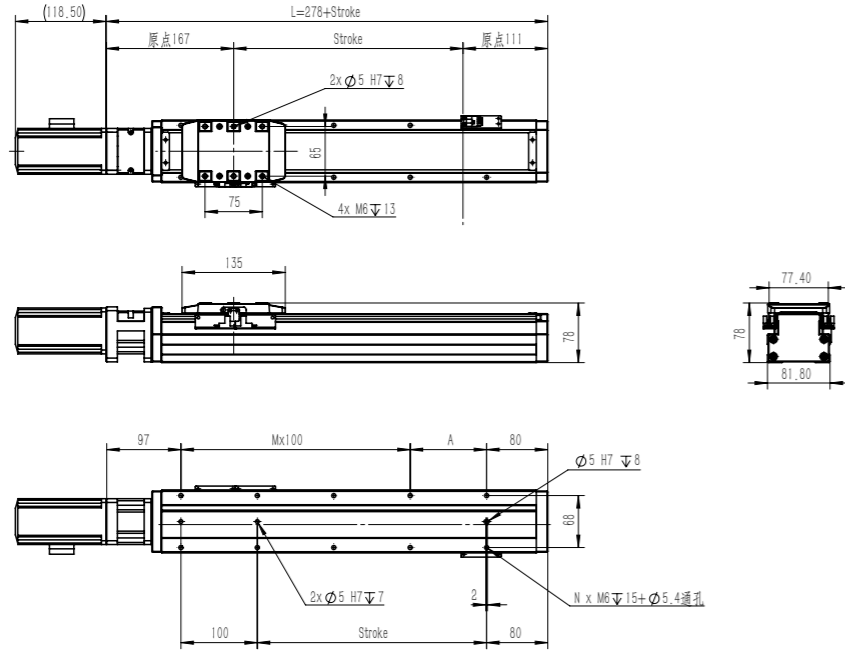
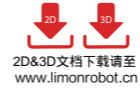
容許負載力矩表 Allowable Overhang

單位 Unit : mm	水平安裝 Horizontal Installation		
	A	B	C
導程 5 lead	20kg	1560	153 237
	35kg	890	81 126
	50kg	550	53 82
導程 10 lead	10kg	1730	286 412
	20kg	839	136 196
	30kg	541	86 124
導程 20 lead	6kg	1213	403 493
	9kg	800	264 323
	18kg	592	194 238

GSC 80 導軌內嵌式滑台模組

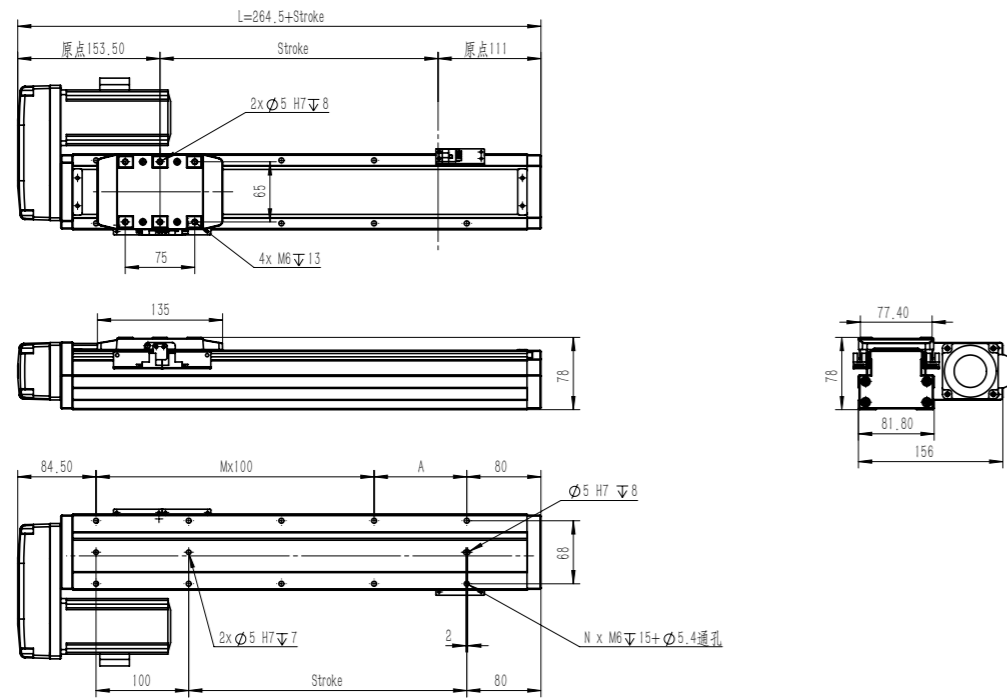
Inserted sliding platform of guide rail

GSC 80-MS 馬達直接安裝 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
L	328	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
重量 Weight (kg)	5.18	5.54	5.91	6.27	6.64	7	7.37	7.73	8.1	8.46	8.83	9.19	9.56	9.92	10.29	10.65	11.02	11.38	11.75	12.11	12.48

GSC 80-ML 馬達左折安裝 Left Motor Mounting

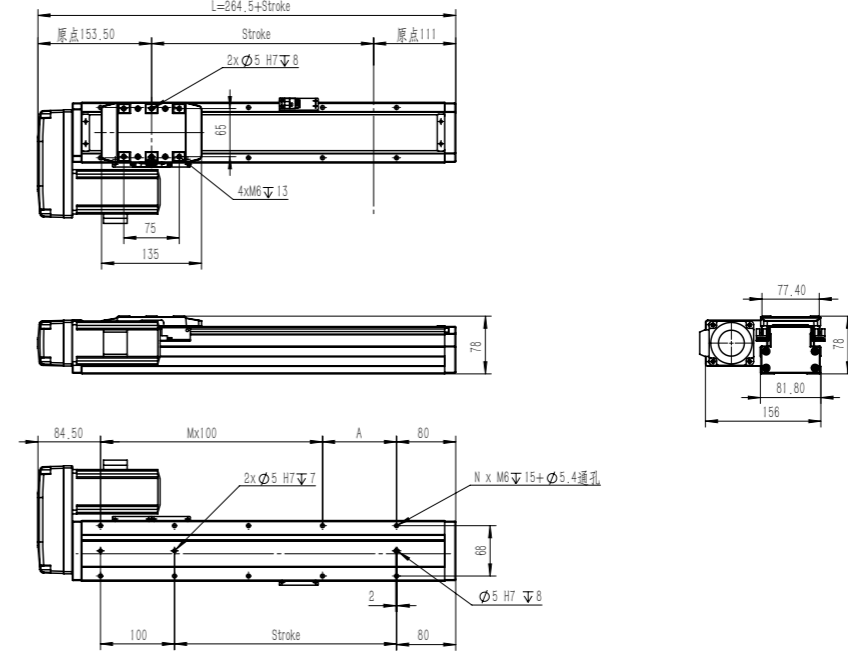
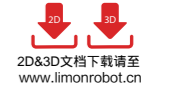


行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
重量 Weight (kg)	5.19	5.6	6.12	6.64	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.48

導軌內嵌式滑台模組 GSC 80

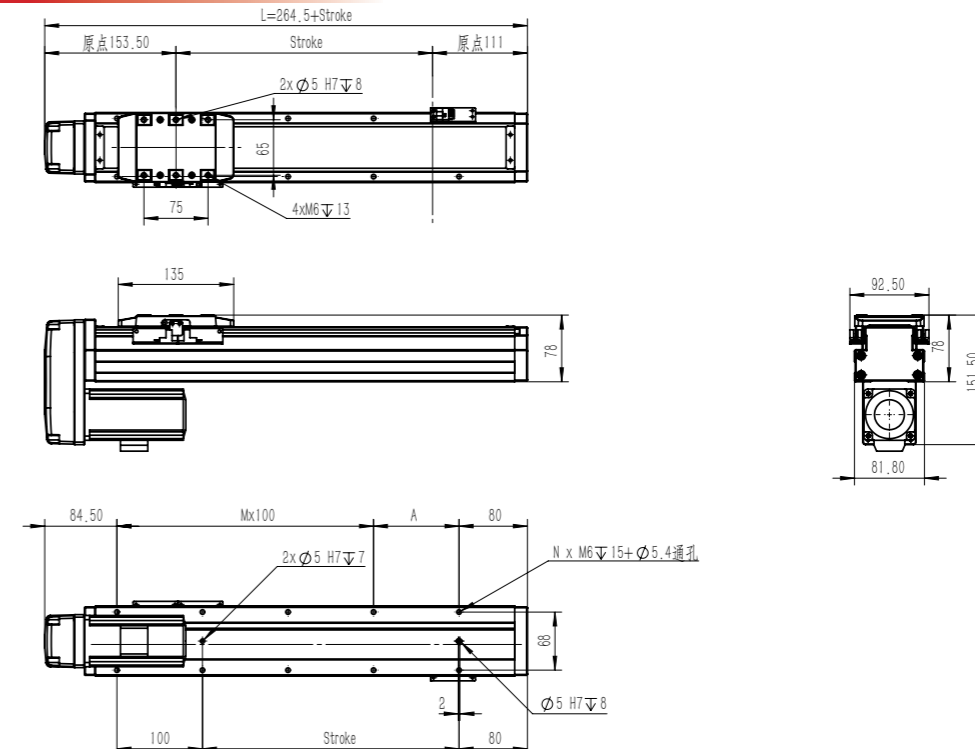
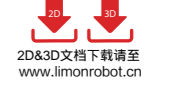
Inserted sliding platform of guide rail

GSC 80-MR 馬達右折安裝 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
L	314.5	364.5	414.5	464.5	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
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
重量 Weight (kg)	5.19	5.6	6.12	6.64	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.48

GSC 80-MD 馬達下折安裝 Down Motor Mounting



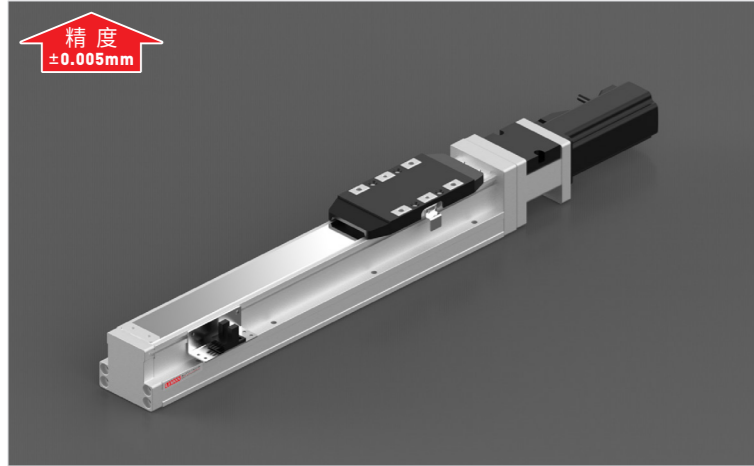
行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
重量 Weight (kg)	5.19	5.6	6.12	6.64	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.48

GSC 120 導軌內嵌式滑台模組

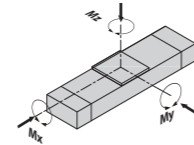
Inserted sliding platform of guide rail

訂購型號代碼 Code

GSC 120	L10	500	MS	M40	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	馬達方向 Motor Mounting Position	馬達廠牌、功率 Motor Brand, Power Output	限位传感器数量 Photoelectric Sensor	特注式樣 Special Order No.
	05 10 20 32	50-1250, 間隔Gap50	MS: 马达直接安裝 Straight Motor Mounting ML: 马达左折安裝 Left Motor Mounting MR: 马达右折安裝 Right Motor Mounting MD: 马达下折安裝 Down Motor Mounting	M 三菱 Mitsubishi 20 200W 40 400W P 松下 Panasonic 20 200W 40 400W	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未标记: 无 NoMark: NoSensor	



最大靜態力和力矩 Max Static Forces And Torques

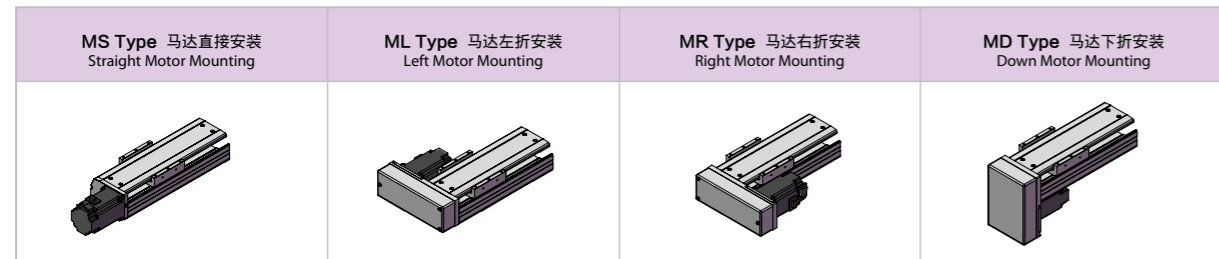


Type	
M(x) (N·m)	606
M(y) (N·m)	606
M(z) (N·m)	1168

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

GSC 120					
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.005			
	螺桿導程 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
基本規格 Basic Specification	定格推力 Rated Thrust (N)	1388	694	347	218
	標準行程 Stroke (mm)	50-1250 mm / 50 Pitch			
	AC伺服馬達容量 AC Servo Motor Output (W)	400			
	滾珠螺桿外徑 Ball Screw Diameter (mm)	C7 Ø16			
联轴器 Coupling (mm)	10 × 14				
原點感應器 Home Sensor	PM-Y45(NPN)				

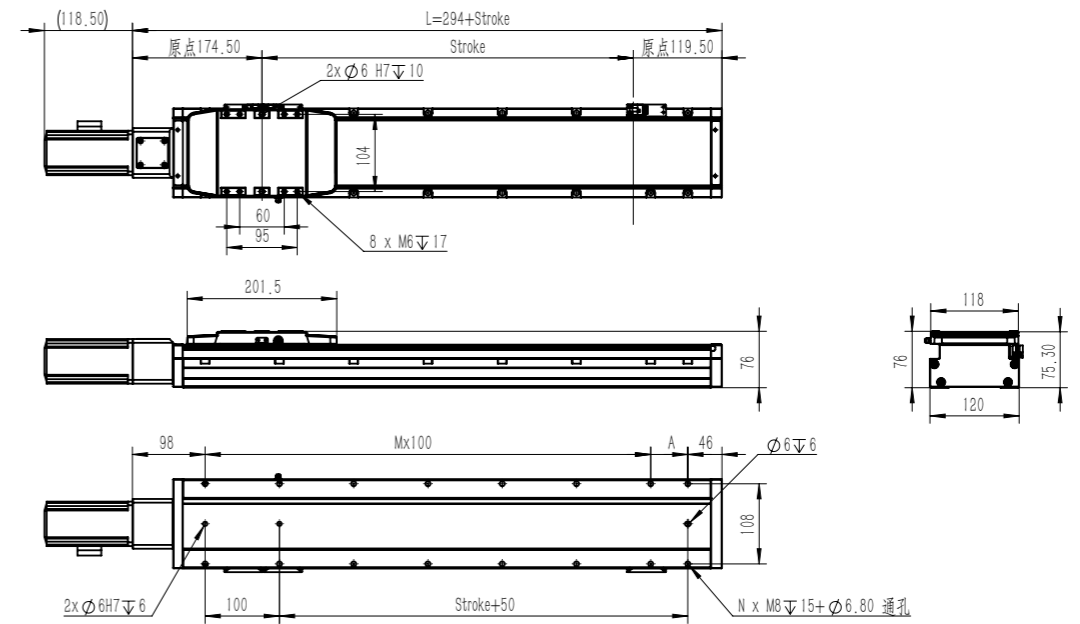
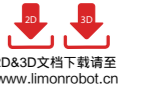
容許負載力矩表 Allowable Overhang

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

導軌內嵌式滑台模組 GSC 120

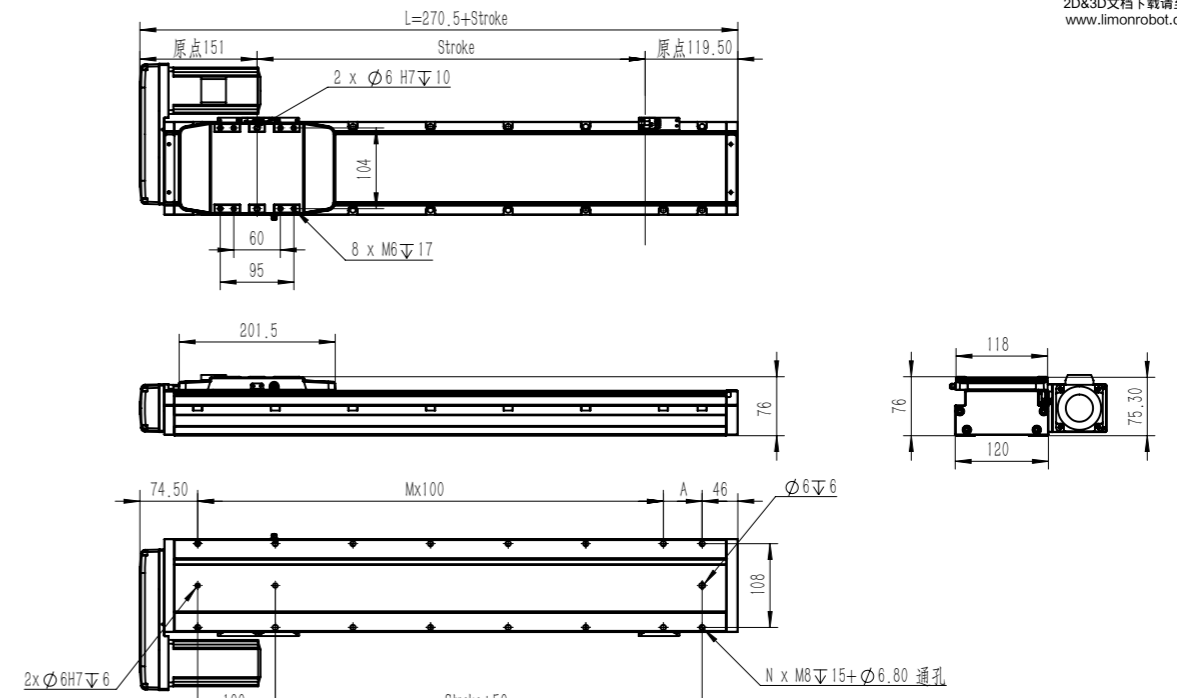
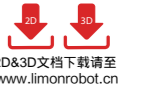
Inserted sliding platform of guide rail

GSC 120-MS 馬達直接安裝 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
P	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
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 馬達左折安裝 Left Motor Mounting

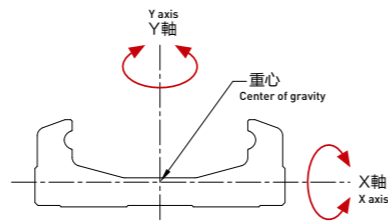
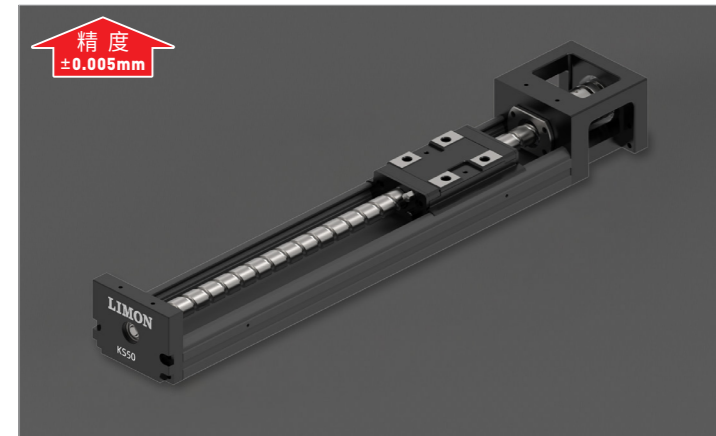


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5	1070.5	1120.5	1170.5	1220.5	1270.5	1320.5	1370.5	1420.5	1470.5	1520.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	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
P	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
重量 Weight(kg)	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.05	8.4	8.75	9.1	9.45	9.8	10.15	10.5	10.85	11.2	11.55	11.9	12.25	12.6	12.95	13.3	13.65

KS 60 KS系列模組 KS series module

訂購型號代碼 Code

KS60	05	P	200	A	2	F0	C	S0
本體型號 Item NO.	螺桿行程 Travel	精度等級 Accuracy Grade	軌道長度mm Track Length	滑座形式 Slide Types	滑座數量 Slide Number	馬達連接法蘭 Motor Connection	護蓋 Protecting Cover	極限開關 Limit Switch
05	10	P: 精密級 Precision Class C: 一般級 Normal Class	150 200 300 400 500 600	A: 標準型 Standard Type S: 輕載型 Light Load Type	1 2	F0 - F5 H0 T1/T2/T5 注: 詳見P14.	C: 鋁護套 Aluminum Cover B: 伸縮護套 Telescopic cover 无标记: 无护套 None: no cover	S0: 只有極限軌道 Only limit orbit S1: 松下PM-Y45 Panasonic PM-Y45

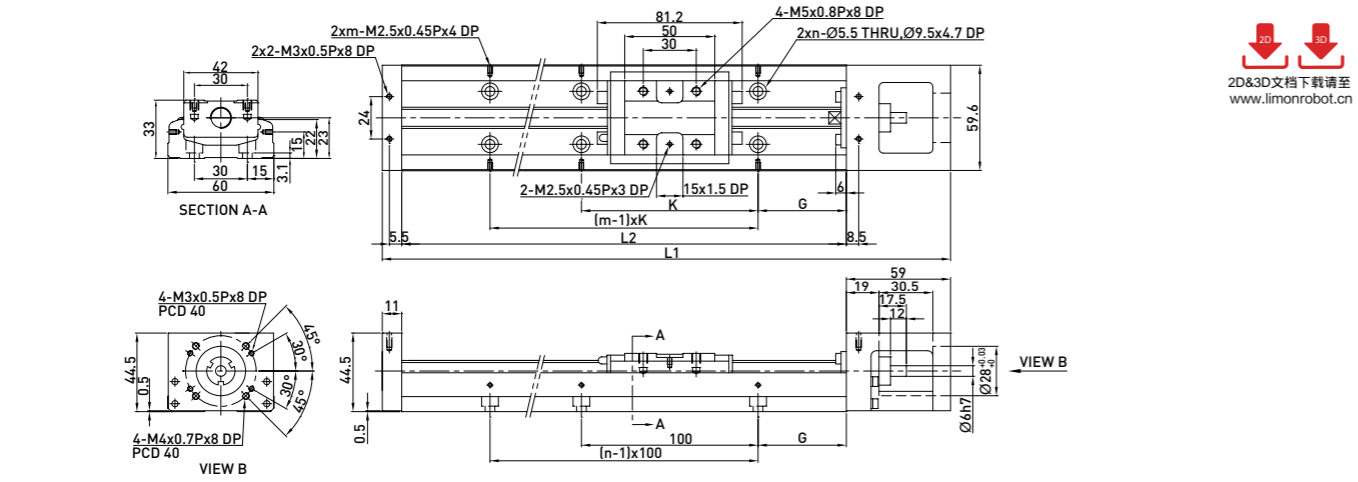


I_x : 延著X軸之慣性矩 Moment of inertia along the X-axis
 I_y : 延著Y軸之慣性矩 Moment of inertia along the Y-axis
 慣性矩 單位: mm⁴

型號	I_x	I_y
KS60	2.056×10^4	2.802×10^5

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 6005	P	12	5	3744	6234	13230	7173	21462	11574	152	760	72	367	152	760	72	367	419	838	241	482
KS 6010	P	12	10	2410	3743	13230	7173	21462	11574	152	760	72	367	152	760	72	367	419	838	241	482



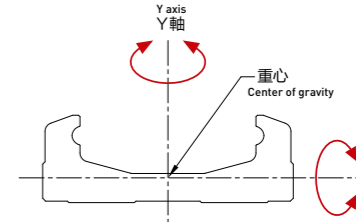
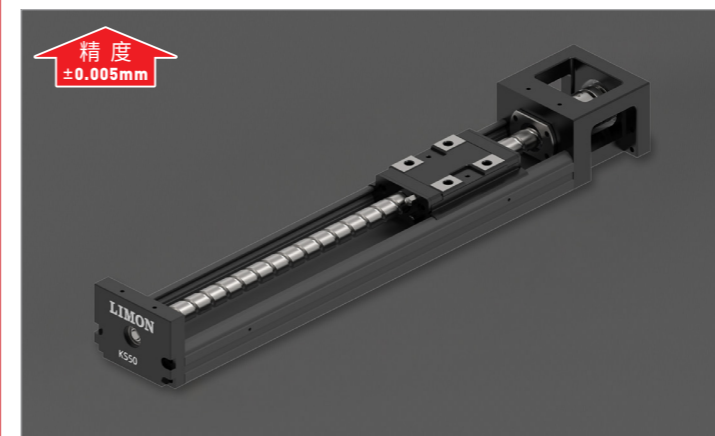
軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		G (mm)	K (mm)	n	m	重量 (kg)	
		A1 滑座	A2 滑座					A1 滑座	A2 滑座
150	220	60	-	25	100	2	2	1.5	-
200	270	110	-	50	100	2	2	1.8	-
300	370	210	135	50	200	3	2	2.4	2.7
400	470	310	235	50	100	4	4	3	3.3
500	570	410	335	50	200	5	3	3.6	3.9
600	670	510	435	50	100	6	6	4.2	4.6

KS系列模組 KS series module

KS 86

訂購型號代碼 Code

KS86	10	P	200	A	2	F0	C	S0
本體型號 Item NO.	螺桿行程 Travel	精度等級 Accuracy Grade	軌道長度mm Track Length	滑座形式 Slide Types	滑座數量 Slide Number	馬達連接法蘭 Motor Connection	護蓋 Protecting Cover	極限開關 Limit Switch
10	20	P: 精密級 Precision Class C: 一般級 Normal Class	340 440 540 640 740 940	A: 標準型 Standard Type S: 輕載型 Light Load Type	1 2	F0 - F6 H0 T0/T1/T6 注: 詳見P15.	C: 鋁護套 Aluminum Cover B: 伸縮護套 Telescopic cover 无标记: 无护套 None: no cover	S0: 只有極限軌道 Only limit orbit S1: 松下PM-Y45 Panasonic PM-Y45

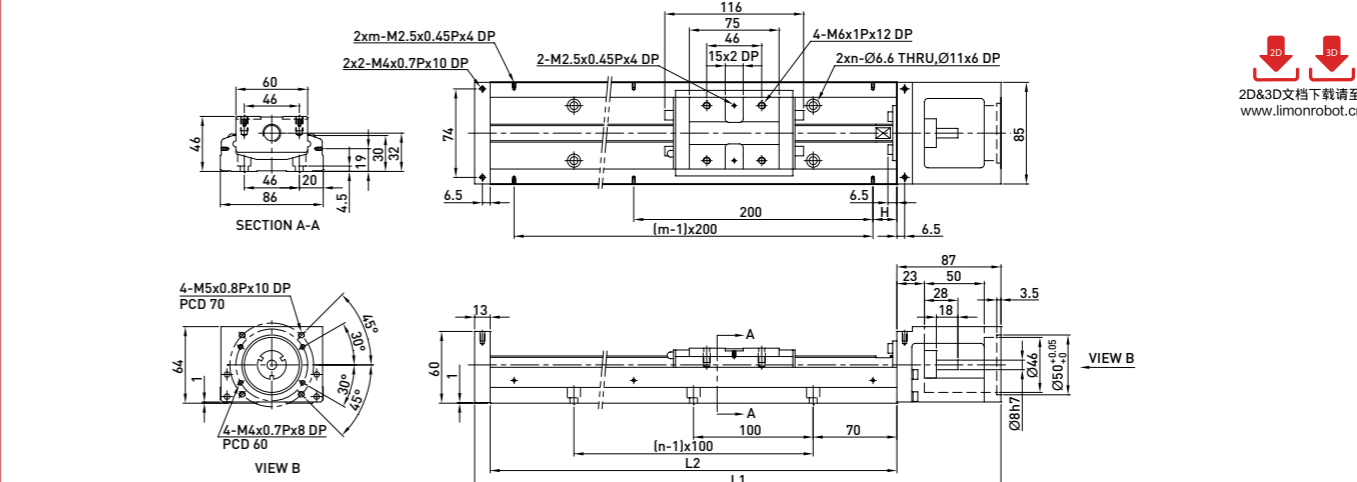


I_x : 延著X軸之慣性矩 Moment of inertia along the X-axis
 I_y : 延著Y軸之慣性矩 Moment of inertia along the Y-axis
 慣性矩 單位: mm⁴

型號	I_x	I_y
KS86	7.445×10^4	1.134×10^5

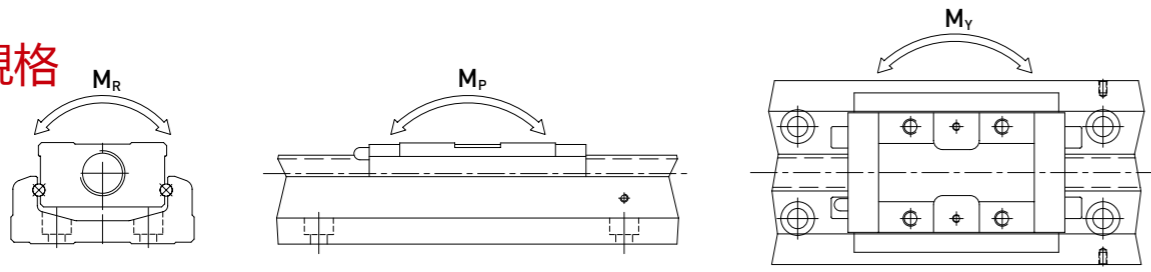
基本規格 Basic Specification

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 8610	P	15	10	7144	12642	31458	21051	50764	29475	622	3050	228	1309	622	3050	228	1309	1507	3014	847	1694
KS 8620	P	15	20	4645	7655	31458	21051	50764	29475	622	3050	228	1309	622	3050	228	1309	1507	3014	847	1694



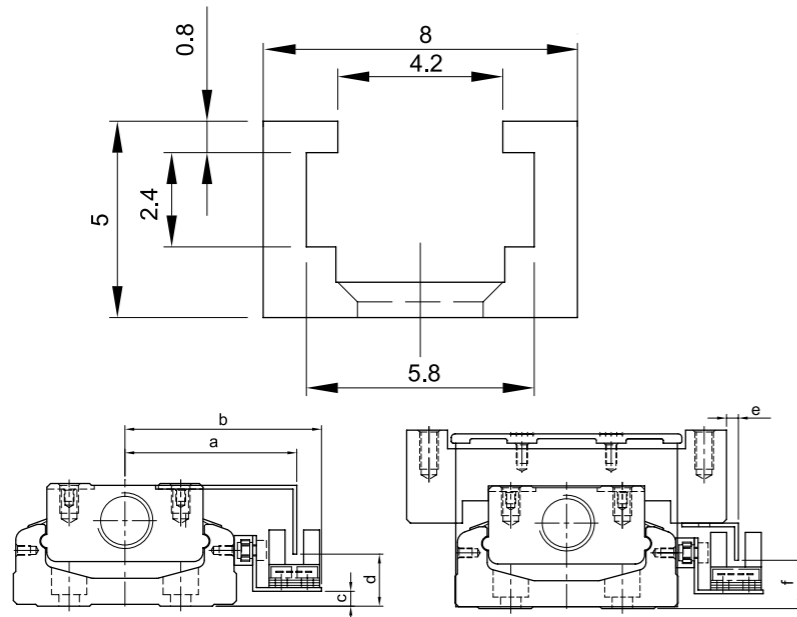
軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		H (mm)	n	m	重量 (kg)	
		A1 滑座	A2 滑座				A1 滑座	A2 滑座
340	440	210	100	70	3	2	5.7	6.5
440	540	310	200	20	4	3	6.9	7.7
540	640	410	300	70	5	3	8.0	8.8
640	740	510	400	20	6	4	9.2	10.0
740	840	610	500	70	7	4	10.4	11.2
940	1040	810	700	70	9	5	11.6	12.4

負載規格



極限開關

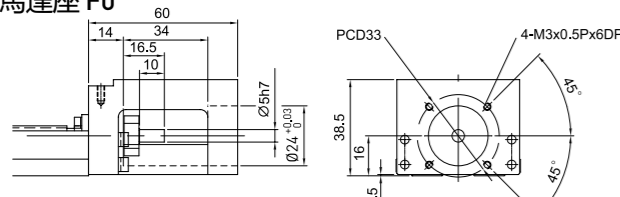
極限軌道



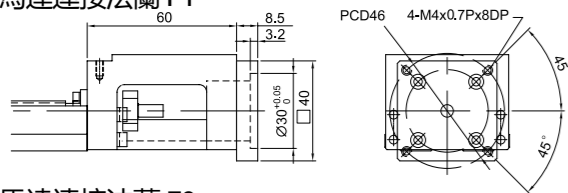
尺寸	a	b	c	d	e	f
KS50	41.3	48	1	10.5	10.2	11
KS60	46.2	52.8	4	14	3.2	13
KS86	59	65.7	8	18	3	18

KS50

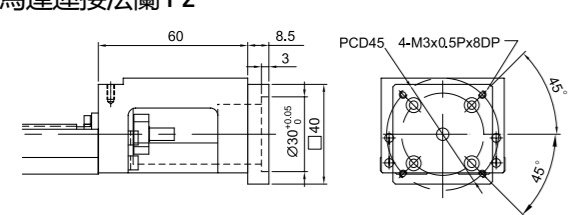
馬達座 F0



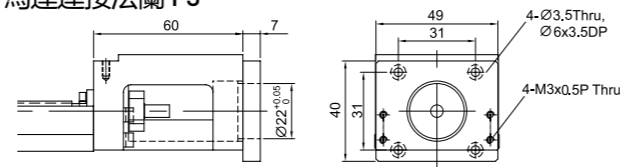
馬達連接法蘭 F1



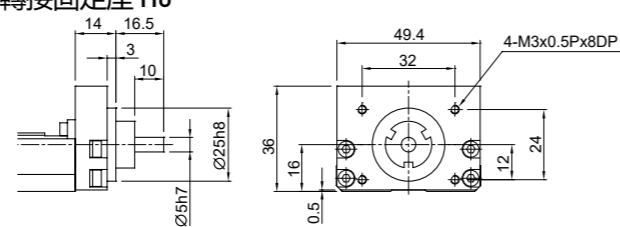
馬達連接法蘭 F2



馬達連接法蘭 F3

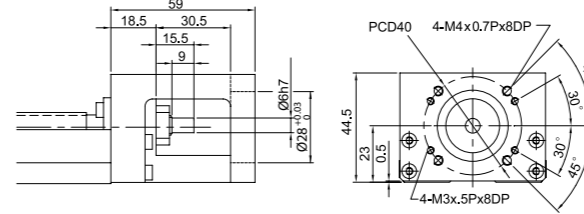


轉接固定座 H0

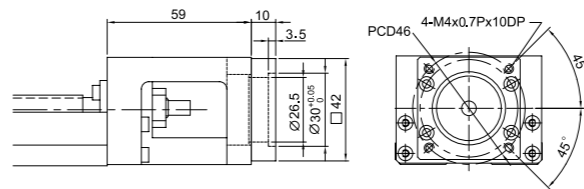


KS60

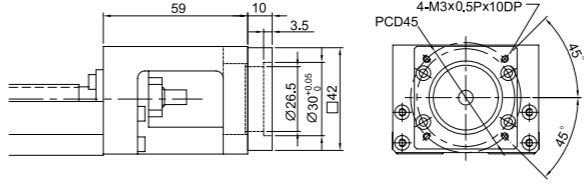
馬達座 F0



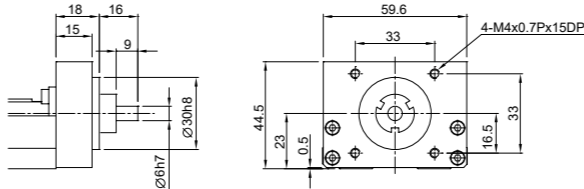
馬達連接法蘭 F1



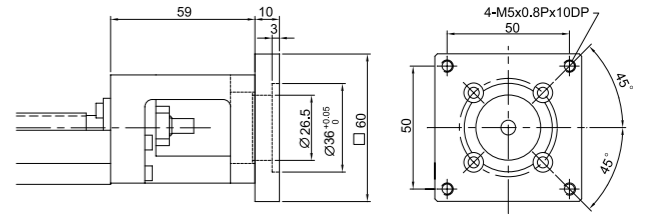
馬達連接法蘭 F2



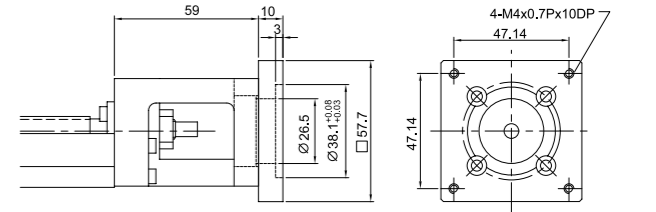
轉接固定座 H0



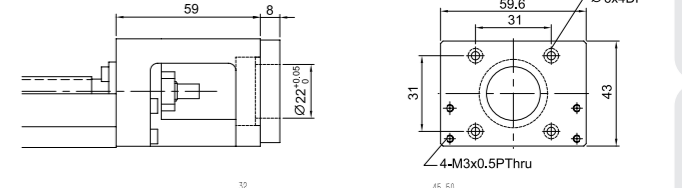
馬達連接法蘭 F3



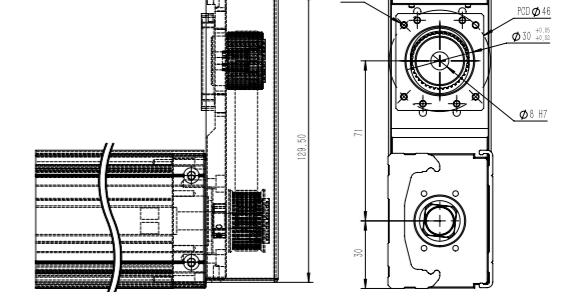
馬達連接法蘭 F4



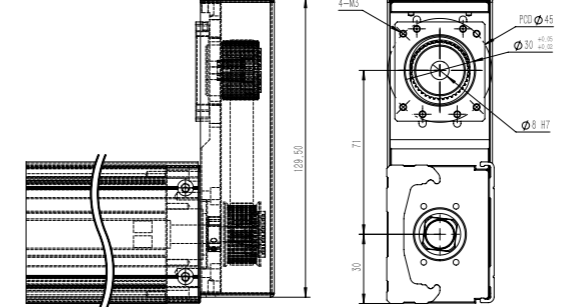
馬達連接法蘭 F5



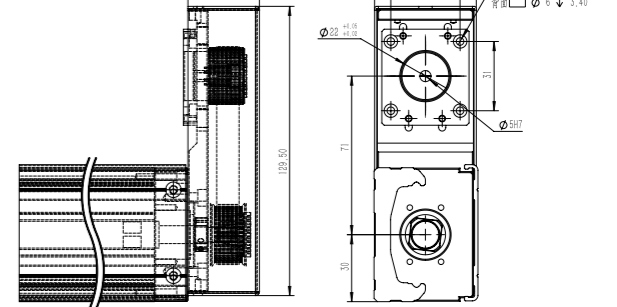
轉折模塊-T1



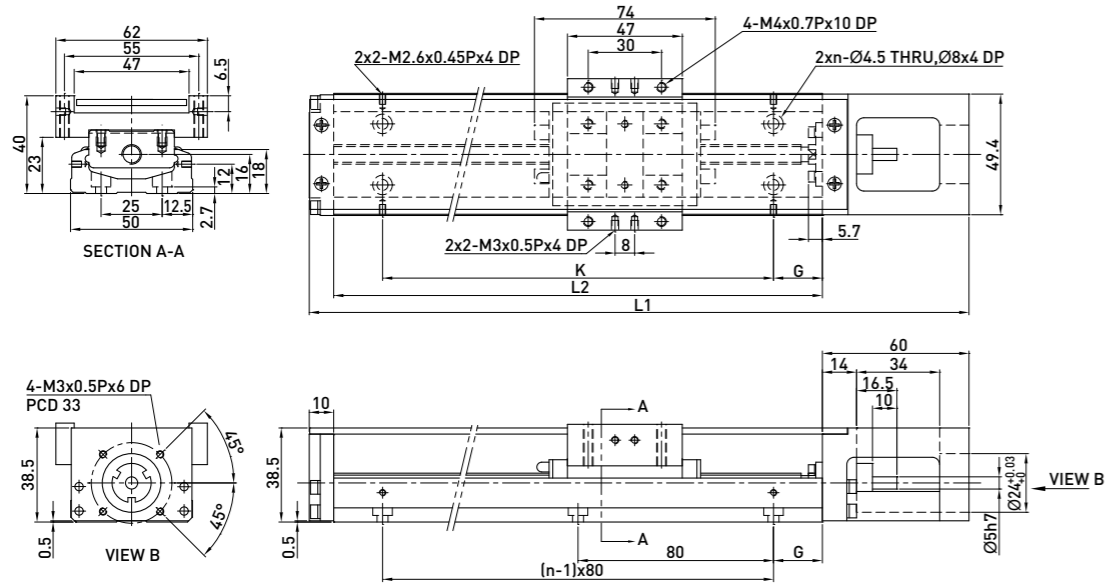
轉折模塊-T2



轉折模塊-T5

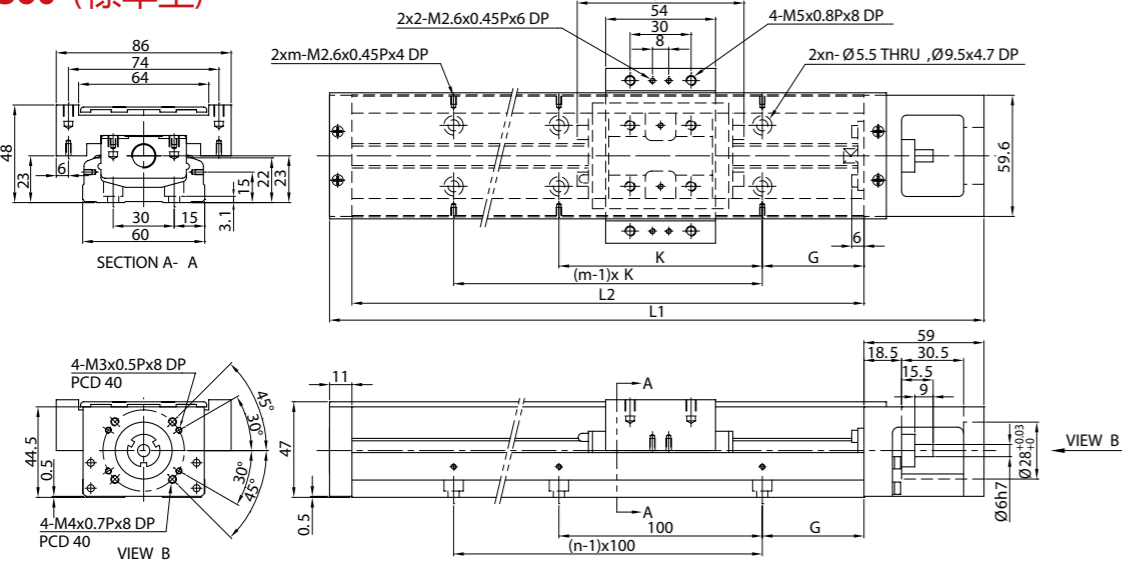


含護蓋 KS50



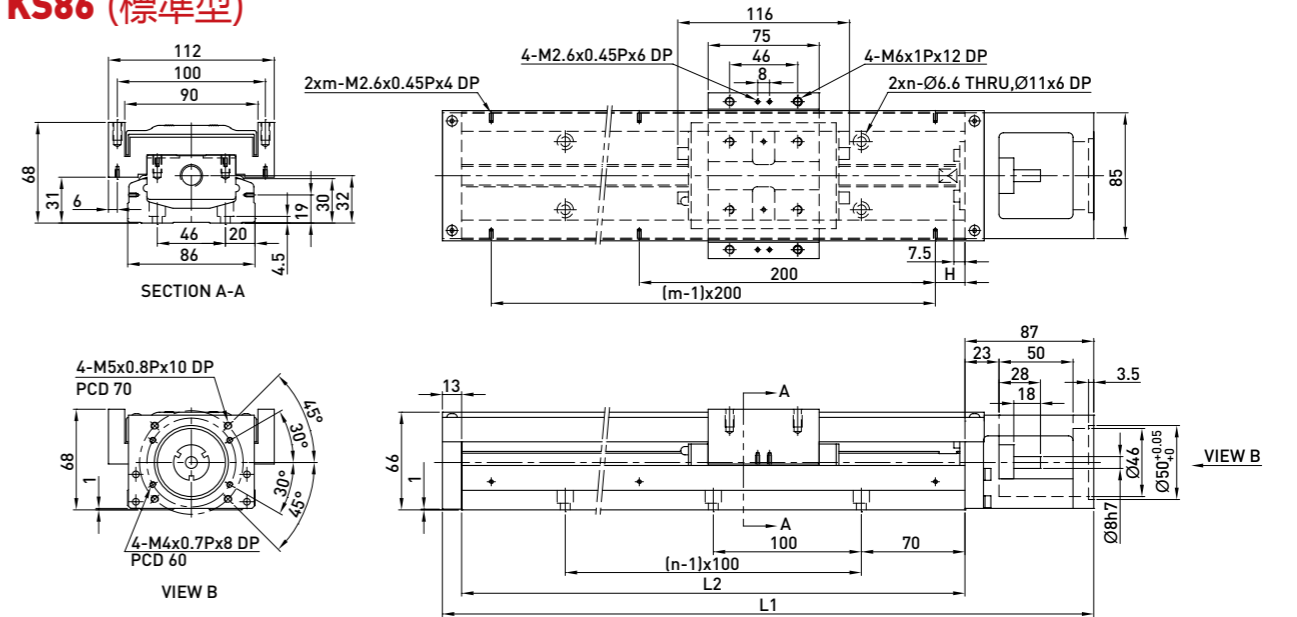
軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		G (mm)	K (mm)	n	重量 (kg)	
		A1 滑座	A2 滑座				A1 滑座	A2 滑座
150	220	70	-	35	80	2	1.1	-
200	270	120	55	20	160	3	1.3	1.5
250	320	170	105	45	160	3	1.6	1.8
300	370	220	155	30	240	4	1.8	2.0

KS60 (標準型)



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

KS86 (標準型)



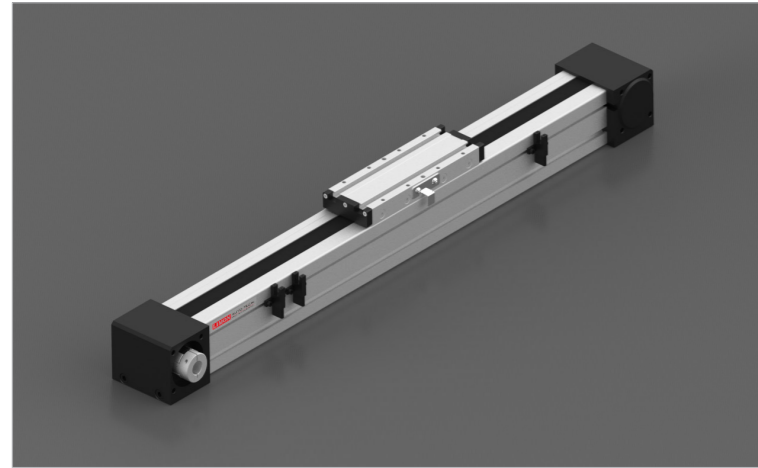
軌道長度 L2 (mm)	全長 L1 (mm)	最大行程 (mm)		H (mm)	n	m	重量 (kg)	
		A1 滑座	A2 滑座				A1 滑座	A2 滑座
340	440	210	100	70	3	2	6.5	7.3
440	540	310	200	20	4	3	7.8	8.6
540	640	410	300	70	5	3	9.0	9.8
640	740	510	400	20	6	4	10.3	11.3
740	840	610	500	70	7	4	11.6	12.4
940	1040	810	700	70	9	5	13.0	13.8

ITO 40/60/80/100 歐標半密式同步帶驅動型 Belt Driven Linear Actuator

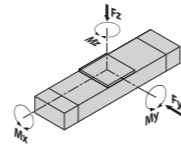
訂購型號代碼 Code

ITO60	500	L	D01	DB <small>注</small>	G5	M40	P3	A001
本體型號 Item NO.	行程 Stroke	是否加長滑塊	馬達方向	輔助滑塊	減速比	馬達廠牌、功率	限位傳感器數量	特注式樣
ITO40	100-4000, 間隔Gap100	未標註: 標準滑塊 L: 加長滑塊	D01 D02 D03 D04 D05	未填寫: 單滑塊 DB: 輔助滑塊	G3 1:3 G4 1:4 G5 1:5 G7 1:7 G10 1:10 <small>未標記: 無減速比</small>	M 三菱 Mitsubishi 10 100W P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 750W 1K 1000W	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS <small>未標記: 無</small> No Mark: No Sensor	Special Order No.

注: 輔助滑塊選項相關參數參見樣本P144.



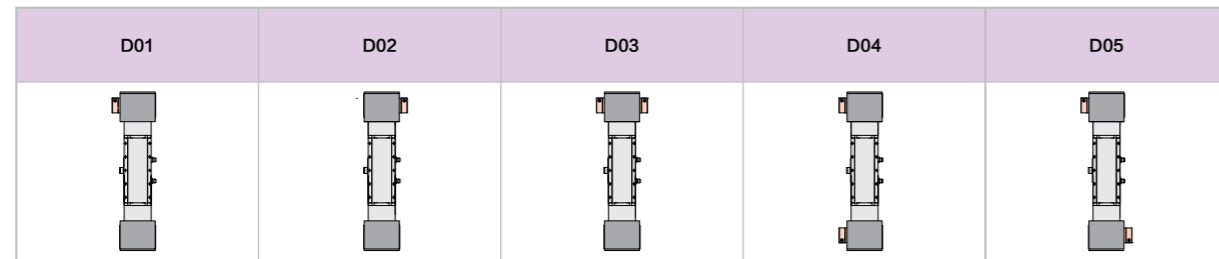
最大動態力和力矩 Max Permissible Forces And Torques



規格 Type	40	60	60-L	80	80-L	100	100-L
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

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torques relate to the following:
$$\frac{F_y}{F_y \max} + \frac{F_z}{F_z \max} + \frac{M_x}{M_x \max} + \frac{M_y}{M_y \max} + \frac{M_z}{M_z \max} \leq 1$$

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

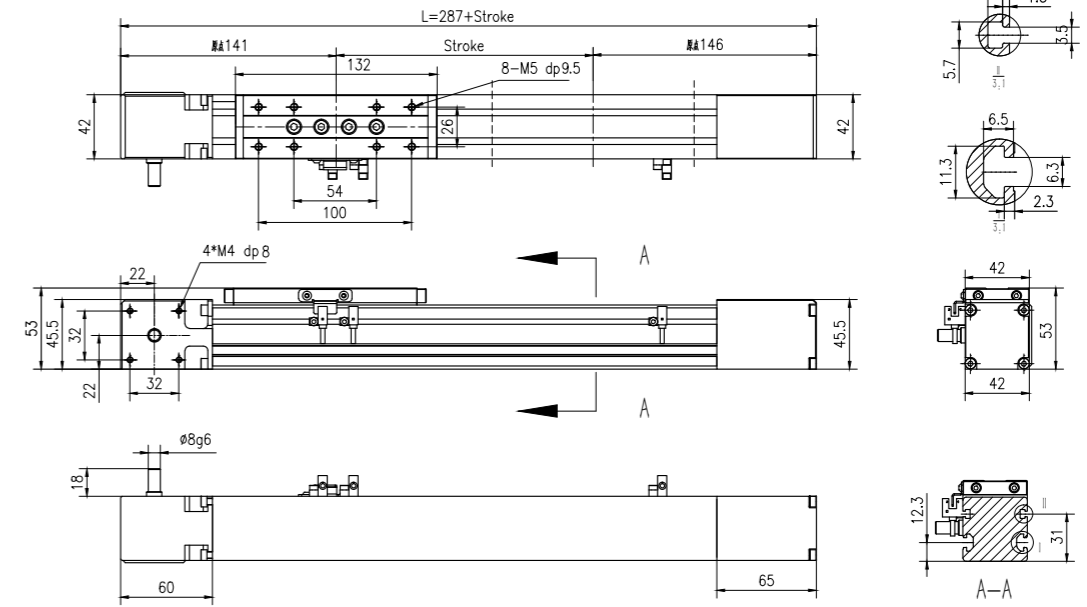
ITO		40	60	60-L	80	80-L	100	100-L
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.05						
	皮帶輪導程 Pulley Lead (mm)	99	130		176		224	
	皮帶型號 Belt Type	3M-10	5M-25		8M-30		8M-50	
	最高速度 Maximum Speed (mm/s)	3000	5000		5000		5000	
	最大可搬重量 Maximum Payload	水平使用 Horizontal (kg) 垂直使用 Vertical (kg)	10 8	30 20	45 30	50 40	75 60	80 60
基本規格 Basic Specification	最大空載扭矩 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
	標準行程 Stroke (mm)	100-1500mm/100pitch		100-4000mm/100pitch				
	AC伺服馬達容量 AC Servo Motor Output (W)	100	200/400		400/750		750/1000	
高剛性直線滑軌 Linear Guide	高剛性直線滑軌	12# × 1PCS	15# × 1PCS		20# × 1PCS		25# × 1PCS	
	主機剖面最大外形 Max Outline of Main Engine's Cross Section (mm)	42 × 53		80 × 79				
	原點感應器 Home Sensor	EE-SX952-R(NPN)		EE-SX672(NPN)				

#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。

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

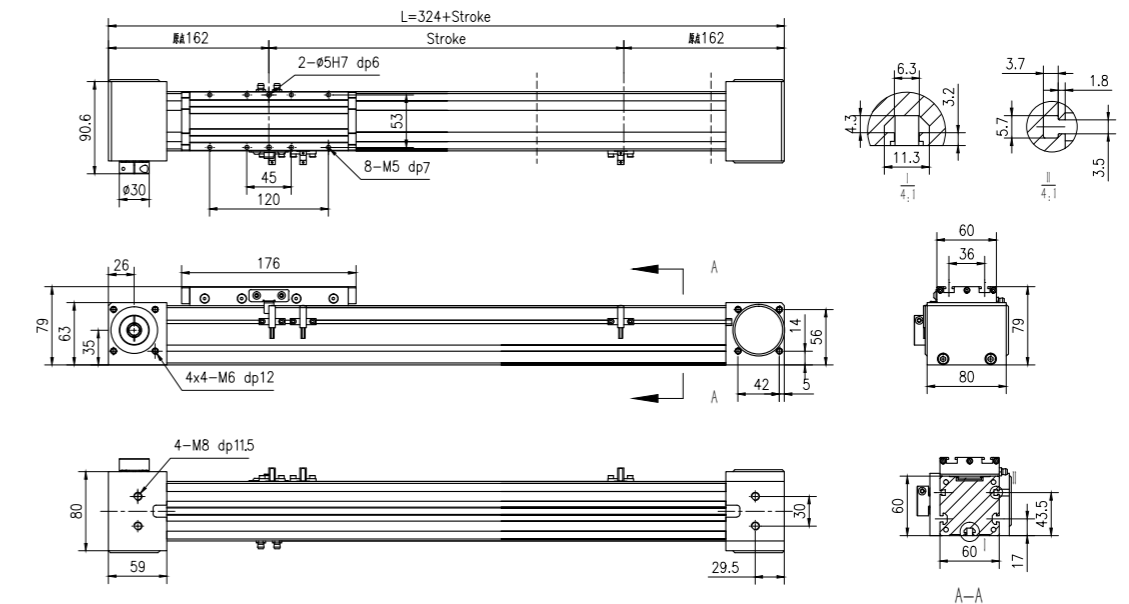
歐標半密式同步帶驅動型 ITO 40/60/80/100 Belt Driven Linear Actuator

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



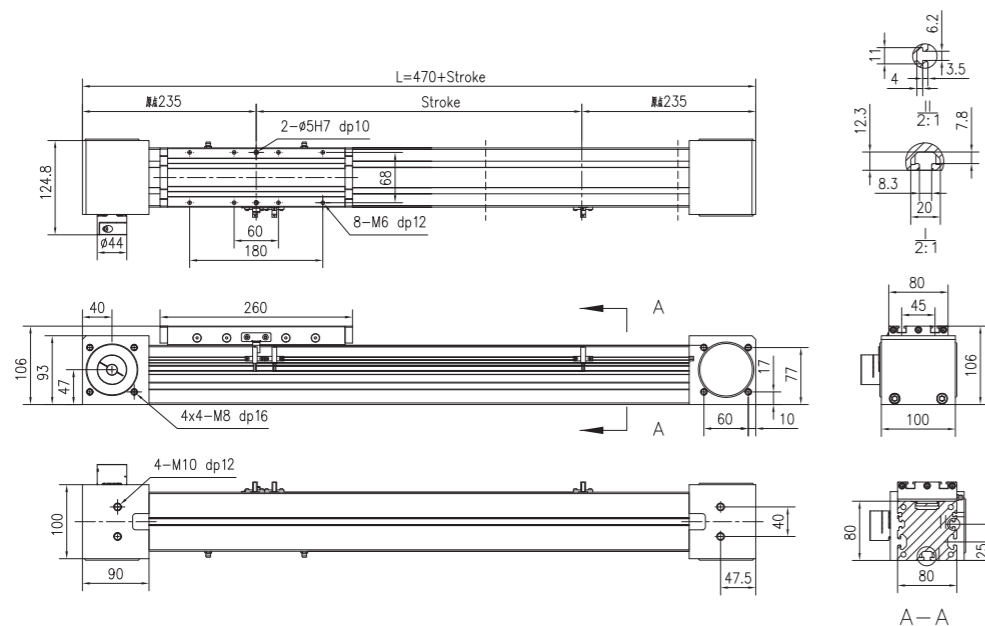
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	424	524	624	724	824	924	1024	1124	1224	1324	1424	1524	1624	1724	1824	1924	2024	2124	2224	2324
重量 Weight (kg)	2.5	3.0	3.5	4.0	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.7	10.2	10.7	11.2	11.7	12.2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

Belt Driven Linear Actuator

ITO 80

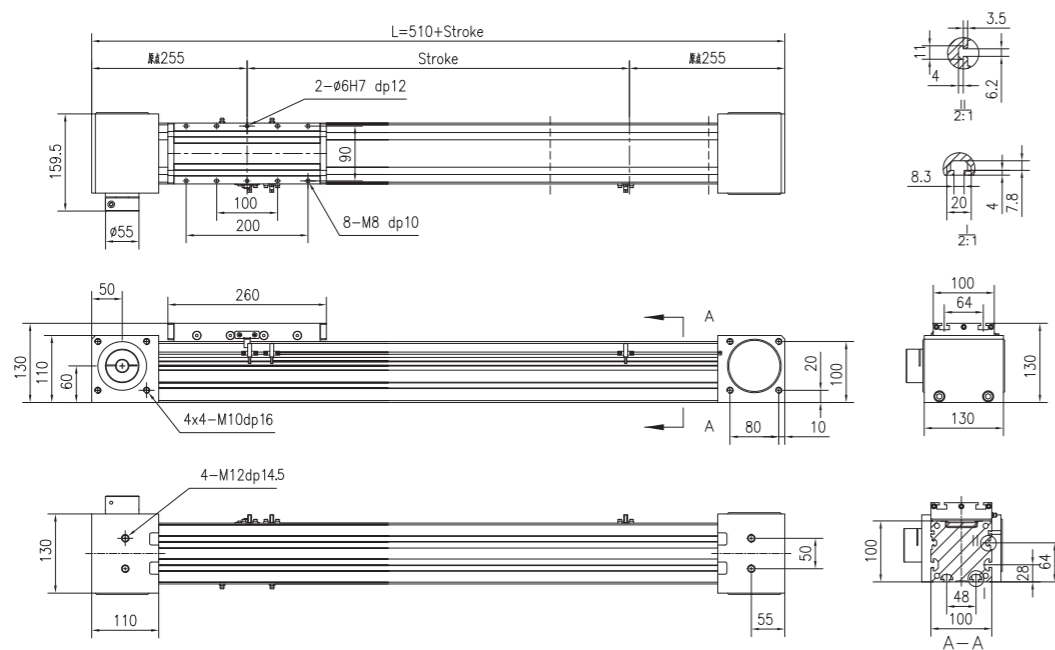
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行程Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	570	670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370	2470
重量 Weight (kg)	9.1	9.9	10.8	11.6	12.5	13.4	14.2	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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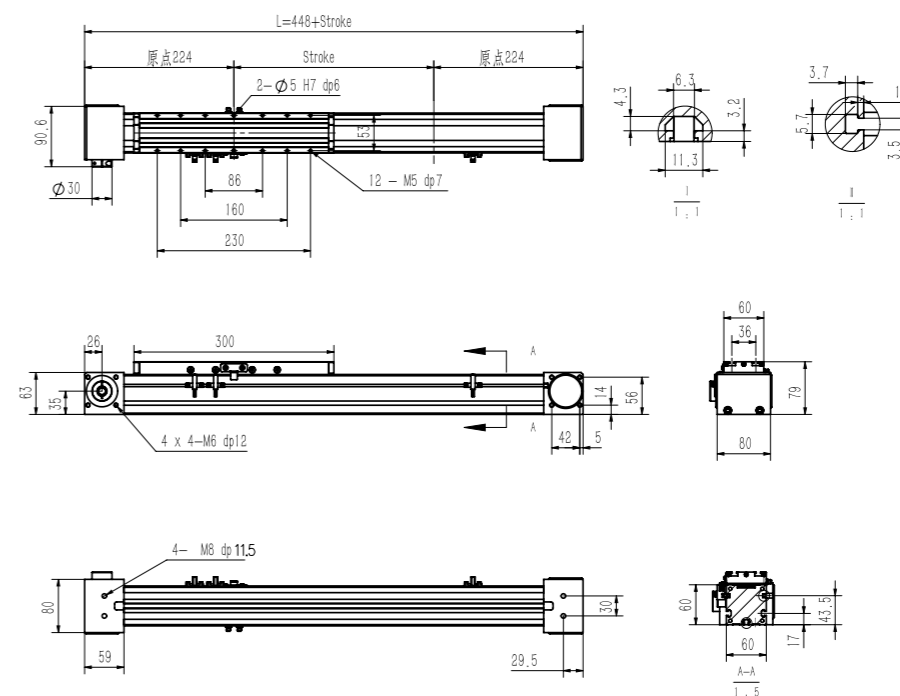
行程Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510
重量 Weight (kg)	15.5	16.8	18.0	19.2	20.5	21.7	22.9	24.1	25.4	26.6	27.8	29.1	30.3	31.5	32.8	34.0	35.2	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

歐標半密式同步帶驅動型 ITO 40/60/80/100

Belt Driven Linear Actuator

ITO 60-L

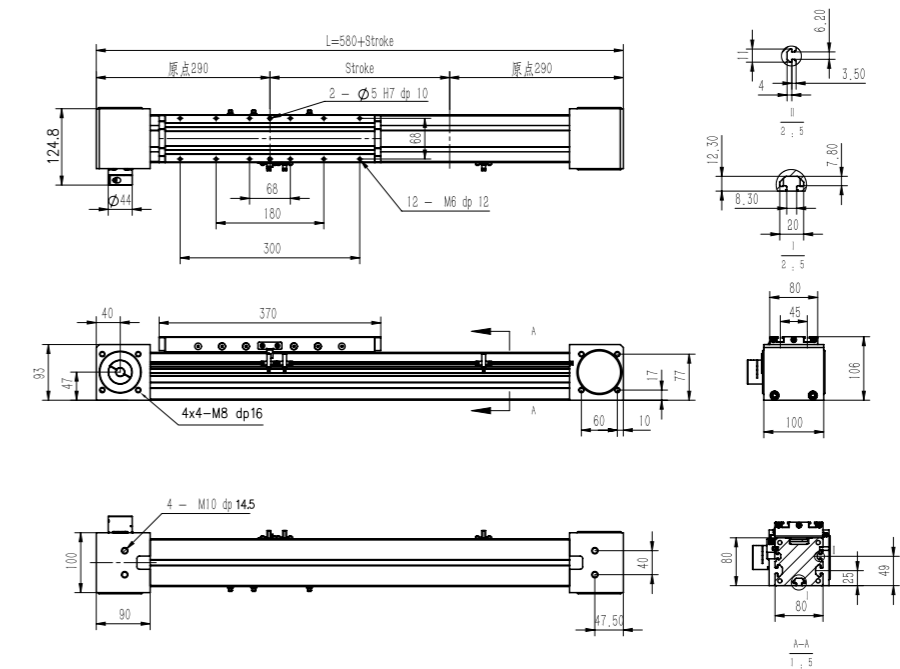
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行程Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	548	648	748	848	948	1048	1148	1248	1348	1448	1548	1648	1748	1848	1948	2048	2148	2248	2348	2448
重量 Weight (kg)	3.8	3.3	3.8	4.3	4.8	5.3	5.8	6.3	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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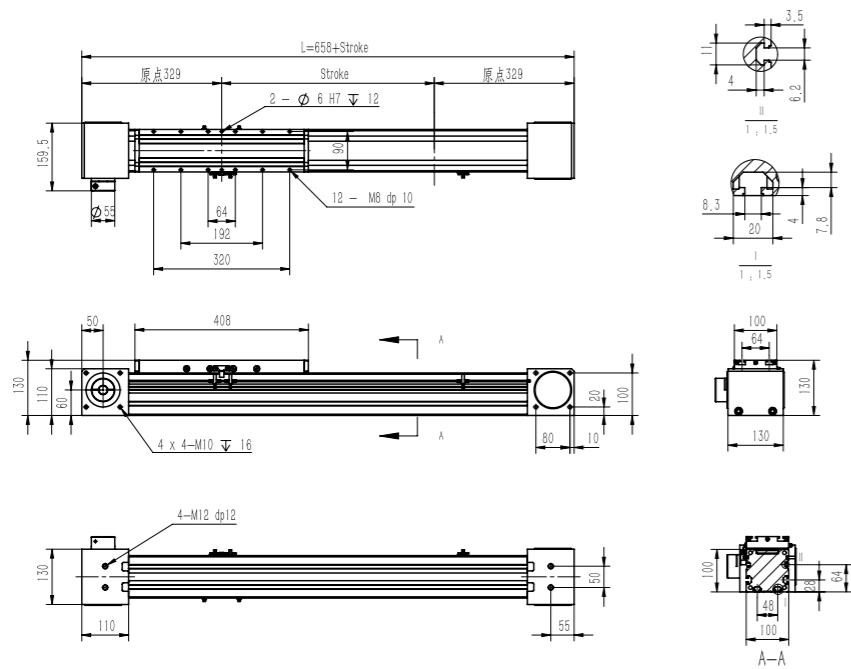
行程Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	680	780	880	980	1080	1180	1280	1380	1480	1580	1680	1780	1880	1980	2080	2180	2280	2380	2480	2580
重量 Weight (kg)	9.8	10.6	11.4	12.2	13	13.8	14.6	15.4	16.2	17	17.8	18.6	19.4	20.2	21	21.8	22.6	23.4	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 歐標半密式同步帶驅動型

Belt Driven Linear Actuator

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

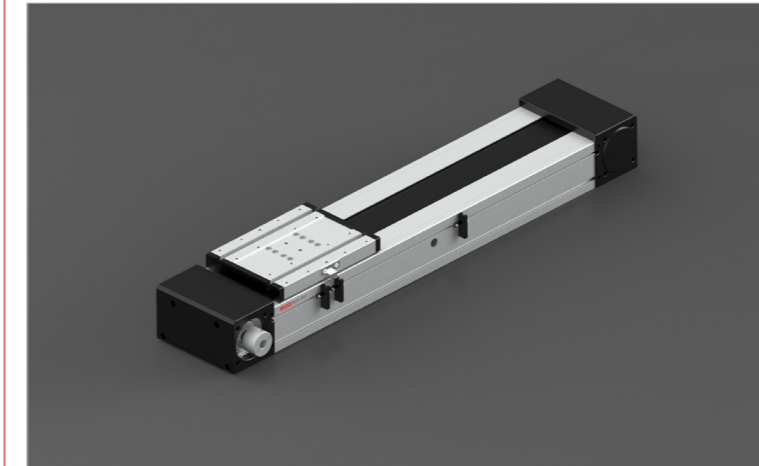
歐標半密式同步帶驅動型 ITO 160

Belt Driven Linear Actuator

訂購型號代碼 Code

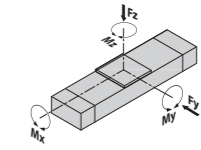
ITO160	500	L	D01	DB	G5	M40	P3	A001
本體型號 Item NO.	行程 Stroke	是否加長滑塊 未標注:標準滑塊 L: 加長滑塊	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block 未填寫:單滑塊 DB: 輔助滑塊	減速比 Reduction ratio	馬達廠牌、功率 Motor Brand、Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
ITO160	100-4000,間隔Gap100		D01 D02 D03 D04 D05 D06		G3 1:3 G4 1:4 G5 1:5 G7 1:7 G10 1:10 未標記:無減速比	M 三菱 Mitsubishi 10 / P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 750W 1K 1000W	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未標記: 无 No Mark:No Sensor	

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩

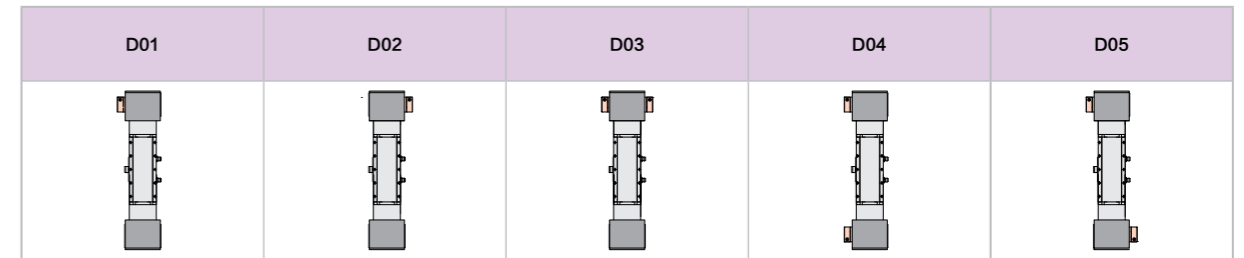
Max Permissible Forces And Torques



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

除了滿足最大負載和力矩外, 還必須滿足以下公式:
All forces and torques relate to the following:
$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

ITO		160	
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.05	
	皮帶輪導程 Pulley Lead (mm)	176	
	皮帶型號 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
	最大空載扭矩 Max. No-load Driving Torque (N·m)	1.2	
最大扭矩 Max. Driving Torque (N·m)	112.7		
基本規格 Basic Specification	標準行程 Stroke (mm)	100-4000mm / 100 Pitch	
	AC伺服馬達容量 AC Servo Motor Output (W)	750W-1000W	
	高刚性直線滑軌 Linear Guide	20# × 2pcs	
	主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	166 × 106	
原點感應器 Home Sensor	EE-SX672(NPN)		

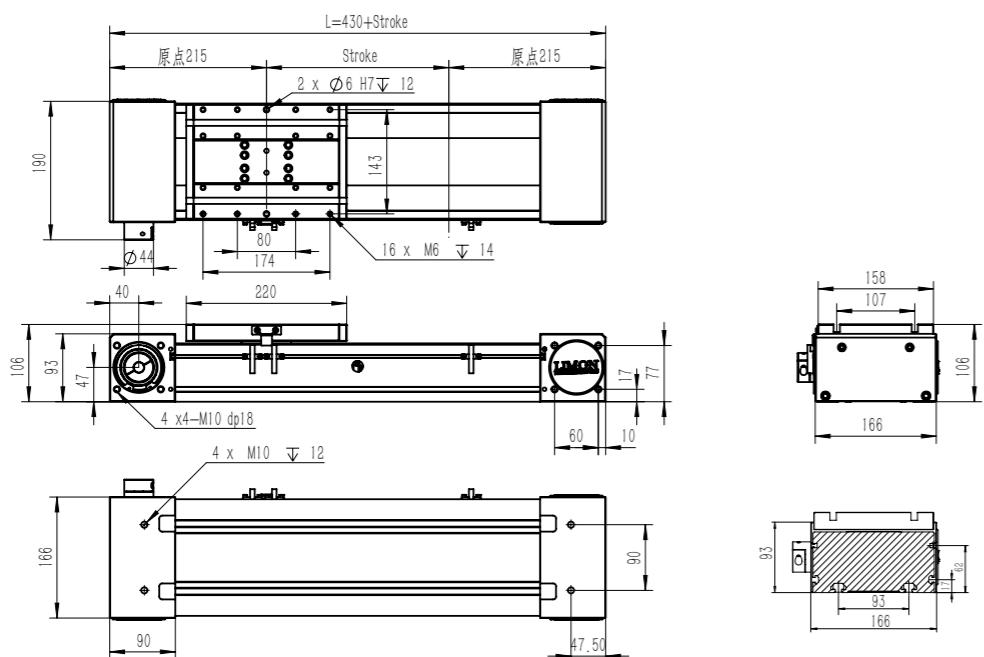
#注1: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。
#Note1: Date changes relevently according to different torque and accelerated speed.Please refer to the LIMON calculate software.

ITO 160 歐標半密式同步帶驅動型

Belt Driven Linear Actuator

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

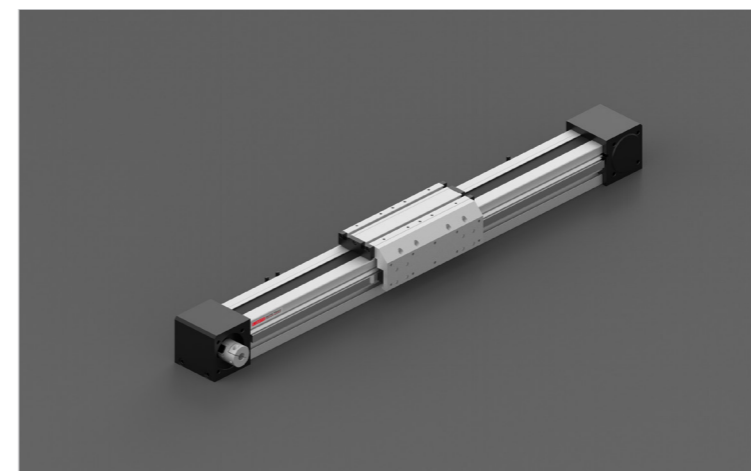
歐標半密式同步帶驅動側軌加強型 HTO 80/100

Belt Driven Linear Actuator

訂購型號代碼 Code

HTO80	500	L	D01	DB 注	G5	M40	P3	A001
本體型號 Item NO.	行程 Stroke	是否加長滑塊	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	減速比 Reduction ratio	馬達廠牌、功率 Motor Brand、Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
HTO80	100-4000, 間隔Gap100	未標注: 標準滑塊	D01	未填寫: 單滑塊	G3 1:3	M 三菱 Mitsubishi 10 /	P1: 1只 1PC	
HTO100		L: 加長滑塊	D02	DB - 輔助滑塊	G4 1:4	P 松下 Panasonic 20 200W	P2: 2只 2PCS	
			D03		G5 1:5	Y 安川 Yaskawa 40 400W	P3: 3只 3PCS	
			D04		G7 1:7	D 台達 Delta 75 750W	未標記: 无	
			D05		G10 1:10	1K 1000W	No Mark: No Sensor	
			D06		未標記: 無減速比			

注: 輔助滑塊選項相關參數參見標本P144.



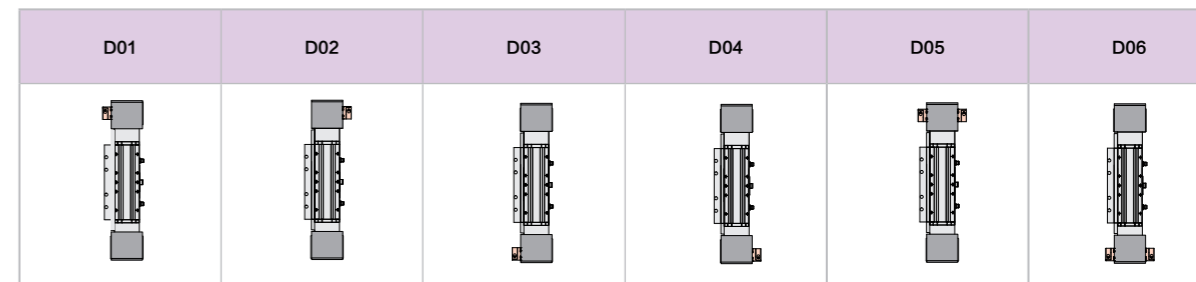
最大動態力和力矩

Max Permissible Forces And Torques

規格 Type	80	80-L	100	100-L
■ 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

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torques relate to the following:
$$\frac{F_y}{F_y \max} + \frac{F_z}{F_z \max} + \frac{M_x}{M_x \max} + \frac{M_y}{M_y \max} + \frac{M_z}{M_z \max} \leq 1$$

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

HTO		80	80-L	100	100-L	
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.05				
	皮帶輪導程 Pulley Lead (mm)	176	176	224	224	
	皮帶型號 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	247.5
		垂直使用 Vertical (kg)	62	93	105	157.5
	最大空載扭距 Max. No-load Driving Torque (N·m)	0.9	0.9	1.4	1.4	
最大扭距 Max. Driving Torque (N·m)	49.8	49.8	105.7	105.7		
基本規格 Basic Specification	標準行程 Stroke (mm)	100-4000mm/100 pitch				
	AC伺服馬達容量 AC Servo Motor Output (W)	200/400/750	200/400/750	750/1000	750/1000	
	高剛性直線滑軌 Linear Guide	20# × 1PC + 15# × 1PC	20# × 1PC + 15# × 1PC	25# × 1PC + 20# × 1PC	25# × 1PC + 20# × 1PC	
	主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	106 × 122	106 × 122	130 × 151	130 × 151	
	原點感應器 Home Sensor	EE-SX672(NPN)				

#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note1: Data changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

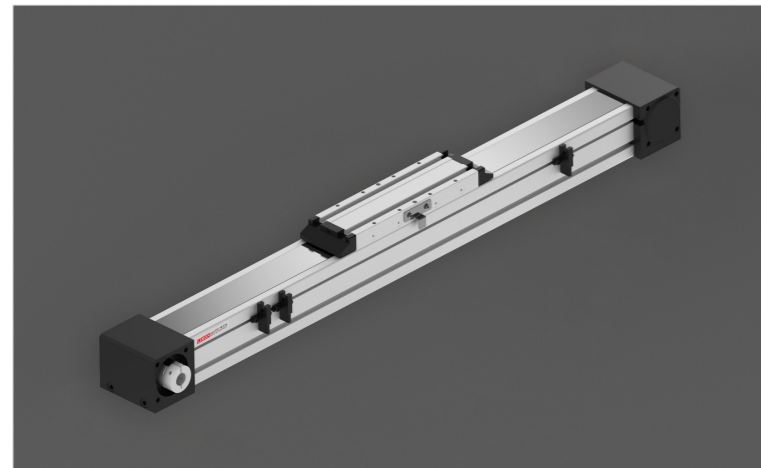
ITC 60/80/100 歐標全密式同步帶驅動型

Belt Driven Linear Actuator

訂購型號代碼 Code

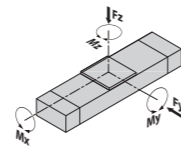
ITC60	500	L	D01	DB <small>注</small>	G5	M40	P3	A001
本體型號 / Item NO.	行程 / Stroke	是否加長滑塊 / 未標注: 標準滑塊 / L: 加長滑塊	馬達方向 / Motor Mounting Position	輔助滑塊 / Auxiliary Block / 未標注: 標準滑塊 / DB: 輔助滑塊	減速比 / Reduction Ratio	馬達廠牌、功率 / Motor Brand, Power Output	限位傳感器數量 / Photoelectric Sensor	特注式樣 / Special Order No.
ITC60	100-4000, 間隔Gap100		D01		G3 1:3	M 三菱 Mitsubishi 10 -	P1: 1只 1PC	
ITC80			D02		G4 1:4	P 松下 Panasonic 20 200W	P2: 2只 2PCS	
ITC100			D03		G5 1:5	Y 安川 Yaskawa 40 400W	P3: 3只 3PCS	
			D04		G7 1:7	D 台達 Delta 75 750W	未標記, 无	
			D05		G10 1:10	1K 1000W	NoMark: NoSensor	

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩

Max Permissible Forces And Torques

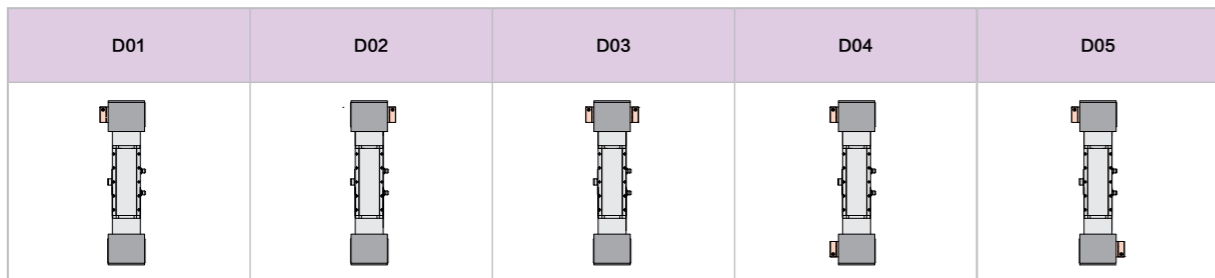


規格 Type	60	60L	80	80L	100	100L
■ F(y) (N)	2457	5235	3131	7277	4375	11675
■ F(z) (N)	3375	5335	5120	7277	7860	11675
■ M(x)(N·m)	22	40	75	75	115	135
■ M(y)(N·m)	78	231	210	558	310	1322
■ M(z)(N·m)	78	231	210	558	310	1322

除了滿足最大負載和力矩外, 還必須滿足以下公式:
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

ITC		60	60L	80	80L	100	100L	
技術參數	位置重複精度 Repetitive Accuracy (mm)	±0.05						
	皮帶輪導程 Pulley Lead (mm)	130		176		224		
	皮帶型號 Belt Type	5M-25		8M-30		8M-50		
	最高速度 Maximum Speed (mm/s)	5000		5000		5000		
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	30	45	50	75	80	120
		垂直使用Vertical (kg)	20	30	40	60	60	90
最大空載扭矩 Max. No-load Driving Torque (N·m)	0.35		0.5		0.9		0.9	
最大扭矩 Max. Driving Torque (N·m)	13.3		13.3		49.8		105.7	
基本規格	標準行程 Stroke (mm)	100-4000mm/100pitch						
	AC伺服馬達容量 AC Servo Motor Output (W)	200 / 400		400 / 750		750 / 1000		
	高剛性直線滑軌 Linear Guide	15# × 1PCS		20# × 1PCS		25# × 1PCS		
	主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	80 × 79		100 × 106		130 × 130		
原點感應器 Home Sensor	EE-SX672(NPN)							

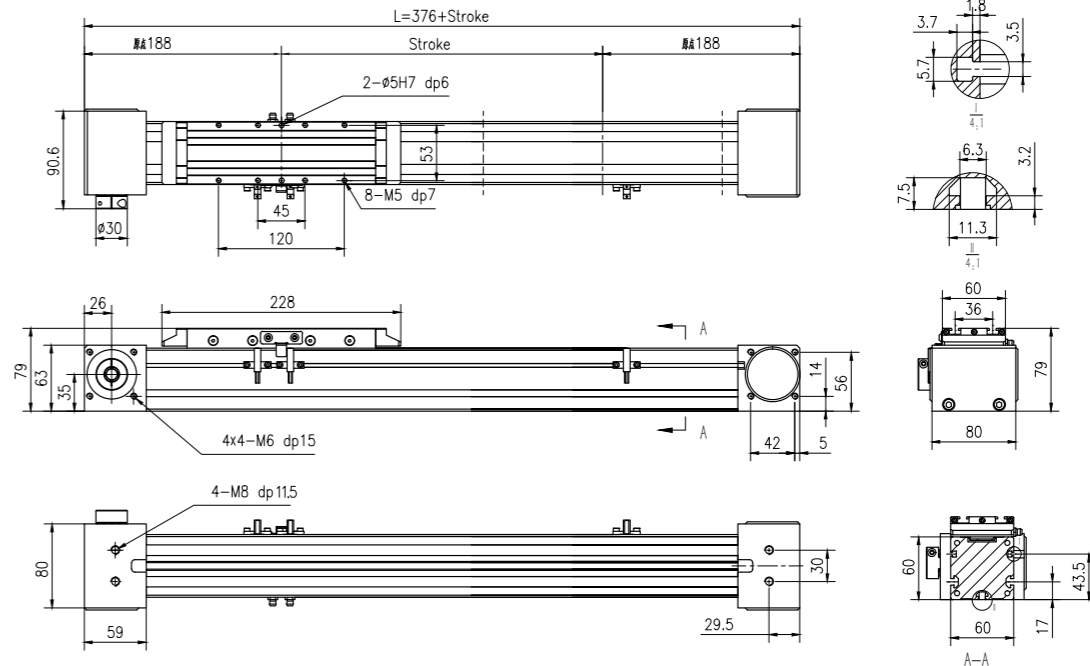
#注1: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。

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

歐標全密式同步帶驅動型 ITC 60/80/100

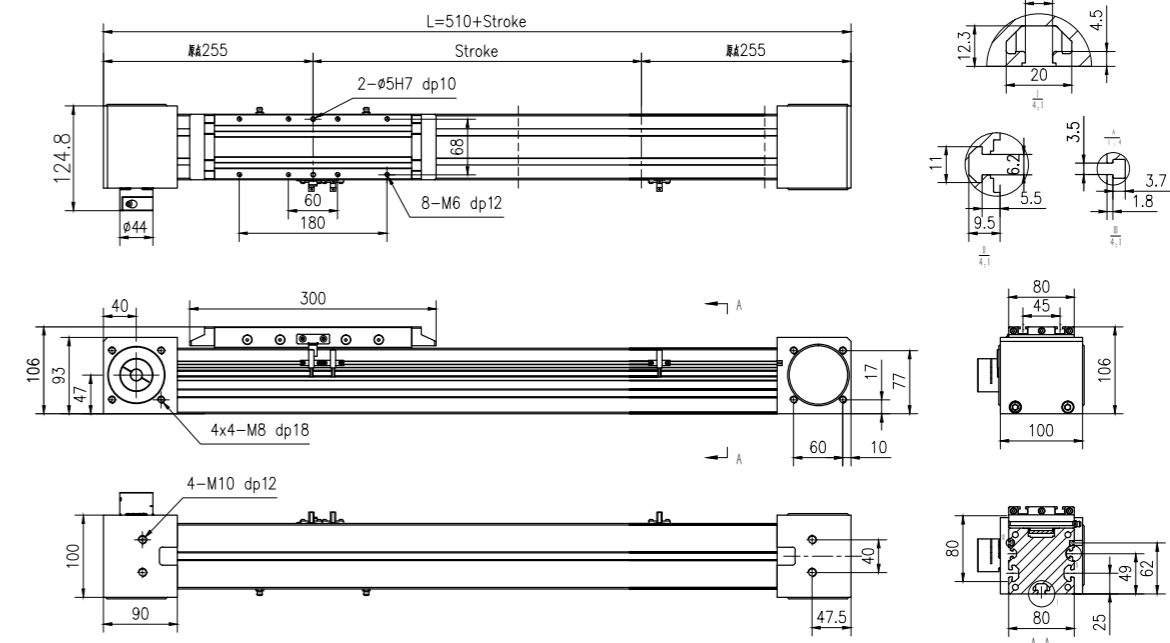
Belt Driven Linear Actuator

ITC 60



行程Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	476	576	676	776	876	976	1076	1176	1276	1376	1476	1576	1676	1776	1876	1976	2076	2176	2276	2376
重量 Weight (kg)	2.8	3.3	3.8	4.3	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	10	10.5	11	11.5	12	12.5
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	2476	2576	2676	2776	2876	2976	3076	3176	3276	3376	3476	3576	3676	3776	3876	3976	4076	4176	4276	4376
重量 Weight (kg)	13	13.5	14	14.5	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.2	20.7	21.2	21.7	22.2	22.7

ITC 80

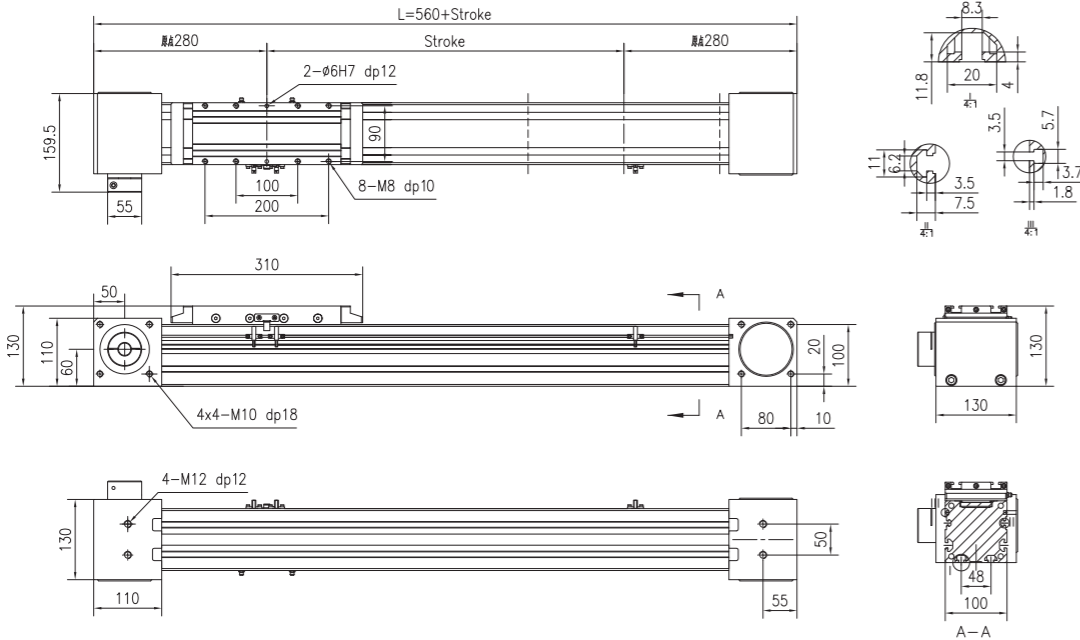


行程Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510
重量 Weight (kg)	9.4	10.2	11.1	11.9	12.8	13.7	14.5	15.4	16.2	17.1	18	18.8	19.7	20.5	21.4	22.3	23.1	24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

ITC 60/80/100 歐標全密式同步帶驅動型

Belt Driven Linear Actuator

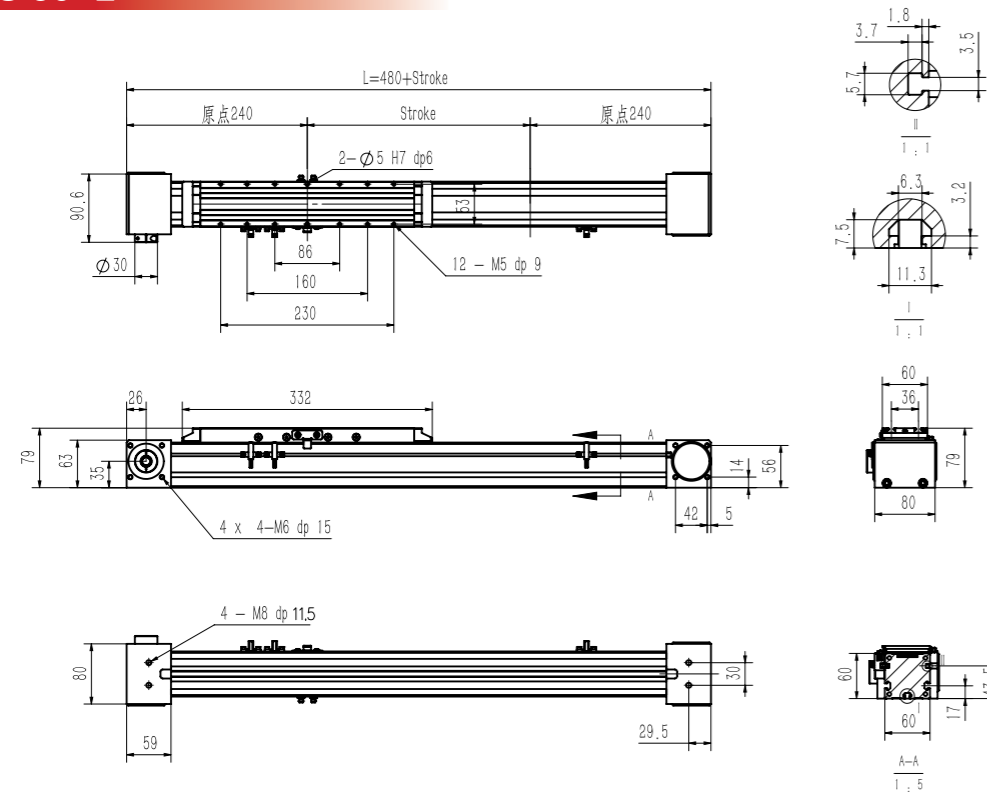
ITC 100



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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 60-L



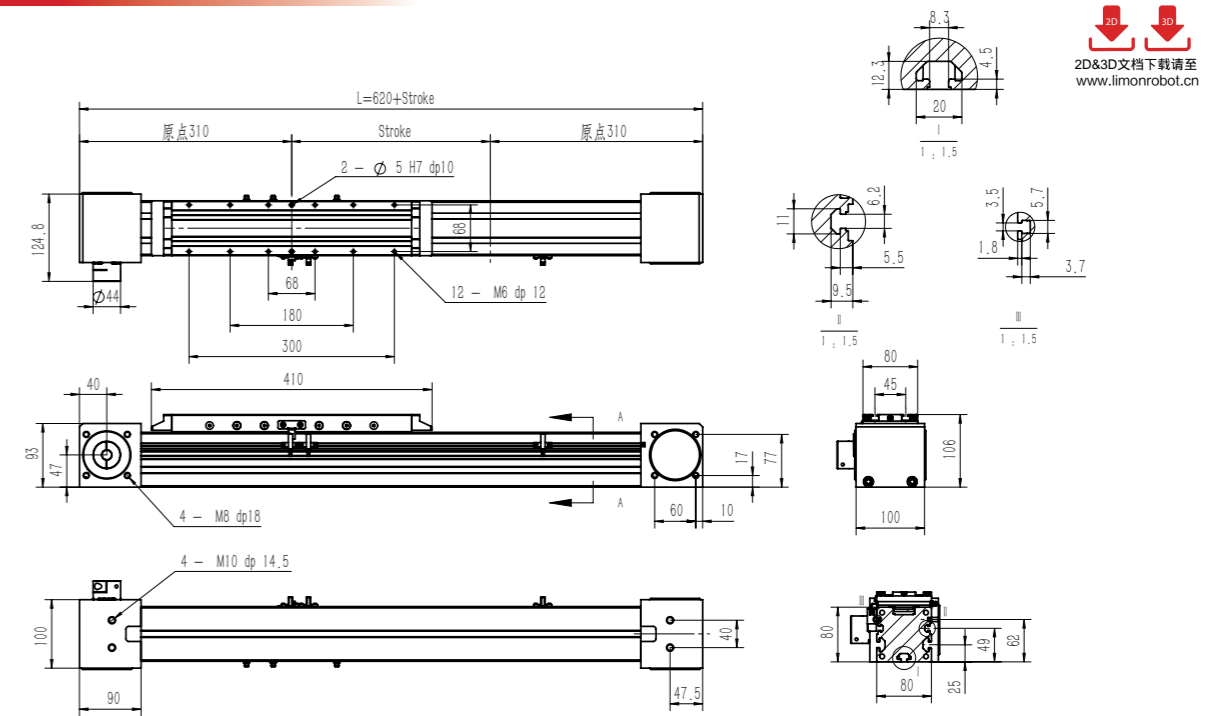
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行程Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	580	680	780	880	980	1080	1180	1280	1380	1480	1580	1680	1780	1880	1980	2080	2180	2280	2380	2480
重量 Weight (kg)	3.1	3.6	4.1	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6
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	2580	2680	2780	2880	2980	3080	3180	3280	3380	3480	3580	3680	3780	3880	3980	4080	4180	4280	4380	4480
重量 Weight (kg)	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6

歐標全密式同步帶驅動型 ITC 60/80/100

Belt Driven Linear Actuator

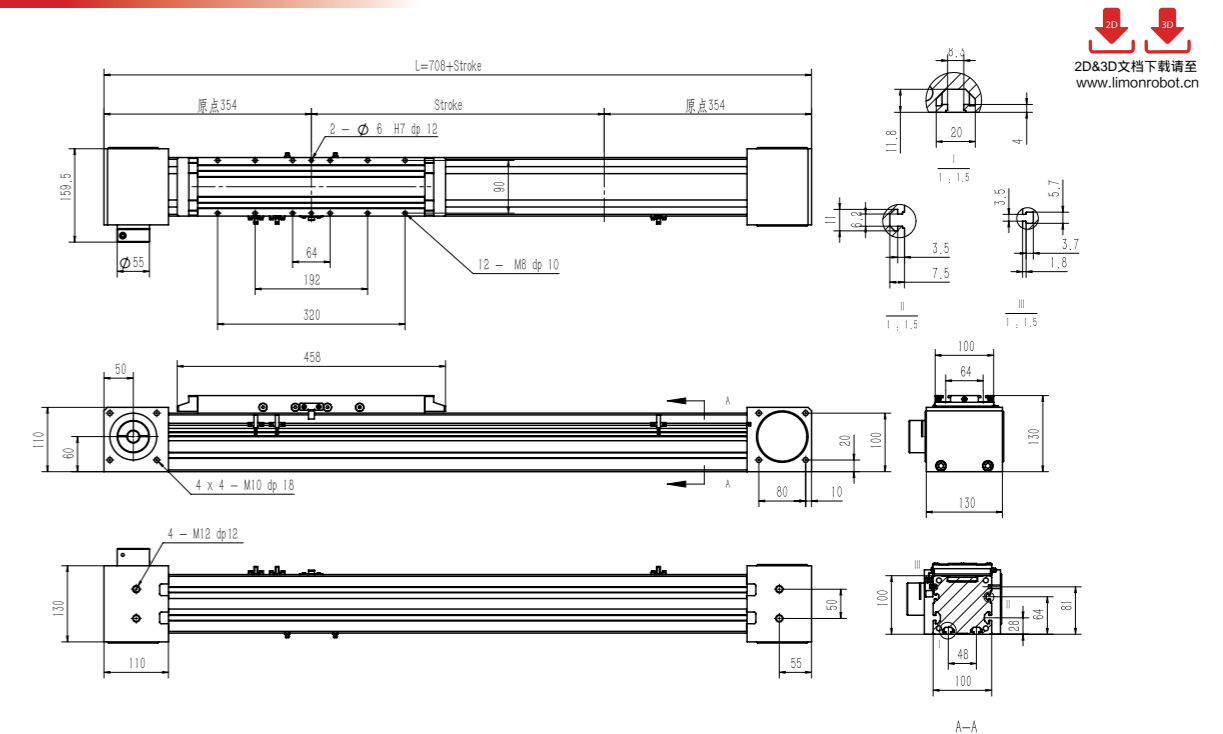
ITC 80-L



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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	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 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	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

GSC Series
KS Series
ITO Series
HTO Series
ITC Series
HTC Series
ITZ Series
YSO Series
YSC Series
YTO Series
YTC Series
Multiaxis system

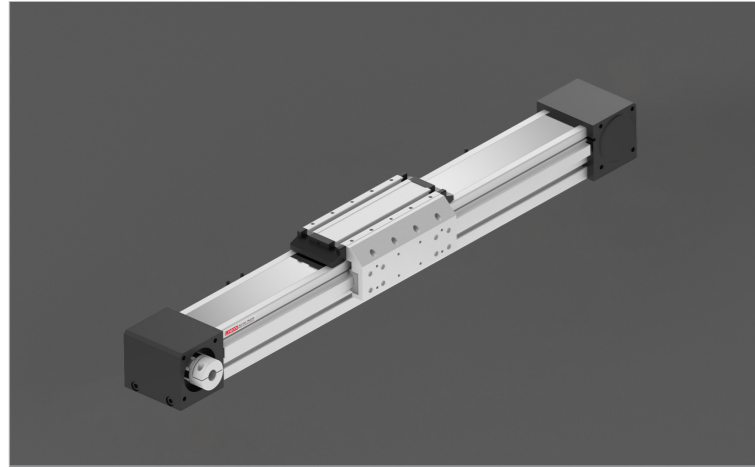
HTC 80/100 歐標全密式同步帶驅動側軌加強型

Belt Driven Linear Actuator

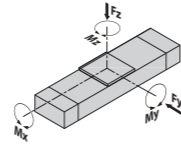
訂購型號代碼 Code

HTC80	500	L	D01	DB 注	G5	M40	P3	A001
本體型號 Item NO.	行程 Stroke	是否加長滑塊	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	減速比 Reduction Ratio	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
HTC80	100-4000,間隔Gap100	未標注:標準滑塊 L:加長滑塊	D01	未標注:標準滑塊 DB:輔助滑塊	G3 1:3 G4 1:4 G5 1:5 G7 1:7 G10 1:10 未標記:無減速比	M 三菱 Mitsubishi 10 100W P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 750W 1K 1000W	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未標記: 无 No Mark: No Sensor	
HTC100			D02 D03 D04 D05 D06					

注: 輔助滑塊選項相關參數參見樣本P144.



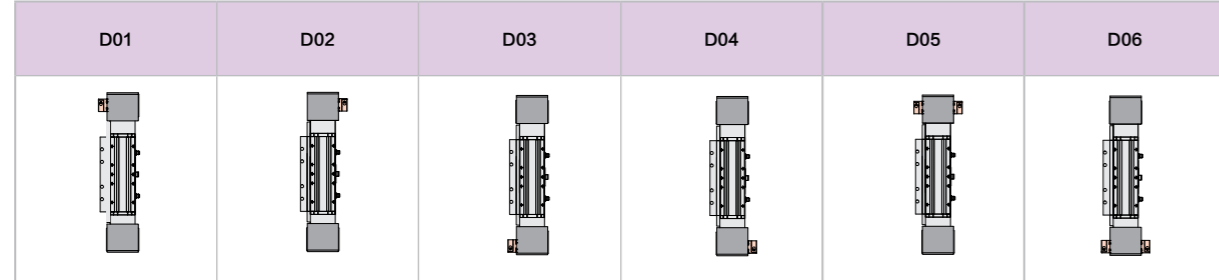
最大動態力和力矩 Max Permissible Forces And Torques



規格 Type	80	80-L	100	100-L
■ 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

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torques relate to the following:
$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

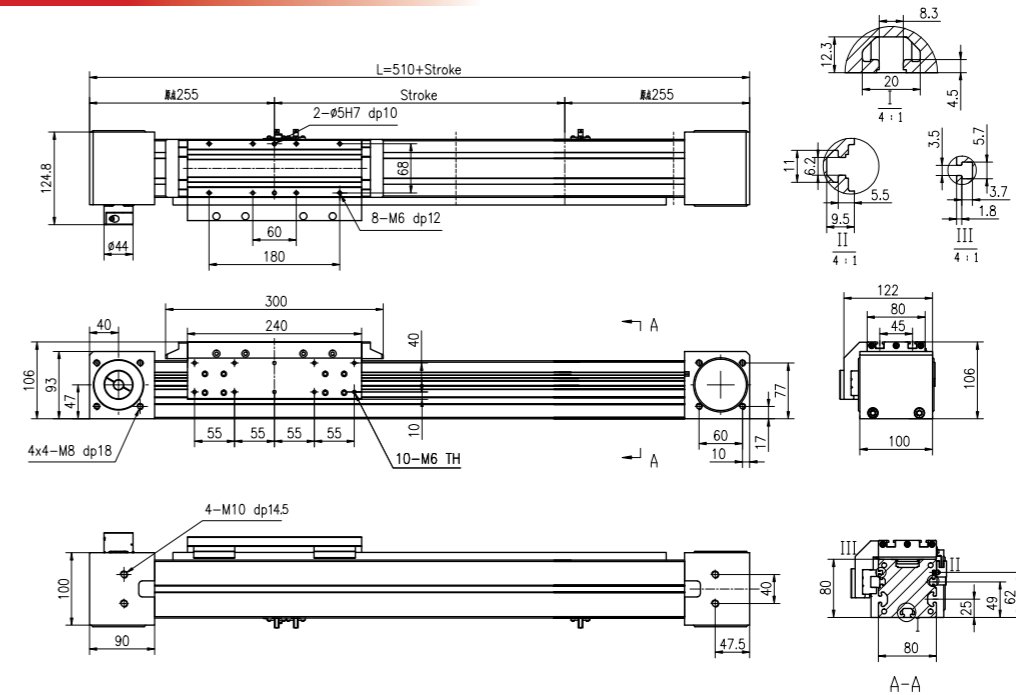
HTC		80	80-L	100	100-L	
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.05				
	皮帶輪導程 Pulley Lead (mm)	176		224		
	皮帶型號 Belt Type	8M-30		8M-50		
	最高速度 Maximum Speed (mm/s)	5000		5000		
	最大可搬重量 Maximum Payload	水平使用 Horizontal (kg)	100	150	165	247.5
		垂直使用 Vertical (kg)	62	93	105	157.5
	最大空載扭矩 Max. No-load Driving Torque (N·m)	0.9		1.4		
最大扭矩 Max. Driving Torque (N·m)	49.8		105.7			
基本規格 Basic Specification	標準行程 Stroke (mm)	100-4000mm/100 pitch				
	AC伺服馬達容量 AC Servo Motor Output (W)	400/750		750/1000		
	高剛性直線滑軌 Linear Guide	20# × 1PC+15# × 1PC		25# × 1PC+20# × 1PC		
	主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	106 × 122		130 × 151		
原點感應器 Home Sensor	EE-SX672(NPN)					

#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note1: Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.

HTC 80/100 歐標全密式同步帶驅動側軌加強型

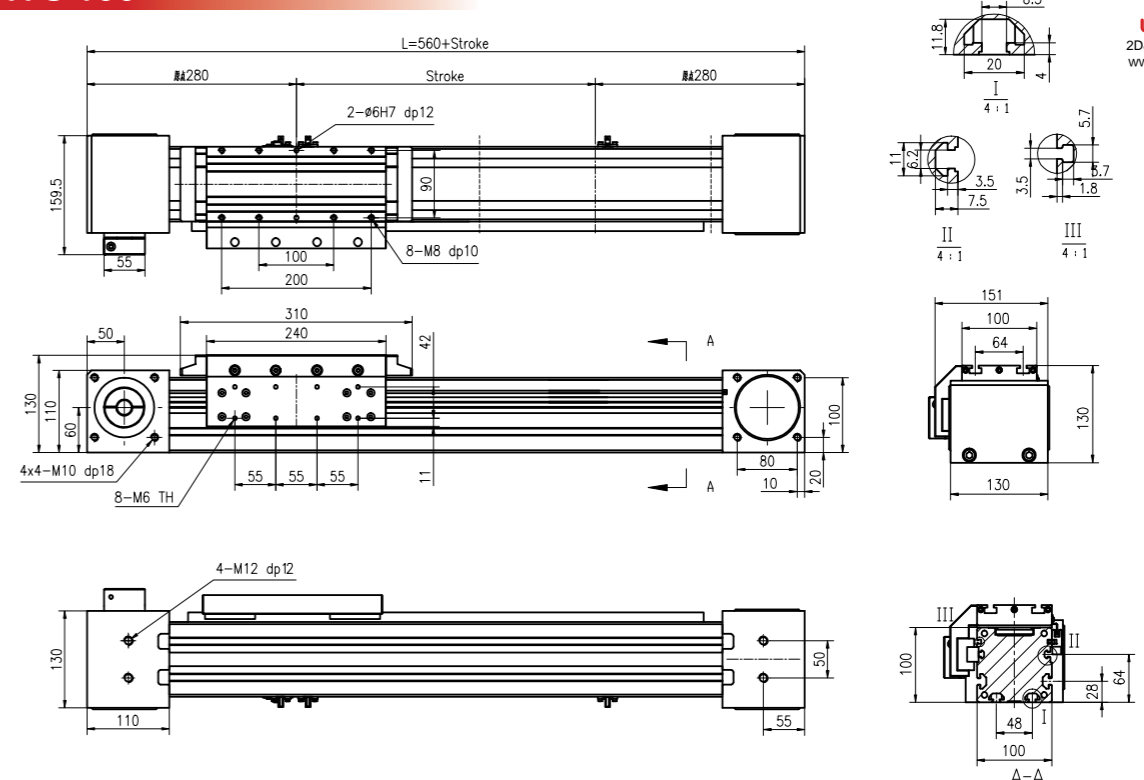
Belt Driven Linear Actuator

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)	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

HTC 100

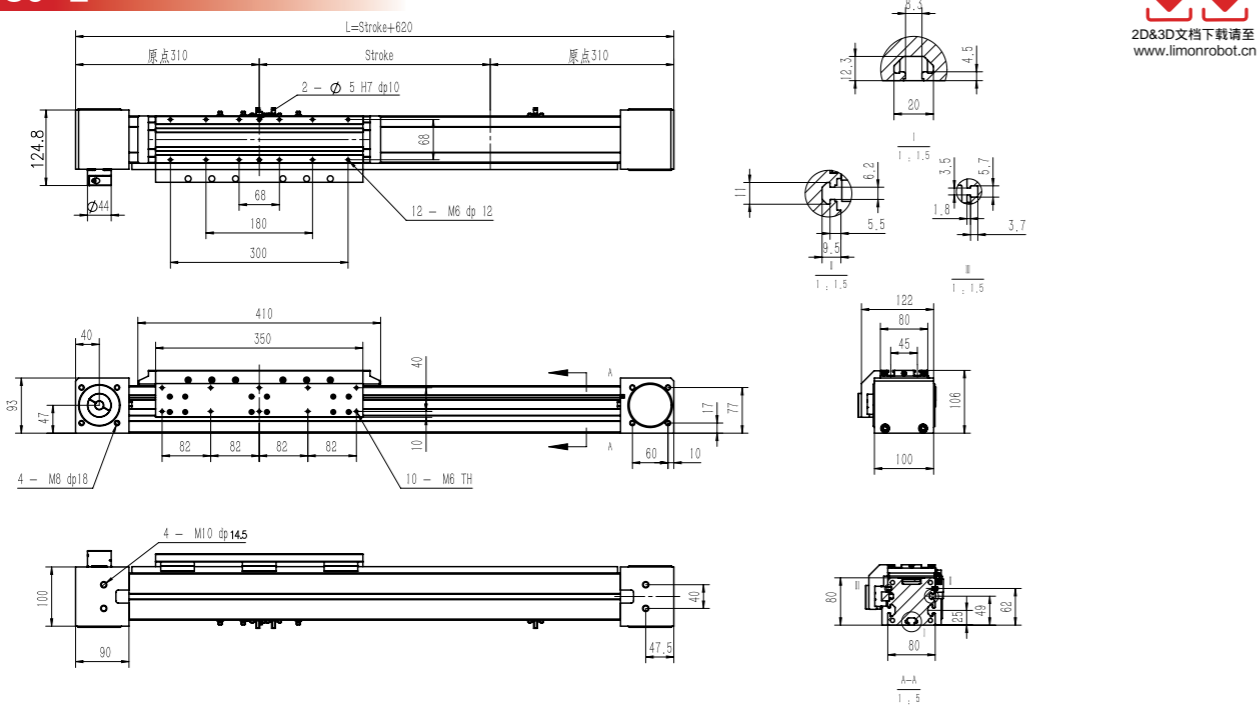


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510
重量 Weight (kg)	17.6	18.8	20	21.2	22.4	23.6	24.8	26	27.2	28.4	29.6	30.8	32	33.2	34.4	35.6	36.8	38	39.2	40.4
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	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	3810	3910	4010	4110	4210	4310	4410	4510
重量 Weight (kg)	41.2	43.4	45.6	47.8	50	52.2	54.4	56.6	58.8	61	63.2	65.4	67.6	69.8	72	74.2	76.4	78.6	80.8	83

HTC 80/100 歐標全密式同步帶驅動側軌加強型

Belt Driven Linear Actuator

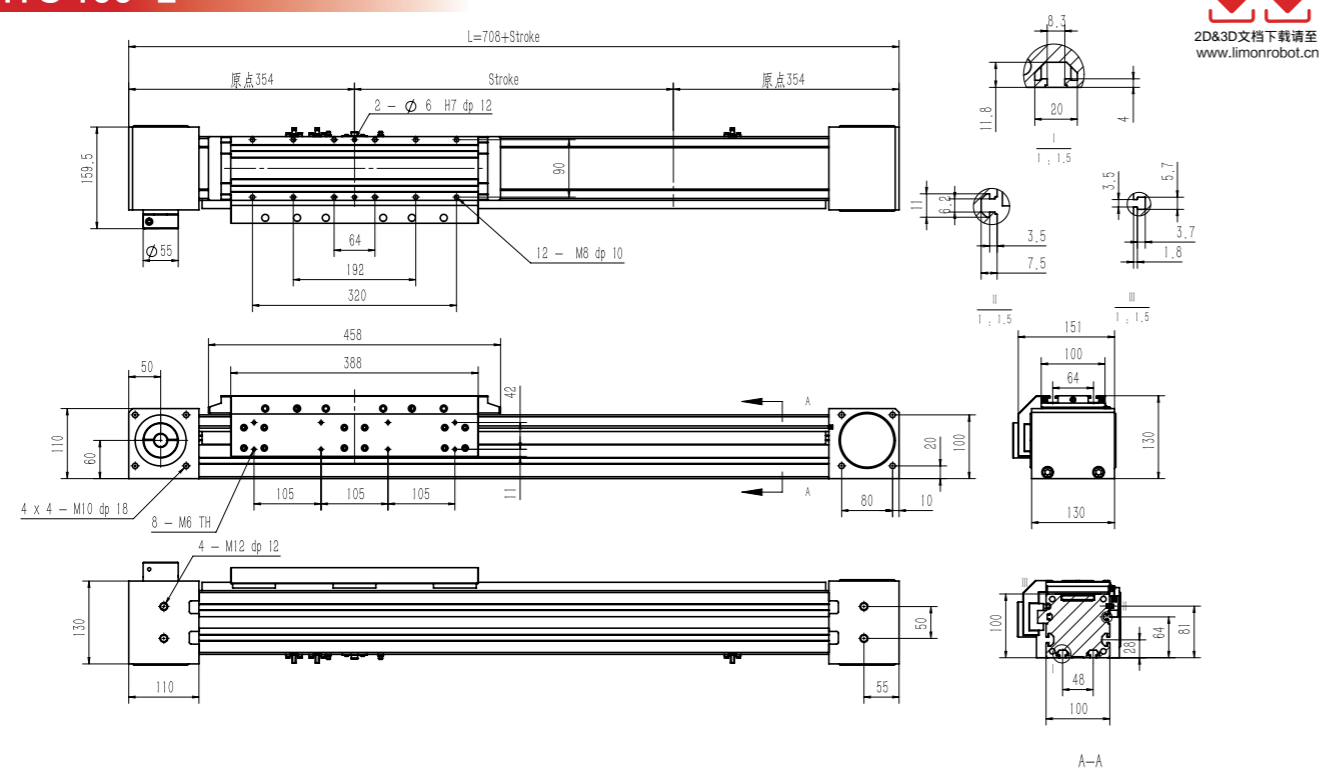
HTC 80-L



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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	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420	2520	2620
重量 Weight (kg)	11.7	12.7	13.7	14.7	15.7	16.7	17.7	18.7	19.7	20.7	21.7	22.7	23.7	24.7	25.7	26.7	27.7	28.7	29.7	30.7
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	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320	4420	4520	4620
重量 Weight (kg)	31.7	32.7	33.7	34.7	35.7	36.7	37.7	38.7	39.7	40.7	41.7	42.7	43.7	44.7	45.7	46.7	47.7	48.7	49.7	50.7

HTC 100-L



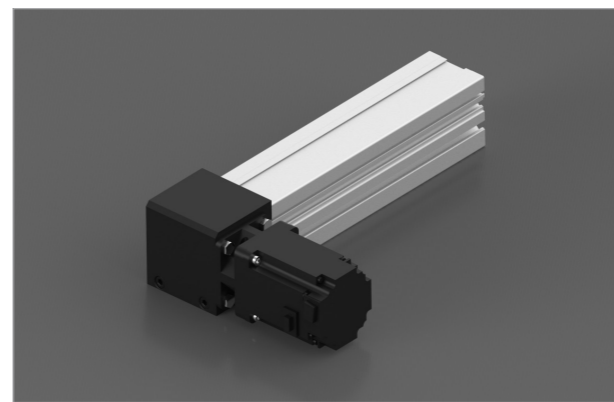
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408	2508	2608	2708
重量 Weight (kg)	18.6	19.6	20.6	21.6	22.6	23.6	24.6	25.6	26.6	27.6	28.6	29.6	30.6	31.6	32.6	33.6	34.6	35.6	36.6	37.6
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	2808	2908	3008	3108	3208	3308	3408	3508	3608	3708	3808	3908	4008	4108	4208	4308	4408	4508	4608	4708
重量 Weight (kg)	38.6	39.6	40.6	41.6	42.6	43.6	44.6	45.6	46.6	47.6	48.6	49.6	50.6	51.6	52.6	53.6	54.6	55.6	56.6	57.6

歐標全密式同步帶驅動側軌加強型 HTC 80/100

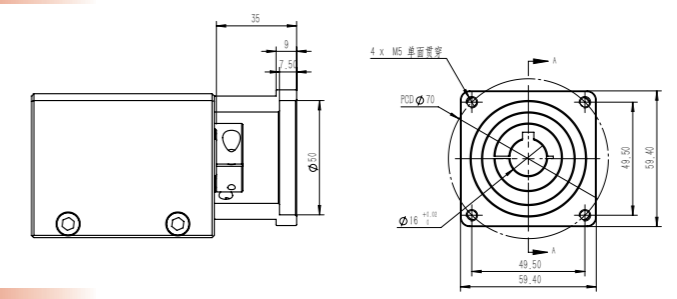
Belt Driven Linear Actuator

馬達座尺寸圖 Dimensional Drawing of Motor Base

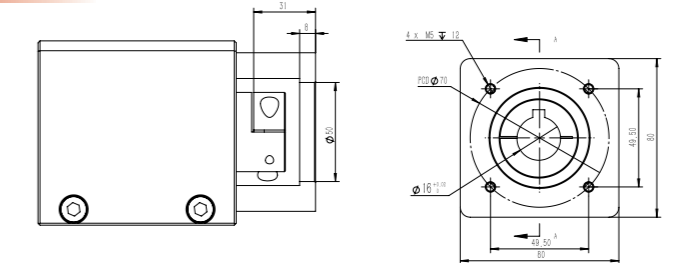


#注1: 此零件為選購件, 如需訂購請在下單時備注。
Note 1: This is optional accessory, please remark if needed.

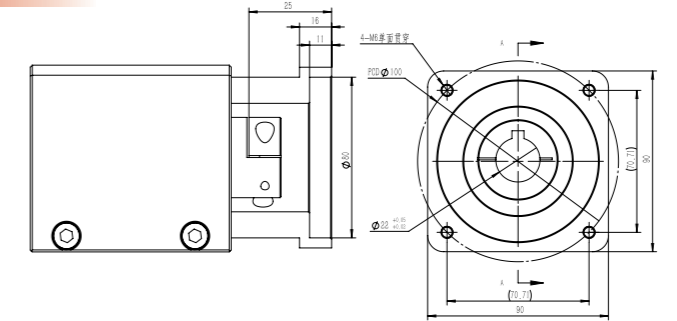
160-馬達座-PB62



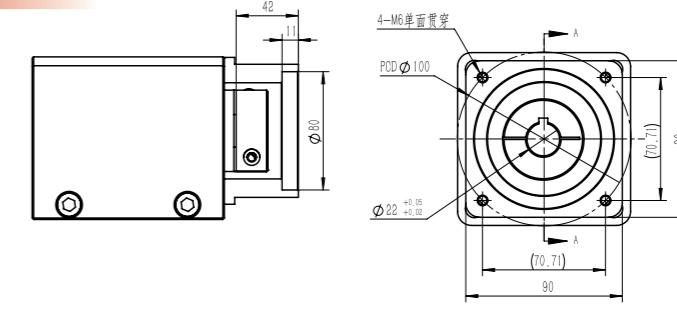
180-馬達座-PB62



180-馬達座-PB90

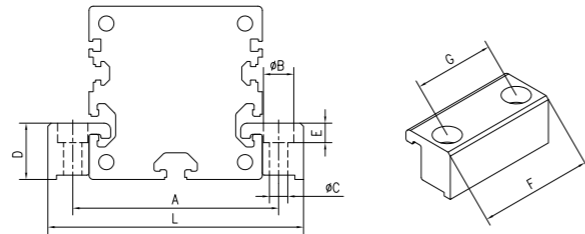


1100-馬達座-PB90



ITO / HTO / ITC / HTC 安裝附件 Accessories

安裝塊尺寸圖 Dimensional Drawing of Jointing Block



#注1: 500mm行程以內建議配4個安裝塊, 行程每增加500mm, 需多增加2個安裝塊。
 Note 1: Suggest to assemble 4 jointing block (stroke 500mm), two additional jointing block is required when stroke adds 500mm every time.
 #注2: 此零件為選購件, 如需訂購請在下單時備注。
 Note 2: This is optional accessory, please remark if needed.

規格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

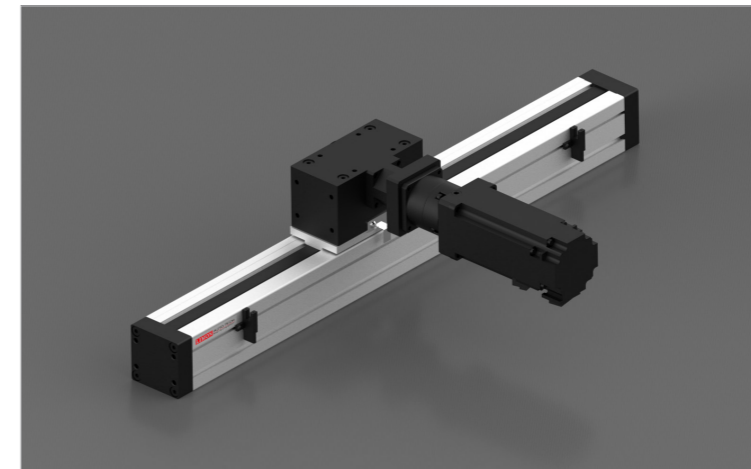
歐標Z軸提升專用型 ITZ 60

Belt Driven Linear Actuator

訂購型號代碼 Code

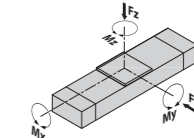
ITZ60	500	D01	DB <small>注</small>	G5	M40	P3	A001
本體型號 Item NO.	行程 Stroke	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	減速比 Reduction ratio	馬達廠牌、功率 Motor Brand、Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
IT060	100-1500, 間隔Gap100	D01 D02	未填寫: 單滑塊 DB - 輔助滑塊	G3 1:3 G4 1:4 G5 1:5 G7 1:7 G10 1:10 未標記: 無減速比	M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K -	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未標記: 无 NoMark: NoSensor	

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩

Max Permissible Forces And Torques

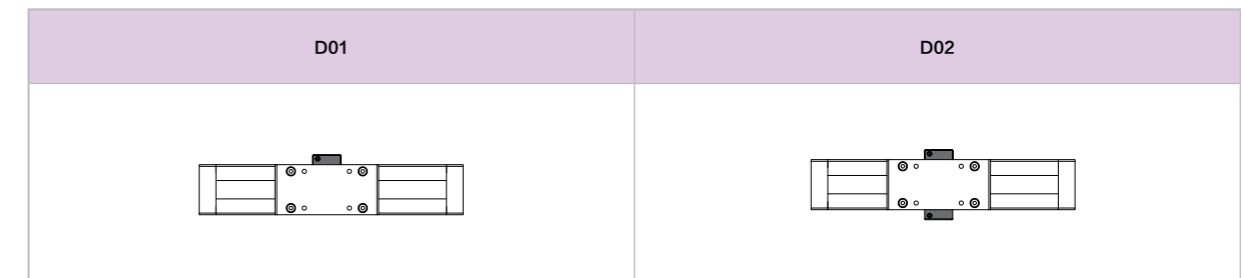


規格 Type	60
■ F(y) (N)	999
■ F(z) (N)	2684
■ M(x) (N·m)	20
■ M(y) (N·m)	61
■ M(z) (N·m)	61

除了滿足最大負載和力矩外, 還必須滿足以下公式:
 All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

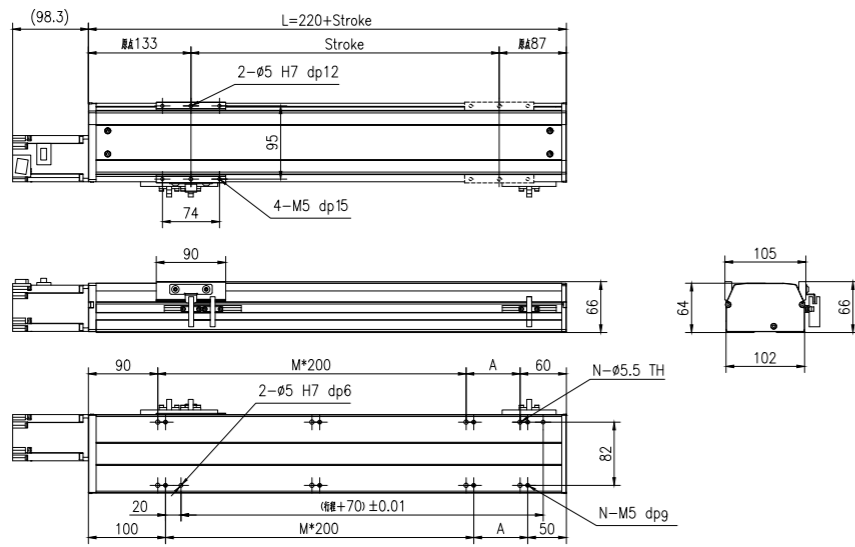
ITZ		60
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.05
	皮帶輪導程 Pulley Lead (mm)	130
	皮帶型號 Belt Type	5M-25
	最高速度 Maximum Speed (mm/s)	1500
	最大可搬重量 <small>注1</small> Maximum Payload <small>注1</small> 垂直使用 Vertical (kg)	10
	最大空載扭矩 Max. No-load Driving Torque (N·m)	0.35
	最大扭矩 Max. Driving Torque (N·m)	13.3
基本規格 Basic Specification	標準行程 Stroke (mm)	1-1500
	AC伺服馬達容量 AC Servo Motor Output (W)	400
	高剛性直線滑軌 Linear Guide	15# × 1PCS
	主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	80 × 150.5
原點感應器 Home Sensor	EE-SX672(NPN)	

#注1: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。
 #Note1: Date changes relevently according to different torque and accelerated speed. Please refer to the LIMON calculate software.

YSO 100 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSO100-1P-MS 马达直接安装 Straight Motor Mounting

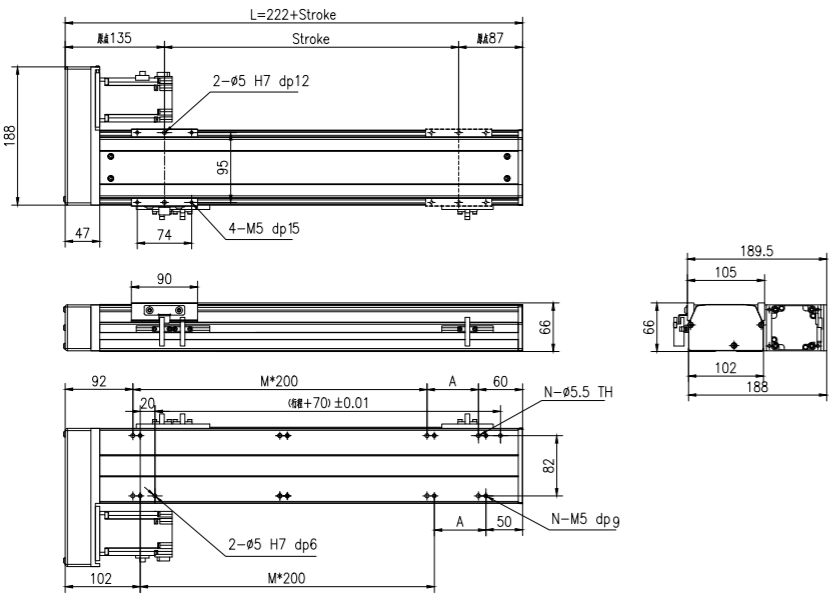


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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050		
L	320	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270		
A	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120		
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5		
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14		
重量 Weight (kg)	3.2	3.6	4.0	4.4	4.7	5.1	5.5	5.8	6.2	6.6	6.9	7.3	7.7	8.1	8.4	8.8	9.2	9.5	9.9	10.3		
最高速度 Max speed (mm/sec)																	1000	800	650	500	450	
																	1000	800	640	520	400	360
																	500	400	325	250	225	
																	250	200	162.5	125	112.5	

注：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note:When the stroke is more than 700mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSO100-1P-ML 马达左折安装 Left Motor Mounting



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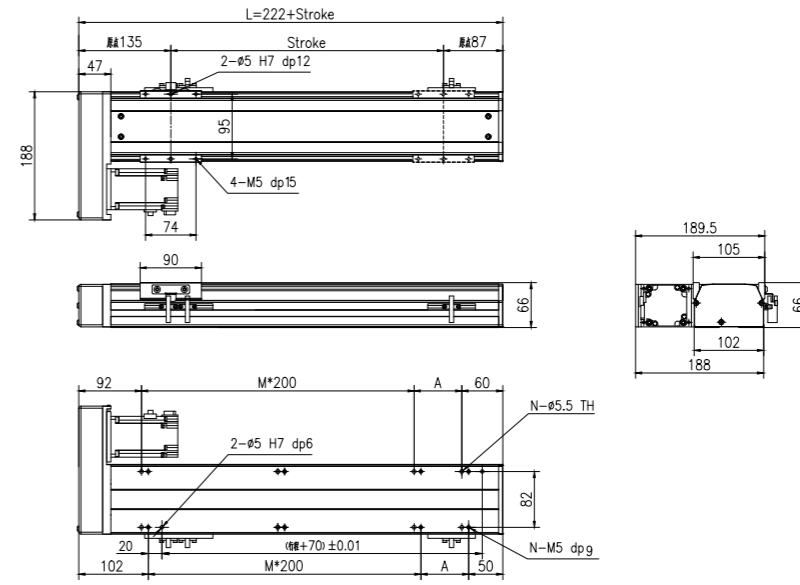
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050		
L	322	372	422	472	522	572	622	672	722	772	822	872	922	972	1022	1072	1122	1172	1222	1272		
A	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120		
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5		
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14		
重量 Weight (kg)	3.7	4.1	4.5	4.9	5.2	5.6	6.0	6.3	6.7	7.1	7.4	7.8	8.2	8.6	8.9	9.3	9.7	10.0	10.4	10.8		
最高速度 Max speed (mm/sec)																	1000	800	650	500	450	
																	1000	800	640	520	400	360
																	500	400	325	250	225	
																	250	200	162.5	125	112.5	

注：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note:When the stroke is more than 700mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSO 100 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSO100-1P-MR 马达右折安装 Right Motor Mounting

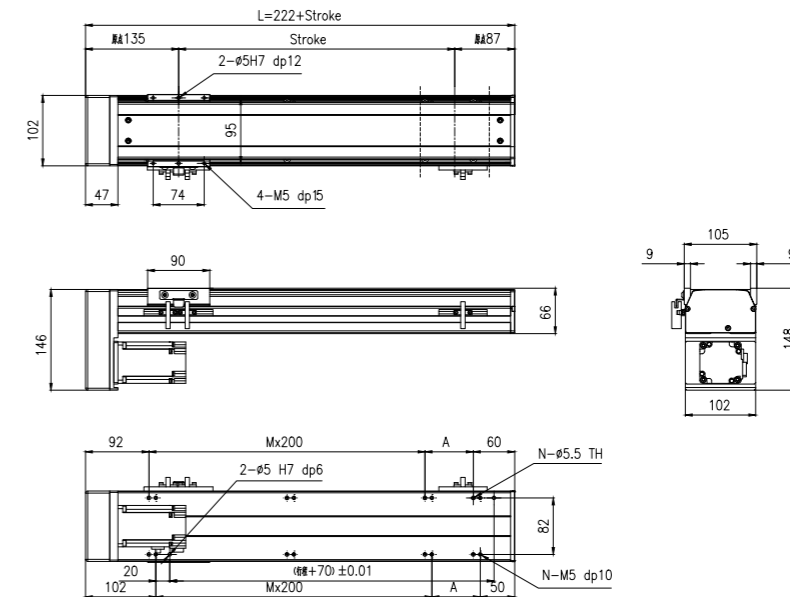


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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050		
L	322	372	422	472	522	572	622	672	722	772	822	872	922	972	1022	1072	1122	1172	1222	1272		
A	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120		
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5		
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14		
重量 Weight (kg)	3.7	4.1	4.5	4.9	5.2	5.6	6.0	6.3	6.7	7.1	7.4	7.8	8.2	8.6	8.9	9.3	9.7	10.0	10.4	10.8		
最高速度 Max speed (mm/sec)																	1000	800	650	500	450	
																	1000	800	640	520	400	360
																	500	400	325	250	225	
																	250	200	162.5	125	112.5	

注：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note:When the stroke is more than 700mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSO100-1P-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		
L	322	372	422	472	522	572	622	672	722	772	822	872	922	972	1022	1072	1122	1172	1222	1272		
A	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120		
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5		
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14		
重量 Weight (kg)	3.7	4.1	4.5	4.9	5.2	5.6	6.0	6.3	6.7	7.1	7.4	7.8	8.2	8.6	8.9	9.3	9.7	10.0	10.4	10.8		
最高速度 Max speed (mm/sec)																	1000	800	650	500	450	
																	1000	800	640	520	400	360
																	500	400	325	250	225	
																	250	200	162.5	125	112.5	

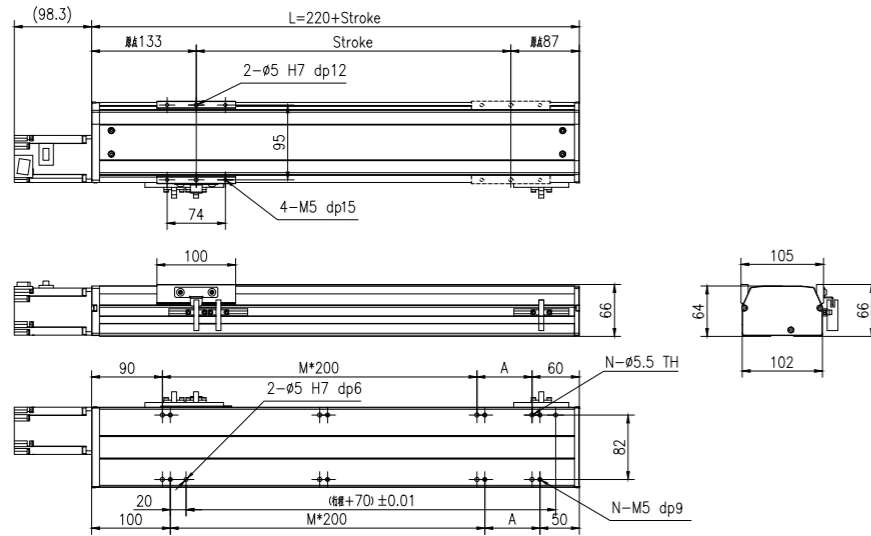
注：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note:When the stroke is more than 700mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSO 100 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSO100-2P-MS

马达直接安装 Straight Motor Mounting

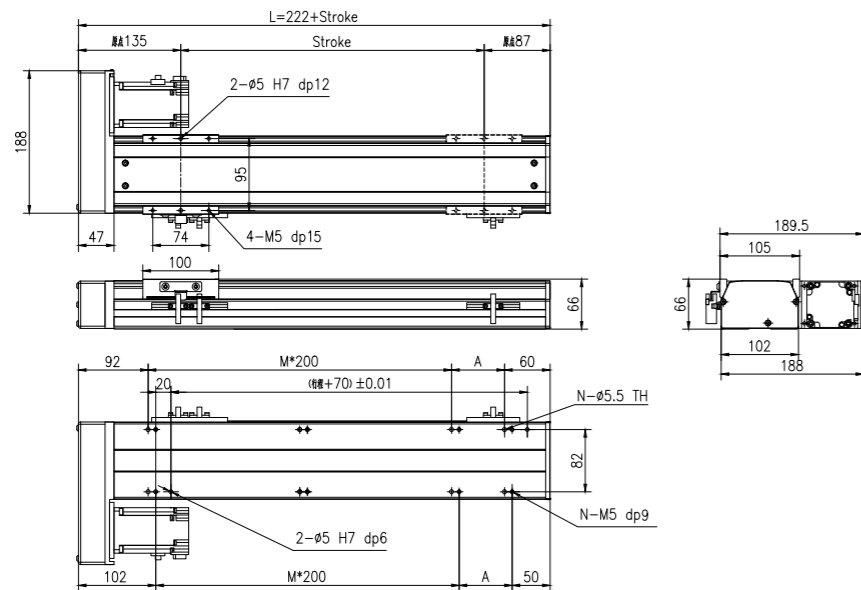


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050			
L	320	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270			
A	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120			
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5			
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14			
重量 Weight (kg)	3.2	3.6	4.0	4.4	4.7	5.1	5.5	5.8	6.2	6.6	6.9	7.3	7.7	8.1	8.4	8.8	9.2	9.5	9.9	10.3			
最高速度 Max speed (mm/sec)	导程 Pitch 20 导程 Pitch 16 导程 Pitch 10 导程 Pitch 05										1000	800	500	450	400	360	325	250	225	200	162.5	125	112.5

注：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note:When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO100-2P-ML

马达左折安装 Left Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050			
L	322	372	422	472	522	572	622	672	722	772	822	872	922	972	1022	1072	1122	1172	1222	1272			
A	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120			
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5			
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14			
重量 Weight (kg)	3.7	4.1	4.5	4.9	5.2	5.6	6.0	6.3	6.7	7.1	7.4	7.8	8.2	8.6	8.9	9.3	9.7	10.0	10.4	10.8			
最高速度 Max speed (mm/sec)	导程 Pitch 20 导程 Pitch 16 导程 Pitch 10 导程 Pitch 05										1000	800	500	450	400	360	325	250	225	200	162.5	125	112.5

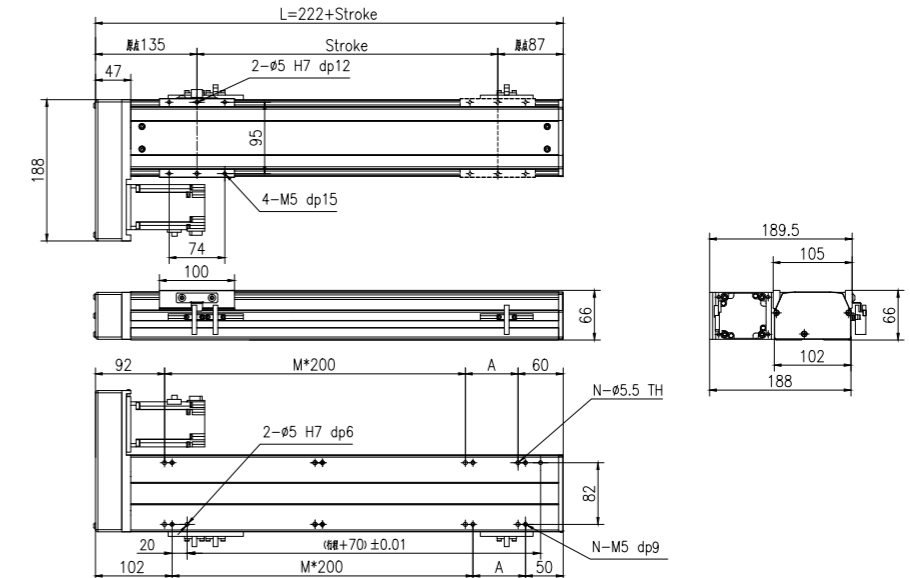
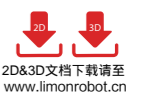
注：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note:When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO 100 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSO100-2P-MR

马达右折安装 Right Motor Mounting

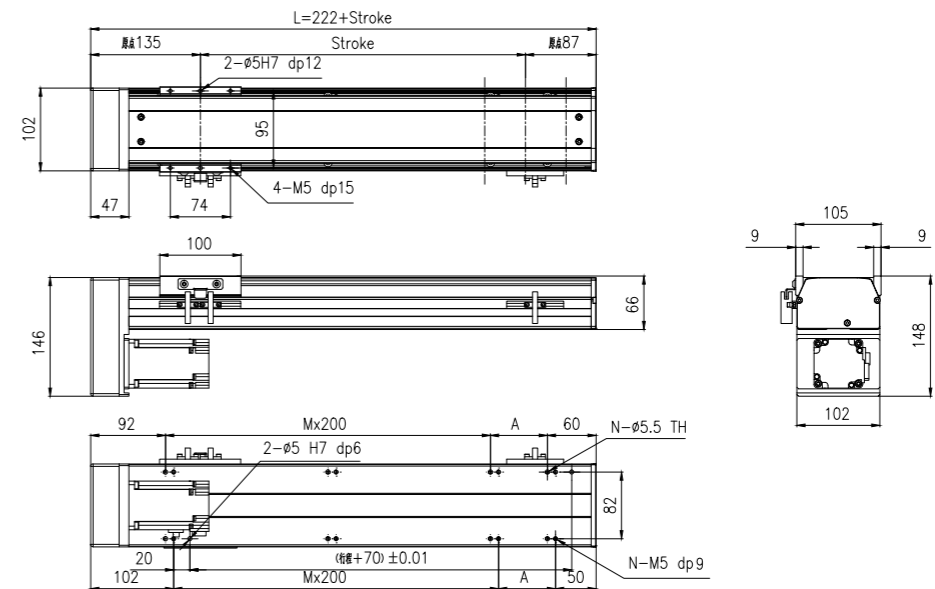
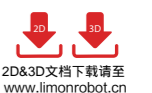


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050			
L	322	372	422	472	522	572	622	672	722	772	822	872	922	972	1022	1072	1122	1172	1222	1272			
A	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120			
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5			
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14			
重量 Weight (kg)	3.7	4.1	4.5	4.9	5.2	5.6	6.0	6.3	6.7	7.1	7.4	7.8	8.2	8.6	8.9	9.3	9.7	10.0	10.4	10.8			
最高速度 Max speed (mm/sec)	导程 Pitch 20 导程 Pitch 16 导程 Pitch 10 导程 Pitch 05										1000	800	500	450	400	360	325	250	225	200	162.5	125	112.5

注：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note:When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO100-2P-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			
L	322	372	422	472	522	572	622	672	722	772	822	872	922	972	1022	1072	1122	1172	1222	1272			
A	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120			
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5			
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14			
重量 Weight (kg)	3.7	4.1	4.5	4.9	5.2	5.6	6.0	6.3	6.7	7.1	7.4	7.8	8.2	8.6	8.9	9.3	9.7	10.0	10.4	10.8			
最高速度 Max speed (mm/sec)	导程 Pitch 20 导程 Pitch 16 导程 Pitch 10 导程 Pitch 05										1000	800	500	450	400	360	325	250	225	200	162.5	125	112.5

注：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note:When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO 110 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

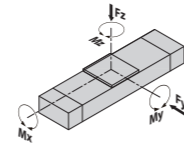
YSO110	L10	500	4P	MS	DB <small>注</small>	M40	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
	05 10 16 20	100-1050, 間隔Gap50	4P	MS: 馬達直接安裝 Straight Motor Mounting ML: 馬達左折安裝 Left Motor Mounting MR: 馬達右折安裝 Right Motor Mounting MD: 馬達下折安裝 Down Motor Mounting	DB: 輔助滑塊	M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K -	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未标记: 无 NoMark: NoSensor	

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩

Max Permissible Forces And Torques

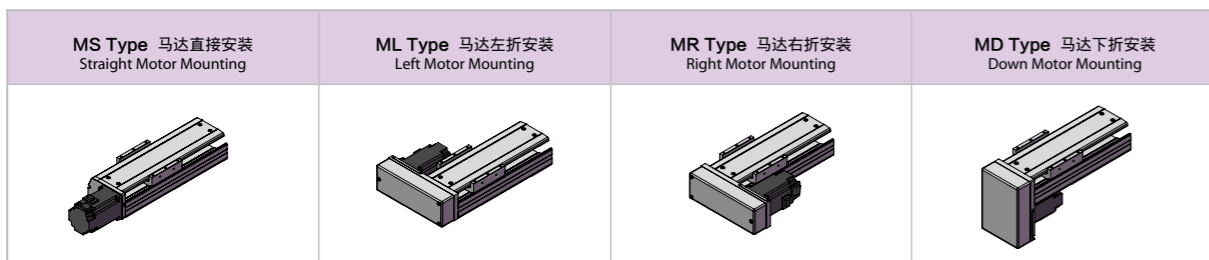


Type	4P
■F(y) (N)	3427
■F(z) (N)	3427
■M(x) (N·m)	98
■M(y) (N·m)	40
■M(z) (N·m)	176

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

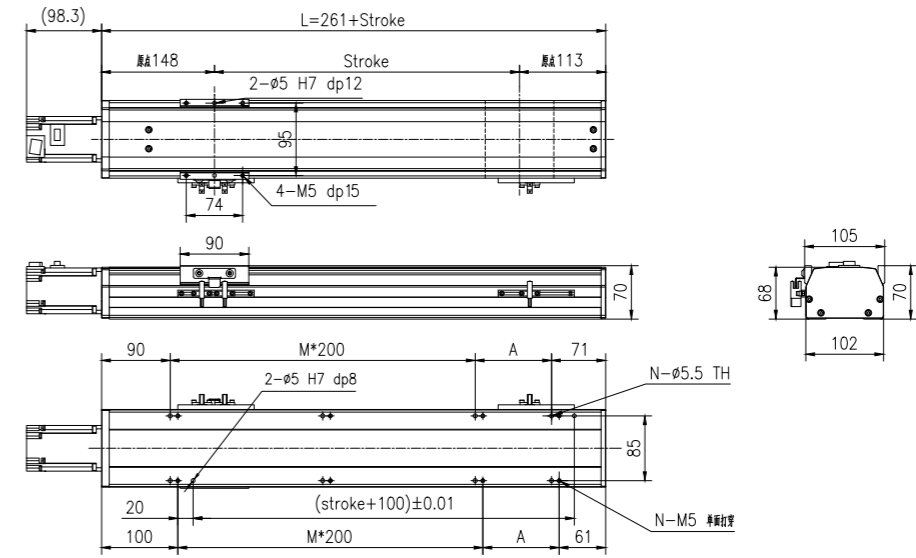
YSO110		4P(導軌滑塊數量) Block Quantity				
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.005				
	螺桿導程 Ball Screw Lead (mm)	5	10	16	20	
	最高速度 Maximum Speed (mm/s)	250	500	800	1000	
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	50	30	22	18
		垂直使用Vertical (kg)	18	16	14	6
	定格推力 Rated Thrust (N)	341	170	106	85	
	最大空載扭矩 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		
基本規格 Basic Specification	標準行程 Stroke (mm)	100-1050 mm/ 50 Pitch				
	AC伺服馬達容量 AC Servo Motor Output (W)	200/400				
	滾珠螺桿外徑 Ball Screw Diameter (mm)	ø16				
	高剛性直線滑軌 Linear Guide (mm)	12# × 2 PCS				
	主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	105 × 70				
原點感應器 Home Sensor	EE-SX672(NPN)					

#注1: 行程超過700mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note 2: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

YSO 110 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

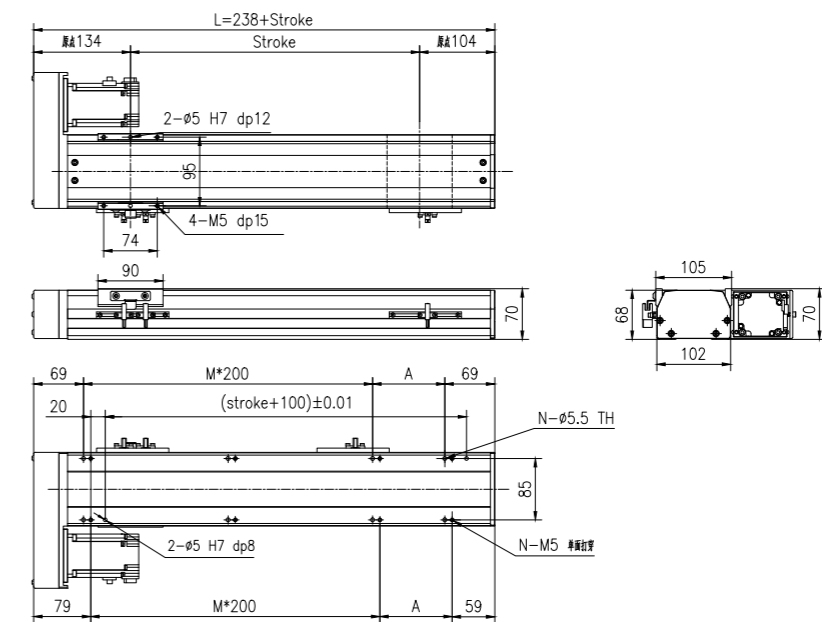
YSO110-4P-MS 馬達直接安裝 Straight Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	361	411	461	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
重量 Weight (kg)	4	4.4	4.8	5.2	5.6	6	6.4	6.8	7.2	7.6	8	8.4	8.8	9.1	9.5	9.9	10.3	10.7	11.1	11.5
最高速度 Max speed (mm/sec)	導程 Pitch 20											800	650		500		450			
	導程 Pitch 16											800	640		520		400			
	導程 Pitch 10											500	400		325		250			
	導程 Pitch 05											250	200		162.5		125			

注: 行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note: When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO110-4P-ML 馬達左折安裝 Left Motor Mounting



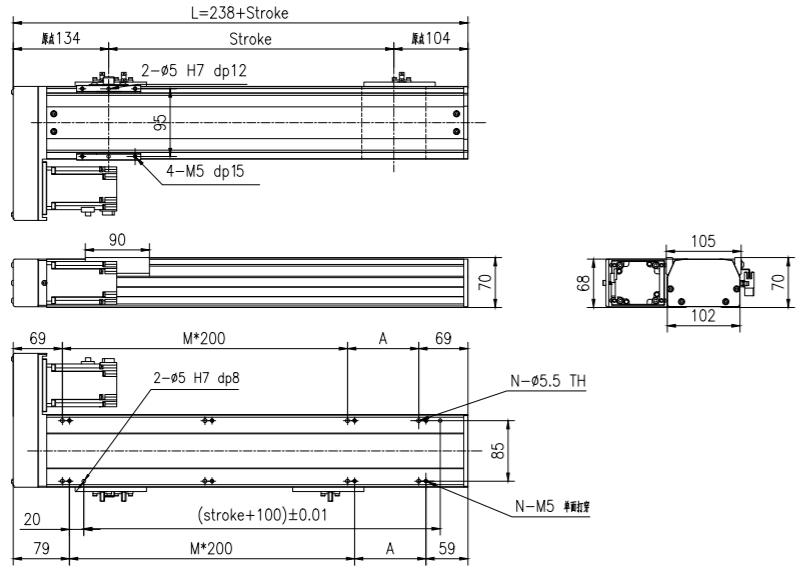
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	338	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
重量 Weight (kg)	4.3	4.7	5.1	5.5	5.9	6.3	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8
最高速度 Max speed (mm/sec)	導程 Pitch 20											1000	800		650		500			
	導程 Pitch 16											800	640		520		400			
	導程 Pitch 10											500	400		325		250			
	導程 Pitch 05											250	200		162.5		125			

注: 行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note: When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO 110 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

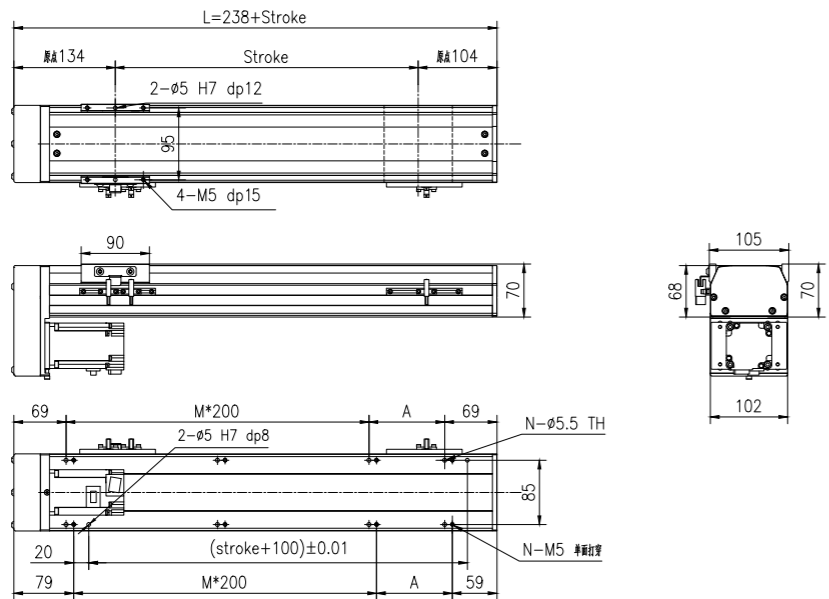
YSO110-4P-MR 马达右折安裝 Right Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050																							
L	338	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288																							
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150																							
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5																							
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14																							
重量 Weight (kg)	4.3	4.7	5.1	5.5	5.9	6.3	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8																							
最高速度 Max speed (mm/sec)	<table border="1"> <thead> <tr> <th>導程 Pitch</th> <th>20</th> <th>16</th> <th>10</th> <th>05</th> </tr> </thead> <tbody> <tr> <td>1000</td> <td>800</td> <td>650</td> <td>500</td> <td>450</td> </tr> <tr> <td>800</td> <td>640</td> <td>520</td> <td>400</td> <td>360</td> </tr> <tr> <td>500</td> <td>400</td> <td>325</td> <td>250</td> <td>225</td> </tr> <tr> <td>250</td> <td>200</td> <td>162.5</td> <td>125</td> <td>112.5</td> </tr> </tbody> </table>																		導程 Pitch	20	16	10	05	1000	800	650	500	450	800	640	520	400	360	500	400	325	250	225	250	200	162.5	125	112.5
導程 Pitch	20	16	10	05																																							
1000	800	650	500	450																																							
800	640	520	400	360																																							
500	400	325	250	225																																							
250	200	162.5	125	112.5																																							

注：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note: When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO110-4P-MD 马达下折安裝 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																							
L	338	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288																							
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150																							
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5																							
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14																							
重量 Weight (kg)	4.3	4.7	5.1	5.5	5.9	6.3	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8																							
最高速度 Max speed (mm/sec)	<table border="1"> <thead> <tr> <th>導程 Pitch</th> <th>20</th> <th>16</th> <th>10</th> <th>05</th> </tr> </thead> <tbody> <tr> <td>1000</td> <td>800</td> <td>650</td> <td>500</td> <td>450</td> </tr> <tr> <td>800</td> <td>640</td> <td>520</td> <td>400</td> <td>360</td> </tr> <tr> <td>500</td> <td>400</td> <td>325</td> <td>250</td> <td>225</td> </tr> <tr> <td>250</td> <td>200</td> <td>162.5</td> <td>125</td> <td>112.5</td> </tr> </tbody> </table>																		導程 Pitch	20	16	10	05	1000	800	650	500	450	800	640	520	400	360	500	400	325	250	225	250	200	162.5	125	112.5
導程 Pitch	20	16	10	05																																							
1000	800	650	500	450																																							
800	640	520	400	360																																							
500	400	325	250	225																																							
250	200	162.5	125	112.5																																							

注：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note: When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

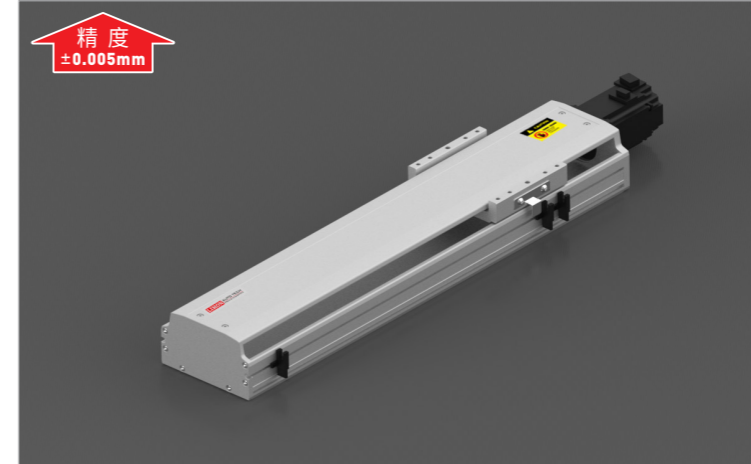
亞標半密式螺桿驅動型 YSO 135

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

YSO135	L10	500	2P	MS	DB	M40	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
	05, 10, 16, 20	100-1250, 間隔Gap50	2P, 4P	MS: 马达直接安裝 Straight Motor Mounting ML: 马达左折安裝 Left Motor Mounting MR: 马达右折安裝 Right Motor Mounting MD: 马达下折安裝 Down Motor Mounting	未填寫: 單滑塊 DB: 輔助滑塊	M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K -	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未标记: 无 NoMark: NoSensor	

注：輔助滑塊選項相關參數參見樣本P144.

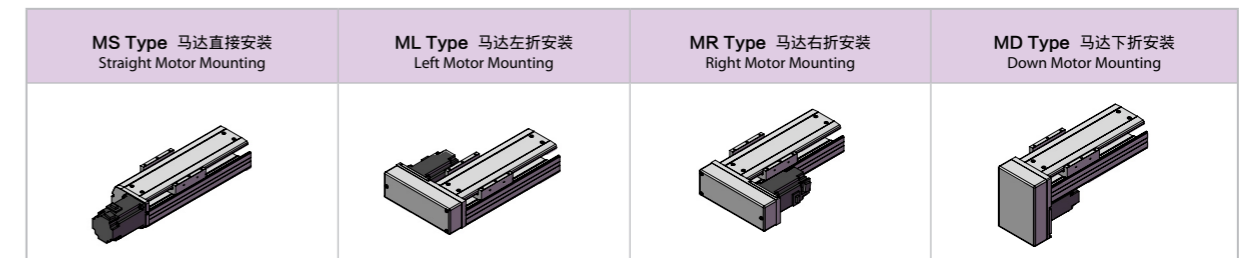


最大動態力和力矩 Max Permissible Forces And Torques

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

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torques relate to the following:
$$\frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

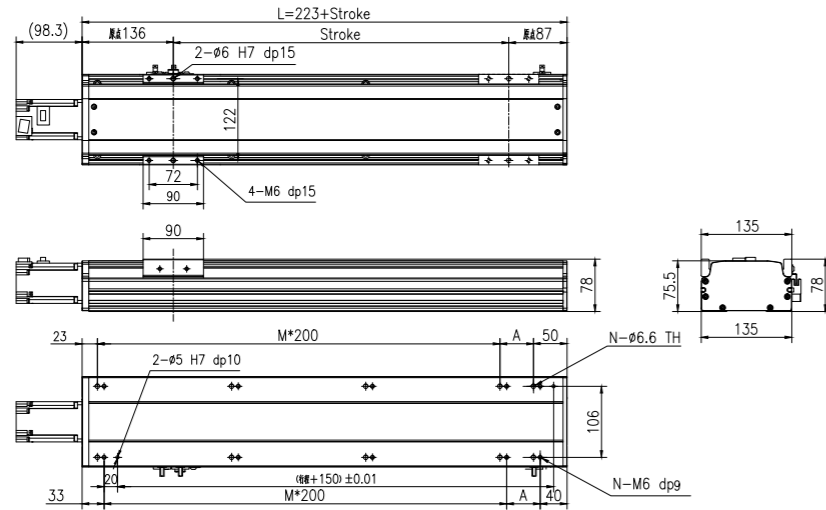
技術參數 Technical Parameters	YSO135				2P(導軌滑塊數量) Block Quantity				4P(導軌滑塊數量) Block quantity											
	位置重複精度 Repetitive Accuracy (mm)								±0.005											
螺桿導程 Ball Screw Lead (mm)	5								10				16				20			
最高速度 Maximum Speed (mm/s)	250								500				800				1000			
最大可搬重量 Maximum Payload	*注2*Note2 水平使用Horizontal (kg)				60				45				40				30			
	垂直使用Vertical (kg)				20				15				12				8			
定額推力 Rated Thrust (N)	683				341				213				174				683			
最大空載扭矩 Max. No-load Driving Torque (N·m)	0.12				0.15				0.2				0.22				0.12			
最大扭矩 Max. Driving Torque (N·m)	10.9				12.5				14				16.7				10.9			
標準行程 Stroke (mm)	100-1250 mm/ 50 Pitch																			
AC伺服馬達容量 AC Servo Motor Output (W)	200/400																			
滾珠螺桿外徑 Ball Screw Diameter (mm)	ø16 / ø20																			
高剛性直線滑軌 Linear Guide (mm)	15# × 2 PCS																			
主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	135 × 78																			
原點感應器 Home Sensor	EE-SX672(NPN)																			

#注1：行程超過900mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。
#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：測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note 2 : Date changes relevently according to different torque and accelarated speed. Please refer to the LIMON calculate software.

YSO 135 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

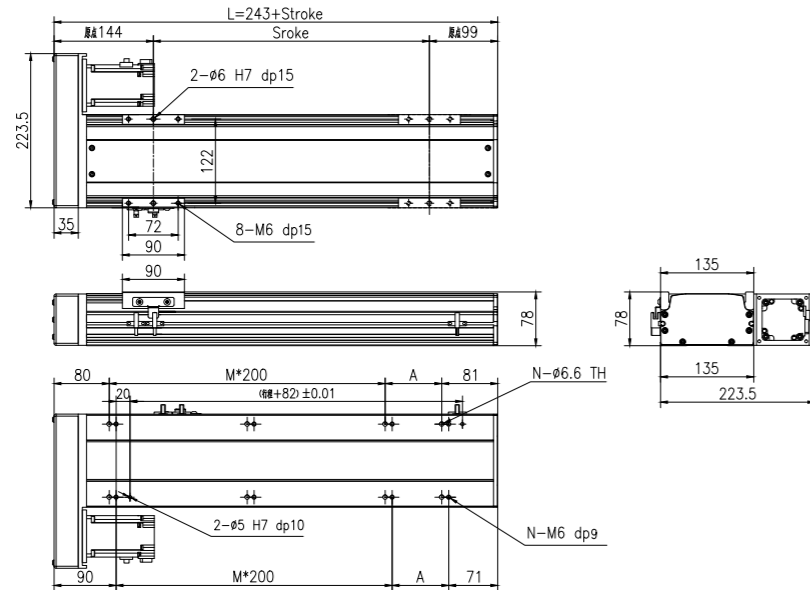
YSO135-2P-MS 馬達直接安裝 Straight Motor Mounting



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	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)	1000										800										640										500										400										325										250										200									

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#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 馬達左折安裝 Left Motor Mounting



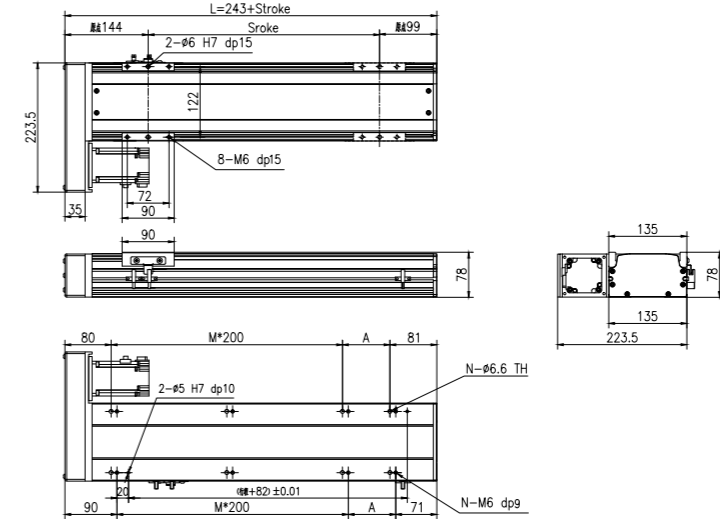
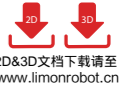
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250																																																								
L	343	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493																																																								
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)	1000										800										640										500										400										325										250										200									

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

亞標半密式螺桿驅動型 YSO 135

Ball Screw Driven Linear Actuator

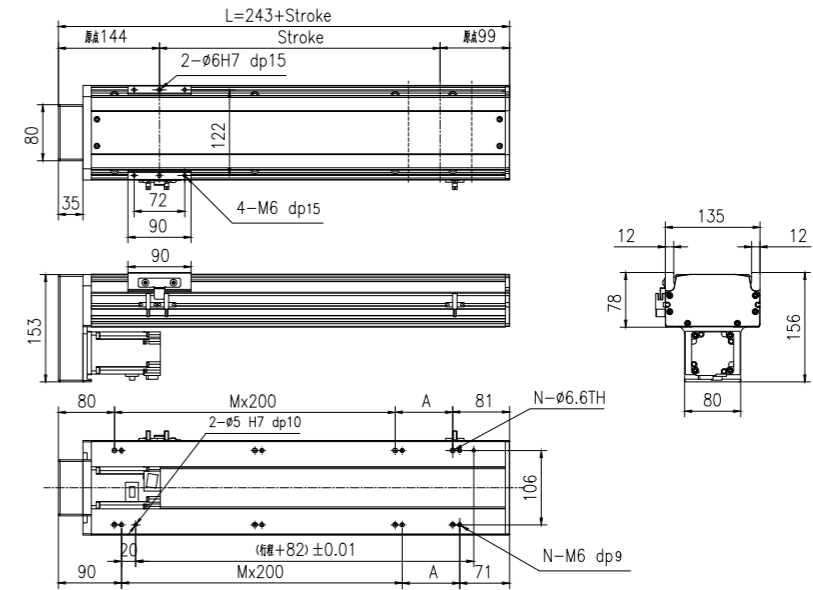
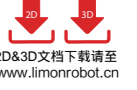
YSO135-2P-MR 馬達右折安裝 Right Motor Mounting



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	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)	1000										800										640										500										400										325										250										200									

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#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 馬達下折安裝 Down Motor Mounting



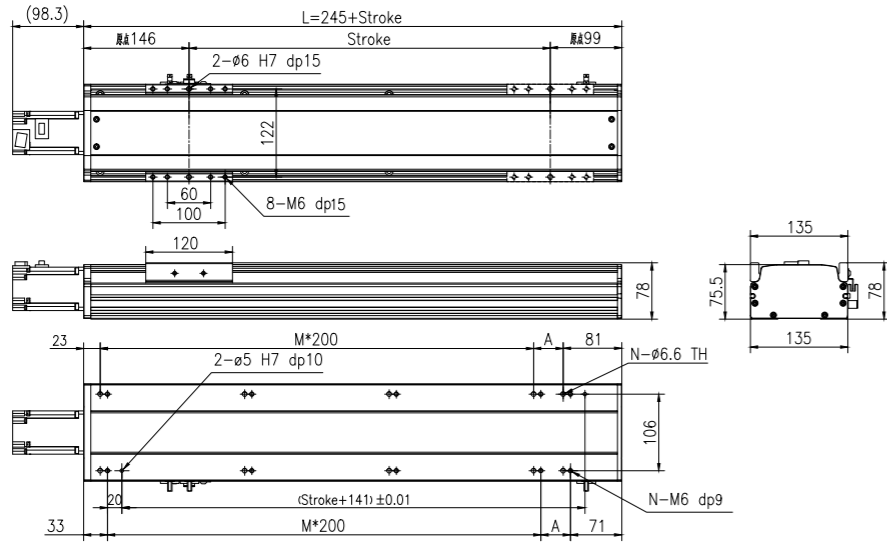
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250																																																								
L	343	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493																																																								
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)	1000										800										640										500										400										325										250										200									

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#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 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

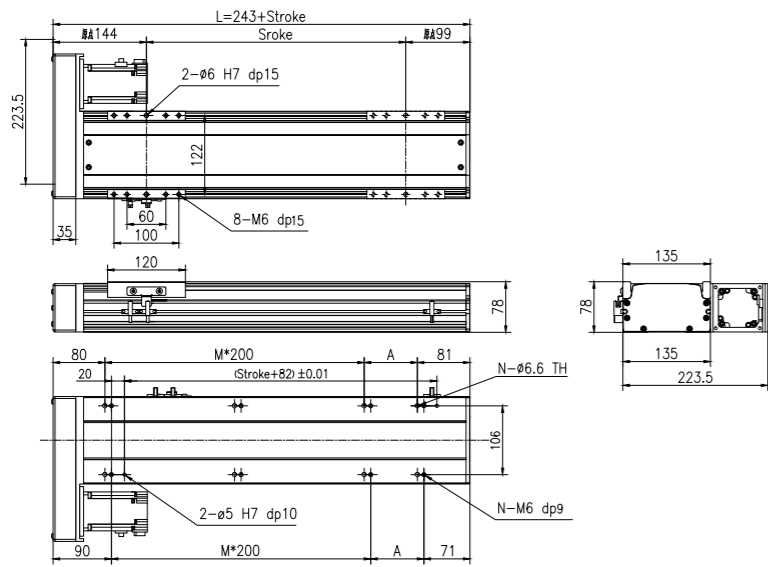
YSO135-4P-MS
马达直接安装 StRight Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250				
L	345	395	445	495	545	595	645	695	745	795	845	895	945	995	1045	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	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	6				
N	6	6	6	6	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	16				
重量 Weight (kg)	6.2	6.6	7.1	7.6	8.1	8.5	9.0	9.5	10.0	10.4	10.9	11.4	11.9	12.3	12.8	13.3	13.8	14.2	14.7	15.2	15.7	16.1	16.6	17.1				
最高速度 Max speed (mm/sec)	导程 Pitch 20 800									导程 Pitch 16 640									导程 Pitch 10 500					导程 Pitch 05 250				

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#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



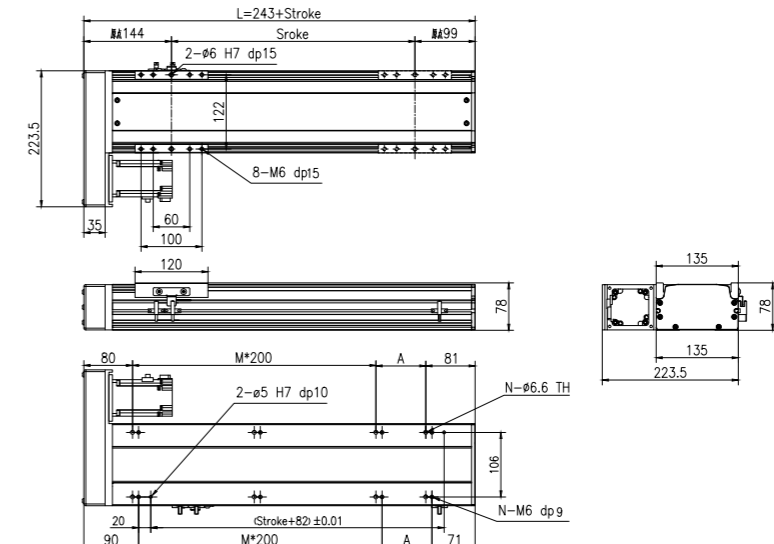
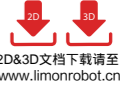
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250				
L	343	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493				
A	182	32	82	132	182	232	282	332	382	432	482	532	582	632	682	732	782	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	6	6	6	6				
N	4	6	6	6	6	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16				
重量 Weight (kg)	7.2	7.6	8.1	8.6	9.1	9.5	10.0	10.5	11.0	11.4	11.9	12.4	12.9	13.3	13.8	14.3	14.8	15.2	15.7	16.2	16.7	17.1	17.6	18.1				
最高速度 Max speed (mm/sec)	导程 Pitch 20 800									导程 Pitch 16 640									导程 Pitch 10 500					导程 Pitch 05 250				

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

亞標半密式螺桿驅動型 YSO 135

Ball Screw Driven Linear Actuator

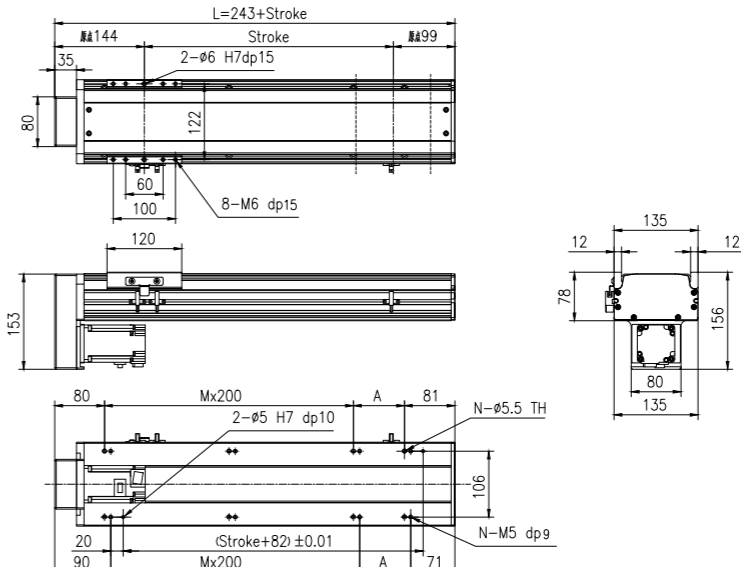
YSO135-4P-MR
马达右折安装 Right Motor Mounting



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	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	6	6	6	6				
N	4	6	6	6	6	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	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 10 640					导程 Pitch 05 500				

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#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



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	6	6	6	6				
N	4	6	6	6	6	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	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 10 640					导程 Pitch 05 500				

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

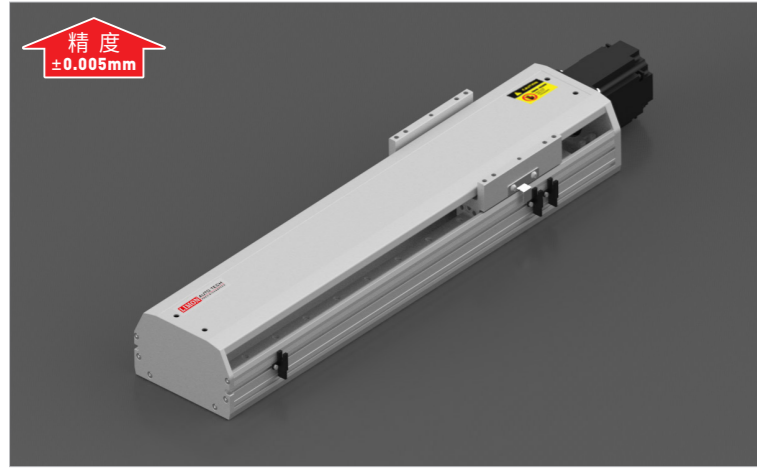
YSO 170 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

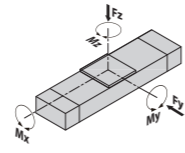
YSO170	L10	500	4P	MS	DB <small>注</small>	M40	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
	05 10 20 40	100-1250 間隔Gap50	4P	MS: 馬達直接安裝 Straight Motor Mounting ML: 馬達左折安裝 Left Motor Mounting MR: 馬達右折安裝 Right Motor Mounting MD: 馬達下折安裝 Down Motor Mounting	未填寫: 單滑塊 DB: 輔助滑塊	M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 750W 1K -	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未標記: 无 NoMark: NoSensor	

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩

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

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version

MS Type 馬達直接安裝 Straight Motor Mounting	ML Type 馬達左折安裝 Left Motor Mounting	MR Type 馬達右折安裝 Right Motor Mounting	MD Type 馬達下折安裝 Down Motor Mounting

基本規格 Basic Specification

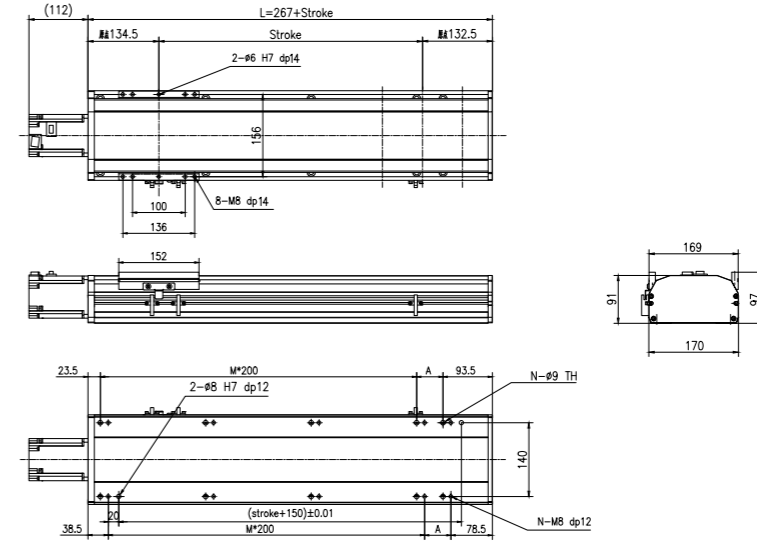
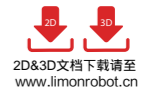
YSO170		4P(導軌滑塊數量) Block Quantity				
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.005				
	螺桿導程 Ball Screw Lead (mm)	5	10	20	40	
	最高速度 Maximum Speed (mm/s)	*注1*Note1				
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	120	100	85	60
		垂直使用Vertical (kg)	60	50	35	20
	定額推力 Rated Thrust (N)	2563	1281	640	320	
最大空載扭矩 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	
基本規格 Basic Specification	標準行程 Stroke (mm)	100-1250 mm / 50 Pitch				
	AC伺服馬達容量 AC Servo Motor Output (W)	400 / 750				
	滾珠螺桿外徑 Ball Screw Diameter (mm)	Ø20 / Ø25				
	高剛性直線滑軌 Linear Guide (mm)	20# × 2 PCS				
	主機版面最大外形 Max Outline of Main Engine's Cross Section (mm)	170 × 97				
原點感應器 Home Sensor	EE-SX672(NPN)					

#注1: 行程超過850mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。
#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: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note 2: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

亞標半密式螺桿驅動型 YSO 170

Ball Screw Driven Linear Actuator

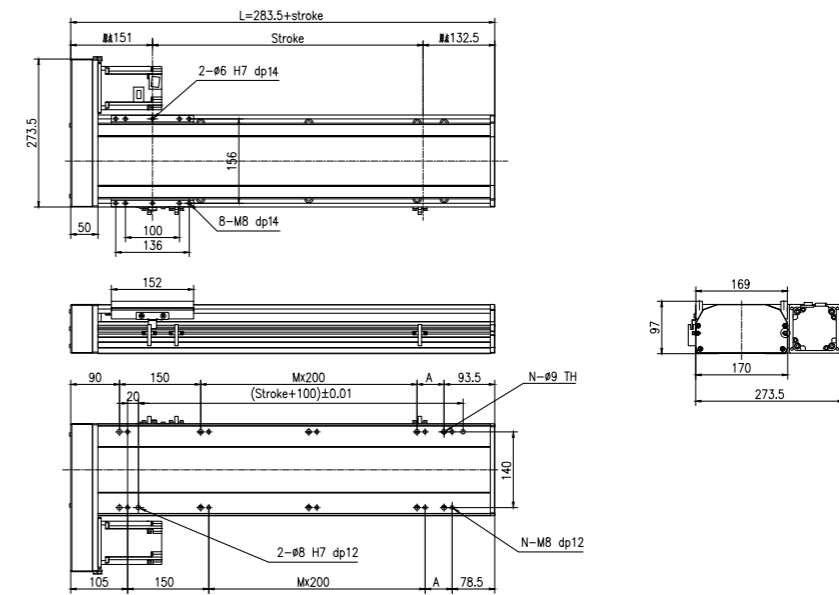
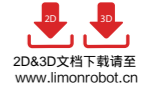
YSO170-4P-MS 馬達直接安裝 Straight Motor Mounting



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	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517
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)	導程 Pitch 40 2000																1600		1500		1000		900	
	導程 Pitch 20 1000																800		650		500		450	
	導程 Pitch 10 500																400		325		250		225	
	導程 Pitch 05 250																200		162.5		125		112.5	

#注1: 行程超過850mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。
#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 馬達左折安裝 Left Motor Mounting



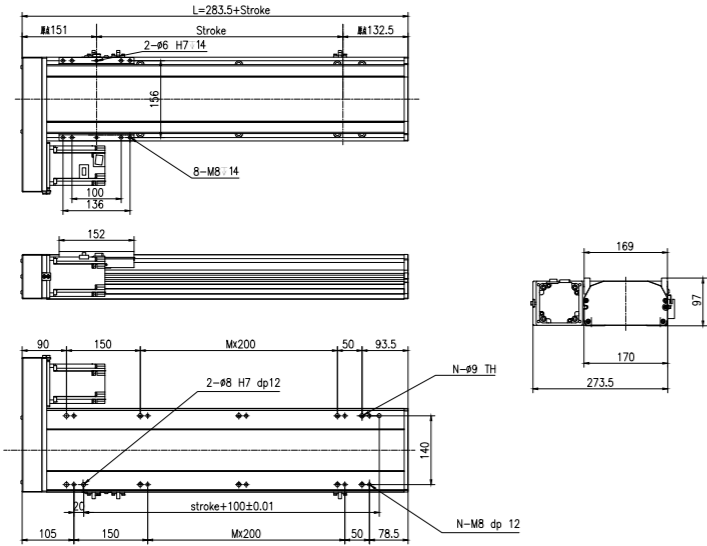
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
A	50	100	150	200	50	100	150	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)	導程 Pitch 40 2000																1600		1500		1000		900	
	導程 Pitch 20 1000																800		650		500		450	
	導程 Pitch 10 500																400		325		250		225	
	導程 Pitch 05 250																200		162.5		125		112.5	

#注1: 行程超過850mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。
#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 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

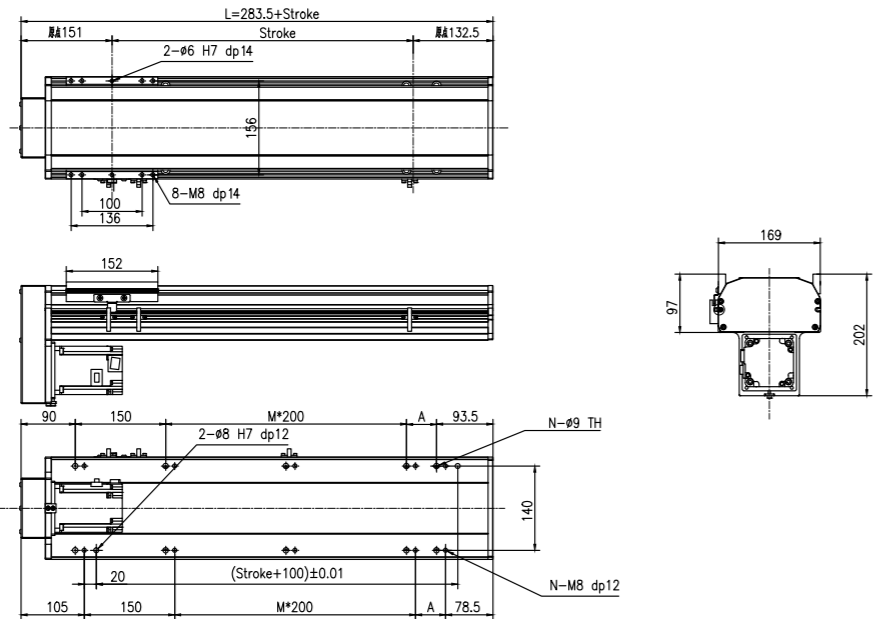
YSO170-4P-MR
马达右折安裝 Right Motor Mounting



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	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
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)																		1600	1500	1000	900			
導程 Pitch 40																		2000	1500	1000	900			
導程 Pitch 20																		1000	650	500	450			
導程 Pitch 10																		500	325	250	225			
導程 Pitch 05																		250	200	162.5	112.5			

#注1: 行程超過850mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#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
马达下折安裝 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	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
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)																		1600	1500	1000	900			
導程 Pitch 40																		2000	1500	1000	900			
導程 Pitch 20																		1000	650	500	450			
導程 Pitch 10																		500	325	250	225			
導程 Pitch 05																		250	200	162.5	112.5			

#注1: 行程超過850mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

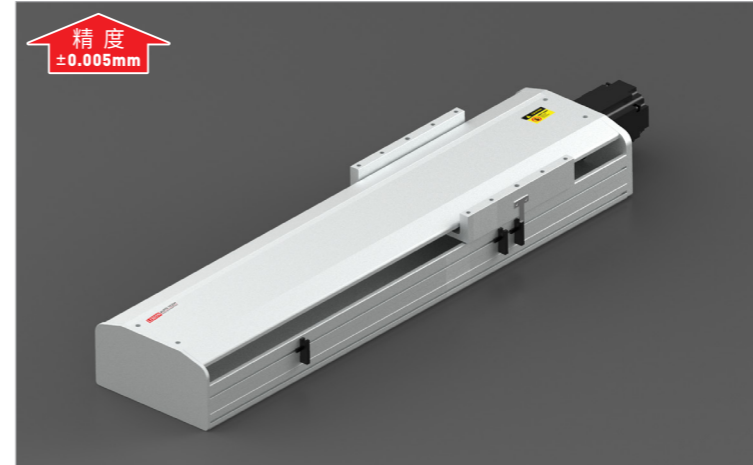
亞標半密式螺桿驅動型 YSO 220

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

YSO220	L10	500	4P	MS	DB	M75	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead (mm)	行程 Stroke (mm)	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand、Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
	05 10 25 40	100-1500, 間隔Gap50	4P	MS: 馬達直接安裝 Straight Motor Mounting ML: 馬達左折安裝 Left Motor Mounting MR: 馬達右折安裝 Right Motor Mounting MD: 馬達下折安裝 Down Motor Mounting	未填寫: 單滑塊 DB: 輔助滑塊	M 三菱 Mitsubishi 10 P 松下 Panasonic 20 Y 安川 Yaskawa 40 D 台達 Delta 75 750W 1K -	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未标记: 无 NoMark: NoSensor	

注: 輔助滑塊選項相關參數參見樣本P144.

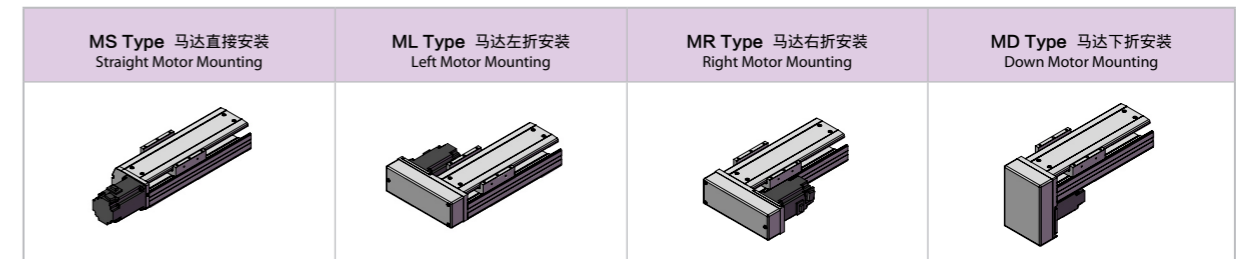


最大動態力和力矩
Max Permissible Forces And Torques

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

除了滿足最大負載和力矩外, 還必須滿足以下公式:
All forces and torques relate to the following:
$$\frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

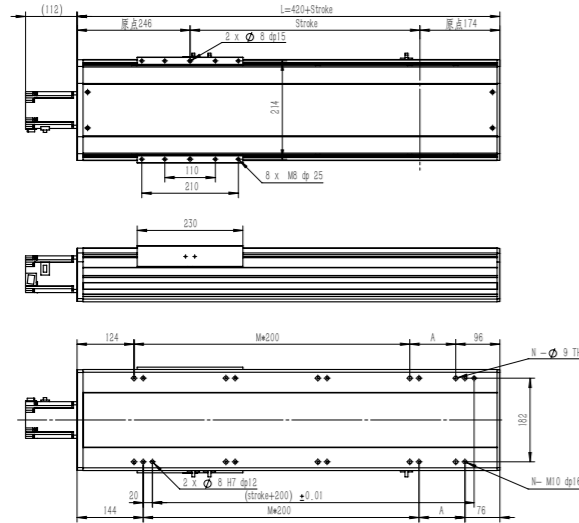
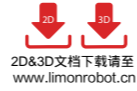
YSO220		4P(導軌滑塊數量) Block Quantity				
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.005				
	螺桿導程 Ball Screw Lead (mm)	5	10	25	40	
	最高速度 Maximum Speed (mm/s)	*注1*Note1				
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	160	160	140	80
		垂直使用Vertical (kg)	80	70	45	30
	定額推力 Rated Thrust (N)	2563	1281	640	320	
最大空載扭矩 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		
基本規格 Basic Specification	標準行程 Stroke (mm)	100-1500 mm/ 50 Pitch				
	AC伺服馬達容量 AC Servo Motor Output (W)	750				
	滾珠螺桿外徑 Ball Screw Diameter (mm)	ø25 / ø32				
	高剛性直線滑軌 Linear Guide (mm)	25# × 2 PCS				
主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	230 × 97					
原點感應器 Home Sensor	EE-SX672(NPN)					

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#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: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。
#Note 2: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

YSO 220 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSO220-MS 马达直接安装 Straight Motor Mounting

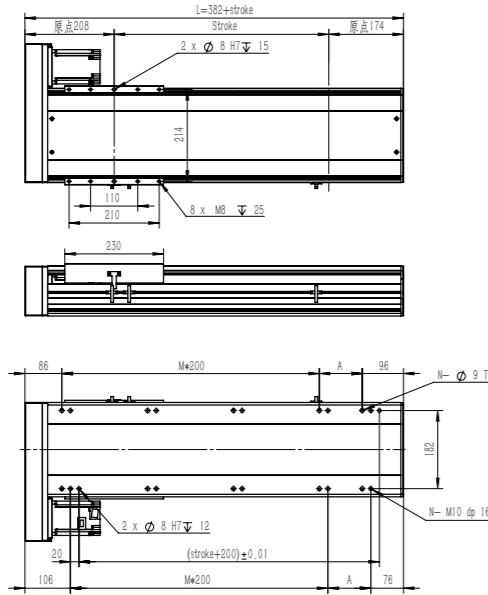


注: 1. 未标注公差为±0.
2. 未标注倒角为0.5
3. * 为重量尺寸
4. 产品重量: 1kg

行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500																																										
L	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820	1870	1920																																										
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100																																										
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8																																										
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20																																										
重量 Weight (kg)	25.4	26.9	28.3	29.8	31.2	32.7	34.2	36.6	37.1	38.5	40	41.5	42.9	44.4	45.8	47.3	48.8	50.2	51.7	53.1	54.6	56.1	57.5	59	60.4	61.9	63.4	64.8	66.3	67.7																																										
最高速度 Max speed (mm/sec)	导程 Pitch 40 2000																		导程 Pitch 25 1250																		导程 Pitch 10 500																		导程 Pitch 05 250																	

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#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-ML 马达左折安装 Left Motor Mounting



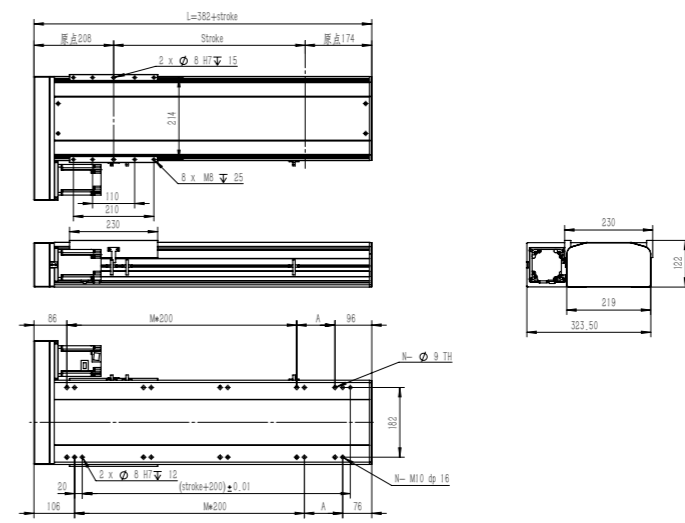
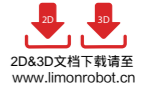
行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500																																										
L	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532	1582	1632	1682	1732	1782	1832	1882																																										
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100																																										
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8																																										
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20																																										
重量 Weight (kg)	24.2	25.7	27.1	28.6	30.0	31.5	33.0	34.4	35.9	37.3	38.8	40.3	41.7	43.2	44.6	46.1	47.6	49.0	50.5	51.9	53.4	54.9	56.3	57.8	59.2	60.7	62.2	63.6	65.1	66.5																																										
最高速度 Max speed (mm/sec)	导程 Pitch 40 2000																		导程 Pitch 25 1250																		导程 Pitch 10 500																		导程 Pitch 05 250																	

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

亞標半密式螺桿驅動型 YSO 220

Ball Screw Driven Linear Actuator

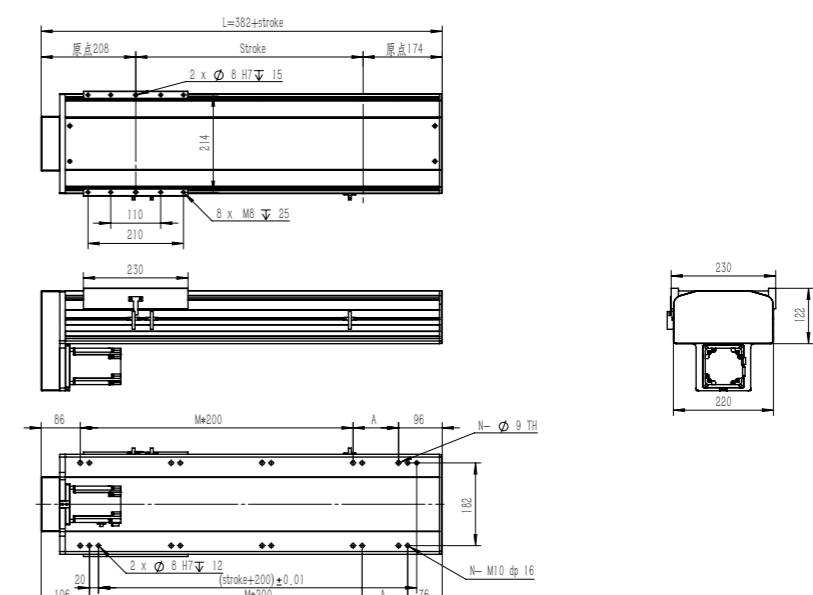
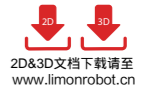
YSO220-MR 马达右折安装 Right Motor Mounting



行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500																																										
L	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532	1582	1632	1682	1732	1782	1832	1882																																										
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100																																										
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8																																										
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20																																										
重量 Weight (kg)	24.2	25.7	27.1	28.6	30.0	31.5	33.0	34.4	35.9	37.3	38.8	40.3	41.7	43.2	44.6	46.1	47.6	49.0	50.5	51.9	53.4	54.9	56.3	57.8	59.2	60.7	62.2	63.6	65.1	66.5																																										
最高速度 Max speed (mm/sec)	导程 Pitch 40 2000																		导程 Pitch 25 1250																		导程 Pitch 10 500																		导程 Pitch 05 250																	

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO220-MD 马达下折安装 Down Motor Mounting



行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500																																										
L	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532	1582	1632	1682	1732	1782	1832	1882																																										
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100																																										
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8																																										
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20																																										
重量 Weight (kg)	24.2	25.7	27.1	28.6	30.0	31.5	33.0	34.4	35.9	37.3	38.8	40.3	41.7	43.2	44.6	46.1	47.6	49.0	50.5	51.9	53.4	54.9	56.3	57.8	59.2	60.7	62.2	63.6	65.1	66.5																																										
最高速度 Max speed (mm/sec)	导程 Pitch 40 2000																		导程 Pitch 25 1250																		导程 Pitch 10 500																		导程 Pitch 05 250																	

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

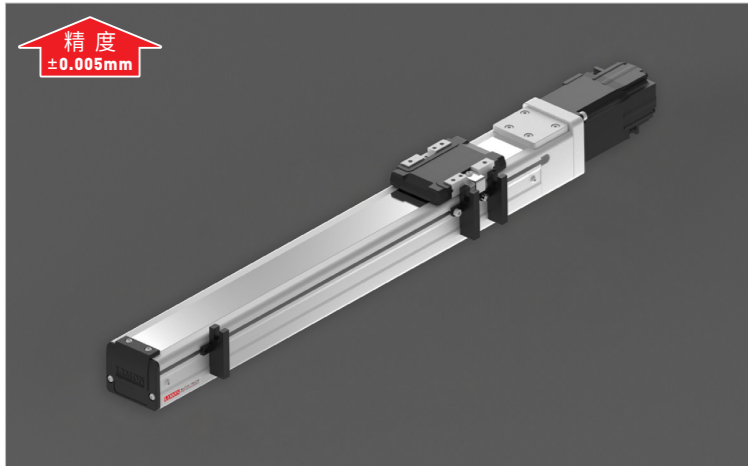
YSC 50 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

YSC50	L10	500	MS	DB	M10	P3	A001
本體型號 (Item NO.)	螺桿導程 (Ball Screw Lead)	行程 (Stroke)	馬達方向 (Motor Mounting Position)	輔助滑塊 (Auxiliary Block)	馬達廠牌、功率 (Motor Brand, Power Output)	限位傳感器數量 (Photoelectric Sensor)	特設式樣 (Special Order No.)
05	10	100-600, 間隔Gap50	MS: 馬達直接安裝 (Straight Motor Mounting) ML: 馬達左折安裝 (Left Motor Mounting) MR: 馬達右折安裝 (Right Motor Mounting) MD: 馬達下折安裝 (Down Motor Mounting)	未填寫: 單滑塊 DB: 輔助滑塊	M 三菱 Mitsubishi 10 100W P 松下 Panasonic 20 - Y 安川 Yaskawa 40 - D 台達 Delta 75 - 1K -	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未标记: 无 (NoMark/NoSensor)	

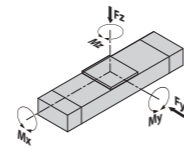
注: 輔助滑塊選項相關參數參見樣本P144.



精度
±0.005mm

最大動態力和力矩

Max Permissible Forces And Torques

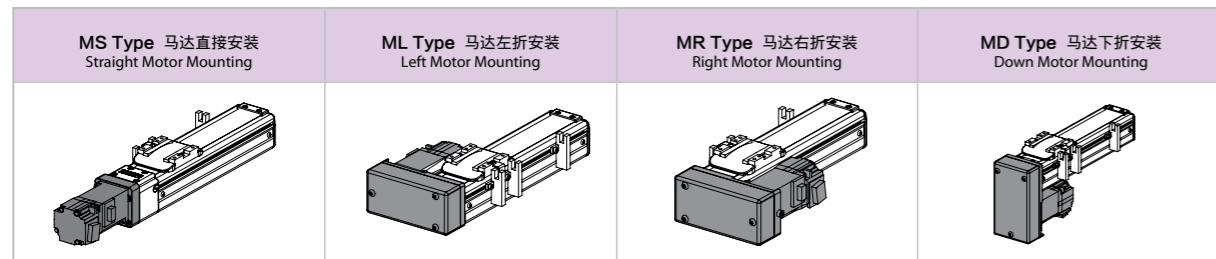


Type	50
■ F(y) (N)	1024
■ F(z) (N)	1024
■ M(x) (N·m)	12
■ M(y) (N·m)	38
■ M(z) (N·m)	38

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

YSC50		50		
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.005		
	螺桿導程 Ball Screw Lead (mm)	5	10	
	最高速度 Maximum Speed (mm/s)	250	500	
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg) 垂直使用Vertical (kg)	10 3	5 1.5
	定格推力 Rated Thrust (N)	330	165	
	最大空載扭矩 Max. No-load Driving Torque (N·m)	0.05	0.1	
	最大扭矩 Max. Driving Torque (N·m)	3	5	
基本規格 Basic Specification	標準行程 Stroke (mm)	100-600 mm/ 50 Pitch		
	AC伺服馬達容量 AC Servo Motor Output (W)	100		
	滾珠螺桿外徑 Ball Screw Diameter (mm)	ø12		
	高剛性直線滑軌 Linear Guide (mm)	寬型 Wide Type 12# × 1 PCS		
	主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	50 × 54		
原點感應器 Home Sensor	EE-SX672(NPN)			

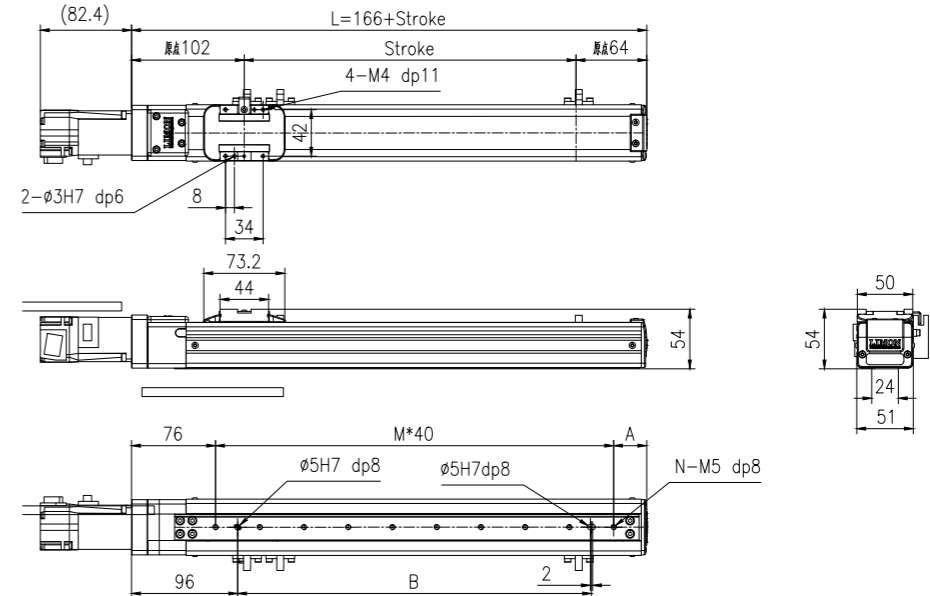
#注: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。

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

亞標全密式螺桿驅動型 YSC 50

Ball Screw Driven Linear Actuator

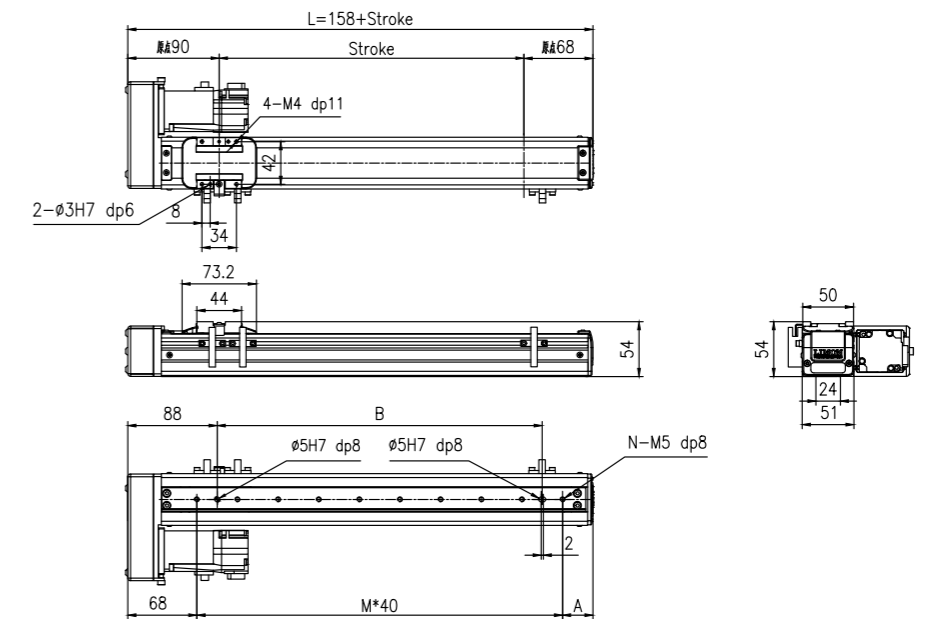
YSC50-MS 馬達直接安裝 Straight Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600
L	266	316	366	416	466	516	566	616	666	716	766
A	30	40	50	20	30	40	50	20	30	40	50
B	120	160	200	280	320	360	400	480	520	560	600
M	4	5	6	8	9	10	11	13	14	15	16
N	5	6	7	9	10	11	12	14	15	16	17
重量 Weight (kg)	2.2	2.3	2.4	2.5	2.7	2.8	2.8	3.0	3.1	3.2	3.3
最高速度 Max speed (mm/sec)	導程Pitch 10 500						導程Pitch 5 250				

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YSC50-ML 馬達左折安裝 Left Motor Mounting



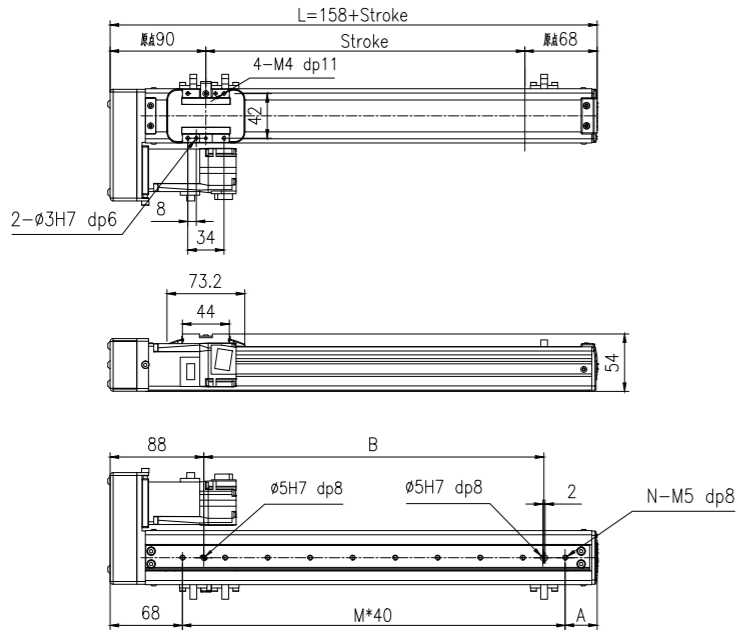
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600
L	258	308	358	408	458	508	558	608	658	708	758
A	30	40	50	20	30	40	50	20	30	40	50
B	120	160	200	280	320	360	400	480	520	560	600
M	4	5	6	8	9	10	11	13	14	15	16
N	5	6	7	9	10	11	12	14	15	16	17
重量 Weight (kg)	2.2	2.3	2.4	2.5	2.7	2.8	2.8	3.0	3.1	3.2	3.3
最高速度 Max speed (mm/sec)	導程Pitch 10 500						導程Pitch 5 250				

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YSC 50 亞標全密式螺桿驅動型

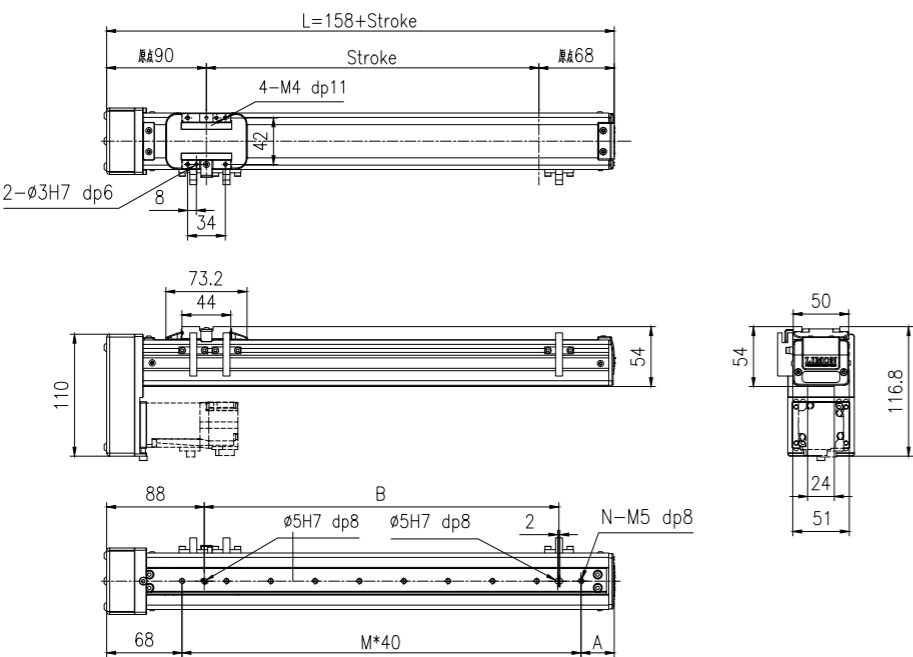
Ball Screw Driven Linear Actuator

YSC50-MR 馬達右折安裝 Right Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600
L	258	308	358	408	458	508	558	608	658	708	758
A	30	40	50	20	30	40	50	20	30	40	50
B	120	160	200	280	320	360	400	480	520	560	600
M	4	5	6	8	9	10	11	13	14	15	16
N	5	6	7	9	10	11	12	14	15	16	17
重量 Weight (kg)	2.2	2.3	2.4	2.5	2.7	2.8	2.8	3.0	3.1	3.2	3.3
最高速度 Max speed (mm/sec)	導程Pitch 10: 500 導程Pitch 5: 250										

YSC50-MD 馬達下折安裝 Down Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600
L	258	308	358	408	458	508	558	608	658	708	758
A	30	40	50	20	30	40	50	20	30	40	50
B	120	160	200	280	320	360	400	480	520	560	600
M	4	5	6	8	9	10	11	13	14	15	16
N	5	6	7	9	10	11	12	14	15	16	17
重量 Weight (kg)	2.2	2.3	2.4	2.5	2.7	2.8	2.8	3.0	3.1	3.2	3.3
最高速度 Max speed (mm/sec)	導程Pitch 10: 500 導程Pitch 5: 250										

YSC 65 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

YSC65	L10	500	MS	DB <small>注</small>	M10	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達品牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
	05 10	100-600, 間隔Gap50	MS: 馬達直接安裝 Straight Motor Mounting ML: 馬達左折安裝 Left Motor Mounting MR: 馬達右折安裝 Right Motor Mounting MD: 馬達下折安裝 Down Motor Mounting	未填寫: 單滑塊 DB: 輔助滑塊	M 三菱 Mitsubishi 10 100W P 松下 Panasonic 20 - Y 安川 Yaskawa 40 - D 台達 Delta 75 -	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未标记: 无 NoMark/NoSensor	

注: 輔助滑塊選項相關參數參見樣本P144.

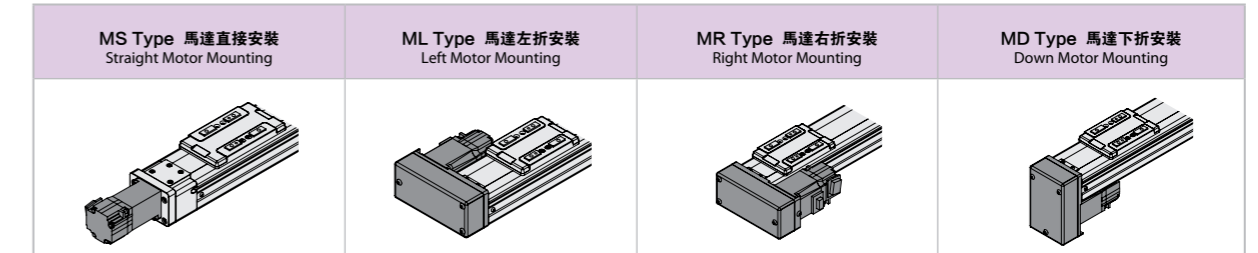


最大動態力和力矩 Max Permissible Forces And Torques

Type	65
■F(y) (N)	1672
■F(z) (N)	1672
■M(x) (N·m)	35
■M(y) (N·m)	79
■M(z) (N·m)	79

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torques relate to the following:
$$\frac{F_y}{F_{y\ max}} + \frac{F_z}{F_{z\ max}} + \frac{M_x}{M_{x\ max}} + \frac{M_y}{M_{y\ max}} + \frac{M_z}{M_{z\ max}} \leq 1$$

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

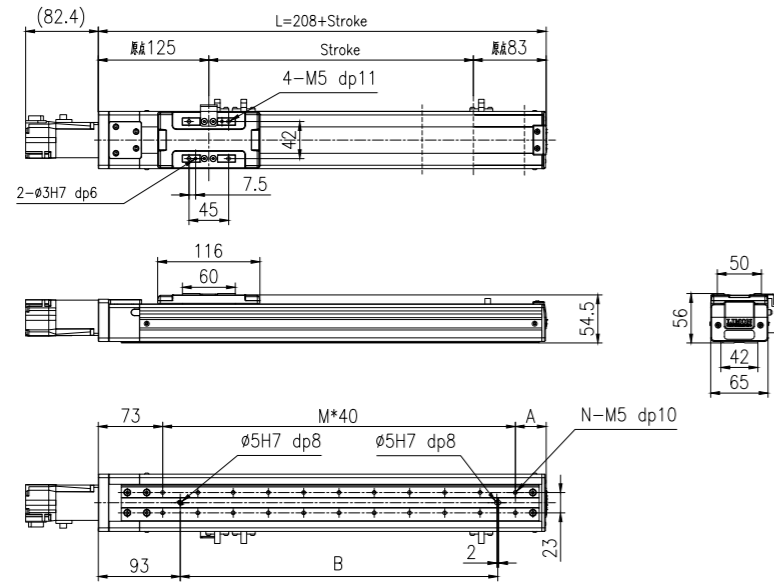
	YSC65	65		
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.005		
	螺桿導程 Ball Screw Lead (mm)	5	10	
	最高速度 Maximum Speed (mm/s)	250	500	
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	30	15
		垂直使用Vertical (kg)	10	5
	定額推力 Rated Thrust (N)	341	170	
基本規格 Basic Specification	最大空載扭矩 Max.No-load Driving Torque (N·m)	0.05	0.1	
	最大扭矩 Max. Driving Torque (N·m)	3	5	
	標準行程 Stroke (mm)	100-600 mm/ 50 Pitch		
AC伺服馬達容量 AC Servo Motor Output (W)	100			
滾珠螺桿外徑 Ball Screw Diameter (mm)	Ø12			
高剛性直線滑軌 Linear Guide (mm)	寬型 Wide type 15x1PCS			
主軸截面最大外形 Max Outline of Main Engine's Cross Section (mm)	65x56			
原點感應器 Home Sensor	EE-SX672(NPN)			

#注: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note: Data changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

YSC 65 亞標全密式螺桿驅動型

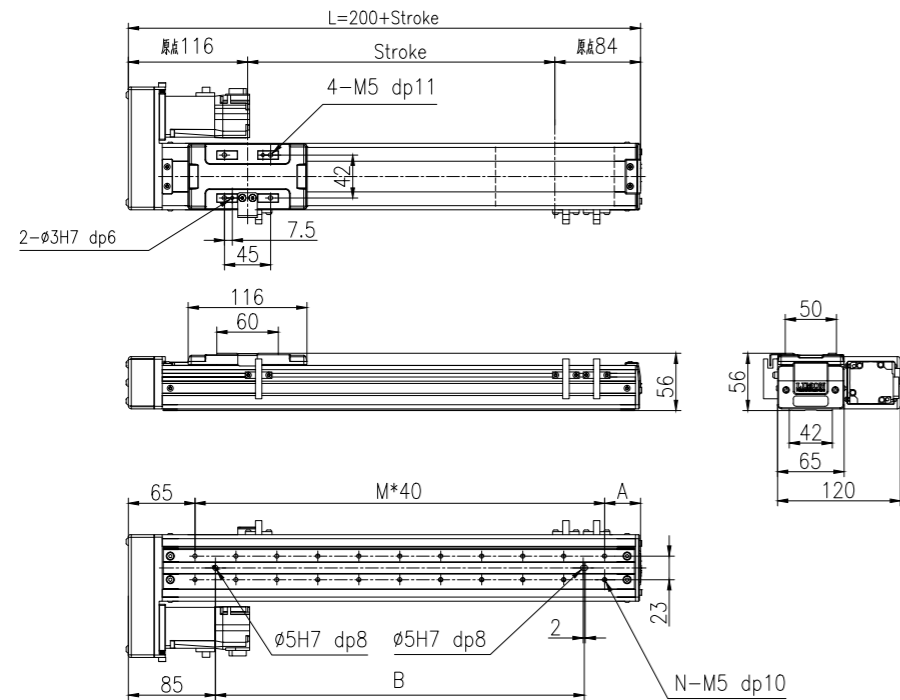
Ball Screw Driven Linear Actuator

YSC65-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
L	308	358	408	458	508	558	608	658	708	758	808
A	35	45	55	25	35	45	55	25	35	45	55
B	160	200	240	320	360	400	440	520	560	600	640
M	5	6	7	9	10	11	12	14	15	16	17
N	12	14	16	20	22	24	26	30	32	34	36
重量 Weight (kg)	2.7	2.8	3.0	3.2	3.4	3.6	3.7	3.9	4.1	4.3	4.4
最高速度 Max speed (mm/sec)	导程Pitch10 导程Pitch5 250										

YSC65-ML 马达左折安装 Left Motor Mounting

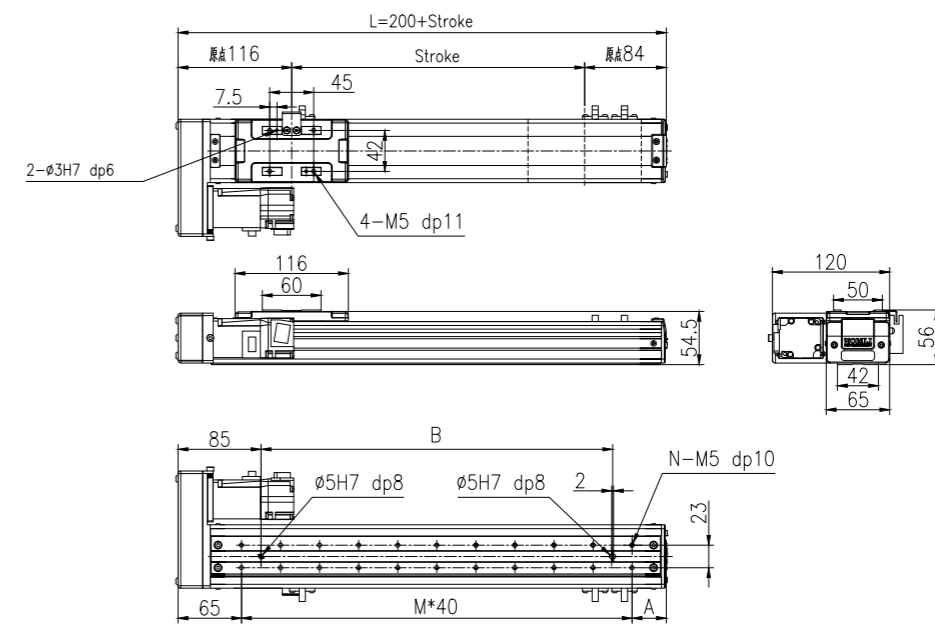
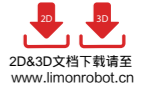


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600
L	300	350	400	450	500	550	600	650	700	750	800
A	35	45	55	25	35	45	55	25	35	45	55
B	160	200	240	320	360	400	440	520	560	600	640
M	5	6	7	9	10	11	12	14	15	16	17
N	12	14	16	20	22	24	26	30	32	34	36
重量 Weight (kg)	2.7	2.8	3.0	3.2	3.4	3.6	3.7	3.9	4.1	4.3	4.4
最高速度 Max speed (mm/sec)	导程Pitch10 导程Pitch5 250										

亞標全密式螺桿驅動型 YSC 65

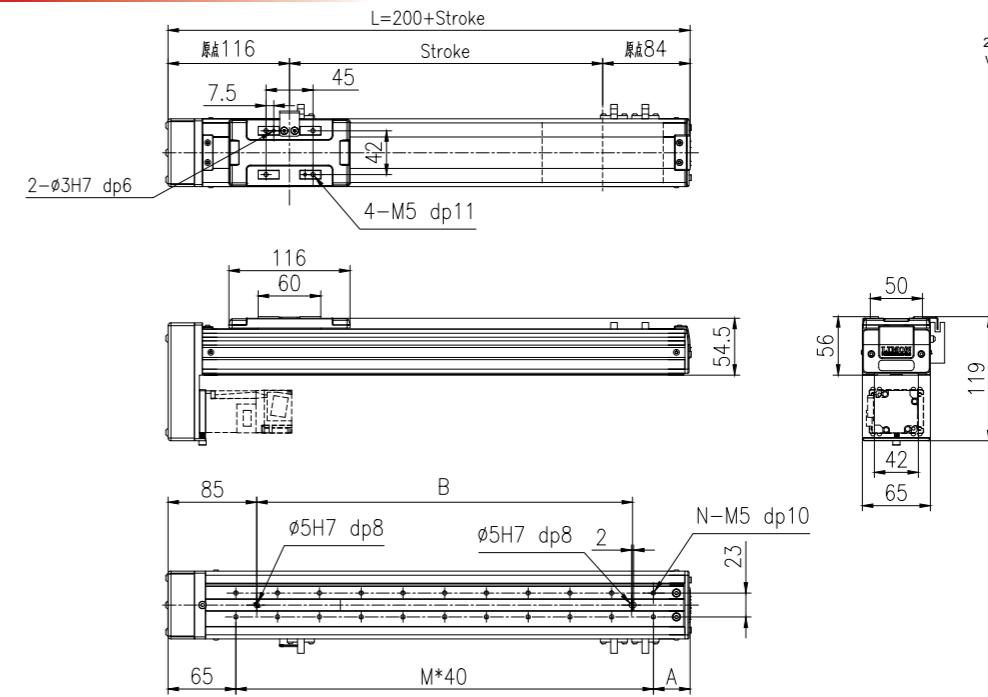
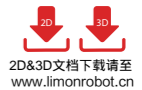
Ball Screw Driven Linear Actuator

YSC65-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
L	300	350	400	450	500	550	600	650	700	750	800
A	35	45	55	25	35	45	55	25	35	45	55
B	160	200	240	320	360	400	440	520	560	600	640
M	5	6	7	9	10	11	12	14	15	16	17
N	12	14	16	20	22	24	26	30	32	34	36
重量 Weight (kg)	2.7	2.8	3.0	3.2	3.4	3.6	3.7	3.9	4.1	4.3	4.4
最高速度 Max speed (mm/sec)	导程Pitch10 导程Pitch5 250										

YSC65-MD 马达下折安装 Down Motor Mounting



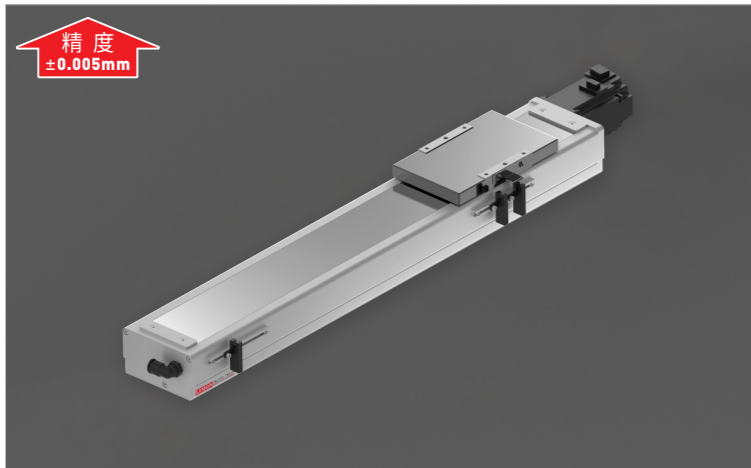
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600
L	300	350	400	450	500	550	600	650	700	750	800
A	35	45	55	25	35	45	55	25	35	45	55
B	160	200	240	320	360	400	440	520	560	600	640
M	5	6	7	9	10	11	12	14	15	16	17
N	12	14	16	20	22	24	26	30	32	34	36
重量 Weight (kg)	2.7	2.8	3.0	3.2	3.4	3.6	3.7	3.9	4.1	4.3	4.4
最高速度 Max speed (mm/sec)	导程Pitch10 导程Pitch5 250										

YSC 100 亞標全密式螺桿驅動型 Ball Screw Driven Linear Actuator

訂購型號代碼 Code

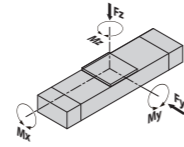
YSC100	L10	500	1P	MS	DB <small>注</small>	M40	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
	05 10 16 20	100-1050, 間隔Gap50	1P 2P	MS: 馬達直接安裝 Straight Motor Mounting ML: 馬達左折安裝 Left Motor Mounting MR: 馬達右折安裝 Right Motor Mounting MD: 馬達下折安裝 Down Motor Mounting	未填寫: 無滑塊 DB: 輔助滑塊	M 三菱 Mitsubishi 10 100W P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K -	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未標記: 无 NoMark: NoSensor	

注: 輔助滑塊選項相關參數參見樣本P144.



精度
±0.005mm

最大動態力和力矩 Max Permissible Forces And Torques



Type	1P	2P
■ F(y) (N)	2222	2571
■ F(z) (N)	2222	3060
■ M(x) (N·m)	23	30
■ M(y) (N·m)	16	30
■ M(z) (N·m)	16	30

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version

MS Type 馬達直接安裝 Straight Motor Mounting	ML Type 馬達左折安裝 Left Motor Mounting	MR Type 馬達右折安裝 Right Motor Mounting	MD Type 馬達下折安裝 Down Motor Mounting

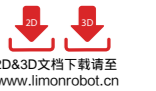
基本規格 Basic Specification

YSC100		1P(導軌滑塊數量) Block Quantity				2P(導軌滑塊數量) Block quantity				
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.005								
	螺桿導程 Ball Screw Lead (mm)	5	10	16	20	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)	40	24	18	14	50	30	22	18
		垂直使用Vertical (kg)	14	13	11	5	18	16	14	6
	定額推力 Rated Thrust (N)	341	170	106	85	341	170	106	85	
最大空載扭矩 Max. No-load Driving Torque (N·m)	0.1	0.12	0.16	0.2	0.1	0.12	0.16	0.2		
最大扭矩 Max. Driving Torque (N·m)	10.9	12.5	14	16	10.9	12.5	14	16		
基本規格 Basic Specification	標準行程 Stroke (mm)	100-1050 mm / 50 Pitch								
	AC伺服馬達容量 AC Servo Motor Output (W)	100 / 200 / 400								
	滾珠螺桿外徑 Ball Screw Diameter (mm)	ø16								
	高剛性直線滑軌 Linear Guide (mm)	20# × 1 PCS								
	主機剖面最大外形 Max Outline of Main Engine's Cross Section (mm)	108 × 78.5								
原點感應器 Home Sensor	EE-SX672(NPN)									

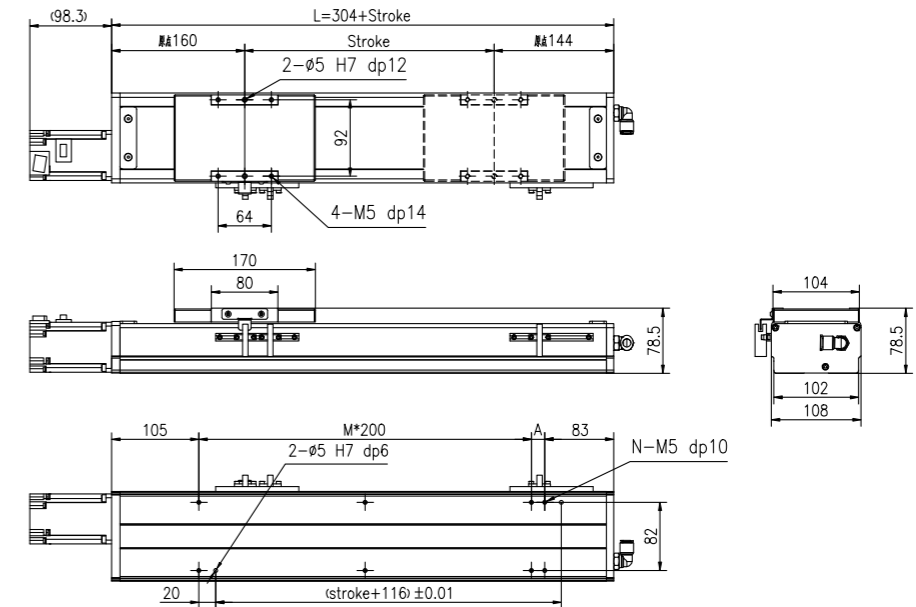
#注1: 行程超過700mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note 2: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

亞標全密式螺桿驅動型 YSC 100 Ball Screw Driven Linear Actuator

YSC100-1P/2P-MS 馬達直接安裝 Straight Motor Mounting



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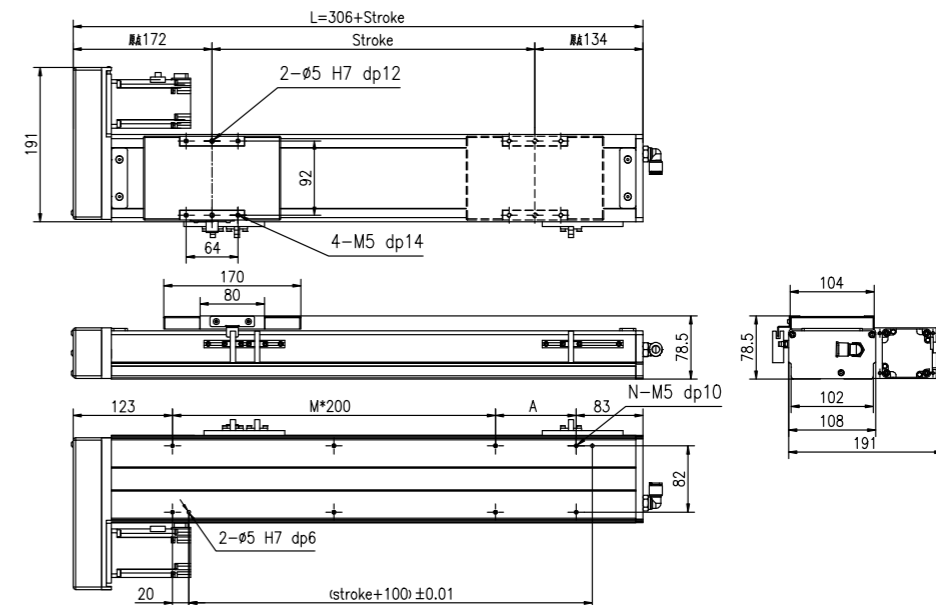
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050		
L	404	454	504	554	604	654	704	754	804	854	904	954	1004	1054	1104	1154	1204	1254	1304	1354		
A	16	66	116	166	216	266	316	366	416	466	516	566	616	666	716	766	816	866	916	966		
M	1	1	1	1	2	2	2	2	3	3	3	3	4	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		
重量 Weight (kg)	4.7	5.1	5.5	5.9	6.2	6.6	7.0	7.3	7.7	8.1	8.4	8.8	9.2	9.6	9.9	10.3	10.7	11.0	11.4	11.8		
最高速度 Max speed (mm/sec)	導程 Pitch 20 1000								導程 Pitch 16 800								導程 Pitch 10 400				導程 Pitch 05 250	

注: 行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note1: When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSC100-1P/2P-ML 馬達左折安裝 Left Motor Mounting



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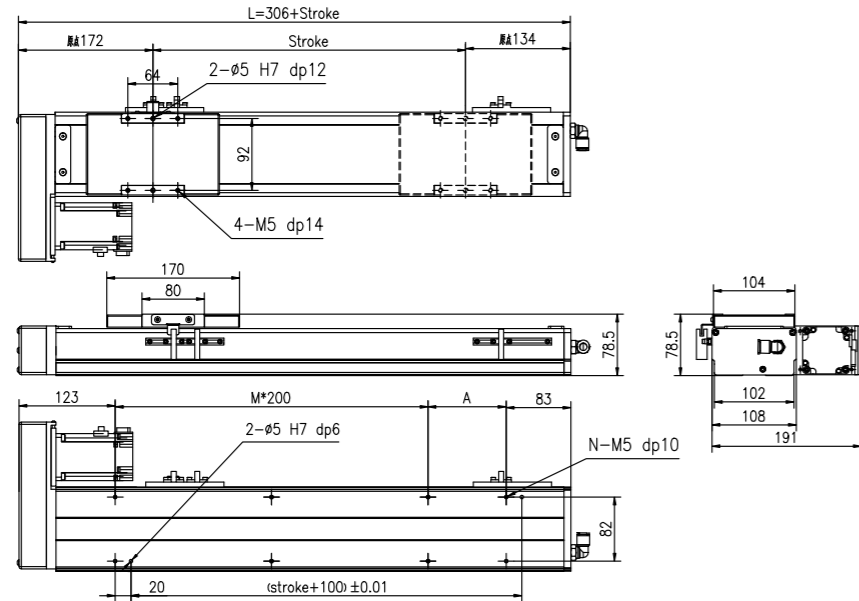
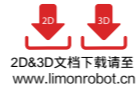
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050		
L	406	456	506	556	606	656	706	756	806	856	906	956	1006	1056	1106	1156	1206	1256	1306	1356		
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150		
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5		
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14		
重量 Weight (kg)	5.2	5.6	6.0	6.4	6.7	7.1	7.5	7.8	8.2	8.6	8.9	9.3	9.7	10.1	10.4	10.8	11.2	11.5	11.9	12.3		
最高速度 Max speed (mm/sec)	導程 Pitch 20 1000								導程 Pitch 16 800								導程 Pitch 10 400				導程 Pitch 05 250	

注: 行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note1: When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSC 100 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

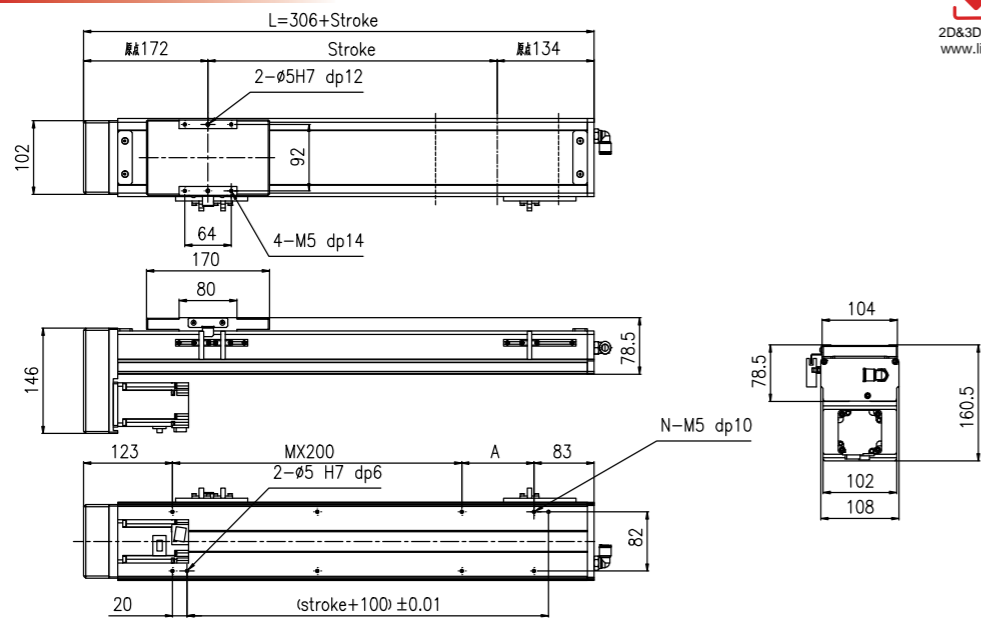
YSC100-1P/2P-MR
马达右折安裝 Right Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	406	456	506	556	606	656	706	756	806	856	906	956	1006	1056	1106	1156	1206	1256	1306	1356
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
重量 Weight (kg)	5.2	5.6	6.0	6.4	6.7	7.1	7.5	7.8	8.2	8.6	8.9	9.3	9.7	10.1	10.4	10.8	11.2	11.5	11.9	12.3
最高速度 Max speed (mm/sec)	導程 Pitch 20 800										800		650		500		450		450	
	導程 Pitch 16 500										400		325		250		225		225	
	導程 Pitch 10 250										200		162.5		125		112.5		112.5	
	導程 Pitch 05 250										200		162.5		125		112.5		112.5	

注：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note1:When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSC100-1P/2P-MD
马达下折安裝 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
L	406	456	506	556	606	656	706	756	806	856	906	956	1006	1056	1106	1156	1206	1256	1306	1356
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14
重量 Weight (kg)	5.2	5.6	6.0	6.4	6.7	7.1	7.5	7.8	8.2	8.6	8.9	9.3	9.7	10.1	10.4	10.8	11.2	11.5	11.9	12.3
最高速度 Max speed (mm/sec)	導程 Pitch 20 800										800		650		500		450		450	
	導程 Pitch 16 500										400		325		250		225		225	
	導程 Pitch 10 250										200		162.5		125		112.5		112.5	
	導程 Pitch 05 250										200		162.5		125		112.5		112.5	

注：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note1:When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

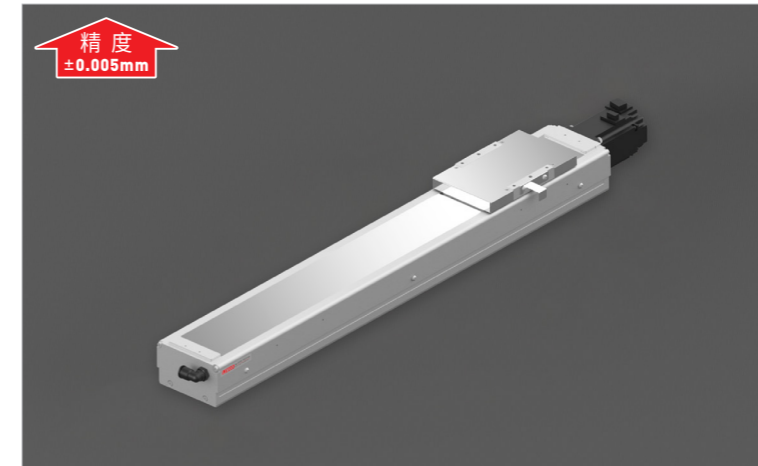
亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator YSC 110

訂購型號代碼 Code

YSC110	L10	500	4P	MS	DB	M40	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
	05 10 16 20	100-1050, 間隔Gap50	4P	MS: 馬達直接安裝 Straight Motor Mounting ML: 馬達左折安裝 Left Motor Mounting MR: 馬達右折安裝 Right Motor Mounting MD: 馬達下折安裝 Down Motor Mounting	未標記: 單滑塊 DB: 輔助滑塊	M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K -	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未標記, 无 NoMark: NoSensor	

注：輔助滑塊選項相關參數參見樣本P144.



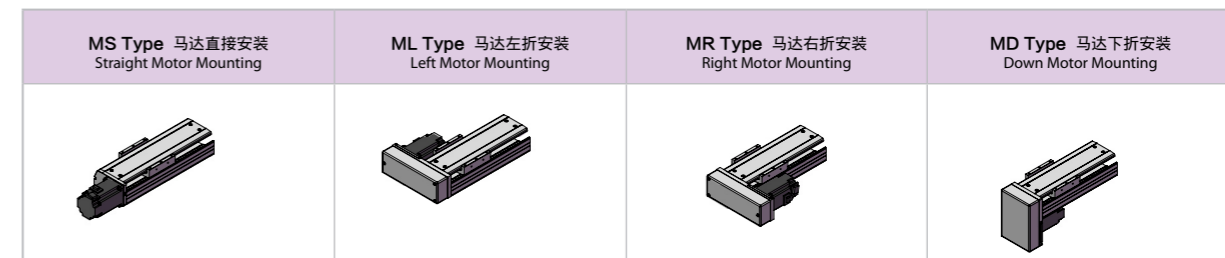
最大動態力和力矩

Max Permissible Forces And Torques

Type	4P
F(y) (N)	3427
F(z) (N)	3427
M(x) (N·m)	98
M(y) (N·m)	40
M(z) (N·m)	176

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torques relate to the following:
$$\frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

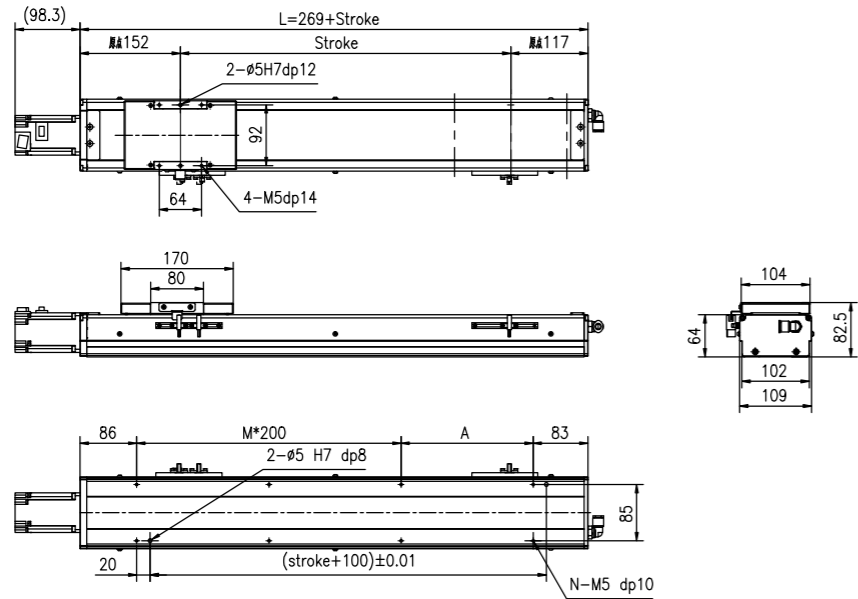
技術參數	YSC		4P (導軌滑塊數量)Block Quantity			
	位置重複精度 Repetitive Accuracy (mm)		±0.005			
Technical Parameters	螺桿導程 Ball Screw Lead (mm)	5	10	16	20	
	最高速度 Maximum Speed (mm/s)	250	500	800	1000	
	最大可搬重量 *注1Note Maximum Payload	水平使用Horizontal (kg)	50	30	22	18
		垂直使用Vertical (kg)	18	16	14	6
	定額推力 Rated Thrust (N)	341	170	106	85	
	最大空載扭矩 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		
基本規格	標準行程 Stroke (mm)	100-1050 mm/ 50 Pitch				
	AC伺服馬達容量 AC Servo Motor Output (W)	200/400				
	滾珠螺桿外徑 Ball Screw Diameter (mm)	φ16				
	高剛性直線滑軌 Linear Guide (mm)	12#x2PCS				
	主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	109x82.5				
原點感應器 Home Sensor	EE-SX672(NPN)					

#注：測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note : Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.

YSC 110 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

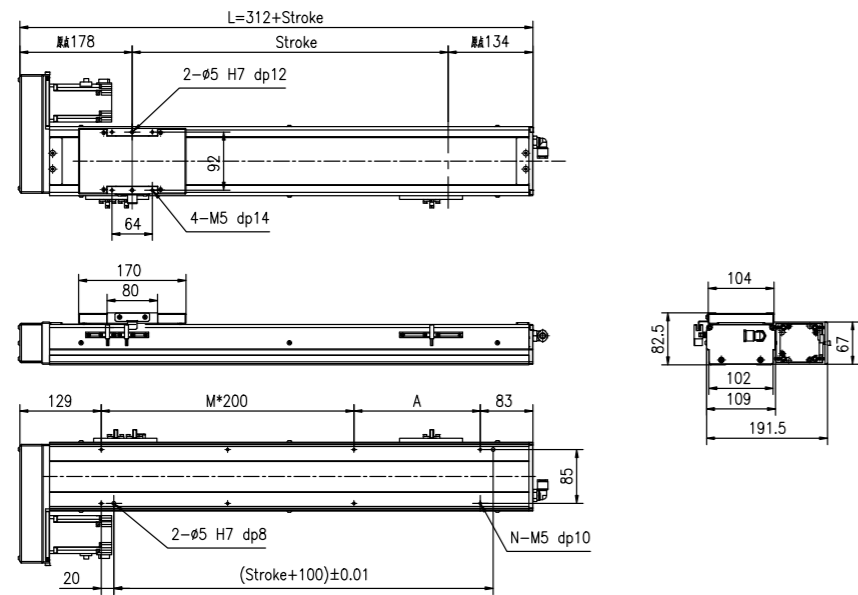
YSC110-MS 马达直接安装 Straight Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	369	419	469	519	569	619	669	719	769	819	869	919	969	1019	1069	1119	1169	1219	1269	1319
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	8	8	8	8	10	10	10	10	10	12	12	12	12	14	14	14
重量 Weight (kg)	6.77	7.2	7.63	8.06	8.49	8.92	9.35	9.78	10.2	10.6	11.1	11.5	11.9	12.4	12.8	13.2	13.7	14.1	14.5	14.9
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：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note1:When the stroke is more than 700mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSC110-ML 马达左折安装 Left Motor Mounting



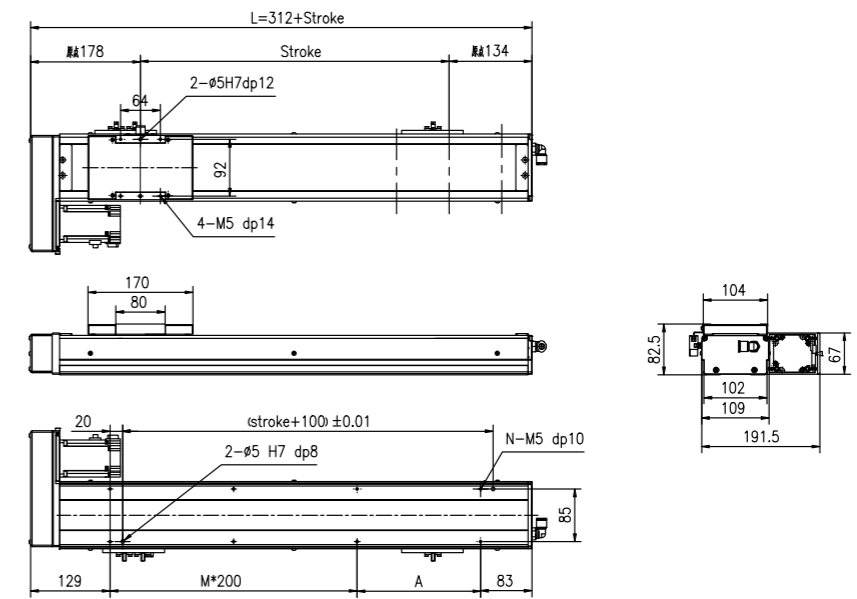
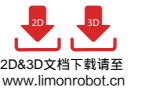
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	8	8	8	8	10	10	10	10	10	12	12	12	12	14	14	14
重量 Weight (kg)	6.77	7.2	7.63	8.06	8.49	8.92	9.35	9.78	10.2	10.6	11.1	11.5	11.9	12.4	12.8	13.2	13.7	14.1	14.5	14.9
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：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note1:When the stroke is more than 700mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

亞標全密式螺桿驅動型 YSC 110

Ball Screw Driven Linear Actuator

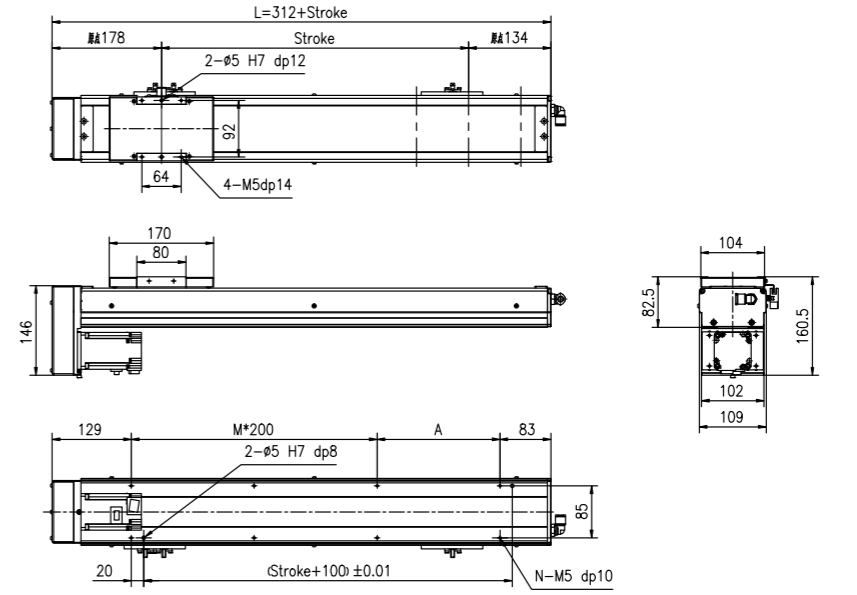
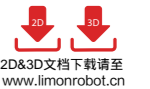
YSC110-MR 马达右折安装 Right Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	8	8	8	8	10	10	10	10	10	12	12	12	12	14	14	14
重量 Weight (kg)	6.77	7.2	7.63	8.06	8.49	8.92	9.35	9.78	10.2	10.6	11.1	11.5	11.9	12.4	12.8	13.2	13.7	14.1	14.5	14.9
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：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note1:When the stroke is more than 700mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSC110-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
L	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	8	8	8	8	10	10	10	10	10	12	12	12	12	14	14	14
重量 Weight (kg)	6.77	7.2	7.63	8.06	8.49	8.92	9.35	9.78	10.2	10.6	11.1	11.5	11.9	12.4	12.8	13.2	13.7	14.1	14.5	14.9
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：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note1:When the stroke is more than 700mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

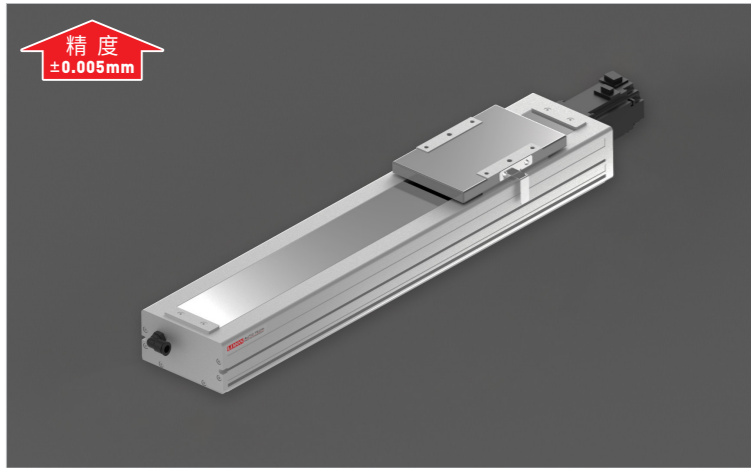
YSC 135 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

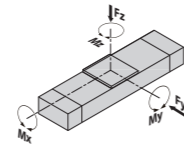
YSC135	L10	500	4P	MS	DB <small>注</small>	M40	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達安裝位置 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
	05 10 16 20	100-1250, 間隔Gap50	4P	MS: 馬達直接安裝 Straight Motor Mounting ML: 馬達左折安裝 Left Motor Mounting MR: 馬達右折安裝 Right Motor Mounting MD: 馬達下折安裝 Down Motor Mounting	非導軌: 單滑塊 DB: 輔助滑塊	M 三菱 Mitsubishi 10 P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 1K -	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未標記, 无 No Mark: NoSensor	

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩

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

除了滿足最大負載和力矩外, 還必須滿足以下公式:
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version

MS Type 馬達直接安裝 Straight Motor Mounting	ML Type 馬達左折安裝 Left Motor Mounting	MR Type 馬達右折安裝 Right Motor Mounting	MD Type 馬達下折安裝 Down Motor Mounting

基本規格 Basic Specification

YSC135		4P(導軌滑塊數量) Block Quantity				
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.005				
	螺桿導程 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
	定額推力 Rated Thrust (N)	683	341	213	174	
最大空載扭矩 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		
基本規格 Basic Specification	標準行程 Stroke (mm)	100-1250 mm/ 50 Pitch				
	AC伺服馬達容量 AC Servo Motor Output (W)	200/400				
	滾珠螺桿外徑 Ball Screw Diameter (mm)	Ø16 / Ø20				
	高剛性直線滑軌 Linear Guide (mm)	15# × 2 PCS				
	主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	135 × 91				
原點感應器 Home Sensor	EE-SX672(NPN)					

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。

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

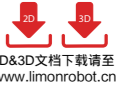
#注2: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。

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

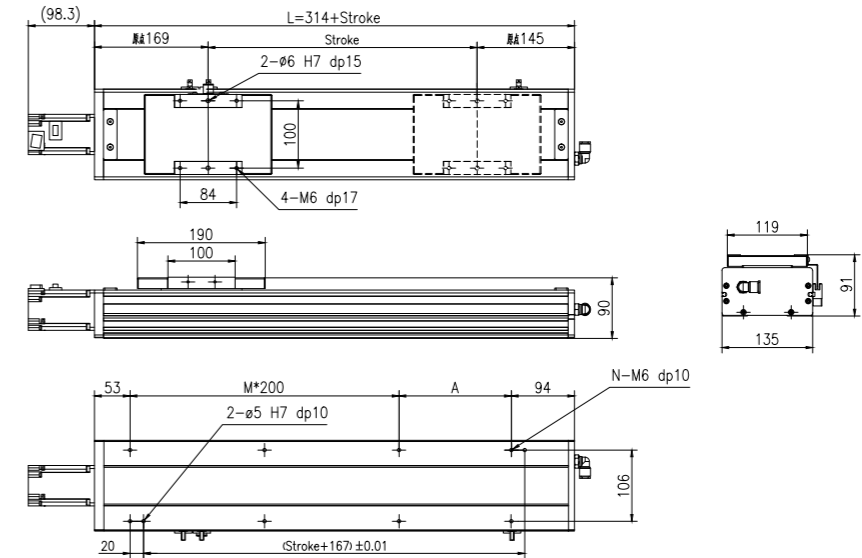
YSC 135 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSC135-4P-MS 馬達直接安裝 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	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)	導程 Pitch 20	1000																						
	導程 Pitch 16	800																						
	導程 Pitch 10	500																						
	導程 Pitch 05	250																						

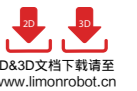
#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。

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

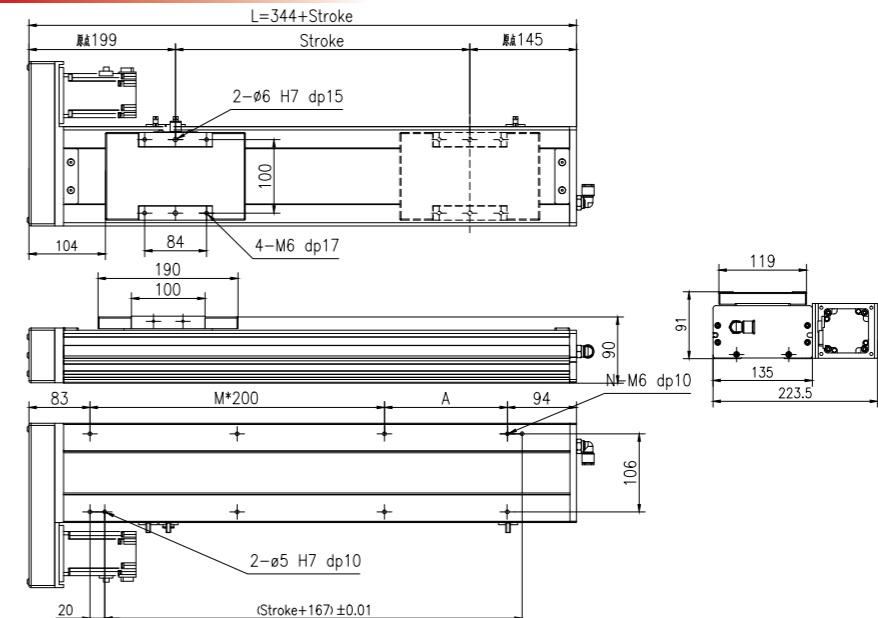
#注2: 此表格對應數據為Ø20螺桿的危險速度, Ø16螺桿參照YSO100(P19頁)。

#Note2: This sheet's data is dangerous speed of ball screw Ø20. Data of Ø16 is referred to YSO100(P19).

YSC135-4P-ML 馬達左折安裝 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	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)	導程 Pitch 20	1000																						
	導程 Pitch 16	800																						
	導程 Pitch 10	500																						
	導程 Pitch 05	250																						

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。

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

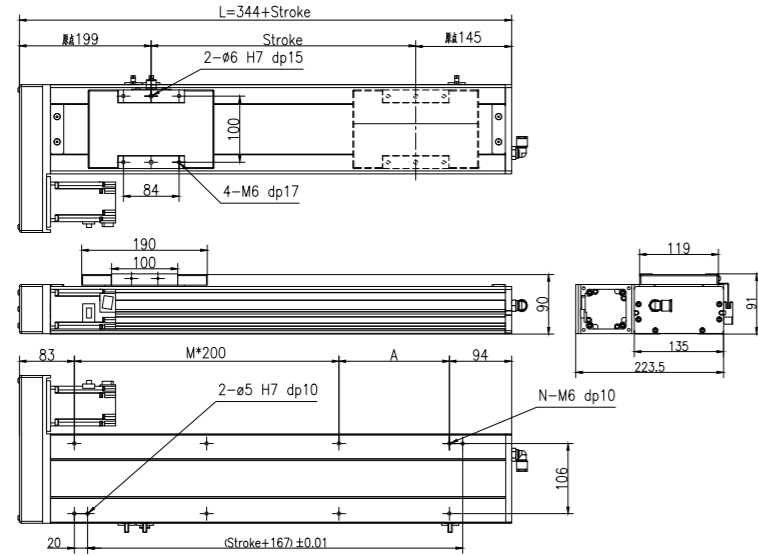
#注2: 此表格對應數據為Ø20螺桿的危險速度, Ø16螺桿參照YSO100(P19頁)。

#Note2: This sheet's data is dangerous speed of ball screw Ø20. Data of Ø16 is referred to YSO100(P19).

YSC 135 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

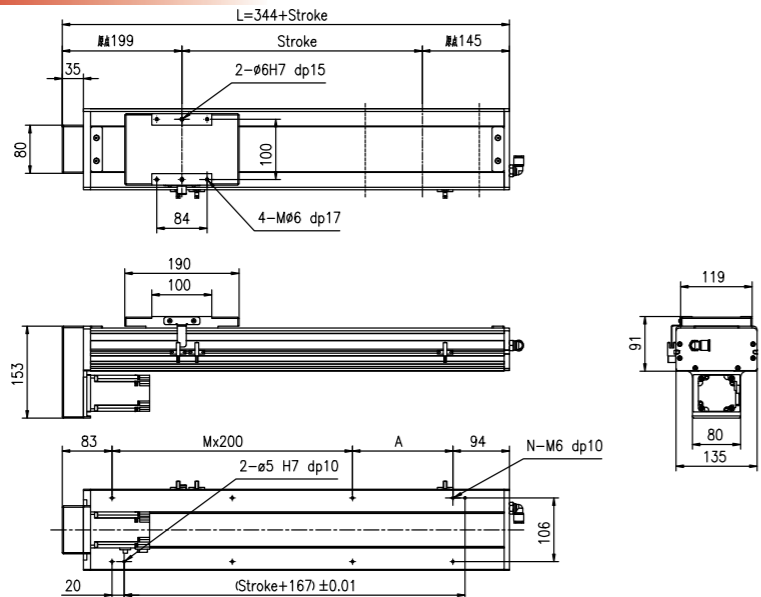
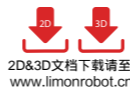
YSC135-4P-MR
馬達右折安裝 Right Motor Mounting



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	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)	導程 Pitch 20 800		導程 Pitch 16 640		導程 Pitch 10 500		導程 Pitch 05 250		1000	800	640	500	400	360	325	250	225	200	162.5	125	112.5			

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#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: 此表格對應數據為Ø20螺桿的危險速度, Ø16螺桿參照YSO100(P19頁)。
#Note2: This sheet's data is dangerous speed of ball screw Ø20. Data of Ø16 is referred to YSO100(P19)

YSC135-4P-MD
馬達下折安裝 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	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)	導程 Pitch 20 800		導程 Pitch 16 640		導程 Pitch 10 500		導程 Pitch 05 250		1000	800	640	500	400	360	325	250	225	200	162.5	125	112.5			

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#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: 此表格對應數據為Ø20螺桿的危險速度, Ø16螺桿參照YSO100(P19頁)。
#Note2: This sheet's data is dangerous speed of ball screw Ø20. Data of Ø16 is referred to YSO100(P19)

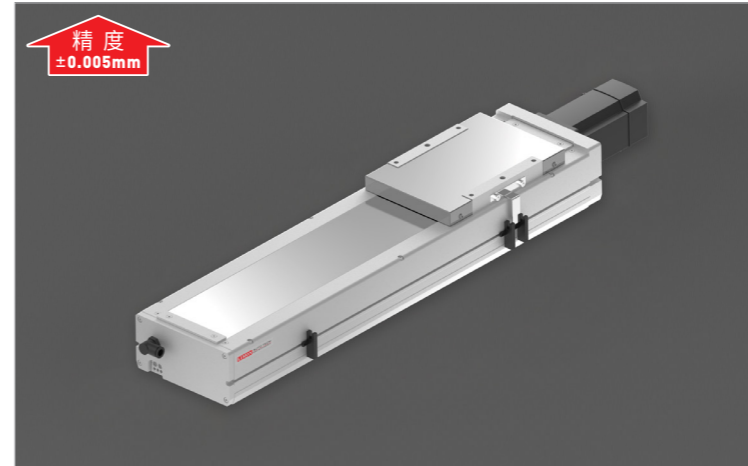
YSC 170 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

YSC170	L10	500	4P	MS	DB	M40	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
	05 10 20 40	100-1250, 間隔Gap50	4P	MS: 馬達直接安裝 Straight Motor Mounting ML: 馬達左折安裝 Left Motor Mounting MR: 馬達右折安裝 Right Motor Mounting MD: 馬達下折安裝 Down Motor Mounting	未填寫: 單滑塊 DB: 輔助滑塊	M 三菱 Mitsubishi 10 P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 750W 1K -	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未標記: 无 NoMark: NoSensor	

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩
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

除了滿足最大負載和力矩外, 還必須滿足以下公式:
All forces and torques relate to the following:
$$\frac{F_y}{F_y \max} + \frac{F_z}{F_z \max} + \frac{M_x}{M_x \max} + \frac{M_y}{M_y \max} + \frac{M_z}{M_z \max} \leq 1$$

馬達安裝方向 Motor Mounting Position Version

MS Type 馬達直接安裝 Straight Motor Mounting	ML Type 馬達左折安裝 Left Motor Mounting	MR Type 馬達右折安裝 Right Motor Mounting	MD Type 馬達下折安裝 Down Motor Mounting

基本規格 Basic Specification

技術參數 Technical Parameters	YSC170		4P(導軌滑塊數量) Block Quantity			
	位置重複精度 Repetitive Accuracy (mm)	±0.005				
螺桿導程 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	
最大空載扭矩 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	
標準行程 Stroke (mm)	100-1250 mm/ 50 Pitch					
AC伺服馬達容量 AC Servo Motor Output (W)	400 / 750					
滾珠螺桿外徑 Ball Screw Diameter (mm)	Ø20 / Ø25					
高剛性直線滑軌 Linear Guide (mm)	20# × 2 PCS					
主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	170 × 107					
原點感應器 Home Sensor	EE-SX672(NPN)					

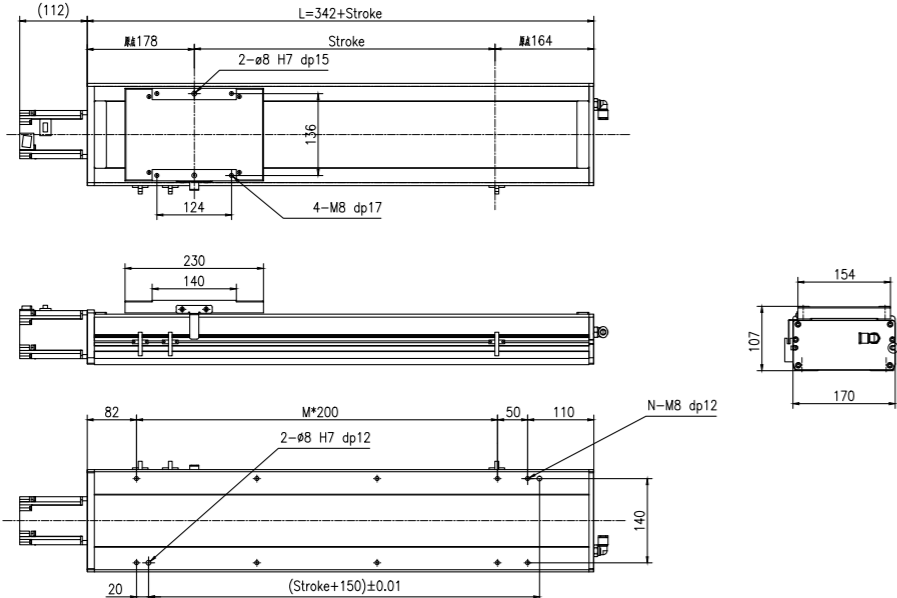
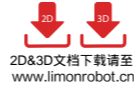
#注1: 行程超過850mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。
#Note2: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

YSC 170 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSC170-4P-MS

马达直接安装 Straight Motor Mounting

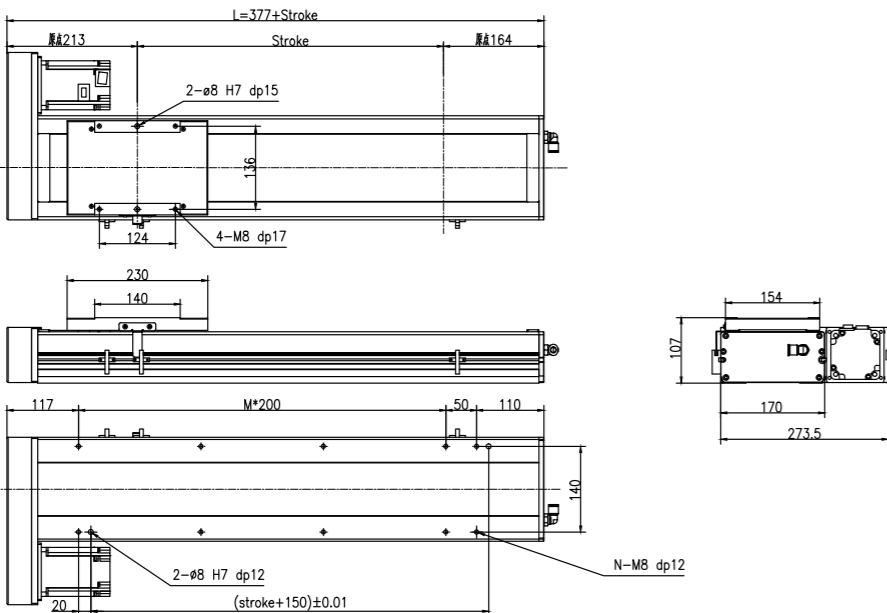
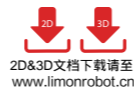


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	442	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292	1342	1392	1442	1492	1542	1592
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
重量 Weight (kg)	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21.0	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28.0	28.8	29.6	30.4	31.2	32.0	32.8
最高速度 Max speed (mm/sec)																	2000	1600	1500	1000	900			
																	导程 Pitch 40	导程 Pitch 20	导程 Pitch 10	导程 Pitch 05				
																	1000	800	650	500	450			
																	500	400	325	250	225			
																	250	200	162.5	125	112.5			

#注1: 行程超過850mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSC170-4P-ML

马达左折安装 Left Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
重量 Weight (kg)	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21.0	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28.0	28.8	29.6	30.4	31.2	32.0	32.8
最高速度 Max speed (mm/sec)																	2000	1600	1500	1000	900			
																	导程 Pitch 40	导程 Pitch 20	导程 Pitch 10	导程 Pitch 05				
																	1000	800	650	500	450			
																	500	400	325	250	225			
																	250	200	162.5	125	112.5			

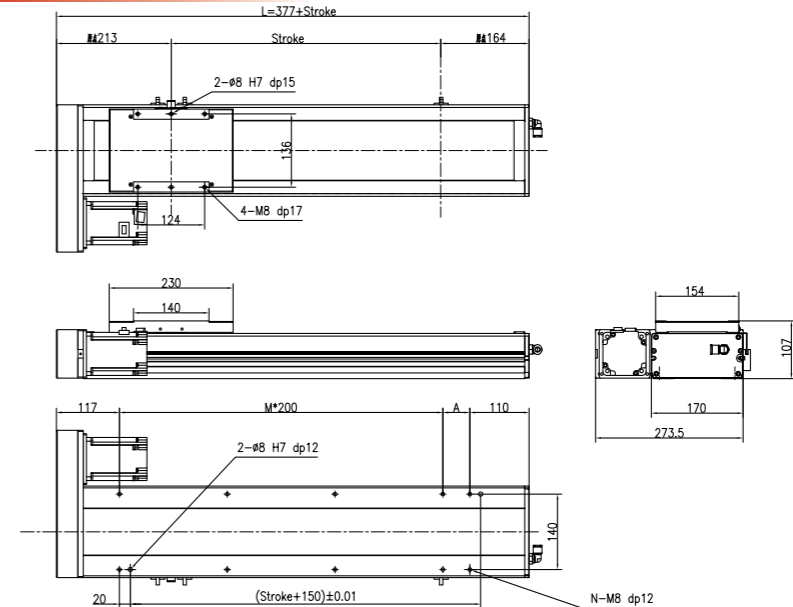
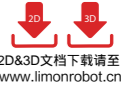
#注1: 行程超過850mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

亞標全密式螺桿驅動型 YSC 170

Ball Screw Driven Linear Actuator

YSC170-4P-MR

马达右折安装 Right Motor Mounting

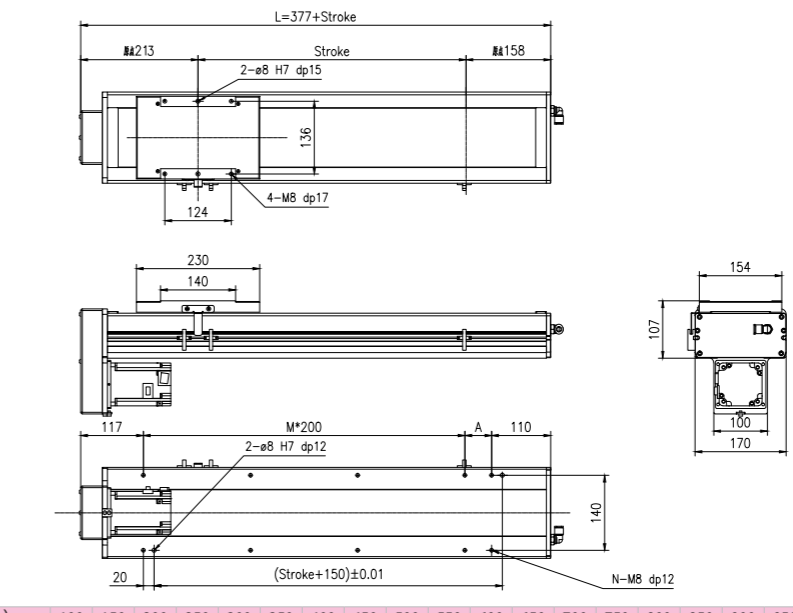
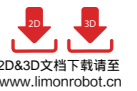


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
重量 Weight (kg)	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21.0	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28.0	28.8	29.6	30.4	31.2	32.0	32.8
最高速度 Max speed (mm/sec)																	2000	1600	1500	1000	900			
																	导程 Pitch 40	导程 Pitch 20	导程 Pitch 10	导程 Pitch 05				
																	1000	800	650	500	450			
																	500	400	325	250	225			
																	250	200	162.5	125	112.5			

#注1: 行程超過850mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSC170-4P-MD

马达下折安装 Down Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
重量 Weight (kg)	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21.0	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28.0	28.8	29.6	30.4	31.2	32.0	32.8
最高速度 Max speed (mm/sec)																	2000	1600	1500	1000	900			
																	导程 Pitch 40	导程 Pitch 20	导程 Pitch 10	导程 Pitch 05				
																	1000	800	650	500	450			
																	500	400	325	250	225			
																	250	200	162.5	125	112.5			

#注1: 行程超過850mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YTO100 亞標半密式同步帶驅動型

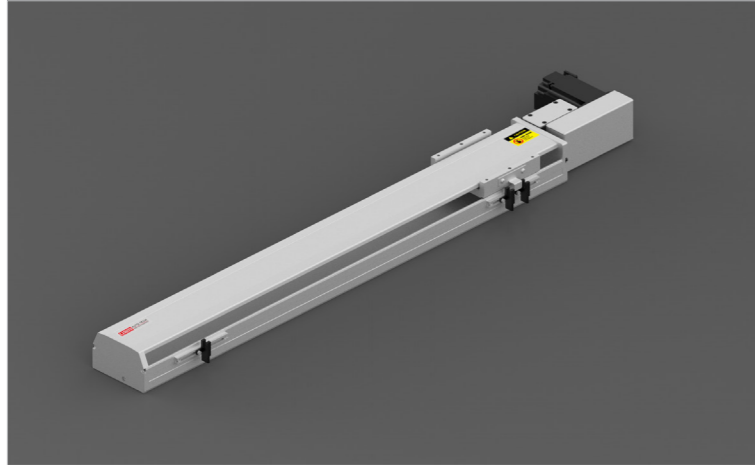
Belt Driven Linear Actuator

訂購型號代碼 Code

YTO100 - 500 - 2P - D01 - DB - M40 - P3 - A001

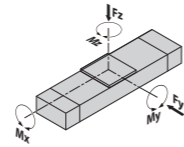
本體型號 Item NO.	行程 Stroke 100-1550, 間隔Gap50	直線導軌滑塊數量 Block Quantity 2P	馬達方向 Motor Mounting Position D01 D02 D03 D04 D05 D06 D07 D08 D09	輔助滑塊 Auxiliary Block 未填寫:無滑塊 DB:輔助滑塊	馬達廠牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K -	限位傳感器數量 Photoelectric Sensor P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未标记: 无 NoMark:NoSensor	特注式樣 Special Order No.
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注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩

Max Permissible Forces And Torques

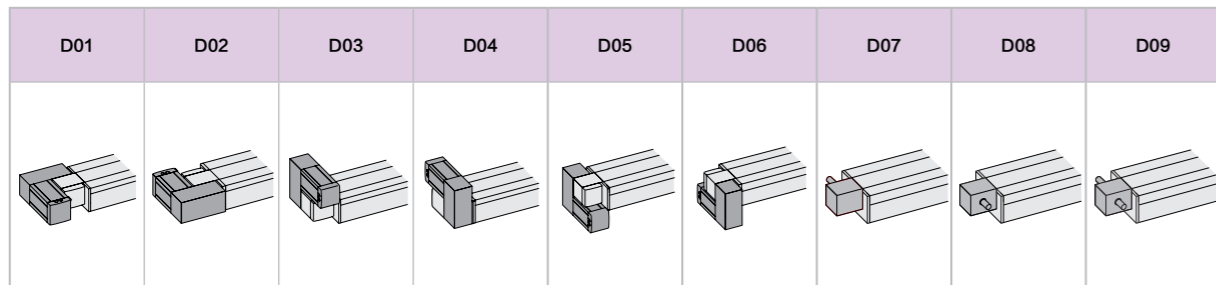


Type	2P
■F(y) (N)	2571
■F(z) (N)	3060
■M(x) (N·m)	30
■M(y) (N·m)	30
■M(z) (N·m)	30

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

YTO100		2P(導軌滑塊數量) Block Quantity	
技術參數	位置重複精度 Repetitive Accuracy (mm)	±0.05	
	皮帶輪導程 Pulley Lead (mm)	80 /40 #注2#Note2	
	皮帶型號 Belt Type	5M-15	
	最高速度 Maximum Speed (mm/s)	2000	
	最大可搬重量 #注1#Note1 Maximum Payload	水平使用Horizontal (kg)	12
		垂直使用Vertical (kg)	6
最大空載扭矩 Max. No-load Driving Torque (N·m)		0.3	
	最大扭矩 Max. Driving Torque (N·m)	6	
基本規格	標準行程 Stroke (mm)	100-1550 mm/ 50 Pitch	
	AC伺服馬達容量 AC Servo Motor Output (W)	400	
	高剛性直線滑軌 Linear Guide (mm)	20# × 1 PC	
	主機剖面最大外形 Max Outline of Main Engine's Cross Section (mm)	105 × 66	
原點感應器 Home Sensor	EE-SX672(NPN)		

#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。

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

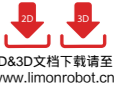
#注2: 皮帶輪原始導程為80mm，標準品默認附減速機構，減速後導程為40mm。

Note 2: Pulley's original lead is 80mm, which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

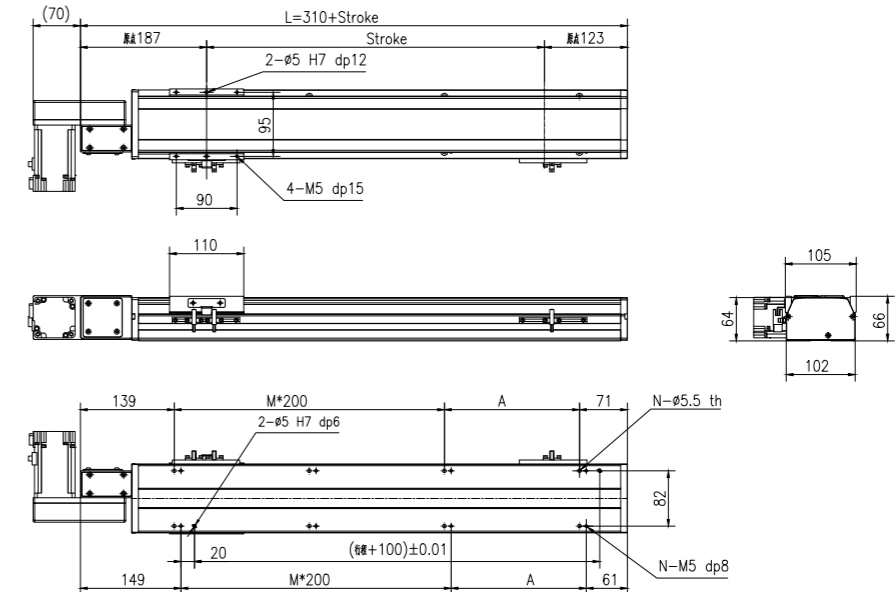
亞標半密式同步帶驅動型 YTO100

Belt Driven Linear Actuator

YTO100-2P-D01



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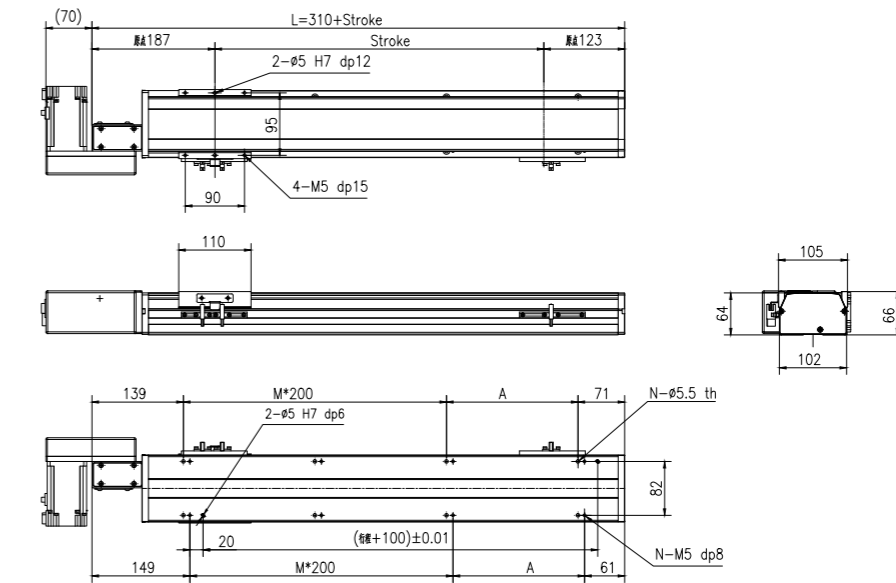


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

YTO100-2P-D02



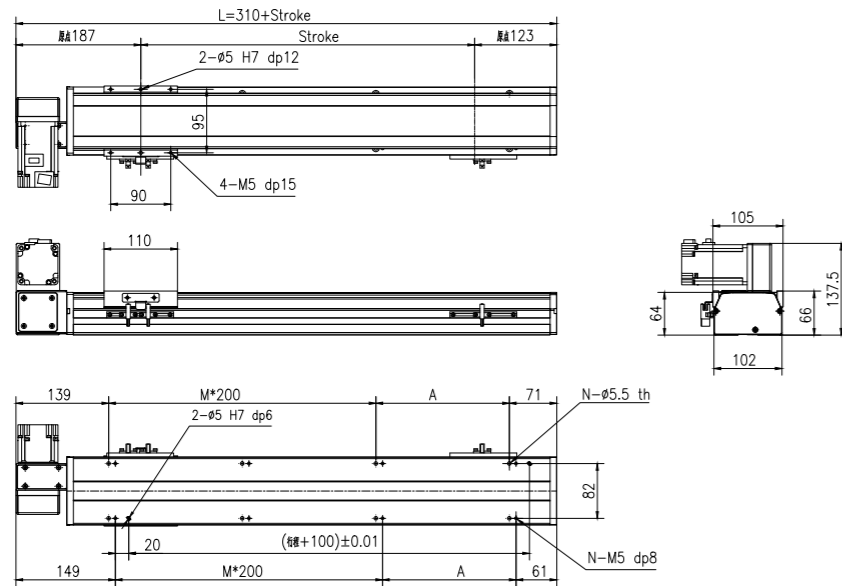
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www.limonrobot.cn



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

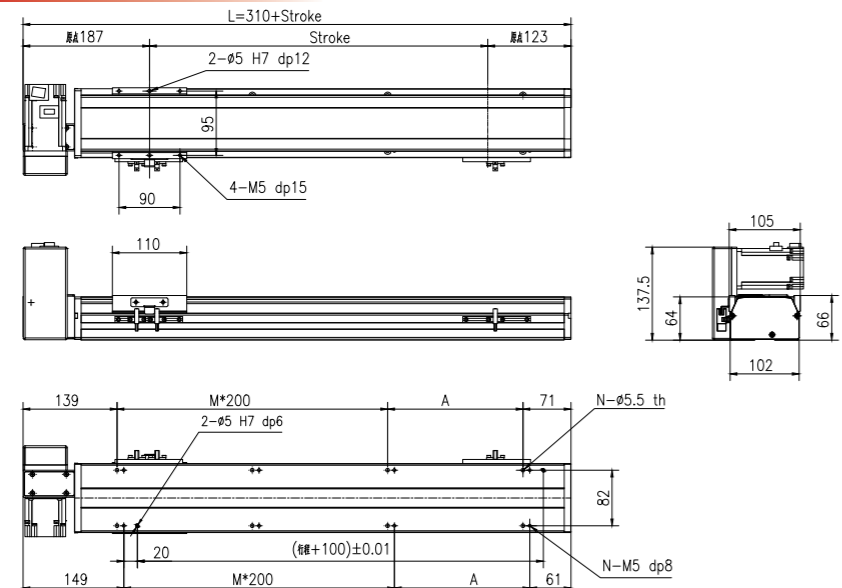
YTO100 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO100-2P-D03



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

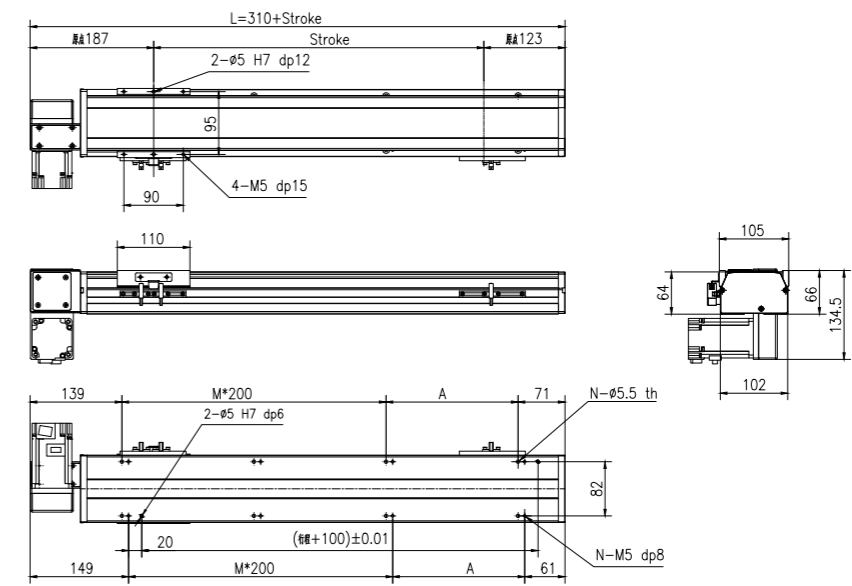
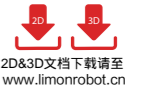
YTO100-2P-D04



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

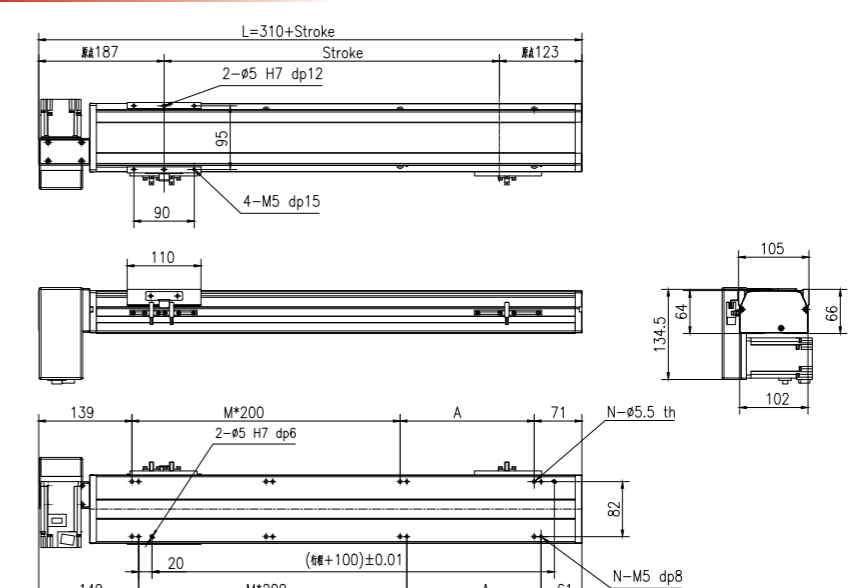
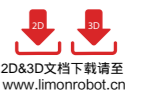
亞標半密式同步帶驅動型 YTO100 Belt Driven Linear Actuator

YTO100-2P-D05



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

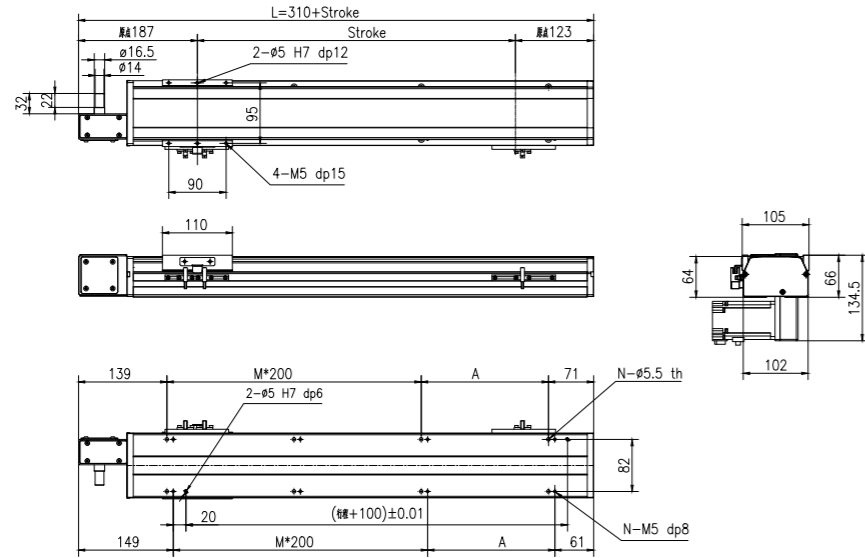
YTO100-2P-D06



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

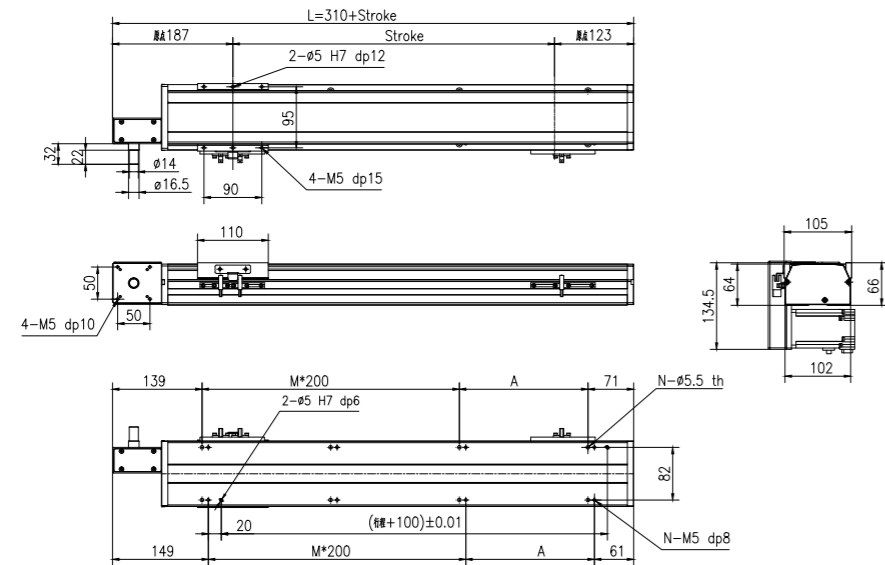
YTO100 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO100-2P-D07



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8
N	12	12	14	14	14	16	16	16	16	18	18	18	18	20	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

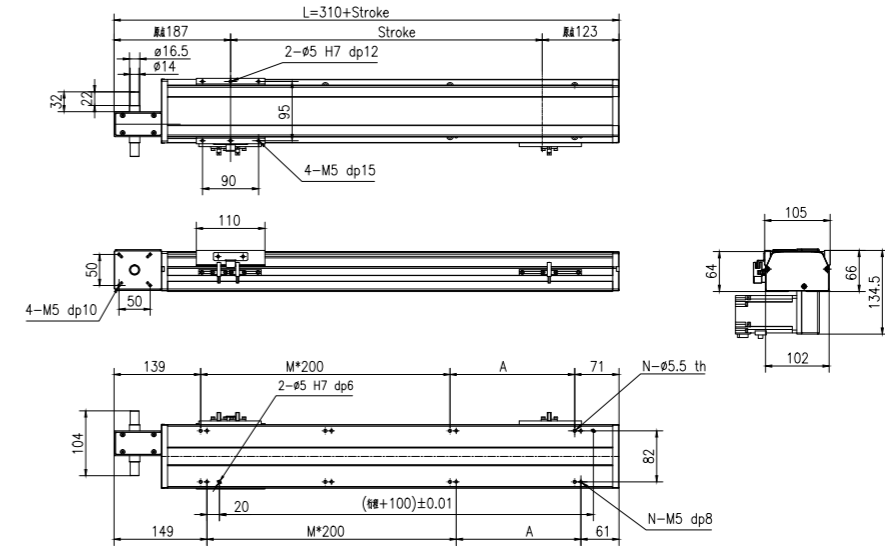
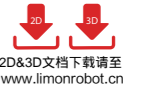
YTO100-2P-D08



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8
N	12	12	14	14	14	16	16	16	16	18	18	18	18	20	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

亞標半密式同步帶驅動型 YTO100 Belt Driven Linear Actuator

YTO100-2P-D09



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8
N	12	12	14	14	14	16	16	16	16	18	18	18	18	20	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

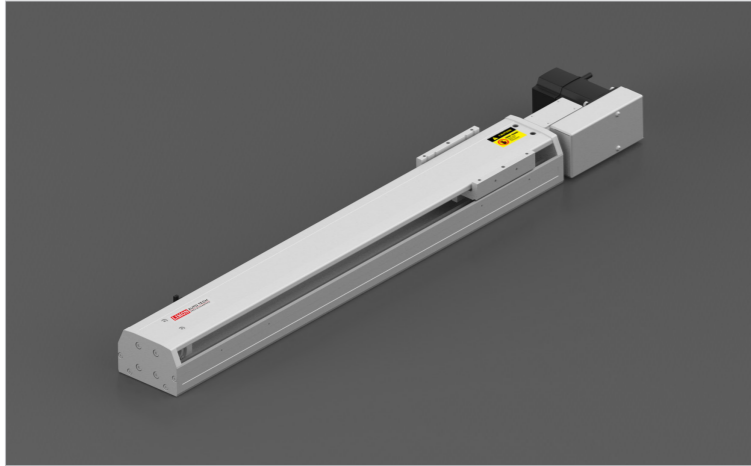
YTO110 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

訂購型號代碼 Code

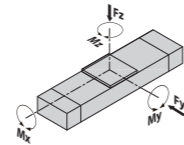
YTO110 - 500 - 4P - D01 - DB - M40 - P3 - A001

本體型號 Item NO.	行程 Stroke 100-1500, 間隔Gap50	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block 未填寫:量滑塊 DB:輔助滑塊	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
YTO110	500	4P	D01	DB	M 三菱 Mitsubishi 10	P1: 1只 1PC	A001
			D02		P 松下 Panasonic 20 200W	P2: 2只 2PCS	
			D03		Y 安川 Yaskawa 40 400W	P3: 3只 3PCS	
			D04		D 台達 Delta 75	未標記, 无	
			D05		1K	No Mark, No Sensor	
			D06				
			D07				
			D08				
			D09				

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩 Max Permissible Forces And Torques

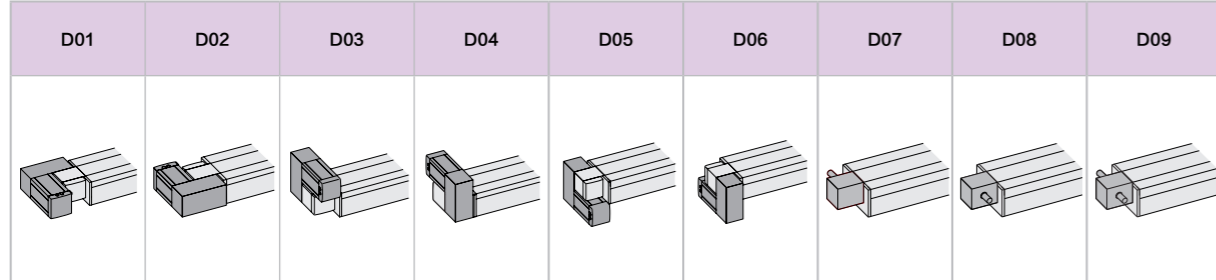


Type	4P
■ F(y) (N)	3427
■ F(z) (N)	3427
■ M(x) (N·m)	98
■ M(y) (N·m)	40
■ M(z) (N·m)	176

除了滿足最大負載和力矩外, 還必須滿足以下公式:
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

YTO110		4P(導軌滑塊數量) Block Quantity
技術參數	位置重複精度 Repetitive Accuracy (mm)	±0.05
	皮帶輪導程 Pulley Lead (mm)	80 /40 #注2#Note2
	皮帶型號 Belt Type	5M-15
	最高速度 Maximum Speed (mm/s)	2000
	最大可搬重量 Maximum Payload	20
Technical Parameters	水平使用Horizontal (kg)	20
	垂直使用Vertical (kg)	10
基本規格	最大空載扭矩 Max. No-load Driving Torque (N·m)	0.3
	最大扭矩 Max. Driving Torque (N·m)	6
	標準行程 Stroke (mm)	100-1550 mm/ 50 Pitch
	AC伺服馬達容量 AC Servo Motor Output (W)	400
	高剛性直線滑軌 Linear Guide (mm)	12# × 2 PCS
Basic Specification	主機剖面最大外形 Max Outline of Main Engine's Cross Section (mm)	102 × 70
	原點感應器 Home Sensor	EE-SX672(NPN)

#注1: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。

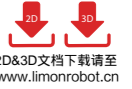
#Note1: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

#注2: 皮帶輪原始導程為80mm, 標準品默認減速機構, 減速後導程為40mm。

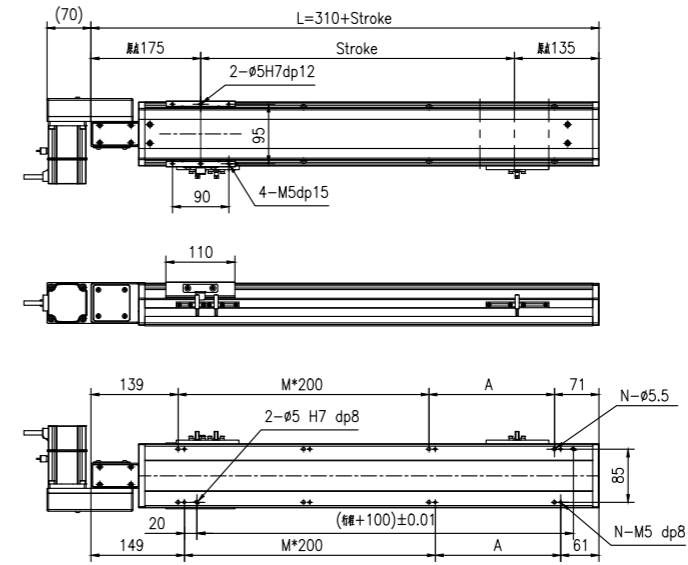
Note 2: Pulley's original lead is 80mm, which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

亞標半密式同步帶驅動型 YTO110 Belt Driven Linear Actuator

YTO110-4P-D01

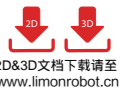


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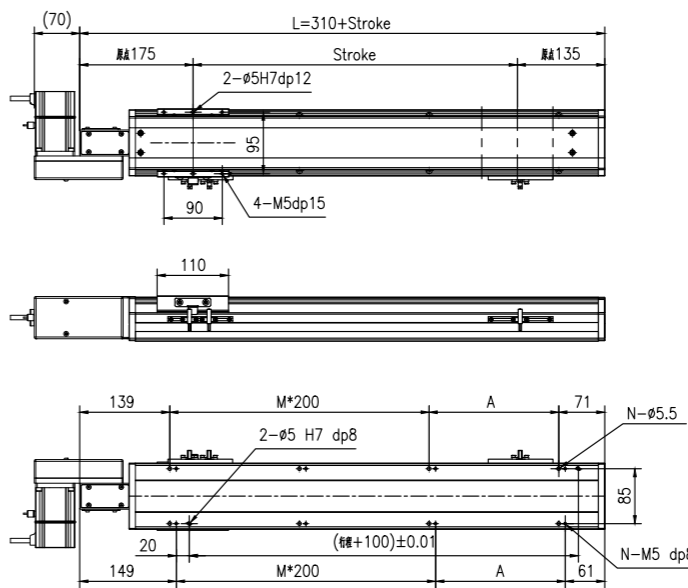


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

YTO110-4P-D02



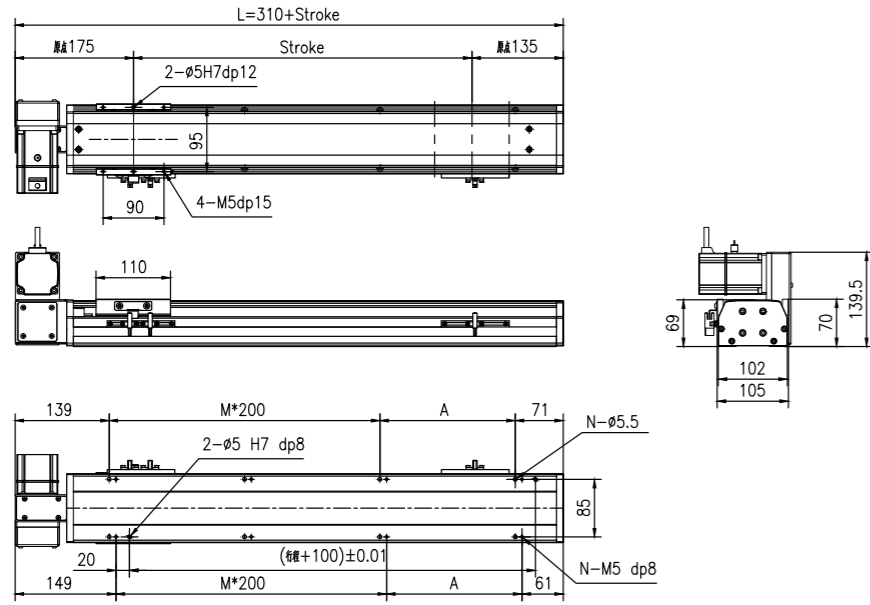
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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

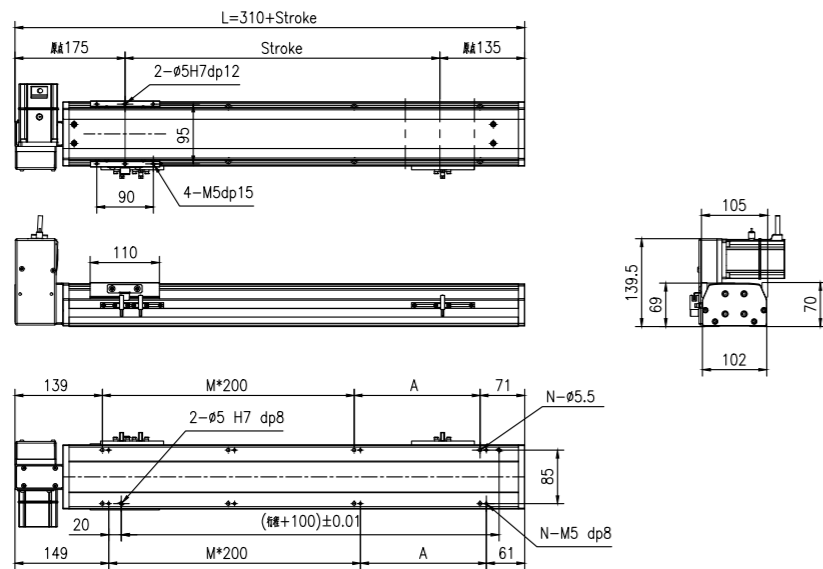
YTO110 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO110-4P-D03



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	7	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

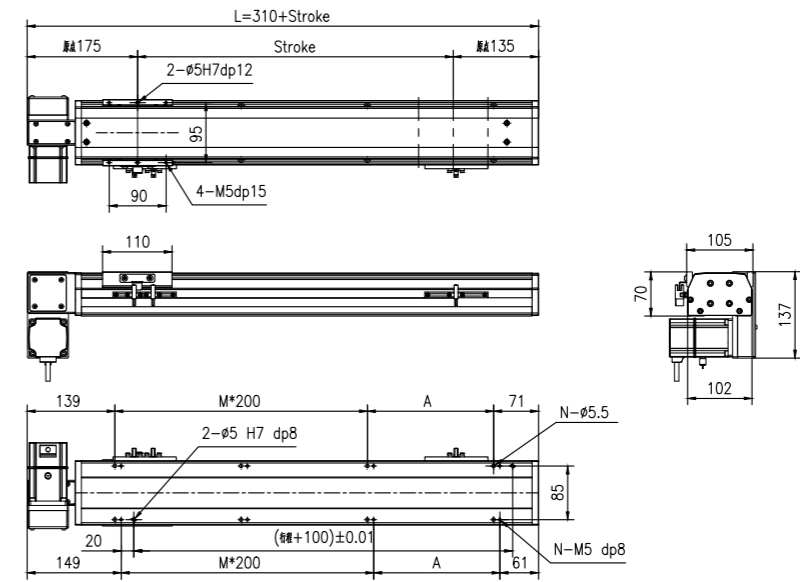
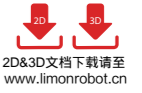
YTO110-4P-D04



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	7	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

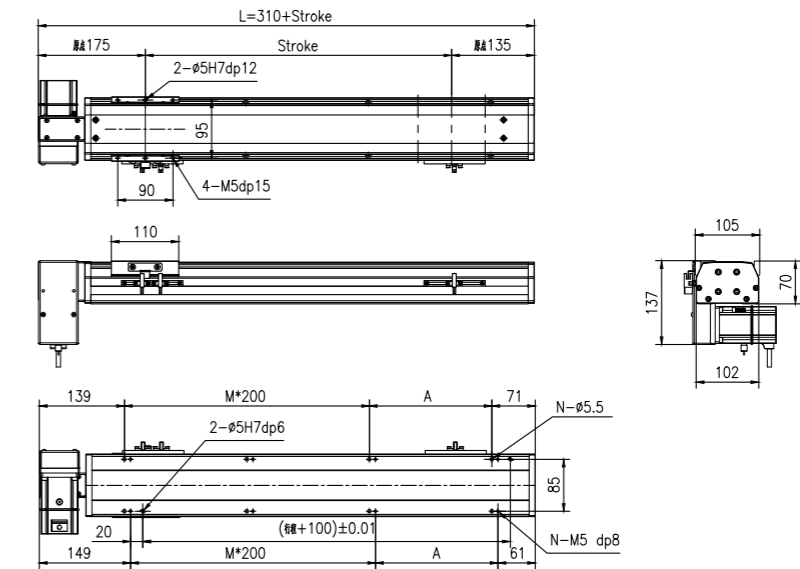
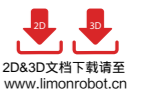
亞標半密式同步帶驅動型 YTO110 Belt Driven Linear Actuator

YTO110-4P-D05



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	7	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

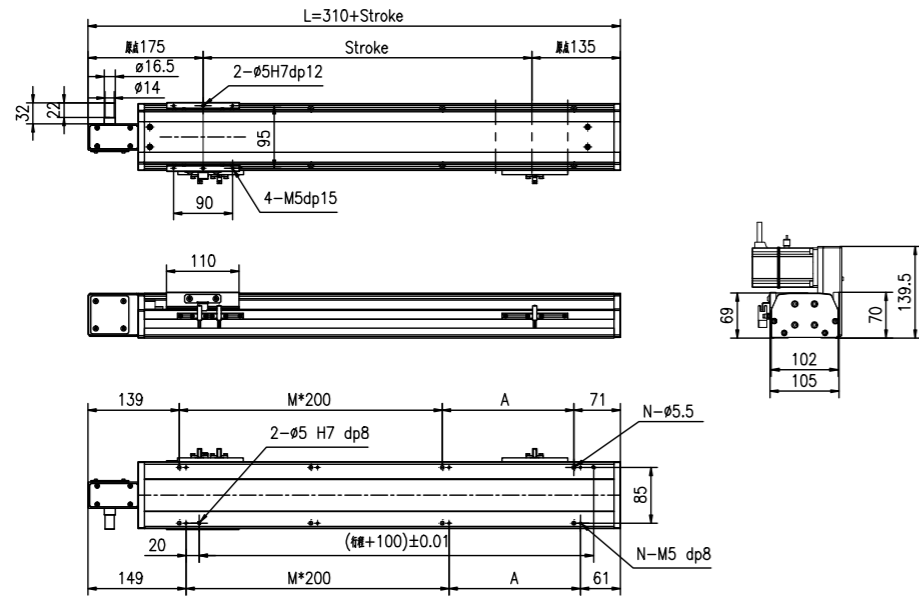
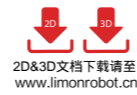
YTO110-4P-D06



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	7	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

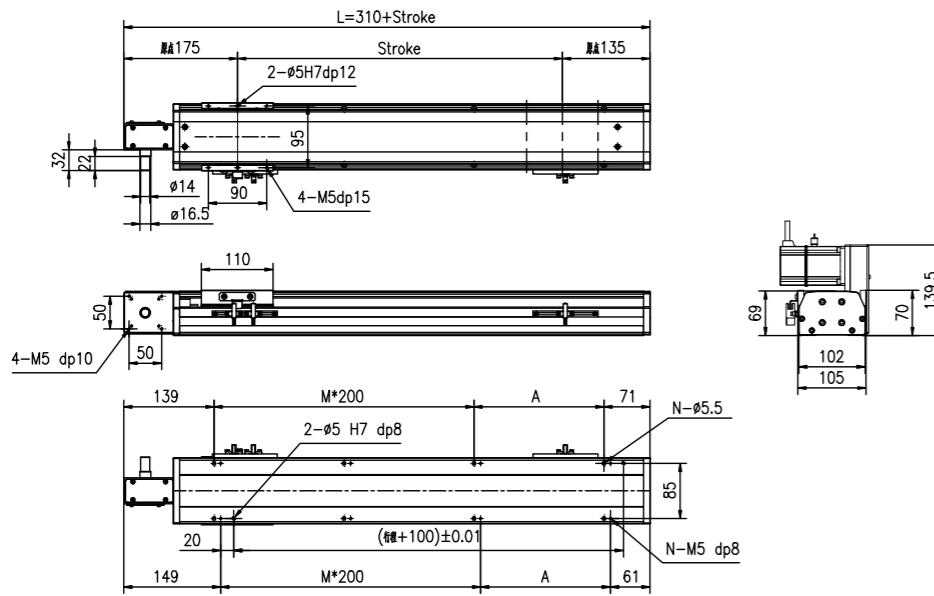
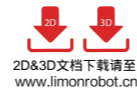
YTO110 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO110-4P-D07



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

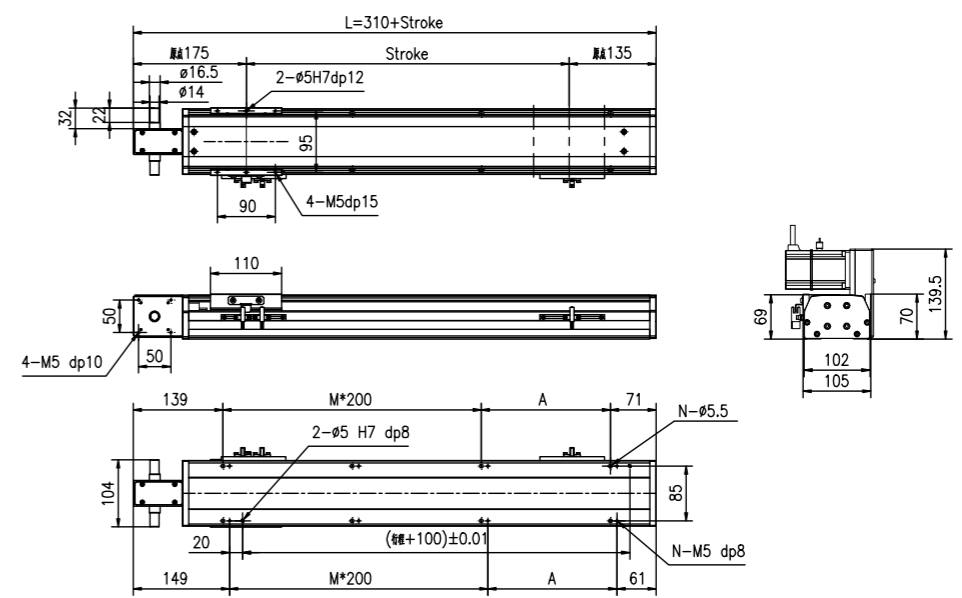
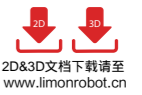
YTO110-4P-D08



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

亞標半密式同步帶驅動型 YTO110 Belt Driven Linear Actuator

YTO110-4P-D09



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9	13.2

GSC Series
KS Series
ITO Series
HTO Series
ITC Series
HTC Series
ITZ Series
YSO Series
YSC Series
YTO Series
YTC Series
Multiaxis system

GSC Series
KS Series
ITO Series
HTO Series
ITC Series
HTC Series
ITZ Series
YSO Series
YSC Series
YTO Series
YTC Series
Multiaxis system

YTO135 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

訂購型號代碼 Code

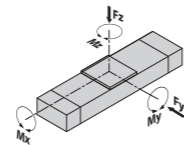
YTO135 - 500 - 4P - D01 - DB - M40 - P3 - A001

本體型號 Item NO.	行程 Stroke 100-4000, 間隔Gap100	直線導軌滑塊數量 Block Quantity 4P	馬達方向 Motor Mounting Positon	輔助滑塊 Auxiliary Block 未填寫:單滑塊 DB:輔助滑塊	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
YTO135	500	4P	D01	DB	M 三菱 Mitsubishi 10	P1: 1只 1PC	A001
			D02		P 松下 Panasonic 20 200W	P2: 2只 2PCS	
			D03		Y 安川 Yaskawa 40 400W	P3: 3只 3PCS	
			D04		D 台達 Delta 75	未標記: 无	
			D05		1K	No Mark: No Sensor	
			D06				
			D07				
			D08				
			D09				

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩 Max Permissible Forces And Torques

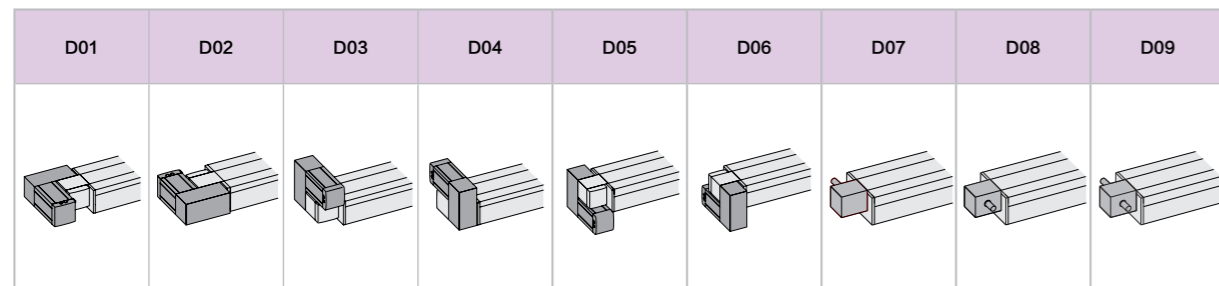


Type	4P
■F(y) (N)	5370
■F(z) (N)	5370
■M(x) (N·m)	142
■M(y) (N·m)	104
■M(z) (N·m)	346

除了滿足最大負載和力矩外，還必須滿足以下公式:
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

YTO135		4P(導軌滑塊數量) Block Quantity
技術參數	位置重複精度 Repetitive Accuracy (mm)	±0.05
	皮帶輪導程 Pulley Lead (mm)	110 / 50 #注2#Note2
	皮帶型號 Belt type	5M-25
	最高速度 Maximum Speed (mm/s)	3000
	最大可搬重量 Maximum Payload	40
Technical Parameters	水平使用Horizontal (kg)	40
	垂直使用Vertical (kg)	12
基本規格	最大空載扭矩 Max. No-load Driving Torque (N·m)	0.3
	最大扭矩 Max. Driving Torque (N·m)	6
	標準行程 Stroke (mm)	100-4000 mm/ 100 Pitch
	AC伺服馬達容量 AC Servo Motor Output (W)	400
	高剛性直線滑軌 Linear Guide (mm)	15# × 2 PCS
Basic Specification	主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	135 × 93
	原點感應器 Home Sensor	EE-SX672(NPN)

#注1: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。

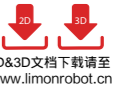
#Note1: Date changes relevently according to different torque and accelarated speed. Please refer to the LIMON calculate software.

#注2: 皮帶輪原始導程為110mm, 標準品默認附減速機構, 減速後導程為50mm。

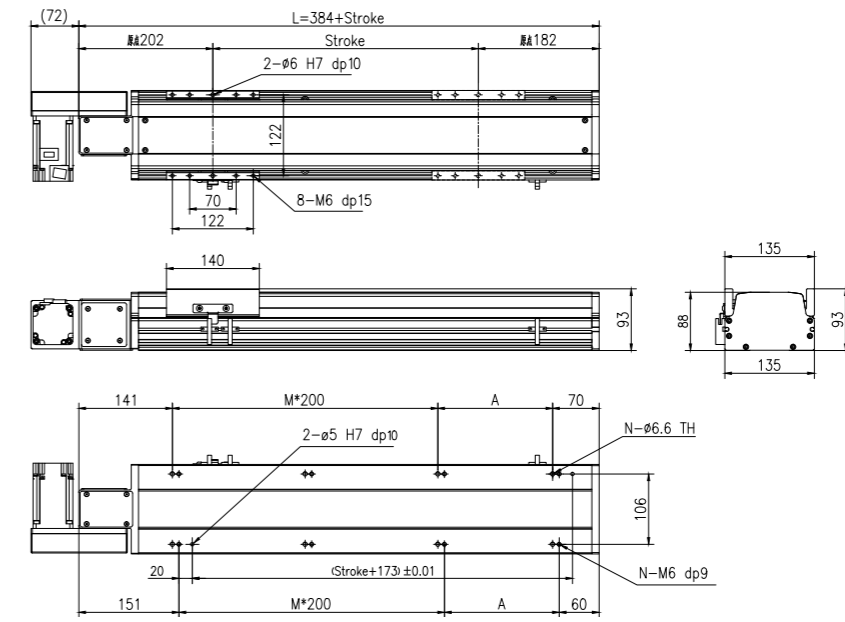
Note 2: Pulley's original lead is 110mm, which standard type is equipped with reduction facility normally, and its lead is 50mm after deceleration.

亞標半密式同步帶驅動型 YTO135 Belt Driven Linear Actuator

YTO135-4P-D01

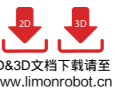


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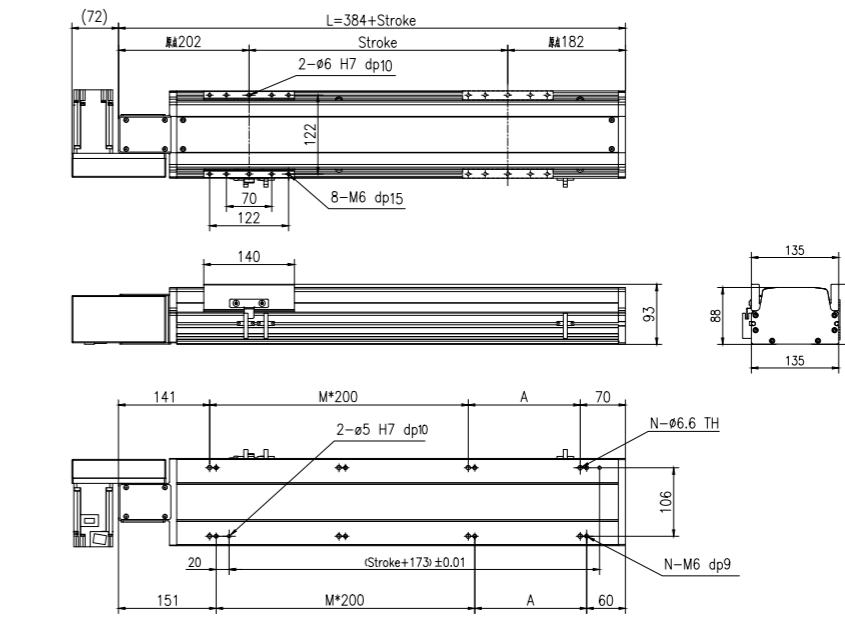


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	273	373	473	573	673	773	873	973	1073	1173	1273	1373	1473	1573	1673	1773	1873	1973
M	1	1	2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

YTO135-4P-D02



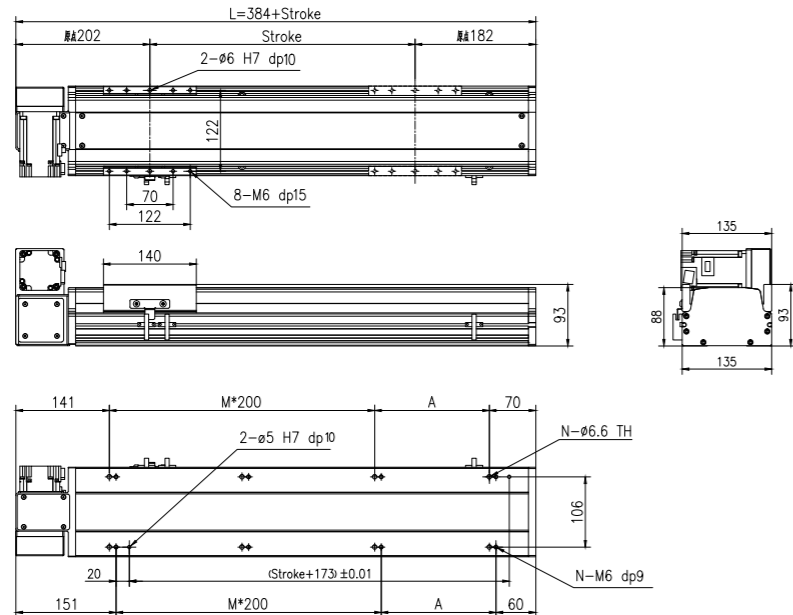
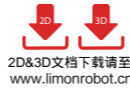
2D&3D文件下載請至
www.limonrobot.cn



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

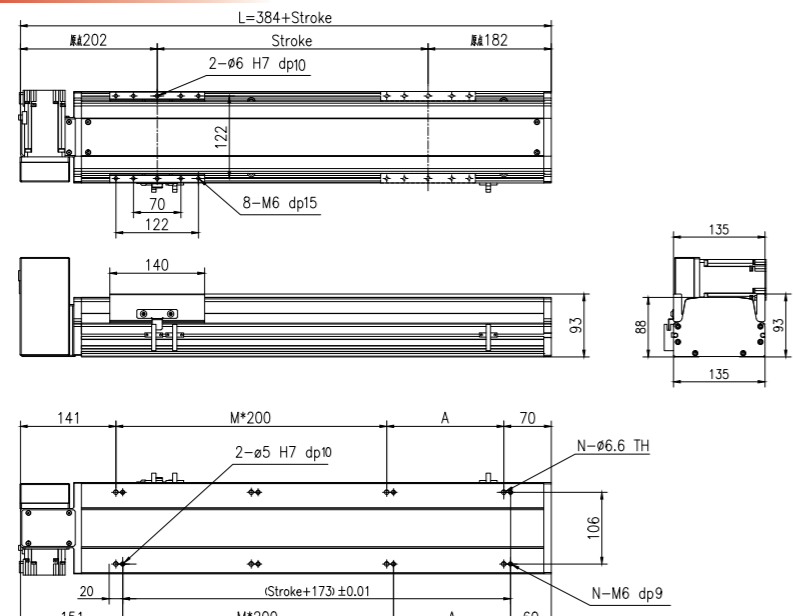
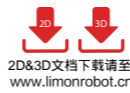
YTO135 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO135-4P-D03



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	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

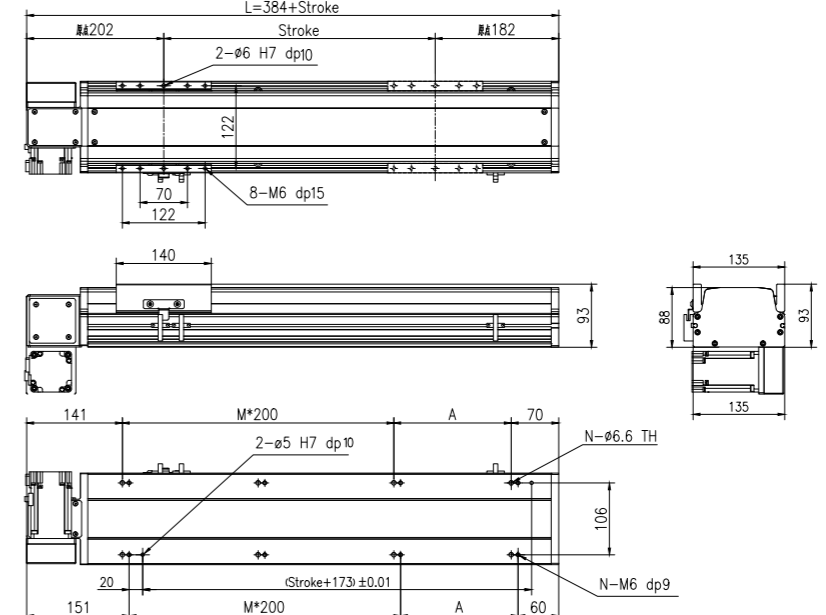
YTO135-4P-D04



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

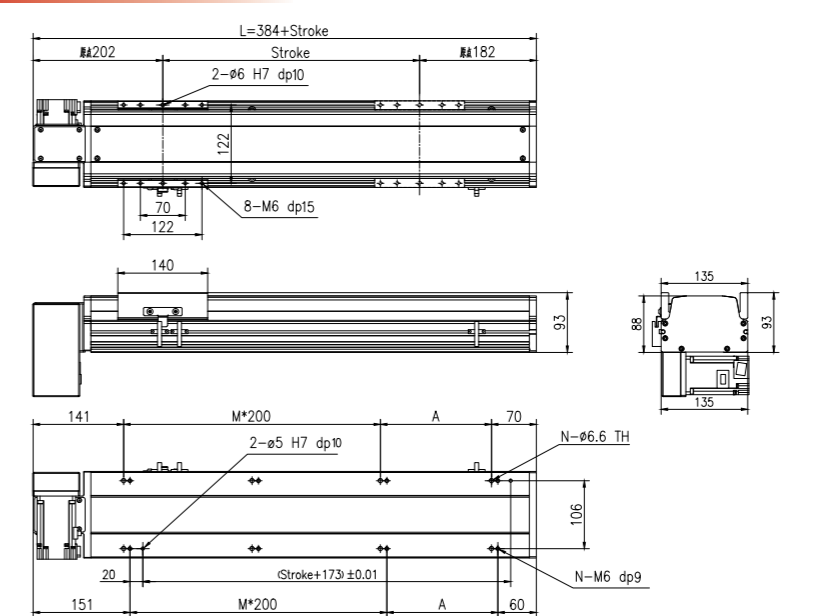
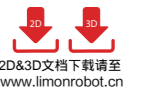
亞標半密式同步帶驅動型 YTO135 Belt Driven Linear Actuator

YTO135-4P-D05



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	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

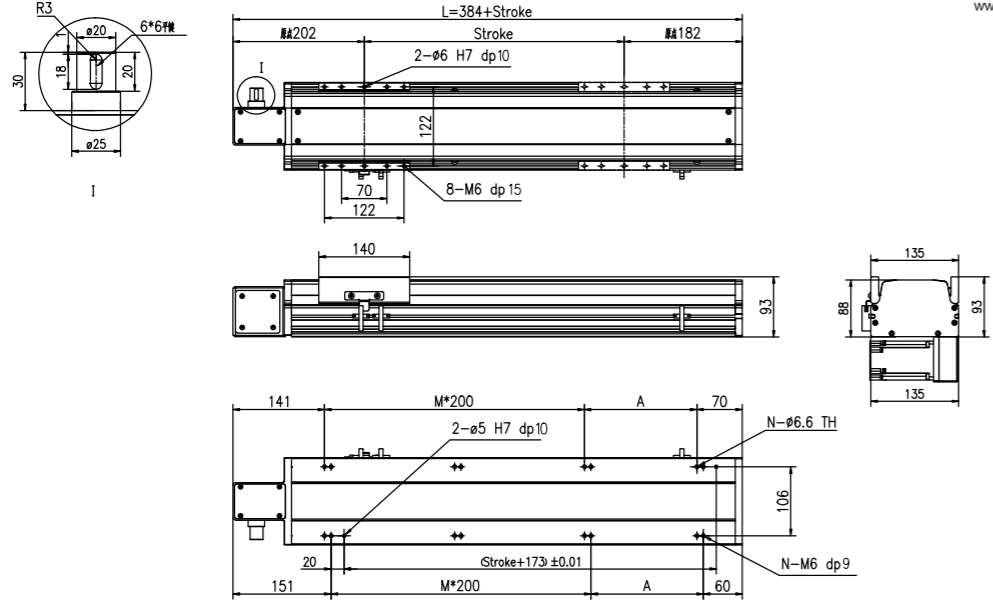
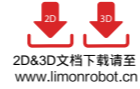


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	1	1	2	2	3	3	4	4	5	5	6	6	7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

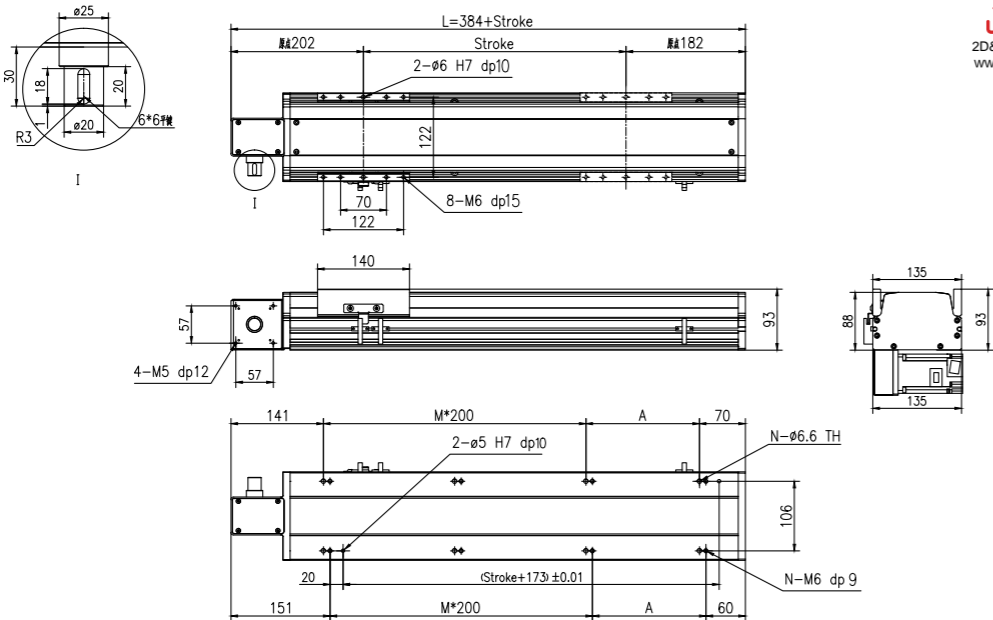
Belt Driven Linear Actuator

YTO135-4P-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	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

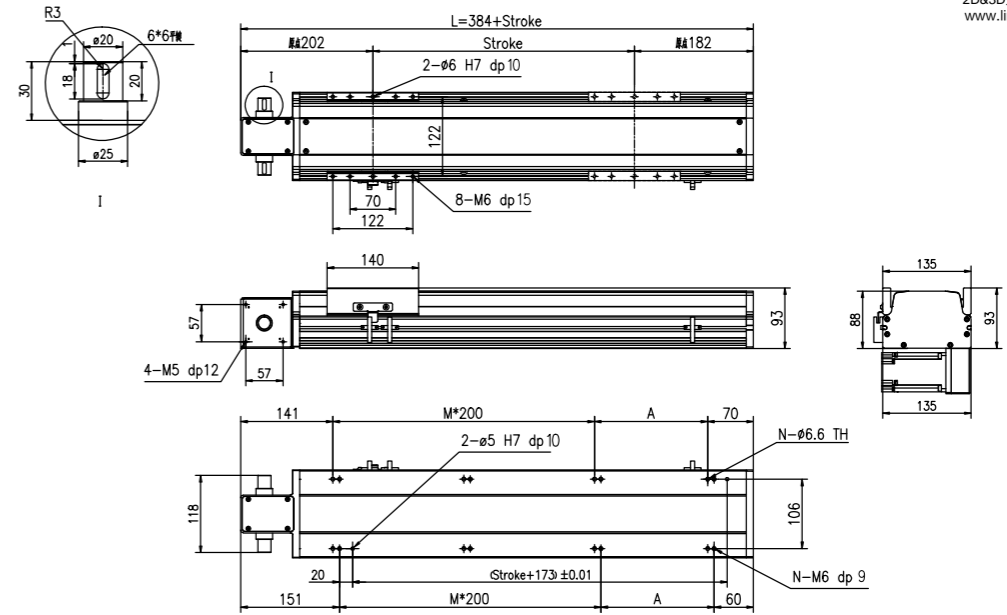
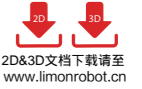


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	1	1	2	2	3	3	4	4	5	5	6	6	7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

亞標半密式同步帶驅動型 YTO135

Belt Driven Linear Actuator

YTO135-4P-D09



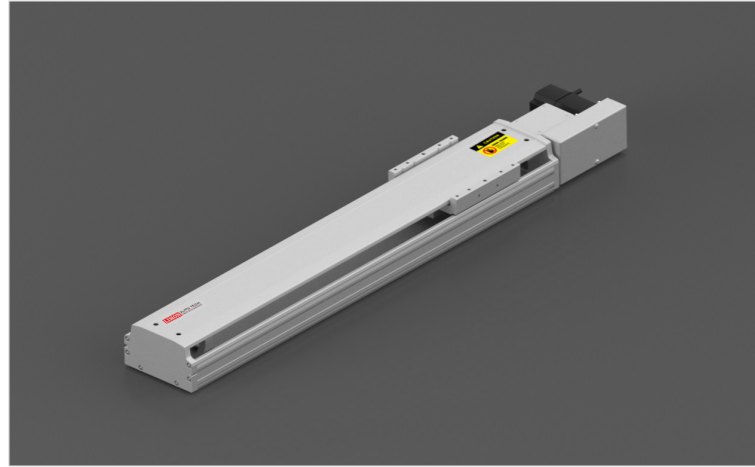
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	1	1	2	2	3	3	4	4	5	5	6	6	7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

YTO135M 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

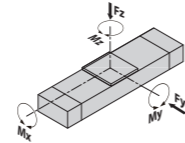
訂購型號代碼 Code

YTO135M	500	4P	D01	DB	M40	P3	A001
本體型號 Item NO.	行程 Stroke 100-2000, 間隔Gap100	直線導軌滑塊數量 Block Quantity 4P	馬達方向 Motor Mounting Position D01-D09	輔助滑塊 Auxiliary Block 未填寫:單滑塊 DB:輔助滑塊	馬達廠牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K -	限位傳感器數量 Photoelectric Sensor P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未标记: 无 NoMark/NoSensor	特注式樣 Special Order No.

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩 Max Permissible Forces And Torques

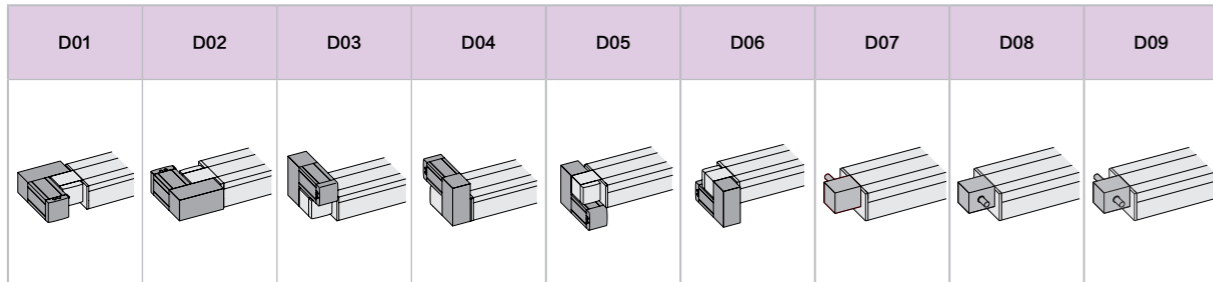


Type	4P
■F(y) (N)	5370
■F(z) (N)	5370
■M(x) (N·m)	142
■M(y) (N·m)	104
■M(z) (N·m)	346

除了滿足最大負載和力矩外, 還必須滿足以下公式:
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



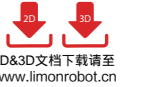
基本規格 Basic Specification

YTO135M		4P(導軌滑塊數量) Block Quantity	
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.05	
	皮帶輪導程 Pulley Lead (mm)	110 / 50 #注2#Note2	
	皮帶型號 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
最大空載扭矩 Max. No-load Driving Torque (N·m)		0.3	
	最大扭矩 Max. Driving Torque (N·m)	6	
基本規格 Basic Specification	標準行程 Stroke (mm)	100-2000 mm/ 100 Pitch	
	AC伺服馬達容量 AC Servo Motor Output (W)	400	
	高剛性直線滑軌 Linear Guide (mm)	15# × 2 PCS	
	主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	135 × 78	
	原點感應器 Home Sensor	EE-SX672(NPN)	

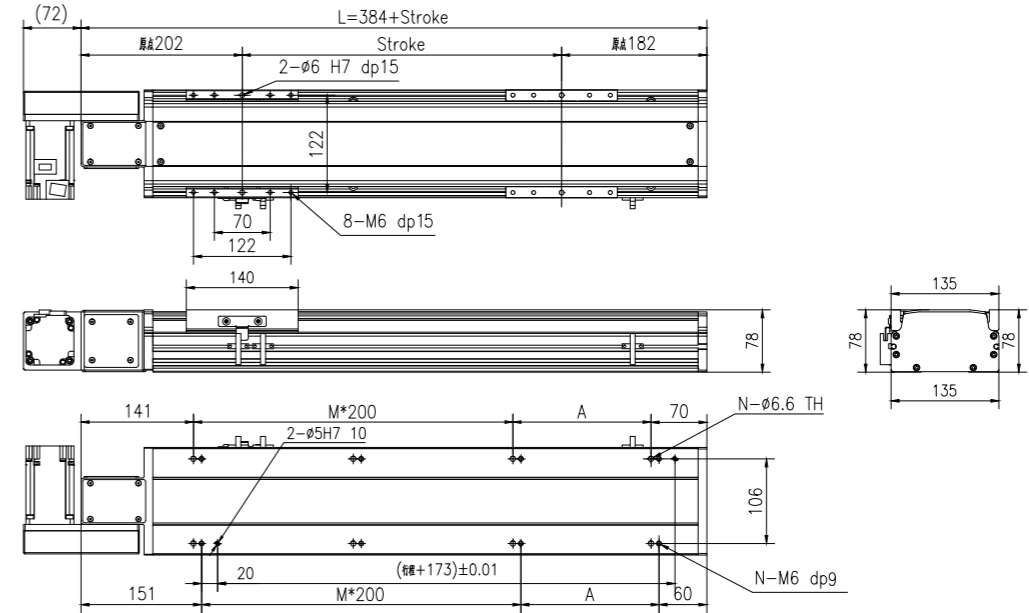
#注1: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。
#Note1: Date changes relevently according to different torque and accelerated speed. Please refer to the LIMON calculate software.
#注2: 皮帶輪原始導程為110mm, 標準品默認附減速機構, 減速後導程為50mm。
Note 2: Pulley's original lead is 110mm, which standard type is equipped with reduction facility normally, and its lead is 50mm after deceleration.

亞標半密式同步帶驅動型 YTO135M Belt Driven Linear Actuator

YTO135M-4P-D01

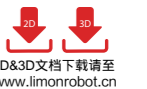


2D&3D文档下载請至 www.limonrobot.cn

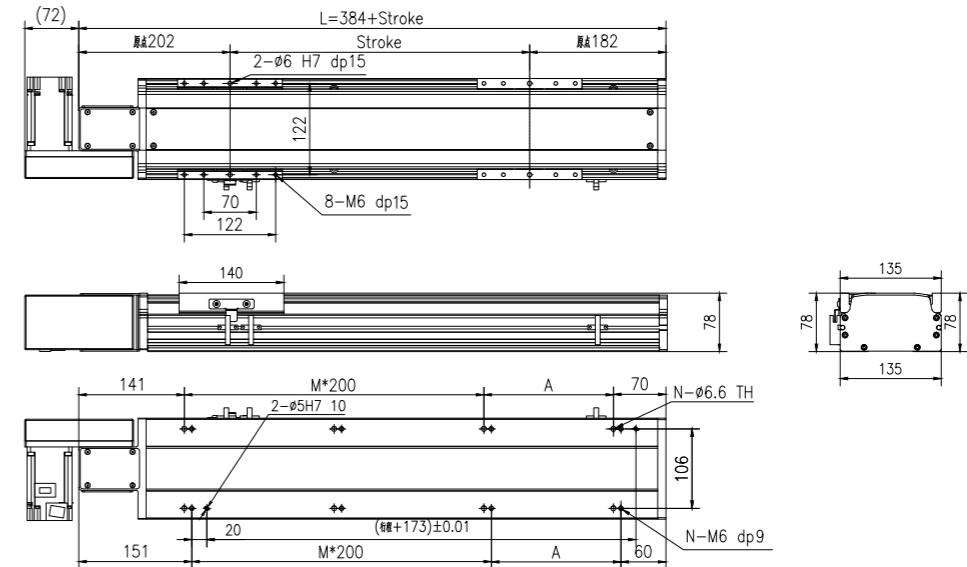


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	14	14	14	14	14	16
重量 Weight (kg)	6.1	6.6	7.0	7.5	8.0	8.5	8.9	9.4	9.9	10.4	10.8	11.3	11.8	12.3	12.7	13.2	13.7	14.2	14.6	15.1
行程 Stroke (mm)	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	
L	1484	1534	1584	1634	1684	1734	1784	1834	1884	1934	1984	2034	2084	2134	2184	2234	2284	2334	2384	
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	
M	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	
N	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	
重量 Weight (kg)	15.6	16.1	16.5	17.0	17.5	18.0	18.4	18.9	19.4	19.9	20.3	20.8	21.3	21.8	22.2	22.7	23.2	23.7	24.1	

YTO135M-4P-D02



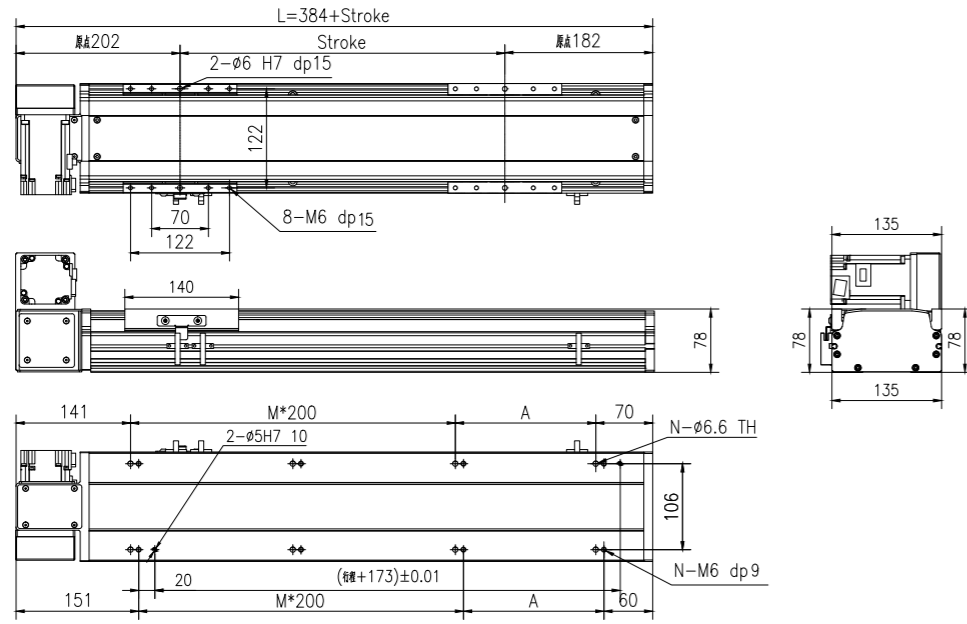
2D&3D文档下载請至 www.limonrobot.cn



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	14	14	14	14	14	16
重量 Weight (kg)	6.1	6.6	7.0	7.5	8.0	8.5	8.9	9.4	9.9	10.4	10.8	11.3	11.8	12.3	12.7	13.2	13.7	14.2	14.6	15.1
行程 Stroke (mm)	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	
L	1484	1534	1584	1634	1684	1734	1784	1834	1884	1934	1984	2034	2084	2134	2184	2234	2284	2334	2384	
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	
M	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	
N	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	
重量 Weight (kg)	15.6	16.1	16.5	17.0	17.5	18.0	18.4	18.9	19.4	19.9	20.3	20.8	21.3	21.8	22.2	22.7	23.2	23.7	24.1	

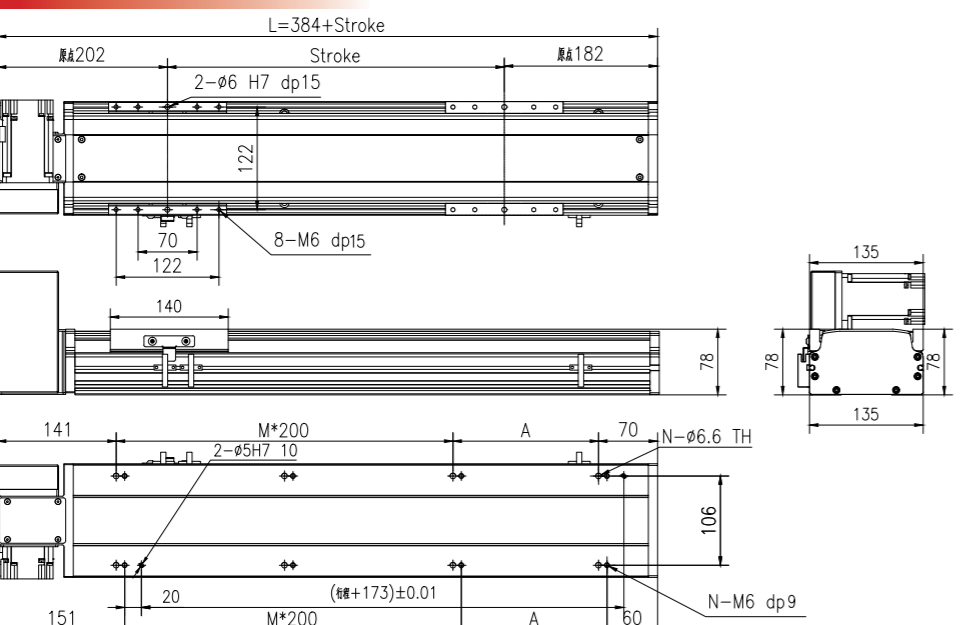
YTO135M 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO135M-4P-D03



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	14	14	14	14	14	16
重量 Weight (kg)	6.1	6.6	7.0	7.5	8.0	8.5	8.9	9.4	9.9	10.4	10.8	11.3	11.8	12.3	12.7	13.2	13.7	14.2	14.6	15.1
行程 Stroke (mm)	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	
L	1484	1534	1584	1634	1684	1734	1784	1834	1884	1934	1984	2034	2084	2134	2184	2234	2284	2334	2384	2434
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023
M	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	10
N	16	16	16	18	18	18	18	20	20	20	20	22	22	22	24	24	24	24	24	24
重量 Weight (kg)	15.6	16.1	16.5	17.0	17.5	18.0	18.4	18.9	19.4	19.9	20.3	20.8	21.3	21.8	22.2	22.7	23.2	23.7	24.1	24.6

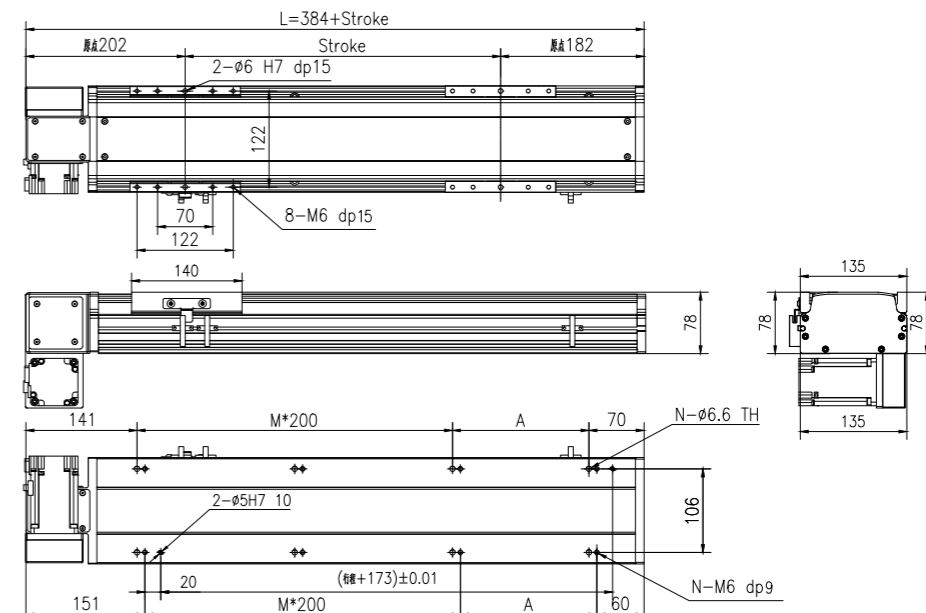
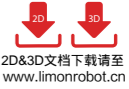
YTO135M-4P-D04



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	14	14	14	14	14	16
重量 Weight (kg)	6.1	6.6	7.0	7.5	8.0	8.5	8.9	9.4	9.9	10.4	10.8	11.3	11.8	12.3	12.7	13.2	13.7	14.2	14.6	15.1
行程 Stroke (mm)	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	
L	1484	1534	1584	1634	1684	1734	1784	1834	1884	1934	1984	2034	2084	2134	2184	2234	2284	2334	2384	2434
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023
M	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	10
N	16	16	16	18	18	18	18	20	20	20	20	22	22	22	24	24	24	24	24	24
重量 Weight (kg)	15.6	16.1	16.5	17.0	17.5	18.0	18.4	18.9	19.4	19.9	20.3	20.8	21.3	21.8	22.2	22.7	23.2	23.7	24.1	24.6

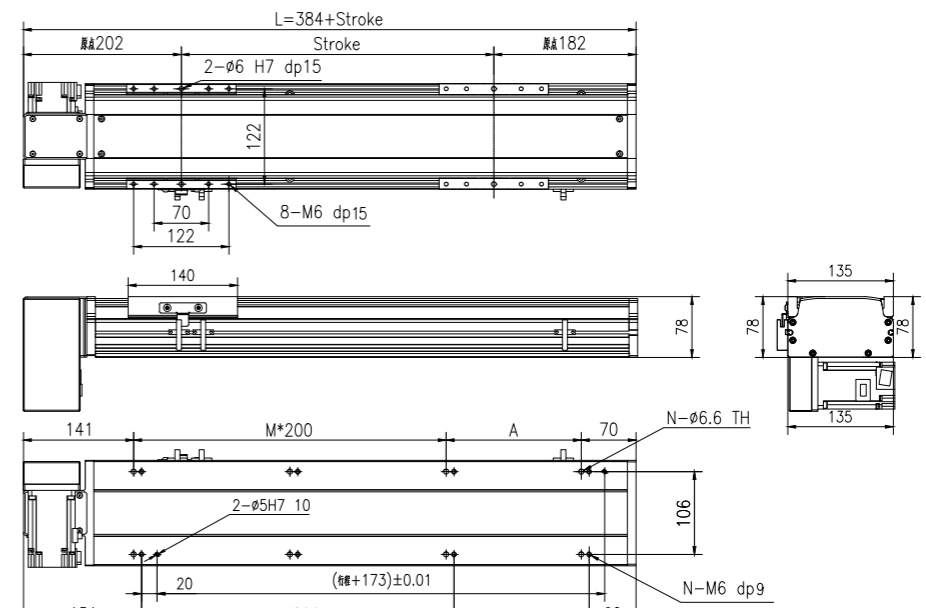
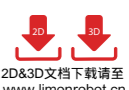
亞標半密式同步帶驅動型 YTO135M Belt Driven Linear Actuator

YTO135M-4P-D05



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	14	14	14	14	14	16
重量 Weight (kg)	6.1	6.6	7.0	7.5	8.0	8.5	8.9	9.4	9.9	10.4	10.8	11.3	11.8	12.3	12.7	13.2	13.7	14.2	14.6	15.1
行程 Stroke (mm)	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	
L	1484	1534	1584	1634	1684	1734	1784	1834	1884	1934	1984	2034	2084	2134	2184	2234	2284	2334	2384	2434
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023
M	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	10
N	16	16	16	18	18	18	18	20	20	20	20	22	22	22	24	24	24	24	24	24
重量 Weight (kg)	15.6	16.1	16.5	17.0	17.5	18.0	18.4	18.9	19.4	19.9	20.3	20.8	21.3	21.8	22.2	22.7	23.2	23.7	24.1	24.6

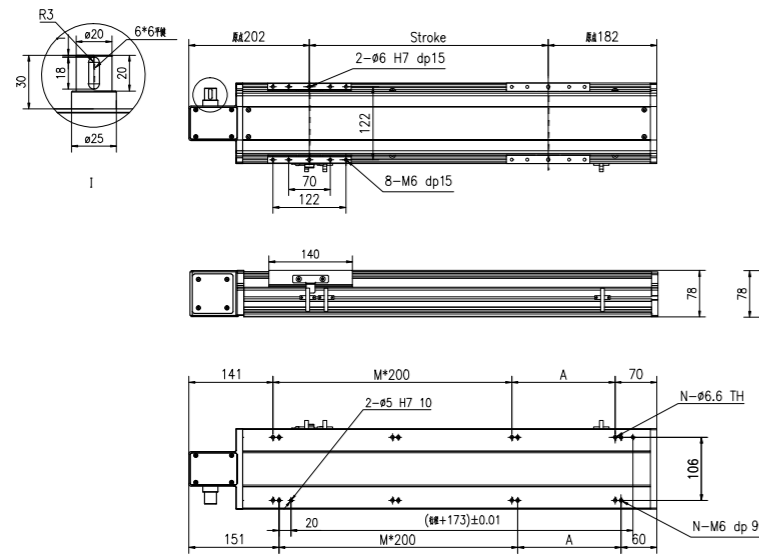
YTO135M-4P-D06



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	14	14	14	14	14	16
重量 Weight (kg)	6.1	6.6	7.0	7.5	8.0	8.5	8.9	9.4	9.9	10.4	10.8	11.3	11.8	12.3	12.7	13.2	13.7	14.2	14.6	15.1
行程 Stroke (mm)	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	
L	1484	1534	1584	1634	1684	1734	1784	1834	1884	1934	1984	2034	2084	2134	2184	2234	2284	2334	2384	2434
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023
M	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	10
N	16	16	16	18	18	18	18	20	20	20	20	22	22	22	24	24	24	24	24	24
重量 Weight (kg)	15.6	16.1	16.5	17.0	17.5	18.0	18.4	18.9	19.4	19.9	20.3	20.8	21.3	21.8	22.2	22.7	23.2	23.7	24.1	24.6

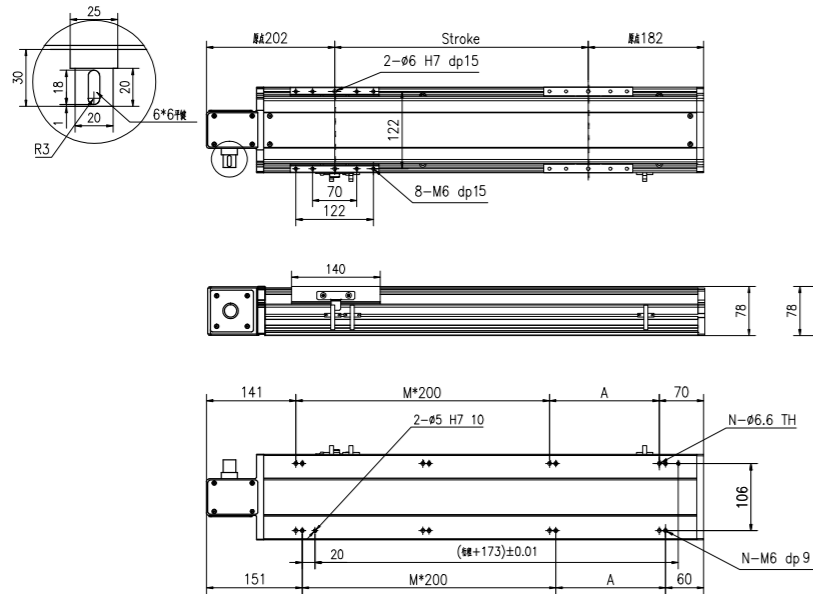
YTO135M 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO135M-4P-D07



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023
M	1	1	1	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	5	6
N	6	6	6	8	8	8	10	10	10	10	12	12	12	14	14	14	14	14	14	16
重量 Weight (kg)	6.1	6.6	7.0	7.5	8.0	8.5	8.9	9.4	9.9	10.4	10.8	11.3	11.8	12.3	12.7	13.2	13.7	14.2	14.6	15.1
行程 Stroke (mm)	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	
L	1484	1534	1584	1634	1684	1734	1784	1834	1884	1934	1984	2034	2084	2134	2184	2234	2284	2334	2384	
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	
M	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	10	10	10	10	
N	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	24	24	24	24	
重量 Weight (kg)	15.6	16.1	16.5	17.0	17.5	18.0	18.4	18.9	19.4	19.9	20.3	20.8	21.3	21.8	22.2	22.7	23.2	23.7	24.1	

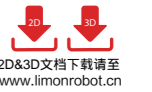
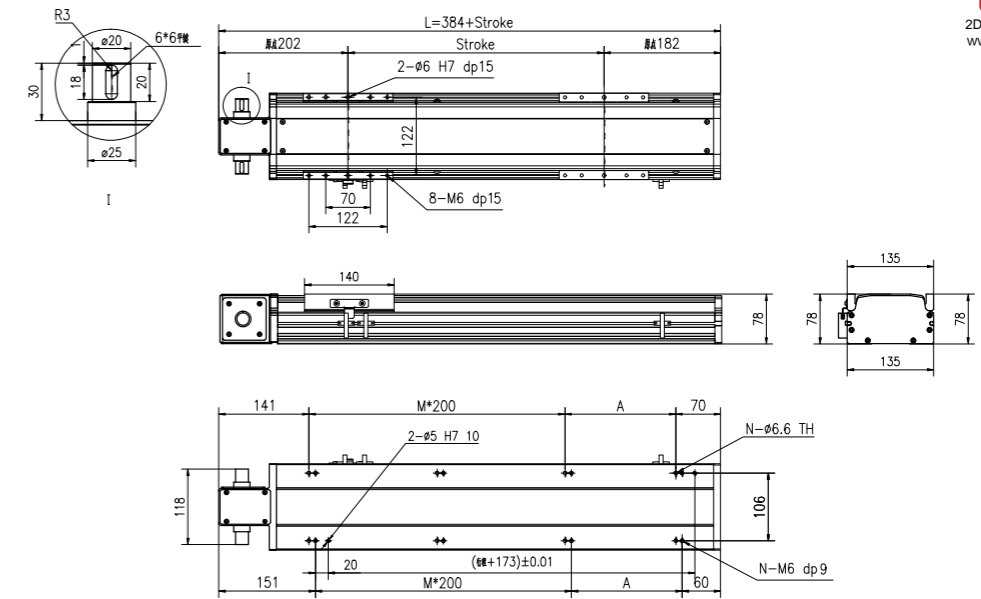
YTO135M-4P-D08



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023
M	1	1	1	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	5	6
N	6	6	6	8	8	8	10	10	10	10	12	12	12	14	14	14	14	14	14	16
重量 Weight (kg)	6.1	6.6	7.0	7.5	8.0	8.5	8.9	9.4	9.9	10.4	10.8	11.3	11.8	12.3	12.7	13.2	13.7	14.2	14.6	15.1
行程 Stroke (mm)	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	
L	1484	1534	1584	1634	1684	1734	1784	1834	1884	1934	1984	2034	2084	2134	2184	2234	2284	2334	2384	
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	
M	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	10	10	10	10	
N	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	24	24	24	24	
重量 Weight (kg)	15.6	16.1	16.5	17.0	17.5	18.0	18.4	18.9	19.4	19.9	20.3	20.8	21.3	21.8	22.2	22.7	23.2	23.7	24.1	

亞標半密式同步帶驅動型 YTO135M Belt Driven Linear Actuator

YTO135M-4P-D09



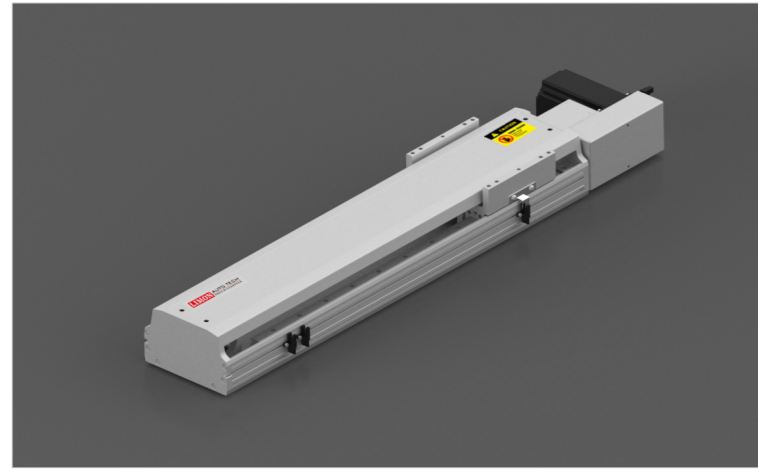
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023
M	1	1	1	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	5	6
N	6	6	6	8	8	8	10	10	10	10	12	12	12	14	14	14	14	14	14	16
重量 Weight (kg)	6.1	6.6	7.0	7.5	8.0	8.5	8.9	9.4	9.9	10.4	10.8	11.3	11.8	12.3	12.7	13.2	13.7	14.2	14.6	15.1
行程 Stroke (mm)	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	
L	1484	1534	1584	1634	1684	1734	1784	1834	1884	1934	1984	2034	2084	2134	2184	2234	2284	2334	2384	
A	73	123	173	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	
M	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	10	10	10	10	
N	16	16	16	18	18	18	20	20	20	22	22	22	24	24	24	24	24	24	24	
重量 Weight (kg)	15.6	16.1	16.5	17.0	17.5	18.0	18.4	18.9	19.4	19.9	20.3	20.8	21.3	21.8	22.2	22.7	23.2	23.7	24.1	

YTO 170 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

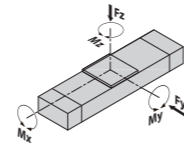
訂購型號代碼 Code

YTO170	500	4P	D01	DB	M40	P3	A001
本體型號 Item NO.	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand、Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
	100-3050, 間隔Gap50	4P	D01 D02 D03 D04 D05 D06 D07 D08 D09	未填寫: 單滑塊 印出: 輔助滑塊	M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K -	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未標記: 无 No Mark/No Sensor	

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩 Max Permissible Forces And Torques

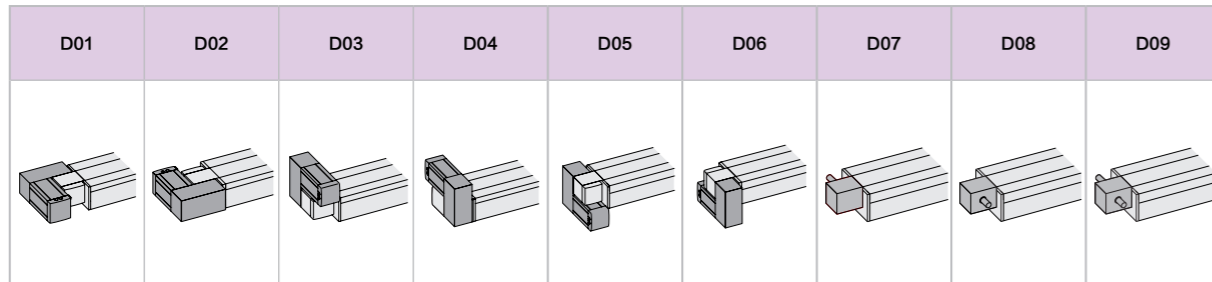


Type	4P
■F(y) (N)	7463
■F(z) (N)	7463
■M(x) (N·m)	339
■M(y) (N·m)	178
■M(z) (N·m)	742

除了滿足最大負載和力矩外，還必須滿足以下公式:
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

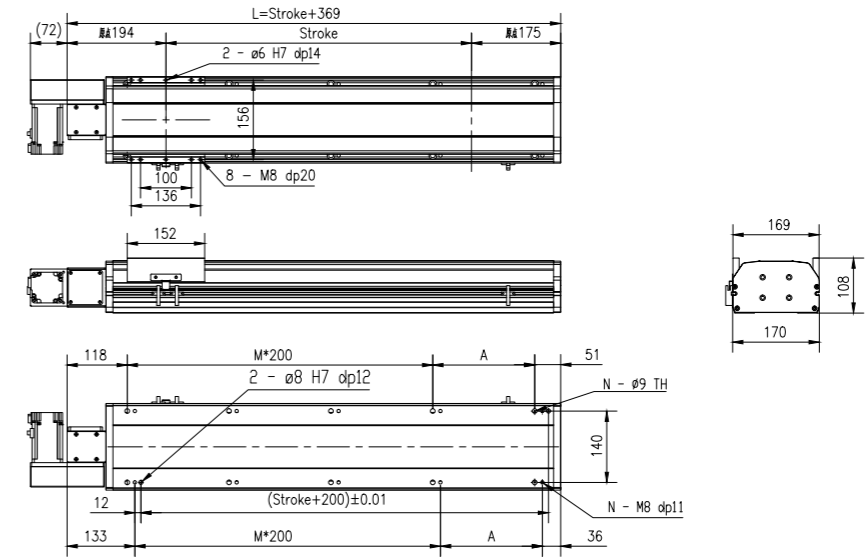
YTO 170		4P(導軌滑塊數量) Block Quantity
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	± 0.05
	皮帶輪導程 Pulley Lead (mm)	100 / 40 #注2#Note2
	皮帶型號 Belt type	5M-30
	最高速度 Maximum Speed (mm/s)	2400
	最大可搬重量 Maximum Payload	45 *注1*Note1 水平使用Horizontal (kg) 垂直使用Vertical (kg)
基本規格 Basic Specification	最大空載扭矩 Max. No-load Driving Torque (N·m)	0.3
	最大扭矩 Max. Driving Torque (N·m)	6
	標準行程 Stroke (mm)	100-4000 mm / 100 Pitch
	AC伺服馬達容量 AC Servo Motor Output (W)	400
	高剛性直線滑軌 Linear Guide (mm)	20# × 2 PCS
皮帶寬度 Belt Width	30	
主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	170 × 108	
原點感應器 Home Sensor	EE-SX672(NPN)	

#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note1: Date changes relevently according to different torque and acclerated speed. Please refer to the LIMON calculate software.
#注2: 皮帶輪原始導程為100mm，標準品默認附減速機構，減速後導程為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.

亞標半密式同步帶驅動型 YTO 170 Belt Driven Linear Actuator

YTO170-4P-D01

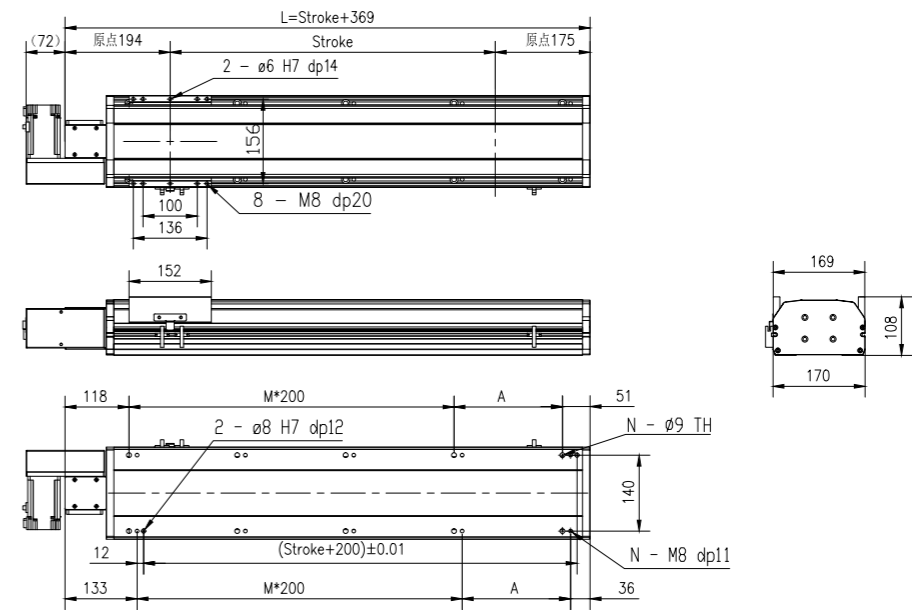
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100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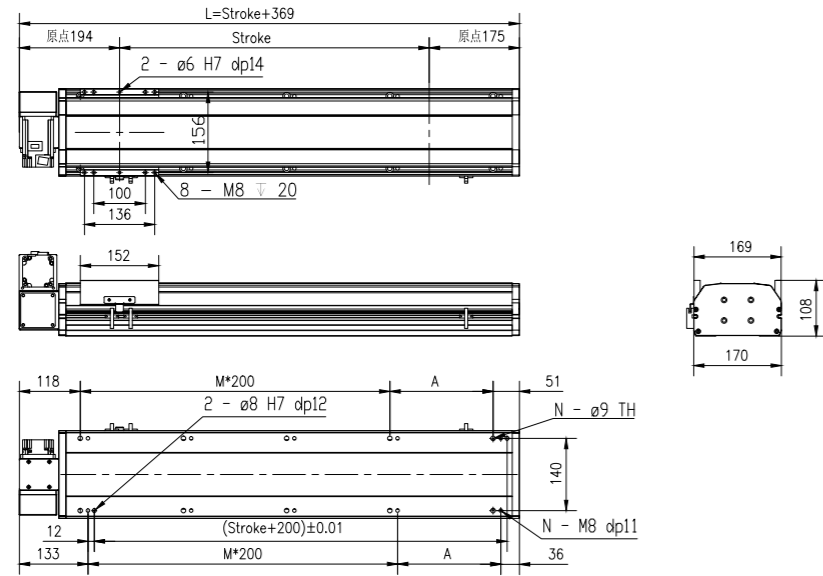


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4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

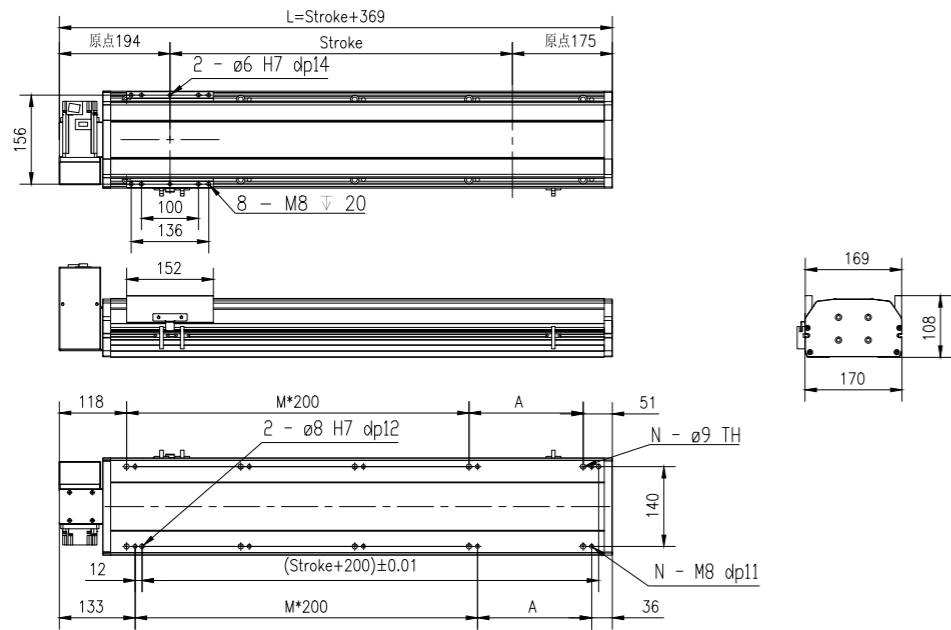
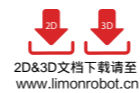
Belt Driven Linear Actuator

YTO170-4P-D03



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

YTO170-4P-D04

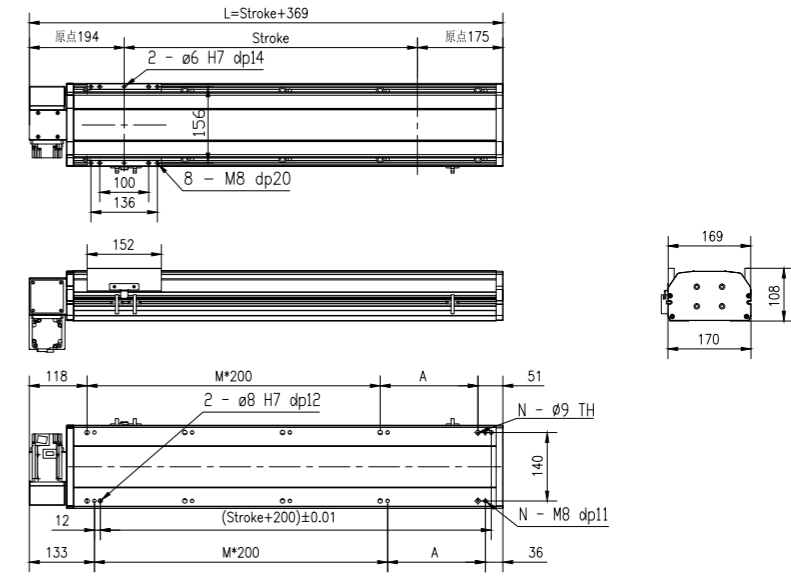
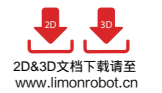


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4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

亞標半密式同步帶驅動型 YTO 170

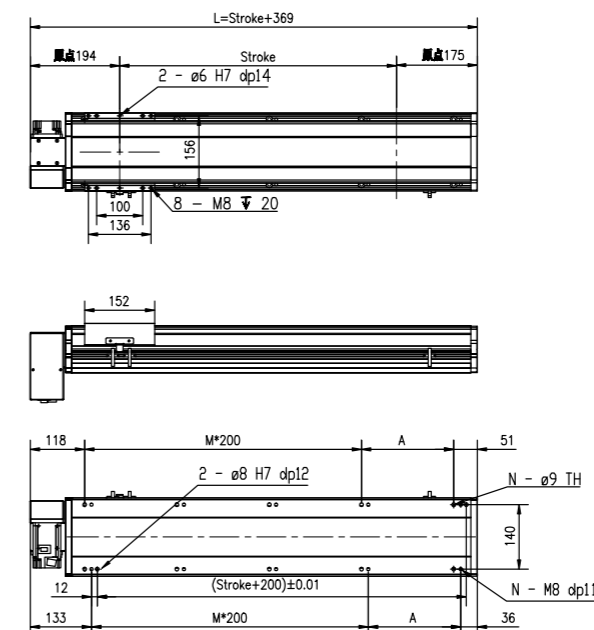
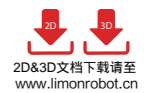
Belt Driven Linear Actuator

YTO170-4P-D05



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

YTO170-4P-D06

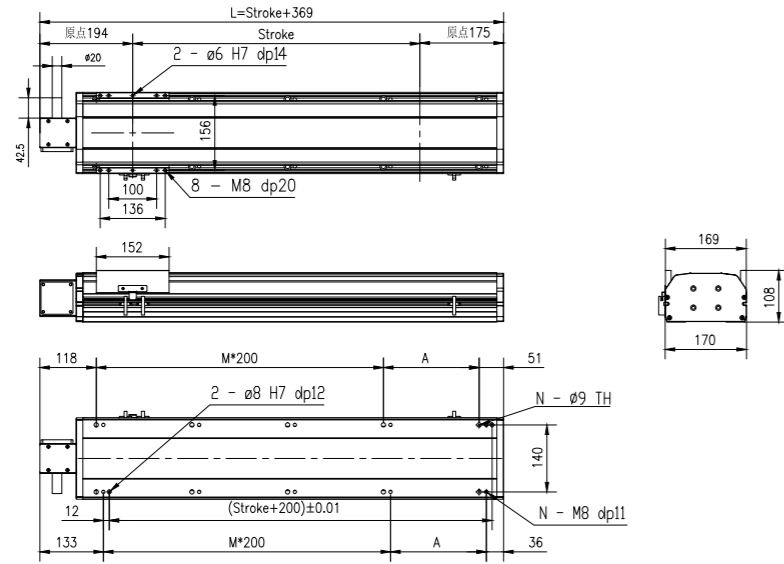


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4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

YTO 170 亞標半密式同步帶驅動型

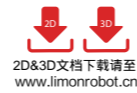
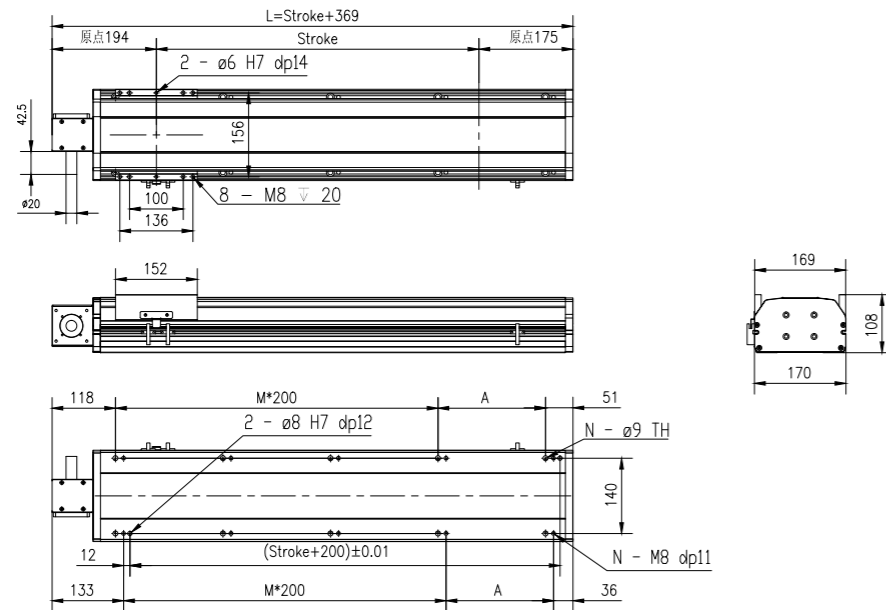
Belt Driven Linear Actuator

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

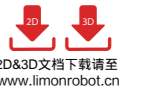
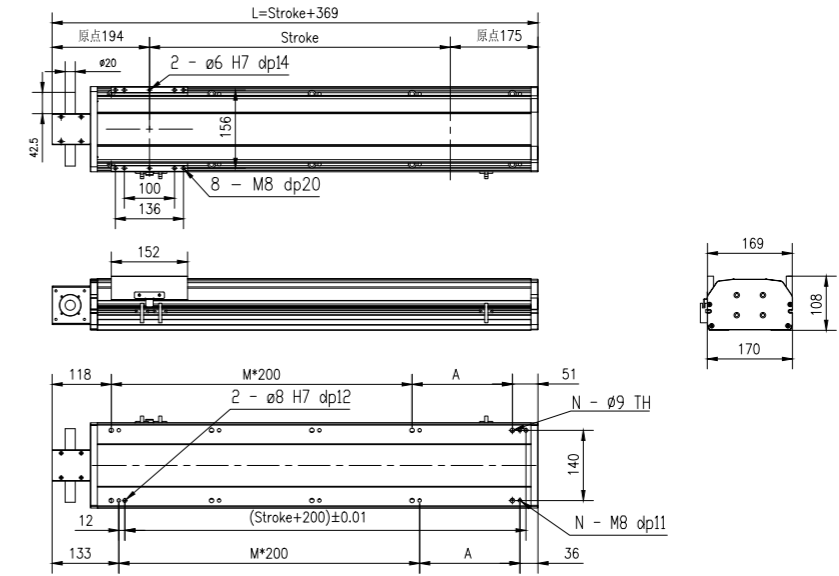


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4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

亞標半密式同步帶驅動型 YTO 170

Belt Driven Linear Actuator

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 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

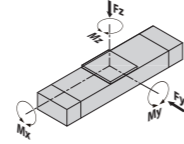
訂購型號代碼 Code

YTO220	500	4P	D01	DB	M75	P3	A001
本體型號 Item NO.	行程 Stroke 100-4050, 間隔Gap50	直線導軌滑塊數量 Block Quantity 4P	馬達方向 Motor Mounting Position D01 D02 D03 D04 D05 D06 D07 D08 D09	輔助滑塊 Auxiliary Block 未填寫: 單滑塊 DB: 輔助滑塊	馬達廠牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 - Y 安川 Yaskawa 40 - D 台達 Delta 75 750W 1K -	限位傳感器數量 Photoelectric Sensor P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未標記: 无 No Mark/No Sensor	特注式樣 Special Order No.

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩 Max Permissible Forces And Torques

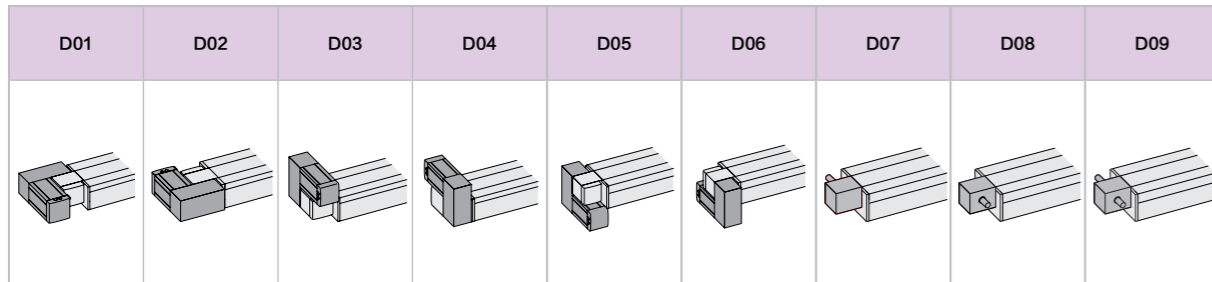


Type	4P
■F(y) (N)	10333.3
■F(z) (N)	10333.3
■M(x) (N·m)	2052
■M(y) (N·m)	2052
■M(z) (N·m)	1810

除了滿足最大負載和力矩外，還必須滿足以下公式:
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

YTO 220		4P(導軌滑塊數量) Block Quantity
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.05
	皮帶輪導程 Pulley Lead (mm)	100 / 40 #注2#Note2
	皮帶型號 Belt type	5M-50
	最高速度 Maximum Speed (mm/s)	2400
	最大可搬重量 Maximum Payload	90
最大空載扭距 Max. No-load Driving Torque (N·m)	水平使用Horizontal (kg)	40
	垂直使用Vertical (kg)	40
基本規格 Basic Specification	最大空載扭距 Max. No-load Driving Torque (N·m)	0.3
	最大扭距 Max. Driving Torque (N·m)	6
	標準行程 Stroke (mm)	100-4050 mm/ 100 Pitch
	AC伺服馬達容量 AC Servo Motor Output (W)	750
	高剛性直線滑軌 Linear Guide (mm)	25# × 2 PCS
	皮帶寬度 Belt Width	50
主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)		230 × 134
	原點感應器 Home Sensor	EE-SX672(NPN)

#注1: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。

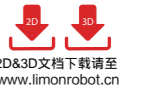
#Note1: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

#注2: 皮帶輪原始導程為100mm, 標準品默認減速機構, 減速後導程為40mm。

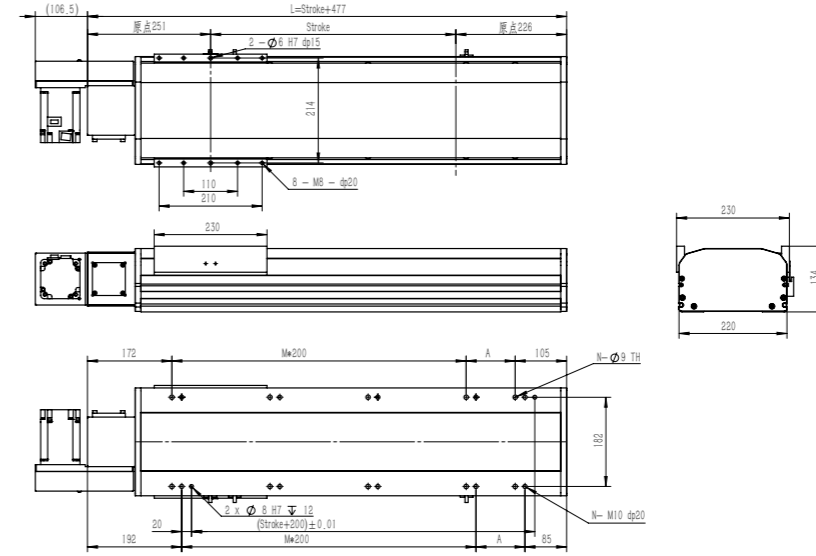
#Note 2: Pulley's original lead is 100mm, which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

亞標半密式同步帶驅動型 YTO 220 Belt Driven Linear Actuator

YTO220-D01

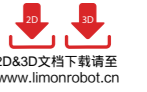


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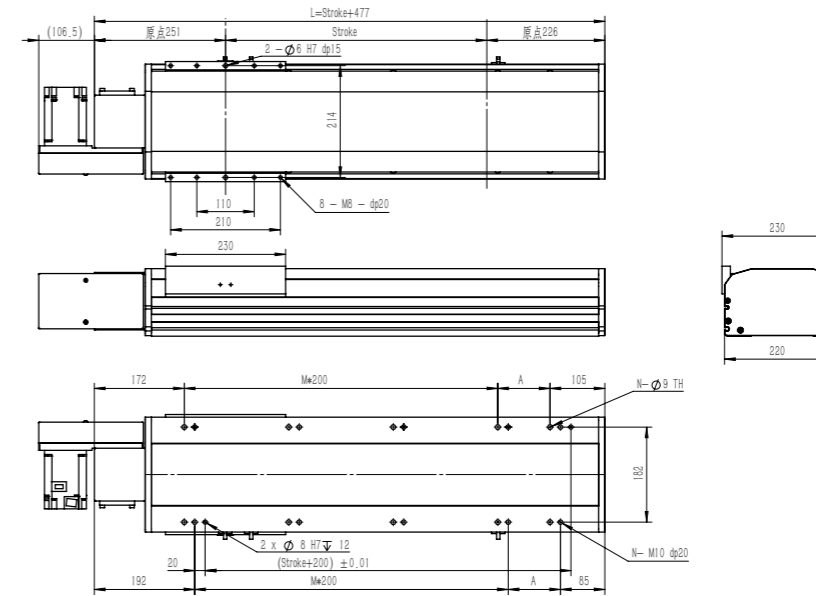


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	100	150	200	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-D02



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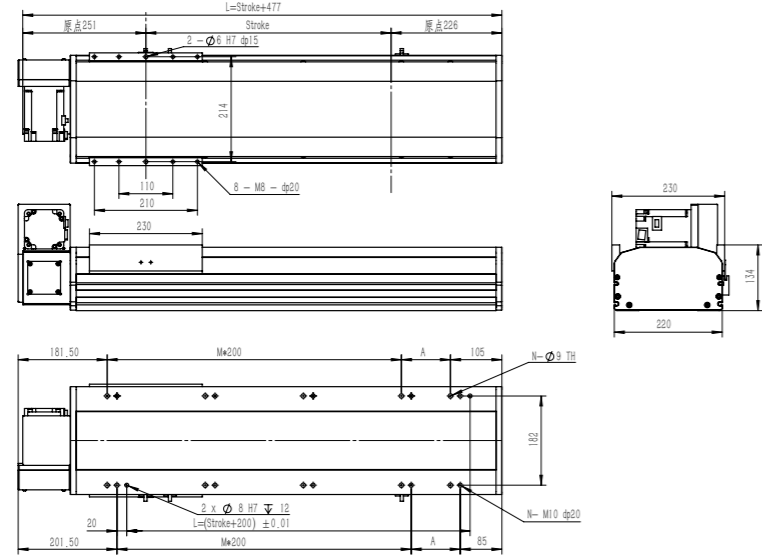


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50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

YTO 220 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO220-D03

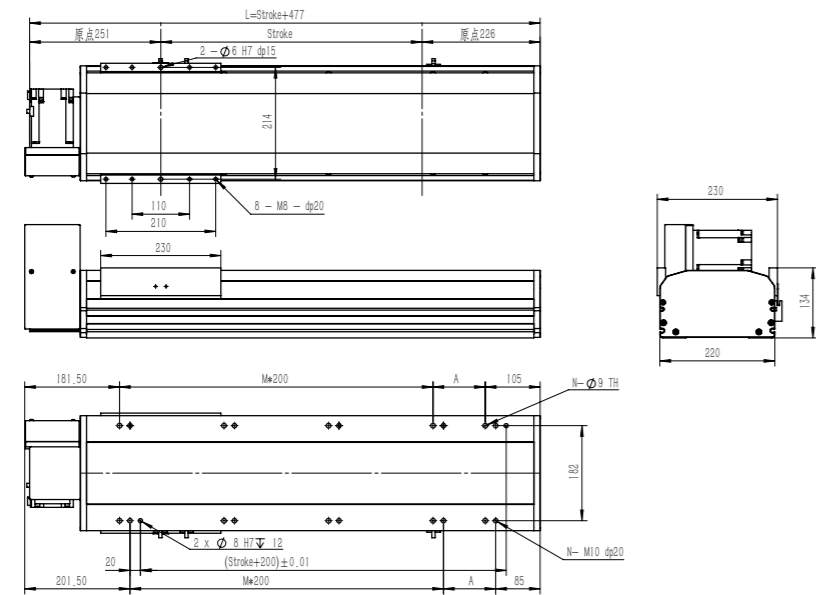
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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577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

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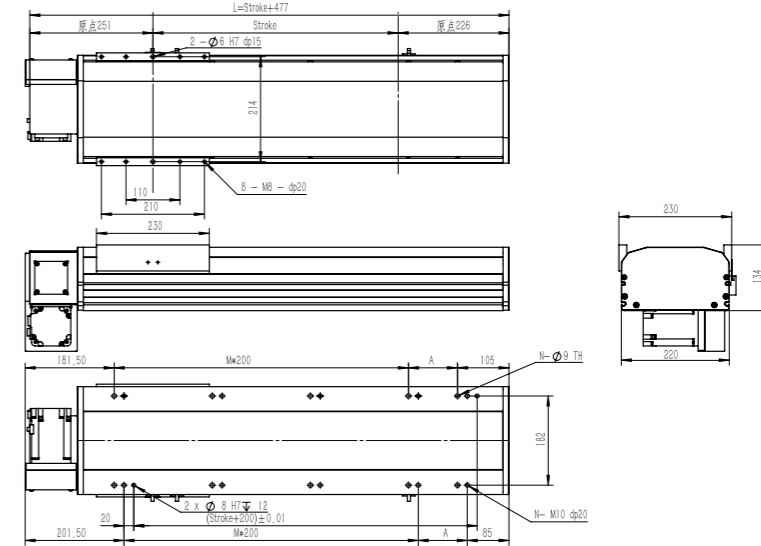


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50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

亞標半密式同步帶驅動型 YTO 220 Belt Driven Linear Actuator

YTO220-D05

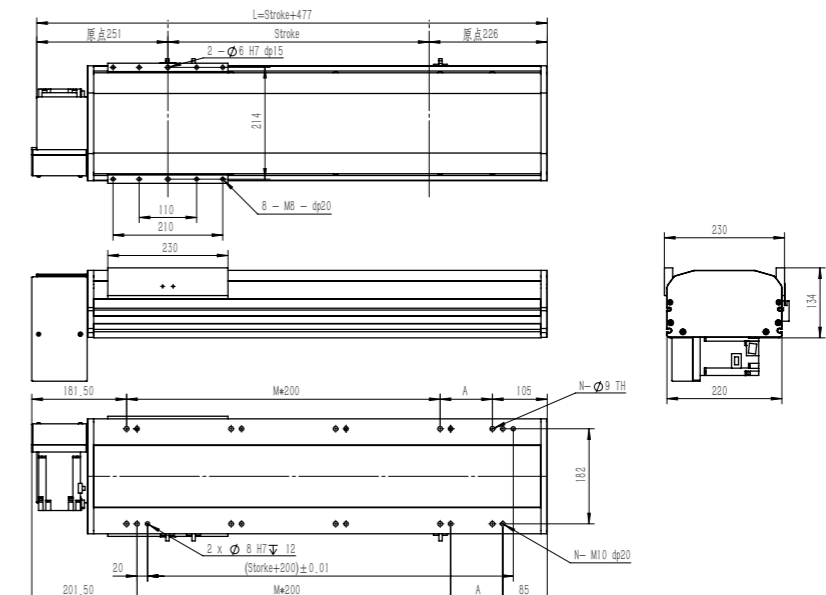
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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577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

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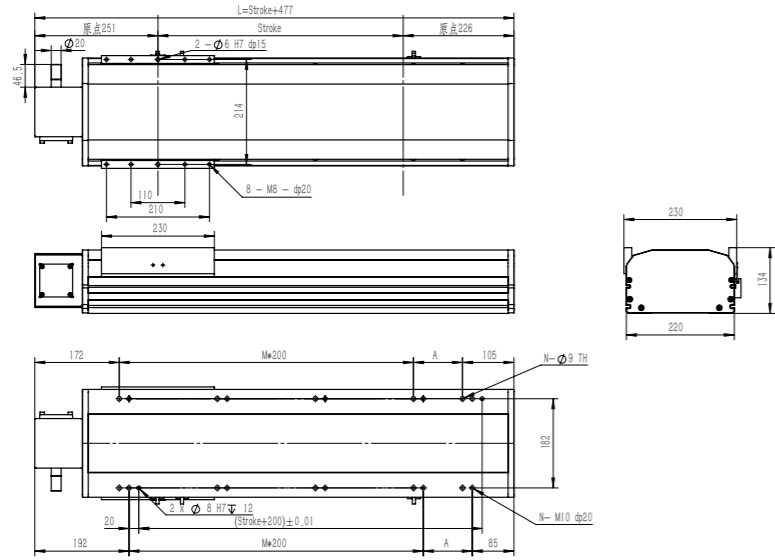


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50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

YTO 220 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO220-D07

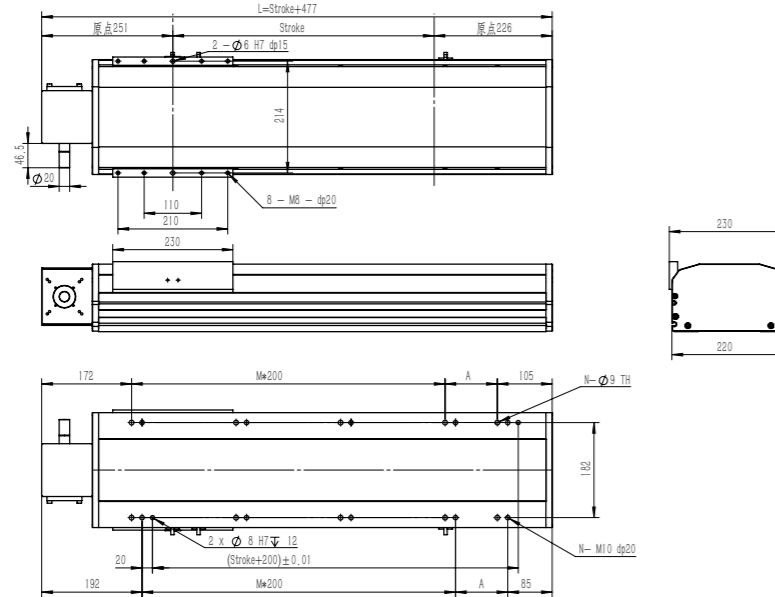
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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577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

YTO220-D08

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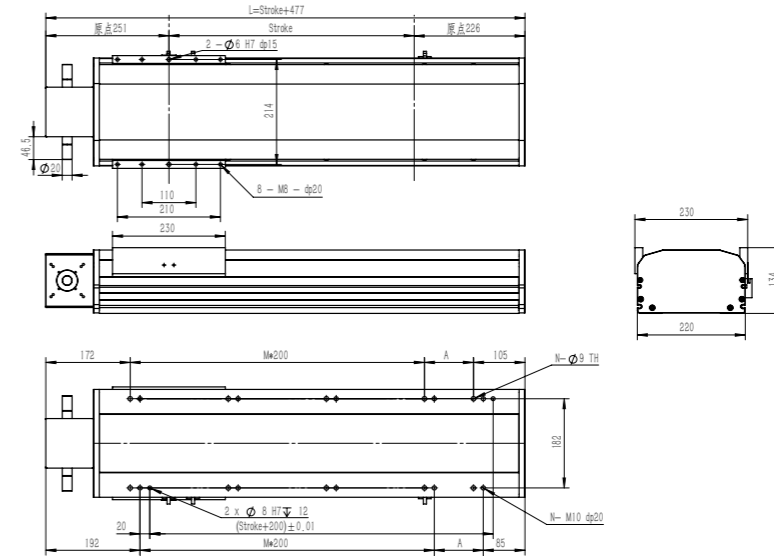


行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50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

亞標半密式同步帶驅動型 YTO 220 Belt Driven Linear Actuator

YTO220-D09

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

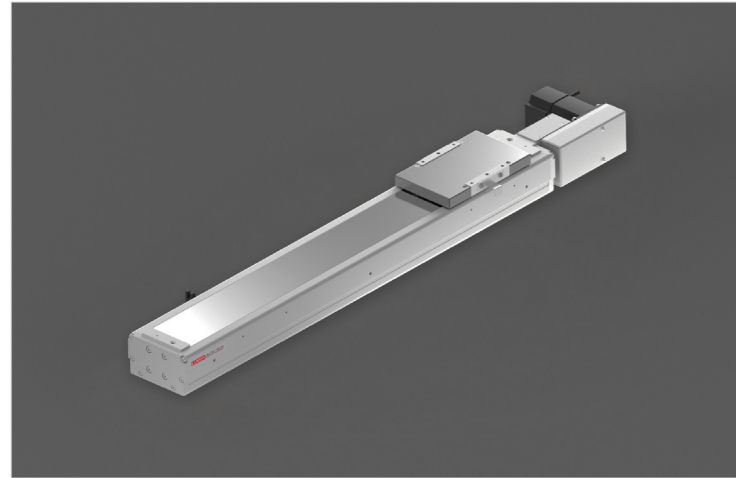
YTC110 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

訂購型號代碼 Code

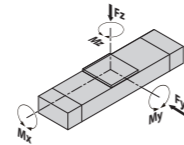
YTC110 - 500 - 4P - D01 - DB - M40 - P3 - A001

本體型號 Item NO.	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand、Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
100-1500, 間隔Gap100	100-1500, 間隔Gap100	4P	D01 D02 D03 D04 D05 D06 D07 D08 D09	未填寫-單滑塊 DB-輔助滑塊	M 三菱 Mitsubishi 10 P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 1K	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未標記: 无 No Mark: No Sensor	

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩 Max Permissible Forces And Torques

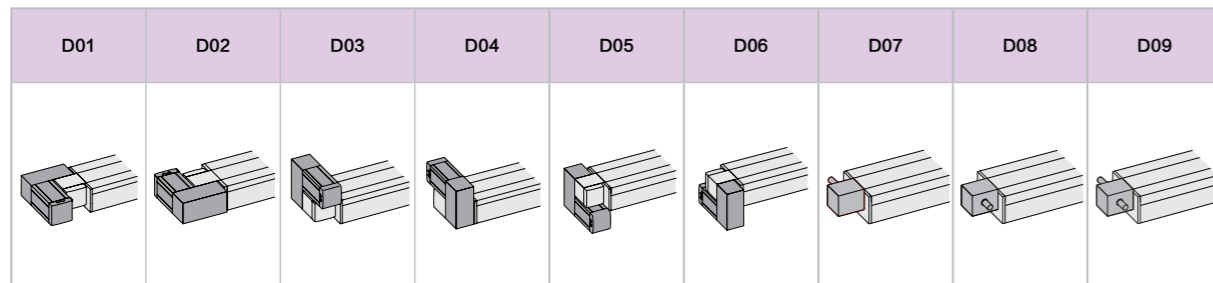


Type	4P
■F(y) (N)	3427
■F(z) (N)	3427
■M(x) (N·m)	98
■M(y) (N·m)	40
■M(z) (N·m)	176

除了滿足最大負載和力矩外，還必須滿足以下公式:
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

YTC110		4P(導軌滑塊數量) Block Quantity
技術參數	位置重複精度 Repetitive Accuracy (mm)	±0.05
	皮帶輪導程 Pulley Lead (mm)	80 / 40 #注2#Note2
	皮帶型號 Belt Type	5M-15
	最高速度 Maximum Speed (mm/s)	2000
	最大可搬重量 Maximum Payload	20
		水平使用Horizontal (kg)
基本規格	最大空載扭矩 Max. No-load Driving Torque (N·m)	0.3
	最大扭矩 Max. Driving Torque (N·m)	6
	標準行程 Stroke (mm)	100-1500 mm/ 50 Pitch
	AC伺服馬達容量 AC Servo Motor Output (W)	400
	高剛性直線滑軌 Linear Guide (mm)	12# × 2 PCS
	主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	109 × 82.5
原點感應器 Home Sensor	EE-SX672(NPN)	

#注1: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。

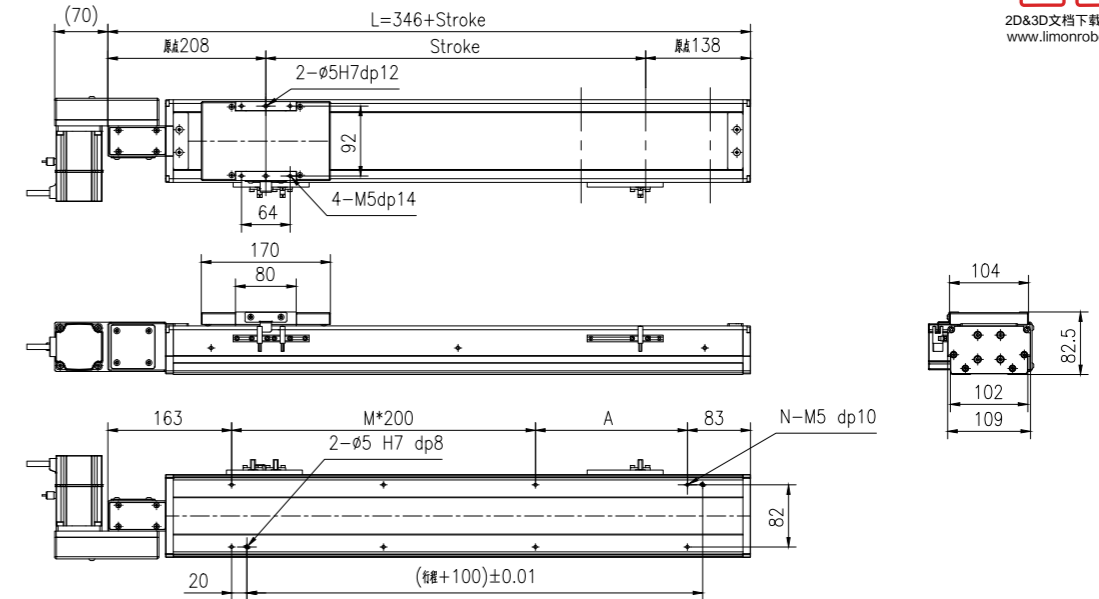
#Note1: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

#注2: 皮帶輪原始導程為80mm, 標準品默認附減速機構, 減速後導程為40mm。

#Note 2: Pulley's original lead is 80mm, which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

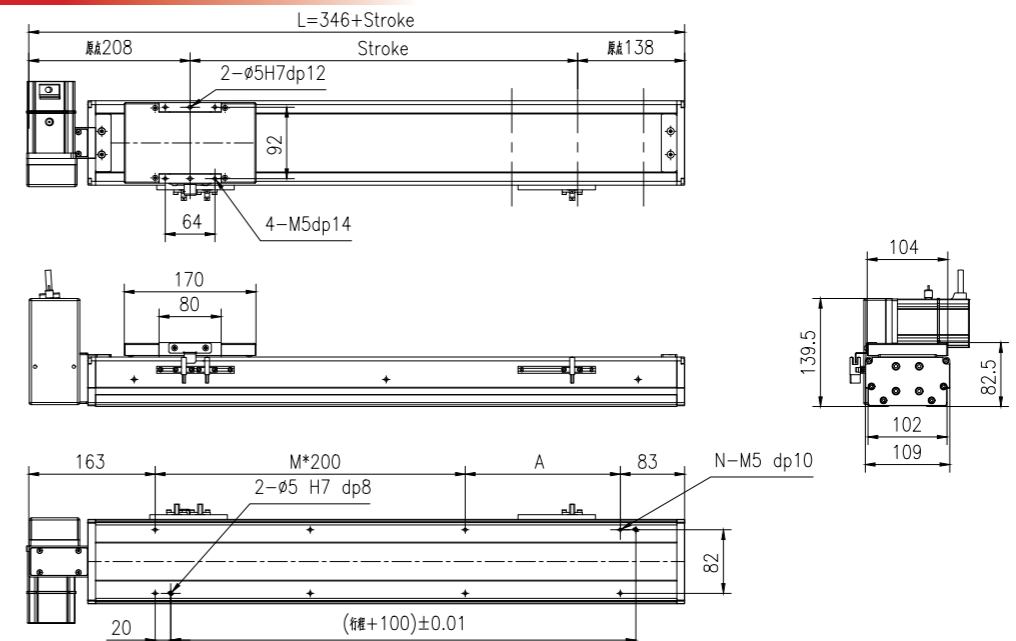
亞標全密式同步帶驅動型 YTC110 Belt Driven Linear Actuator

YTC110-D01



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	5.31	5.64	5.97	6.3	6.63	6.96	7.29	7.62	7.95	8.28	8.61	8.94	9.27	9.6	9.93
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1196	1246	1296	1346	1396	1446	1496	1546	1596	1646	1696	1746	1796	1846	1896
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	5	6	6	6	7	7	7	7	8	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	10.3	10.6	10.9	11.3	11.6	11.9	12.2	12.6	12.9	13.2	13.6	13.9	14.2	14.6	14.96

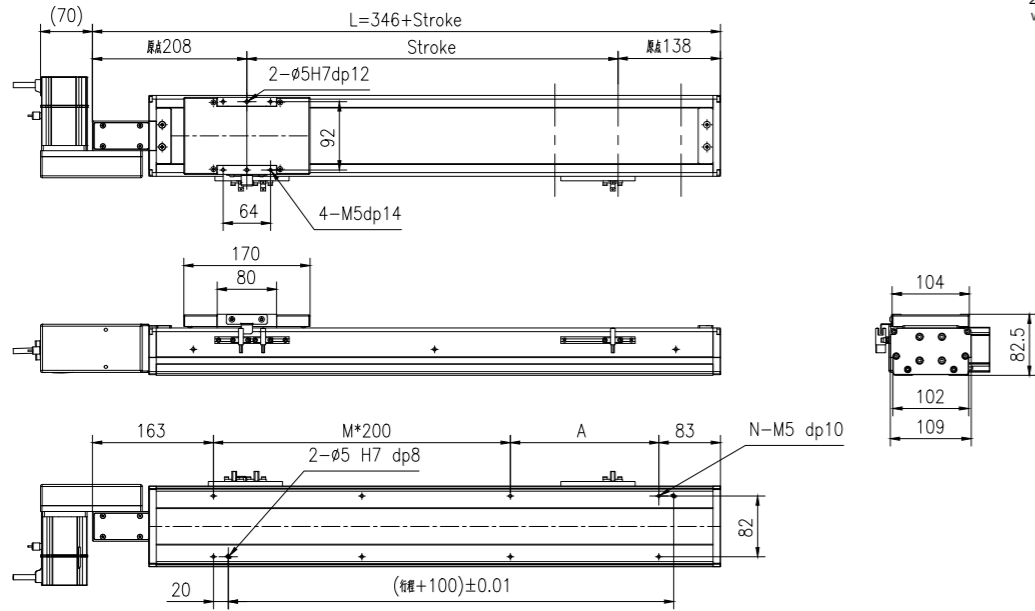
YTC110-D02



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	5.31	5.64	5.97	6.3	6.63	6.96	7.29	7.62	7.95	8.28	8.61	8.94	9.27	9.6	9.93
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1196	1246	1296	1346	1396	1446	1496	1546	1596	1646	1696	1746	1796	1846	1896
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	5	6	6	6	7	7	7	7	8	8
N	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20
重量 Weight (kg)	10.3	10.6	10.9	11.3	11.6	11.9	12.2	12.6	12.9	13.2	13.6	13.9	14.2	14.6	14.96

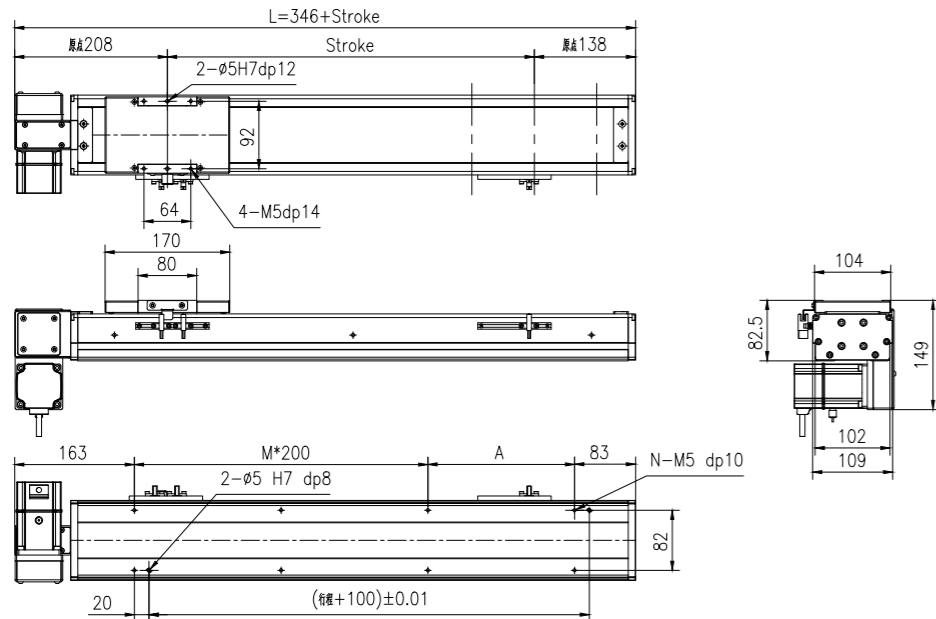
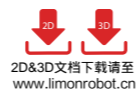
YTC110 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

YTC110-D03



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	5.31	5.64	5.97	6.3	6.63	6.96	7.29	7.62	7.95	8.28	8.61	8.94	9.27	9.6	9.93
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1196	1246	1296	1346	1396	1446	1496	1546	1596	1646	1696	1746	1796	1846	1896
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	7	8
N	12	12	14	14	14	16	16	16	16	18	18	18	18	18	20
重量 Weight (kg)	10.3	10.6	10.9	11.3	11.6	11.9	12.2	12.6	12.9	13.2	13.6	13.9	14.2	14.6	14.96

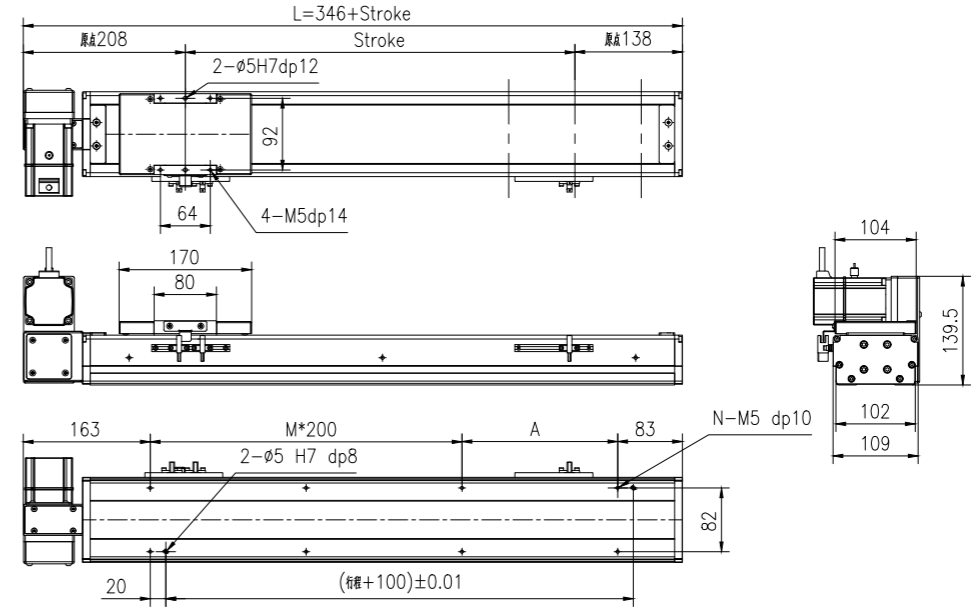
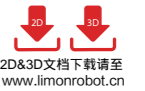
YTC110-D04



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	5.31	5.64	5.97	6.3	6.63	6.96	7.29	7.62	7.95	8.28	8.61	8.94	9.27	9.6	9.93
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1196	1246	1296	1346	1396	1446	1496	1546	1596	1646	1696	1746	1796	1846	1896
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	7	8
N	12	12	14	14	14	16	16	16	16	18	18	18	18	18	20
重量 Weight (kg)	10.3	10.6	10.9	11.3	11.6	11.9	12.2	12.6	12.9	13.2	13.6	13.9	14.2	14.6	14.96

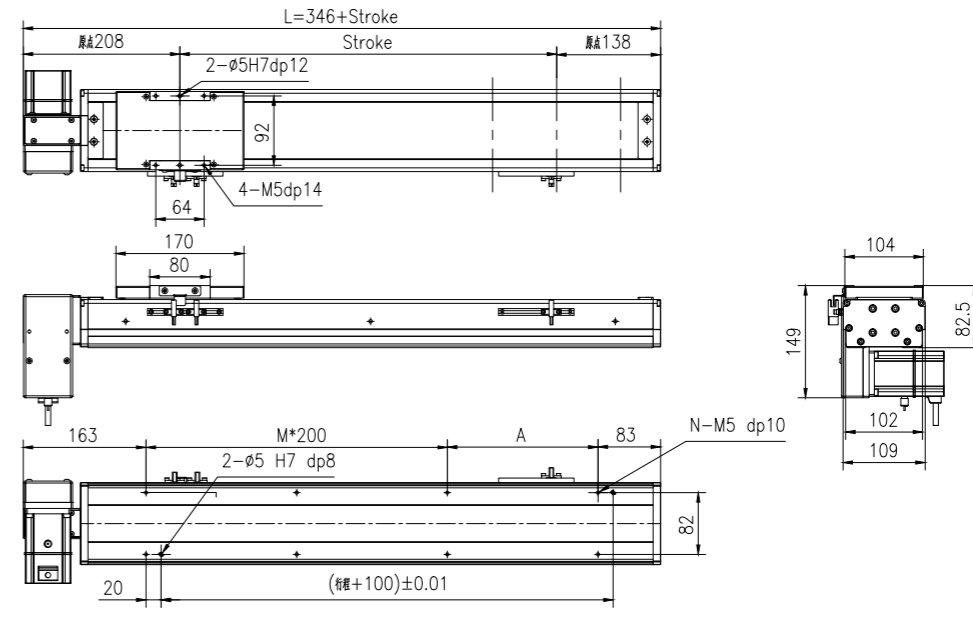
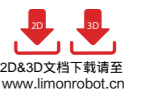
亞標全密式同步帶驅動型 YTC110 Belt Driven Linear Actuator

YTC110-D05



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	5.31	5.64	5.97	6.3	6.63	6.96	7.29	7.62	7.95	8.28	8.61	8.94	9.27	9.6	9.93
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1196	1246	1296	1346	1396	1446	1496	1546	1596	1646	1696	1746	1796	1846	1896
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	7	8
N	12	12	14	14	14	16	16	16	16	18	18	18	18	18	20
重量 Weight (kg)	10.3	10.6	10.9	11.3	11.6	11.9	12.2	12.6	12.9	13.2	13.6	13.9	14.2	14.6	14.96

YTC110-D06



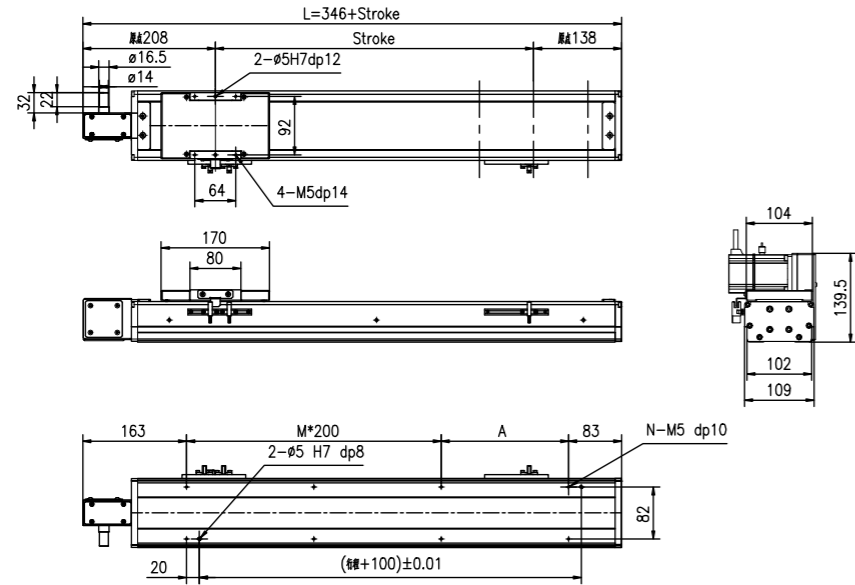
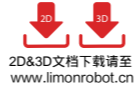
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	5.31	5.64	5.97	6.3	6.63	6.96	7.29	7.62	7.95	8.28	8.61	8.94	9.27	9.6	9.93
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1196	1246	1296	1346	1396	1446	1496	1546	1596	1646	1696	1746	1796	1846	1896
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	7	8
N	12	12	14	14	14	16	16	16	16	18	18	18	18	18	20
重量 Weight (kg)	10.3	10.6	10.9	11.3	11.6	11.9	12.2	12.6	12.9	13.2	13.6	13.9	14.2	14.6	14.96

GSC Series
KS Series
ITO Series
HTO Series
ITC Series
HTC Series
ITZ Series
YSO Series
YSC Series
YTO Series
YTC Series
Multiaxis system

GSC Series
KS Series
ITO Series
HTO Series
ITC Series
HTC Series
ITZ Series
YSO Series
YSC Series
YTO Series
YTC Series
Multiaxis system

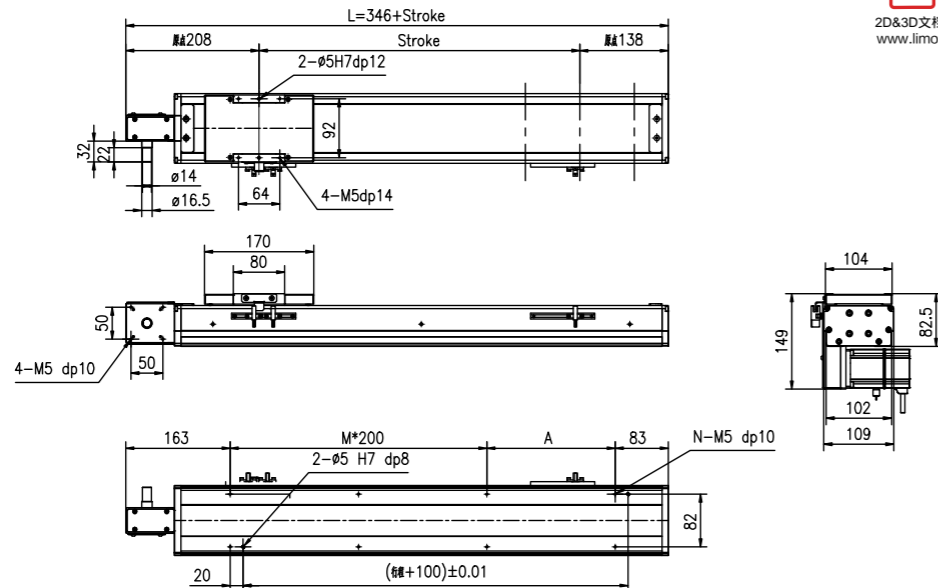
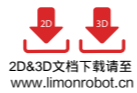
YTC110 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

YTC110-D07



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	5.31	5.64	5.97	6.3	6.63	6.96	7.29	7.62	7.95	8.28	8.61	8.94	9.27	9.6	9.93
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1196	1246	1296	1346	1396	1446	1496	1546	1596	1646	1696	1746	1796	1846	1896
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	7	8
N	12	12	14	14	14	16	16	16	16	18	18	18	18	18	20
重量 Weight (kg)	10.3	10.6	10.9	11.3	11.6	11.9	12.2	12.6	12.9	13.2	13.6	13.9	14.2	14.6	14.96

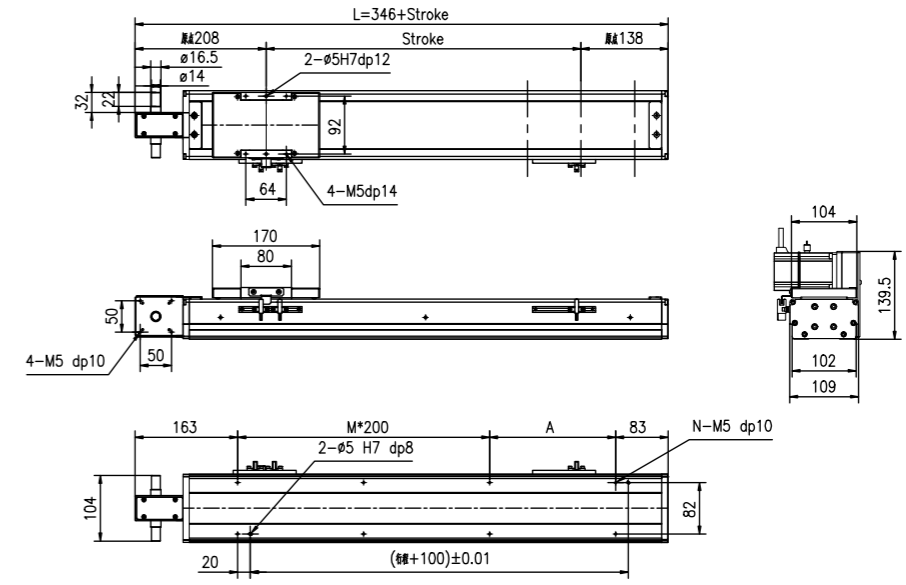
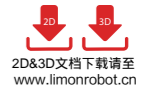
YTC110-D08



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	5.31	5.64	5.97	6.3	6.63	6.96	7.29	7.62	7.95	8.28	8.61	8.94	9.27	9.6	9.93
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1196	1246	1296	1346	1396	1446	1496	1546	1596	1646	1696	1746	1796	1846	1896
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	7	8
N	12	12	14	14	14	16	16	16	16	18	18	18	18	18	20
重量 Weight (kg)	10.3	10.6	10.9	11.3	11.6	11.9	12.2	12.6	12.9	13.2	13.6	13.9	14.2	14.6	14.96

亞標全密式同步帶驅動型 YTC110 Belt Driven Linear Actuator

YTC110-D09



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	5.31	5.64	5.97	6.3	6.63	6.96	7.29	7.62	7.95	8.28	8.61	8.94	9.27	9.6	9.93
行程 Stroke (mm)	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	1196	1246	1296	1346	1396	1446	1496	1546	1596	1646	1696	1746	1796	1846	1896
A	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
M	4	4	5	5	5	6	6	6	6	7	7	7	7	7	8
N	12	12	14	14	14	16	16	16	16	18	18	18	18	18	20
重量 Weight (kg)	10.3	10.6	10.9	11.3	11.6	11.9	12.2	12.6	12.9	13.2	13.6	13.9	14.2	14.6	14.96

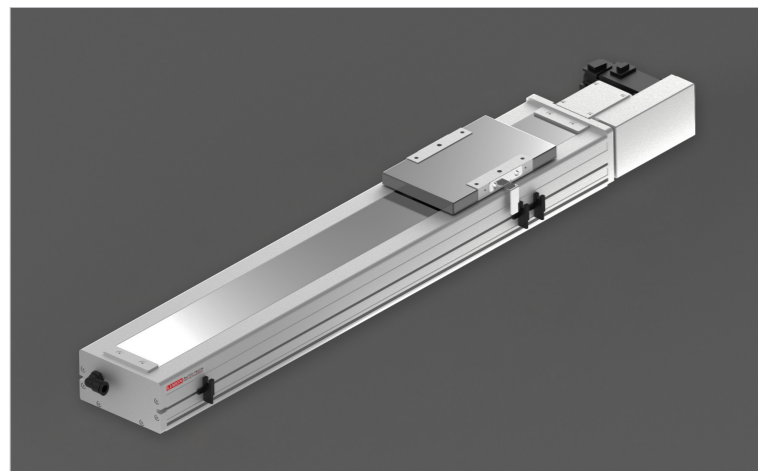
YTC135 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

訂購型號代碼 Code

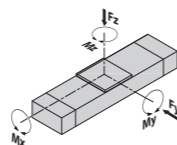
YTC135 - 500 - 4P - D01 - DB - M40 - P3 - A001

本體型號 Item NO.	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Positon	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand、Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
100-4000, 間隔Gap100	100-4000, 間隔Gap100	4P	D01 D02 D03 D04 D05 D06 D07 D08 D09	未填寫:單滑塊 DB:輔助滑塊	M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K -	P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未標記: 无 NoMark:NoSensor	

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩 Max Permissible Forces And Torques

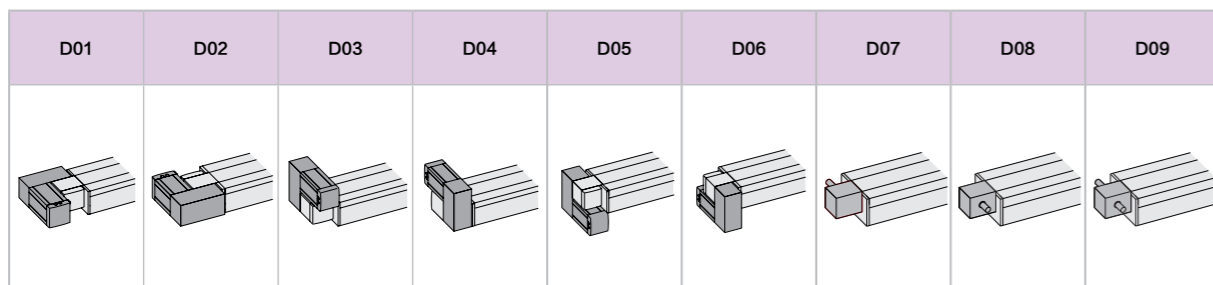


Type	4P
■F(y) (N)	5370
■F(z) (N)	5370
■M(x) (N·m)	142
■M(y) (N·m)	104
■M(z) (N·m)	346

除了滿足最大負載和力矩外, 還必須滿足以下公式:
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

YTC135		4P(導軌滑塊數量) Block Quantity	
技術參數	位置重複精度 Repetitive Accuracy (mm)	±0.05	
	皮帶輪導程 Pulley Lead (mm)	110 / 50 #注2#Note2	
	皮帶型號 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
基本規格	最大空載扭矩 Max. No-load Driving Torque (N·m)	0.3	
	最大扭矩 Max. Driving Torque (N·m)	6	
	標準行程 Stroke (mm)	100-4000 mm/ 100 Pitch	
Basic Specification	AC伺服馬達容量 AC Servo Motor Output (W)	400	
	高剛性直線滑軌 Linear Guide (mm)	15# × 2 PCS	
	主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	135 × 91	
	原點感應器 Home Sensor	EE-SX672(NPN)	

#注1: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。

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

#注2: 皮帶輪原始導程為110mm, 標準品默認附減速機構, 減速後導程為50mm.

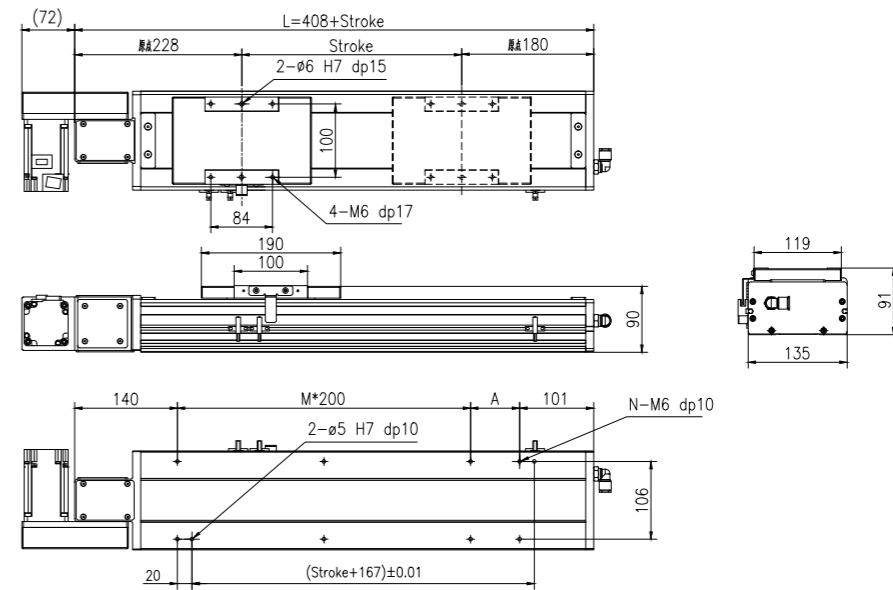
#Note 2: Pulley's original lead is 110mm, which standard type is equipped with reduction facility normally, and its lead is 50mm after deceleration.

亞標全密式同步帶驅動型 YTC135 Belt Driven Linear Actuator

YTC135-4P-D01



2D&3D文件下載請至
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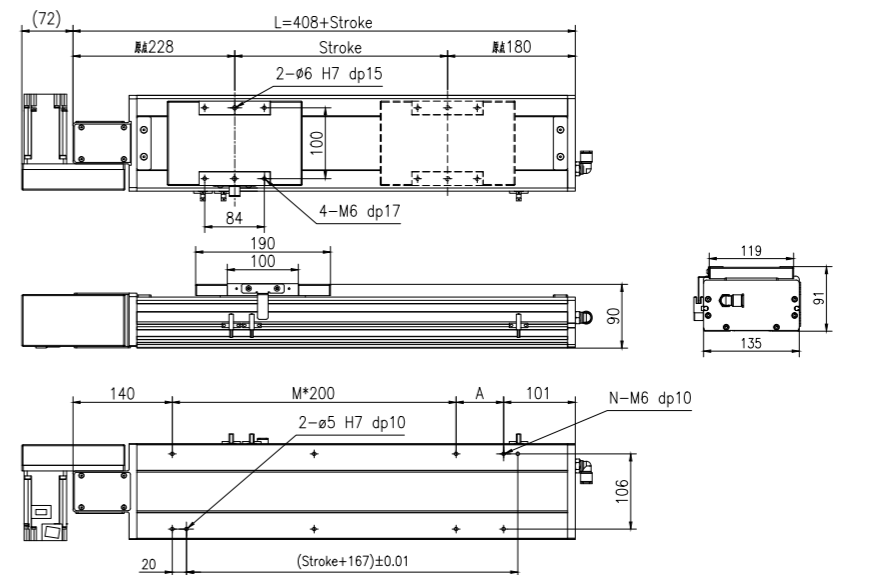


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	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-D02



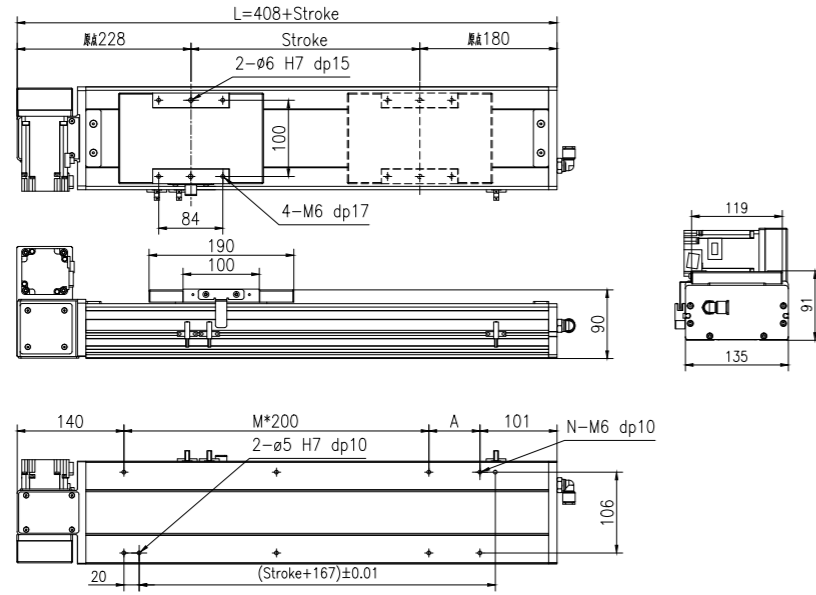
2D&3D文件下載請至
www.limonrobot.cn



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

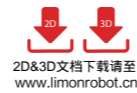
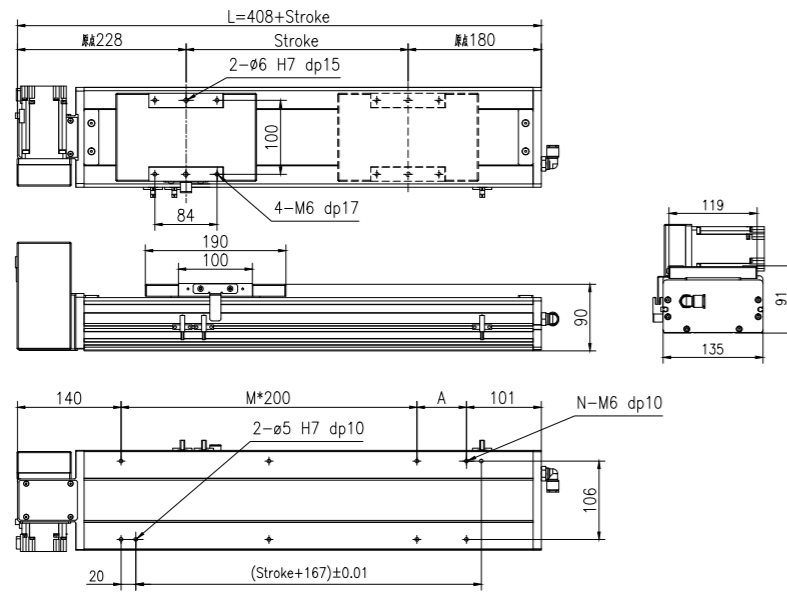
YTC135 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

YTC135-4P-D03



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	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

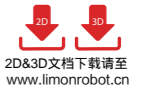
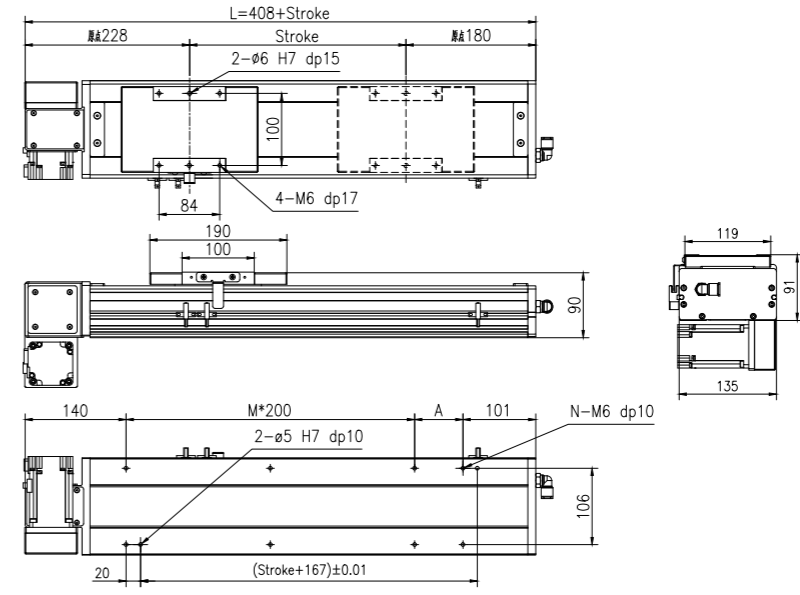
YTC135-4P-D04



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

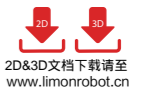
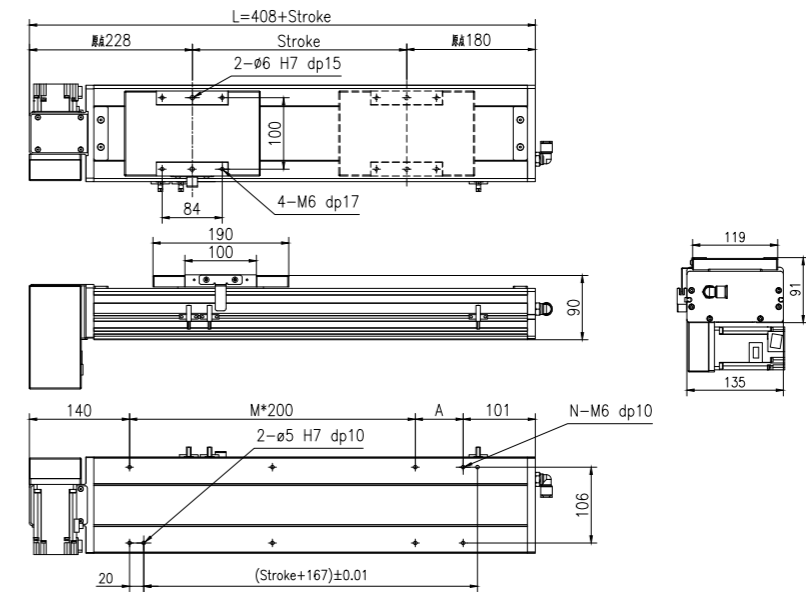
亞標全密式同步帶驅動型 YTC135 Belt Driven Linear Actuator

YTC135-4P-D05



行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	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



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

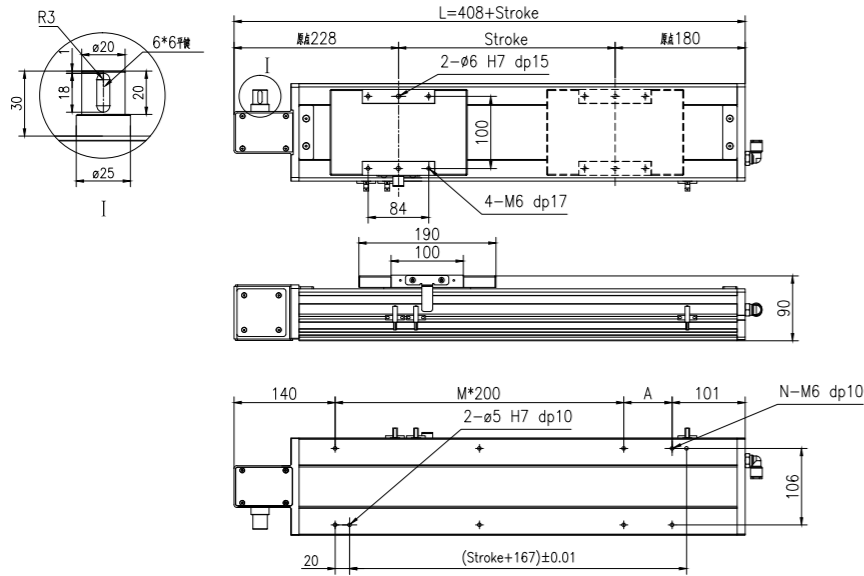
GSC Series
KS Series
ITO Series
HTO Series
ITC Series
HTC Series
ITZ Series
YSO Series
YSC Series
YTO Series
YTC Series
Multiaxis system

GSC Series
KS Series
ITO Series
HTO Series
ITC Series
HTC Series
ITZ Series
YSO Series
YSC Series
YTO Series
YTC Series
Multiaxis system

YTC135 亞標全密式同步帶驅動型

Belt Driven Linear Actuator

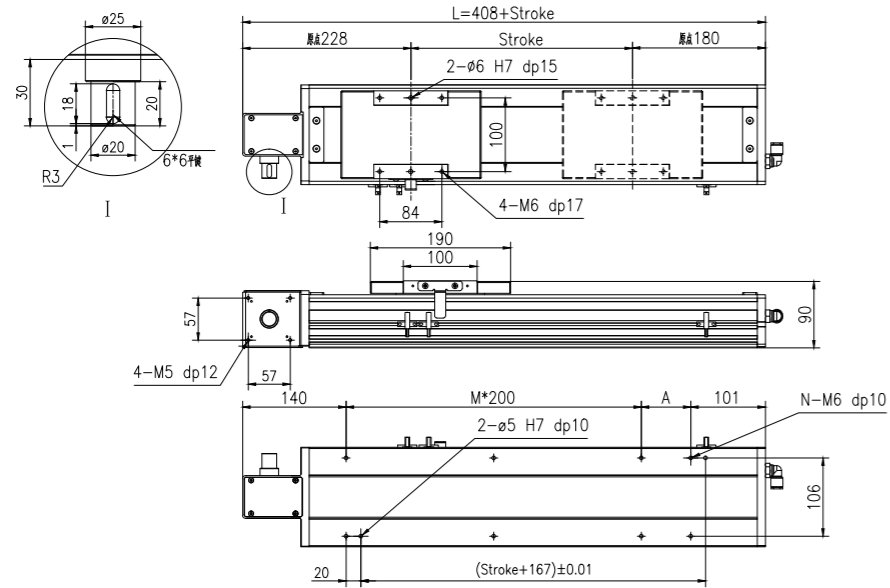
YTC135-4P-D07



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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



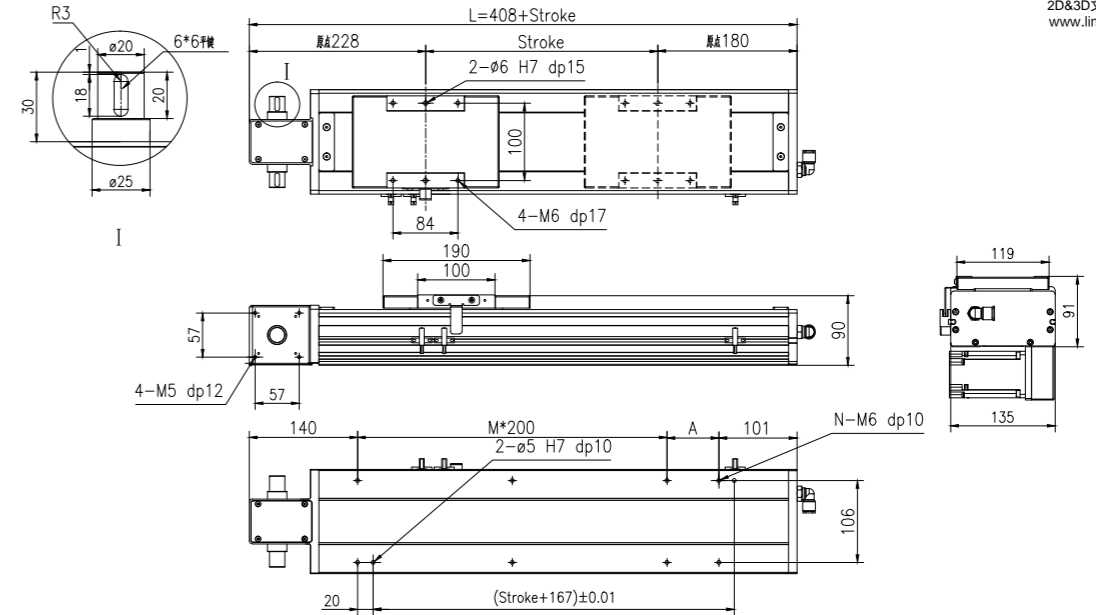
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67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

亞標全密式同步帶驅動型 YTC135

Belt Driven Linear Actuator

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

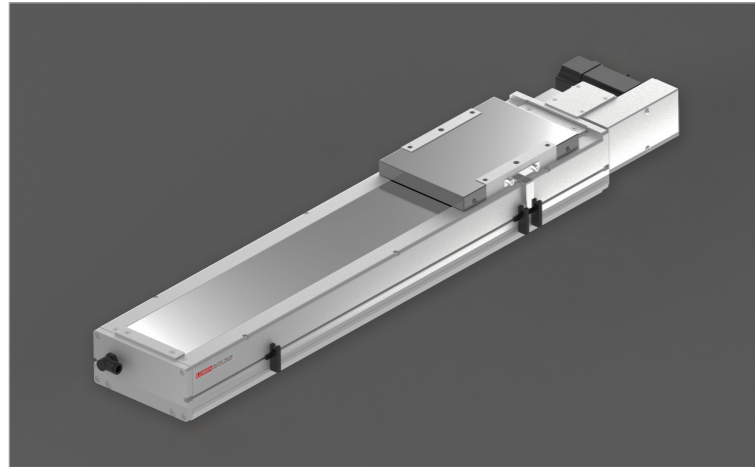
YTC 170 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

訂購型號代碼 Code

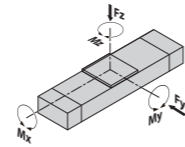
YTC170 - 500 - 4P - D01 - DB - M40 - P3 - A001

本體型號 Item NO.	行程 Stroke 100-3050, 間隔Gap50	直線導軌滑塊數量 Block Quantity 4P	馬達方向 Motor Mounting Position D01 D02 D03 D04 D05 D06	輔助滑塊 Auxiliary Block 未填寫: 單滑塊 DB: 輔助滑塊	馬達廠牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K -	限位傳感器數量 Photoelectric Sensor P1: 1只 1PC P2: 2只 2PCS P3: 3只 3PCS 未標記, 无 No Mark: No Sensor	特注式樣 Special Order No.
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注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩 Max Permissible Forces And Torques

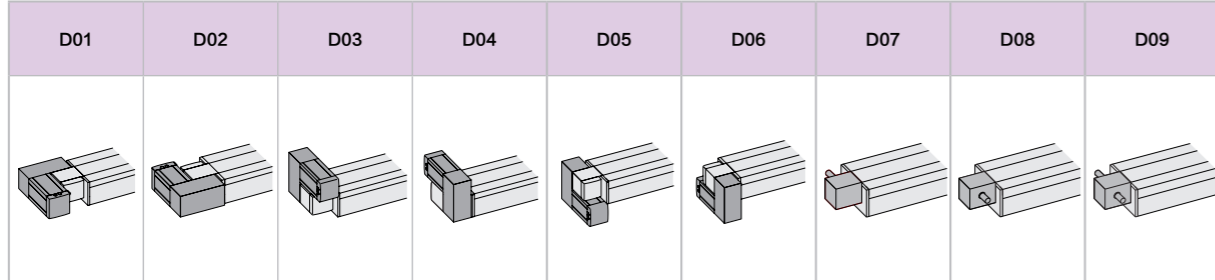


Type	4P
■ F(y) (N)	7463
■ F(z) (N)	7463
■ M(x) (N·m)	339
■ M(y) (N·m)	178
■ M(z) (N·m)	742

除了滿足最大負載和力矩外, 還必須滿足以下公式:
All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

YTC 170		4P(導軌滑塊數量) Block Quantity
技術參數	位置重複精度 Repetitive Accuracy (mm)	±0.05
	皮帶輪導程 Pulley Lead (mm)	100 / 40 #注2#Note2
	皮帶型號 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
Technical Parameters	最大空載扭矩 Max. No-load Driving Torque (N·m)	0.3
	最大扭矩 Max. Driving Torque (N·m)	6
	標準行程 Stroke (mm)	100-4000 mm / 100 Pitch
基本規格	AC伺服馬達容量 AC Servo Motor Output (W)	400
	高剛性直線滑軌 Linear Guide (mm)	20# × 2 PCS
	皮帶寬度 Belt Width	30
	主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	170 × 107
Basic Specification	原點感應器 Home Sensor	EE-SX672(NPN)

#注1: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。

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

#注2: 皮帶輪原始導程為100mm, 標準品默認附減速機構, 減速後導程為40mm。

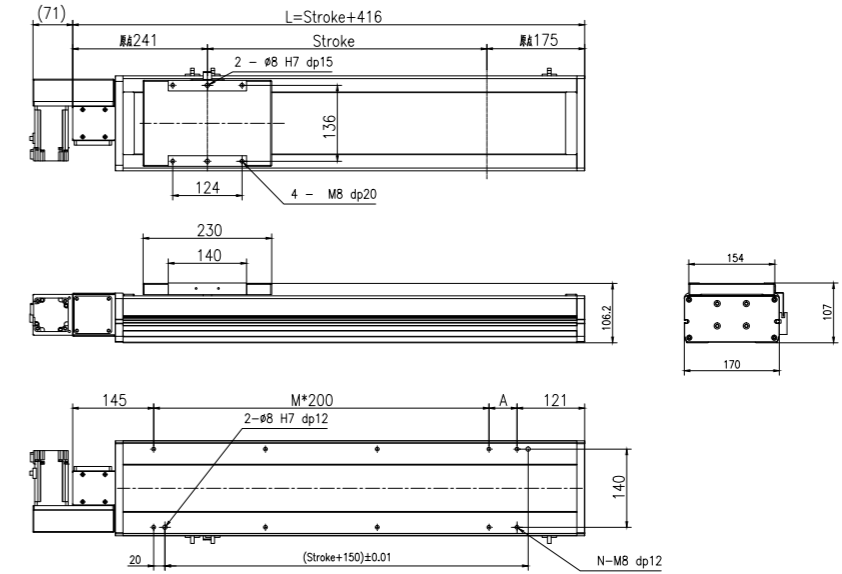
#Note 2: Pulley's original lead is 100mm, which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

亞標全密式同步帶驅動型 YTC170 Belt Driven Linear Actuator

YTC170-4P-D01

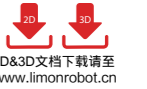


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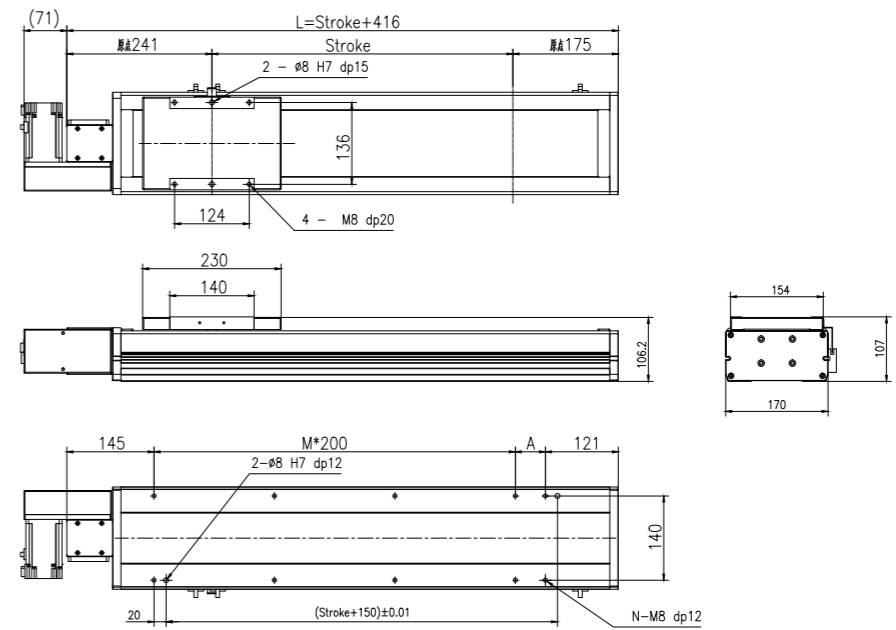


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6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



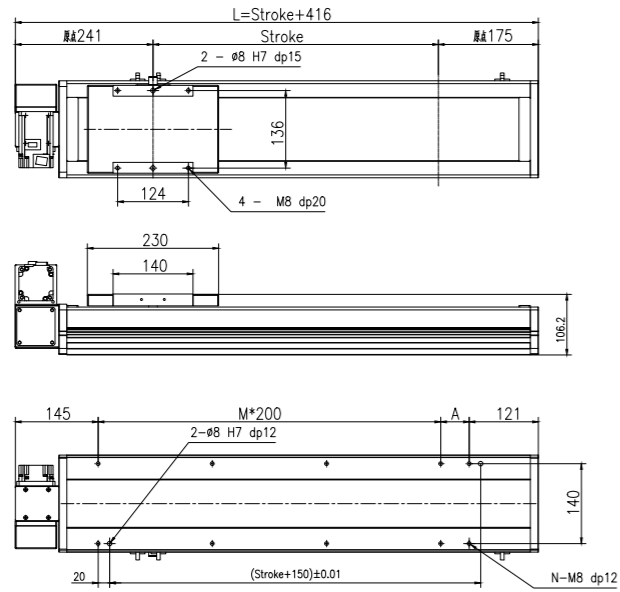
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	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 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

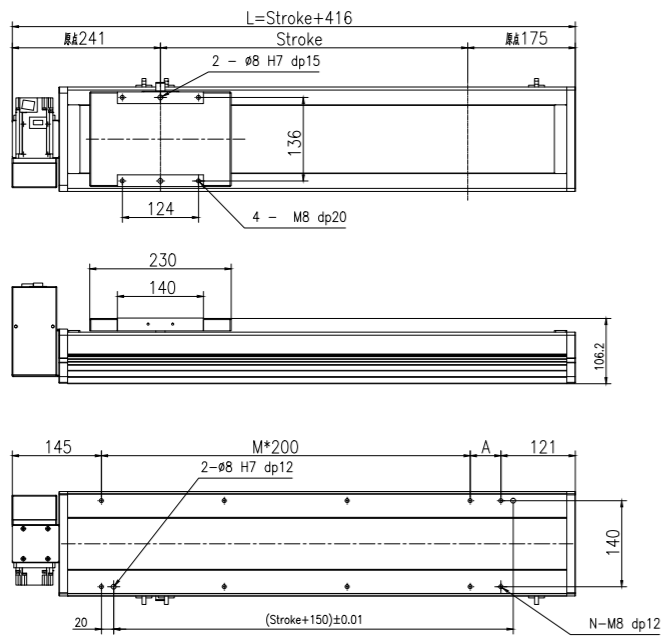
YTC170-4P-D03



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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

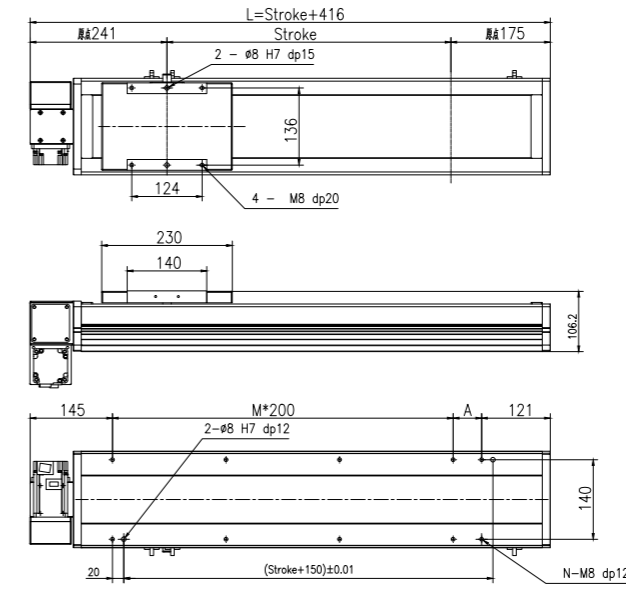


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50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

亞標全密式同步帶驅動型 YTC 170 Belt Driven Linear Actuator

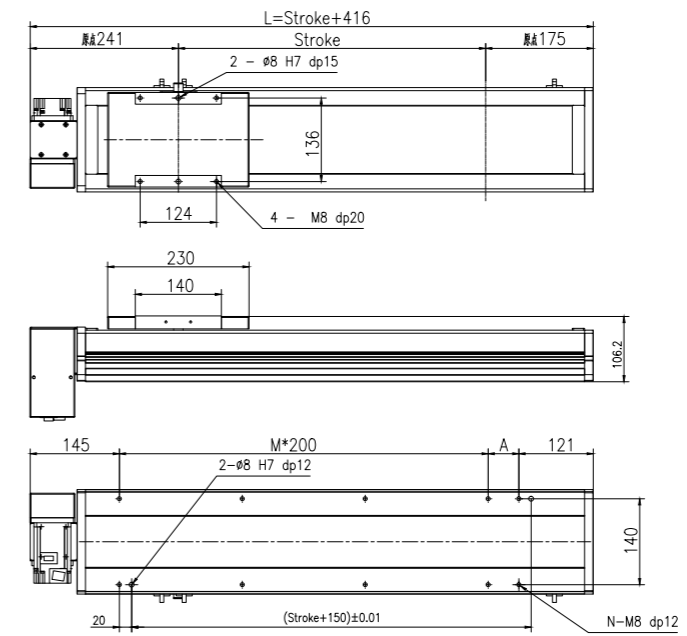
YTC170-4P-D05



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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

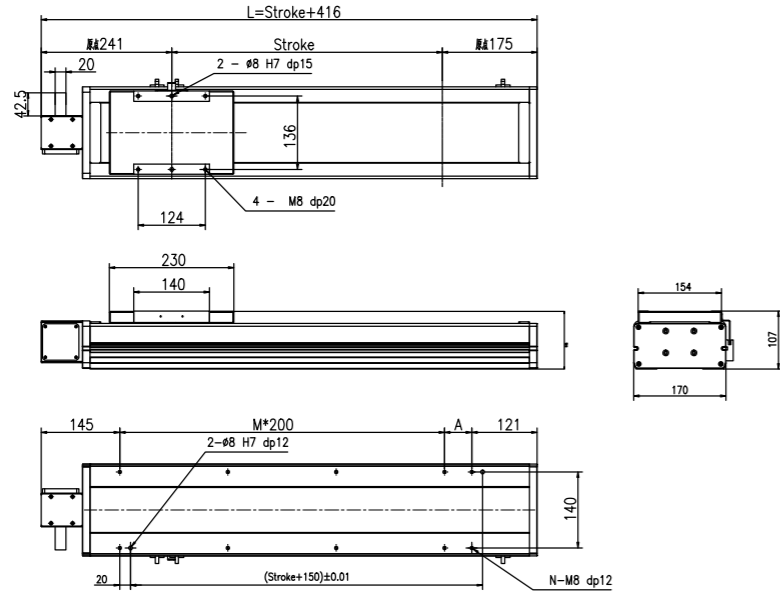


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	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 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

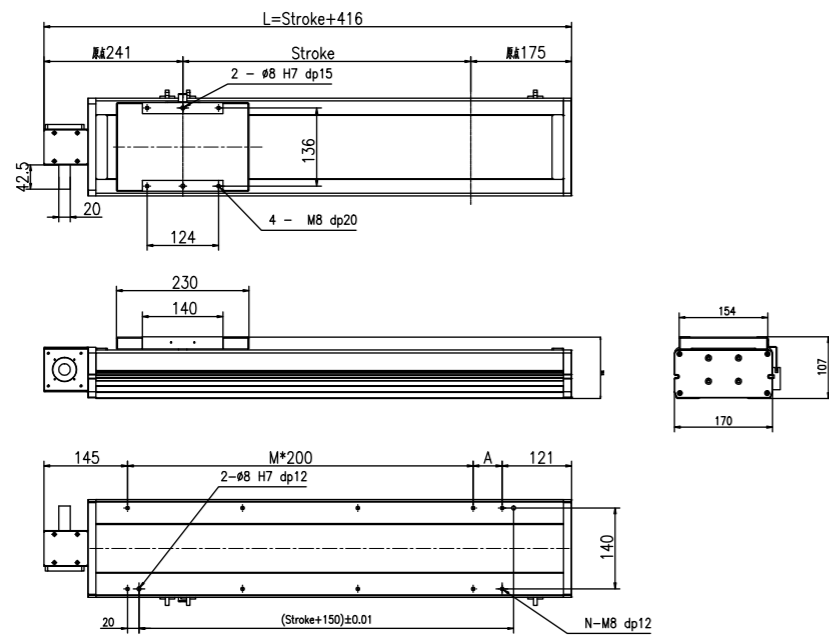
YTC170-4P-D07



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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

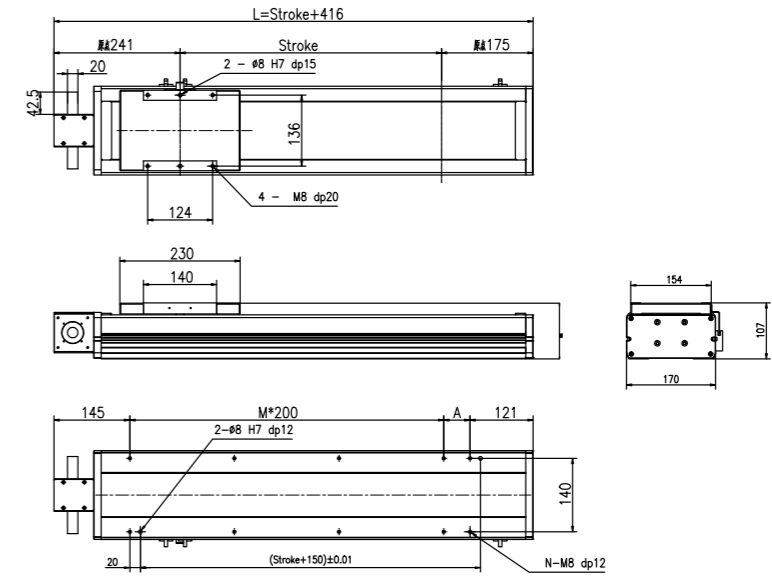


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50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

亞標全密式同步帶驅動型 YTC 170 Belt Driven Linear Actuator

YTC170-4P-D09



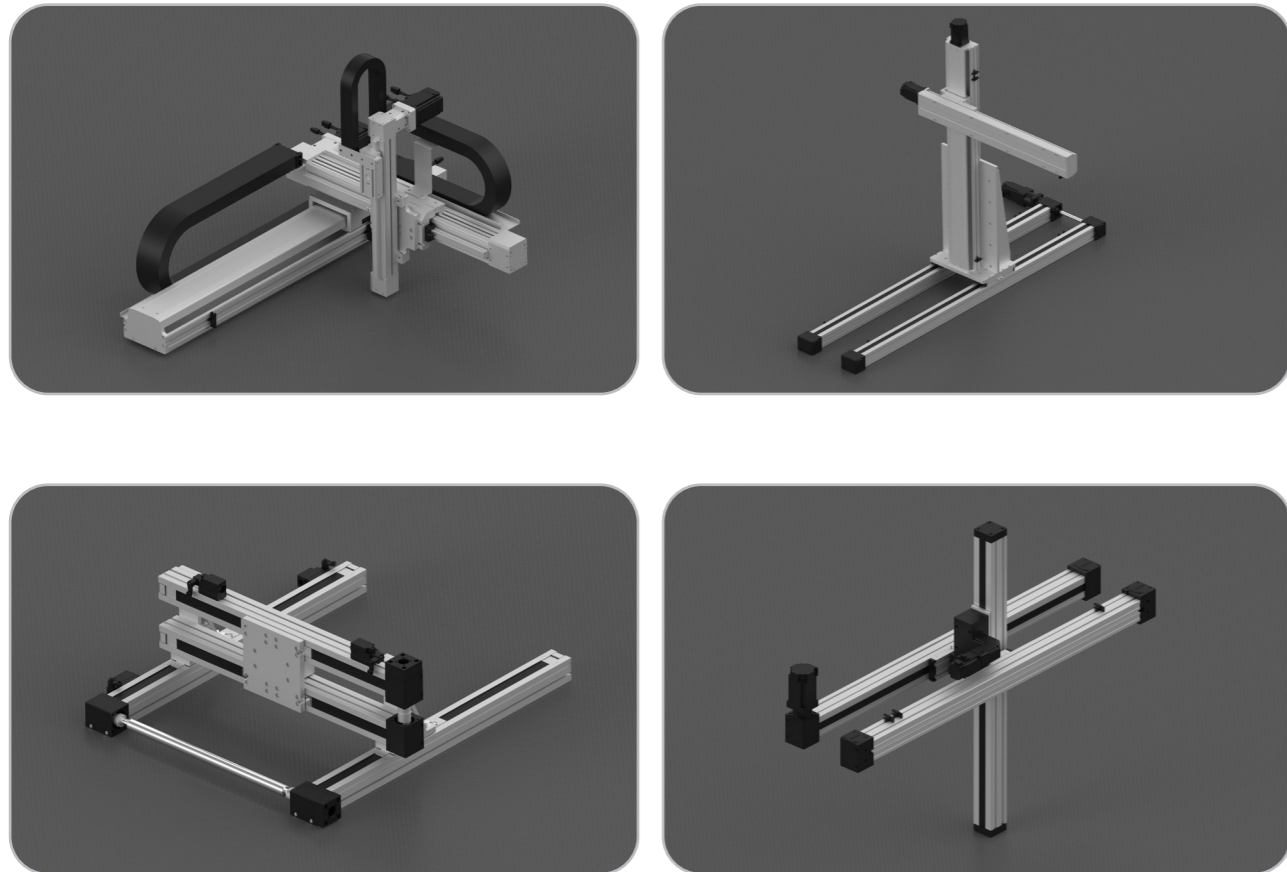
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50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

多轴组合 Multiaxis System

Limon提供丰富的完整直线单元运动系统设计所需的支架和安装组件。在我们的电机和驱动套装交付的同时,我们亦会为您提供一个完整的解决方案。尺寸选定和系统选型请联系我们获取详细信息。

Linear Motion Systems can be used in almost all industries . The breadth of our range makes it possible to find the optimum solution for most applications imaginable. If the standard range is not enough, Limon is happy to discuss a custom solution that meets your needs. Contact us and we can show you many, many more.



Note:

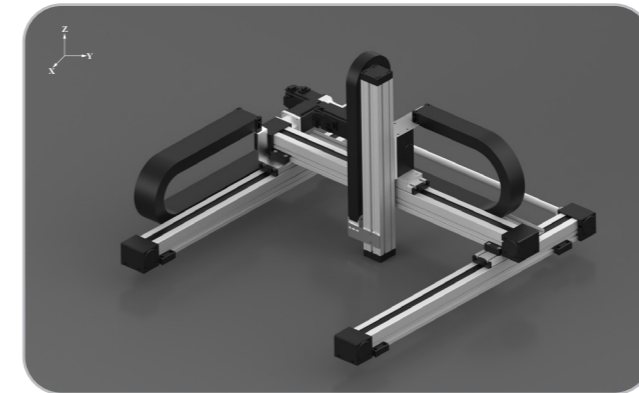
All indicated item, must be chosen with linear guide. The load capacity will decline if the arm is in overlong length. For actual figure required, please contact limon robot. We offer all necessary fittings including brackets, clamping fixtures and adapter plates in order to build multi-axis systems. Besides standard elements, we also supply customized non-standard elements manufactured in our workshop.

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。

Multiaxis System 多轴组合

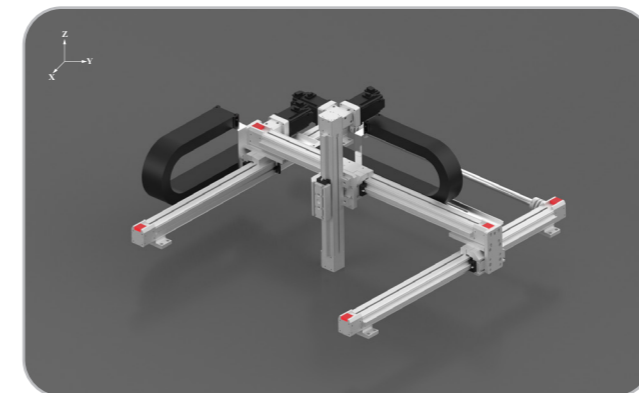
Limon提供丰富的完整直线单元运动系统设计所需的支架和安装组件。在我们的电机和驱动套装交付的同时,我们亦会为您提供一个完整的解决方案。尺寸选定和系统选型请联系我们获取详细信息。

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■多轴组合模块

	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		



■多轴组合模块

	Txyz45			Txyz65		
	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	TSG45	TSG45	TSG45	TSG65	TSG65	TSG45
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	1500	1500	1000	2000	2000	1000
最大行程 (mm) Max Stroke	3000	1000	500	4000	1500	500
最大搬运负载 (kg) Max Transport Load	3kg			8kg		

Note:

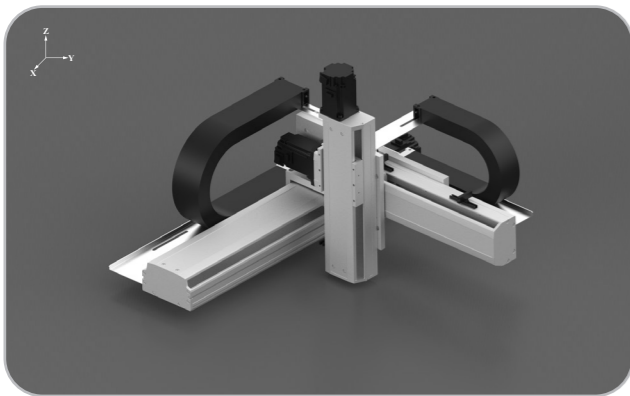
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多軸組合 Multiaxis System

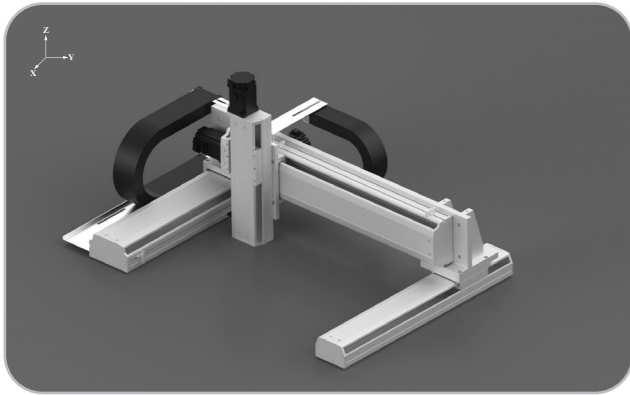
Limon提供丰富的完整直线单元运动系统设计所需的支架和安装组件。在我们的电机和驱动套装交付的同时,我们亦会为您提供一个完整的解决方案。尺寸选定和系统选型请联系我们获取详细信息。

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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	YSO110	YSO110	YSC65	YSO135	YSO135	YSO110
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	YSO110	YSO110	YSC65	YSO135	YSO135	YSO110
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.

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螺杆菌驱动直线运动系统 驱动计算

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]

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

- 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]

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

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

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

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

M_{idle} = 請見相應單元的表格

- MA = 所需驅動扭矩 [Nm]
- M_{load} = 負載變動引起的力矩 [N]
- M_{trans} = 平移加速度扭矩 [Nm]
- M_{rot} = 旋轉加速度扭矩 [Nm]
- M_{idle} = 最大空載扭矩 [Nm]³
- F_x = 進给力 [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。

	SSG65	YSC50	YSC65	YSO/ YSC100	YSO/ YSC135	YSO/ YSC170
滾珠螺絲桿慣量 (JSP), [kgm ² /m]	8.46×10 ⁻⁵	1.13×10 ⁻⁵	1.13×10 ⁻⁵	3.57×10 ⁻⁵	3.57×10 ⁻⁵	8.46×10 ⁻⁵

Feed Force Formula [N]

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

- F_x = feed force [N]
- m = total mass to be moved [kg]¹
- g = acceleration due to gravity [m/s²]
- μ = friction factor specific for each unit

Acceleration Force Formula [N]

$$F_a = m \times a$$

- F_a = acceleration force [N]
- m = mass to be operated [kg]
- a = acceleration [m/s²]²

Power Formula [kW]

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

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

Drive Moment Formulas [Nm]

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

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

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

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

M_{idle} = see table for unit in question

- M_A = required drive moment [Nm]
- M_{load} = moment as a result of various loads [N]
- M_{trans} = translational acceleration moment [Nm]
- M_{rot} = rotational acceleration moment [Nm]
- M_{idle} = max no-load driving torque [Nm]³
- F_x = feed force [N]
- p = screw lead [mm]
- F_a = maximum required acceleration force [N]
- j_{sp} = inertia of ball screw per meter [kgm²/m]⁴
- n_{max} = maximum required rotational speed [rpm]
- a = maximum required acceleration [m/s²]
- V_{max} = maximum required linear speed [m/s]

¹ The total mass is the mass of all masses to be moved (objects to be moved, carriage(s)/rod, screw).

² In vertical applications, the mass acceleration must be added to the acceleration due to gravity g (9,81 m/s²).

³ This value can be found in the carriage idle torque tables for each linear motion system.

⁴ This value can be found in the additional technical data tables.

	SSG65	YSC50	YSC65	YSO/ YSC100	YSO/ YSC135	YSO/ YSC170
Inertia Of Ball Screw Per Meter (JSP) , [kgm ² /m]	8.46x10 ⁻⁵	1.13x10 ⁻⁵	1.13x10 ⁻⁵	3.57x10 ⁻⁵	3.57x10 ⁻⁵	8.46x10 ⁻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]

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

- P = 所需功率 [kW]
- M_A = 所需的驅動扭矩 [Nm]
- n_{max} = 所需的最大轉速 [rpm]

驅動扭矩算式 [Nm]

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

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

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

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

M_{idle} = 請見相應單元的表格

- M_A = 所需驅動扭矩 [Nm]
- M_{load} = 負載變動引起的力矩 [N]
- M_{trans} = 平移加速度扭矩 [Nm]
- M_{rot} = 旋轉加速度扭矩 [Nm]
- M_{idle} = 最大空載扭矩 [Nm]³
- F_x = 進給力 [N]
- d_o = 皮帶輪直徑 [mm]
- F_a = 所需的加速力 [N]
- J_{syn} = 皮帶輪慣量 [kgm²]⁴
- n_{max} = 所需的最大轉速 [rpm]
- a = 所需最大加速度 [m/s²]
- V_{max} = 所需的最大直線速度 [m/s]

¹ 總質量為所有待移動質量的總和（待移動的物體、滑架/杆、絲杠）。

² 垂直應用中，由于存在重力加速度（9,81 m/s²），必須加上重力加速度。

³ 該數值可在各個系列的最大空載扭矩表中查到。

⁴ 該數值可在下表中查到。

	ITO40	ITO / ITC60	ITO / ITC80	ITO / ITC100	TSG / TWG45	TSG / TWG65	YTO / YTC135	YTO / YTC170
皮帶輪慣量 (JSYN) , [kgm ²]	1.34x10 ⁻⁵	8.42x10 ⁻⁵	3.38x10 ⁻⁵	1.17x10 ⁻⁵	2.3x10 ⁻⁵	2.25x10 ⁻⁵	7.44x10 ⁻⁵	3.88x10 ⁻⁵

Feed Force Formula [N]

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

Acceleration Force Formula [N]

$$F_a = m \times a$$

Power Formula [kW]

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

Drive Moment Formulas [Nm]

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

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

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

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

Midle = see table for unit in question

F_x = feed force [N]
 m = total mass to be moved [kg]¹
 g = acceleration due to gravity [m/s²]
 μ = friction factor specific for each unit

F_a = acceleration force [N]
 m = mass to be operated [kg]
 a = acceleration [m/s²]²

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

M_A = required drive moment [Nm]
 M_{load} = moment as a result of various loads [N]
 M_{trans} = translational acceleration moment [Nm]
 M_{rot} = rotational acceleration moment [Nm]
 M_{idle} = max no-load driving torque [Nm]³
 F_x = feed force [N]
 d_o = pulley diameter [mm]
 F_a = maximum required acceleration force [N]
 J_{syn} = inertia of pulleys per meter[kgm²]⁴
 n_{max} = maximum required rotational speed [rpm]
 a = maximum required acceleration [m/s²]
 V_{max} = maximum required linear speed [m/s]

¹ The total mass is the mass of all masses to be moved (objects to be moved, carriage(s)/rod, belt).

² In vertical applications, the mass acceleration must be added to the acceleration due to gravity g (9,81 m/s²).

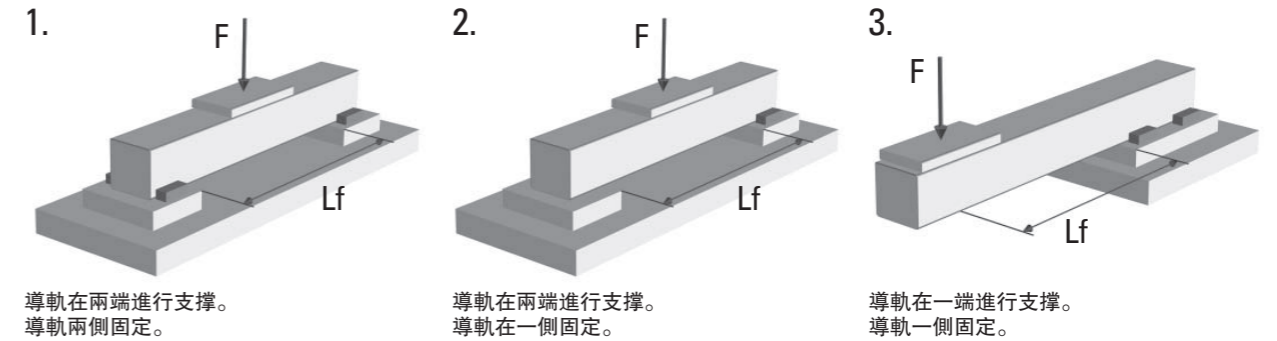
³ This value can be found in the carriage idle torque tables.

⁴ This value can be found in the performance specifications tables for each linear motion system.

⁵ This value can be found in the additional technical data tables.

	ITO40	ITO / ITC60	ITO / ITC80	ITO / ITC100	TSG / TWG45	TSG / TWG65	YTO / YTC135	YTO / YTC170
Idle Torque Of Pulleys (JSYN) , [kgm ²]	1.34×10 ⁻⁵	8.42×10 ⁻⁵	3.38×10 ⁻⁵	1.17×10 ⁻⁵	2.3×10 ⁻⁵	2.25×10 ⁻⁵	7.44×10 ⁻⁵	3.88×10 ⁻⁵

負載類型



容許的導軌撓度算式[mm]

$$f_h = L_f \times b$$

f_h = 容許的導軌撓度 [mm]
 L_f = 撓曲導軌的長度 [mm]
 b = 撓曲係數¹

導軌撓度算式[mm]

負載類型 1.

$$f_{max} = \frac{m'_{100} \times g \times L_f^4}{100 \times 384 \times EAI \times I_y} + \frac{(m_{ext} \times m_c) \times g \times L_f^3}{192 \times EAI \times I_y}$$

負載類型 2.

$$f_{max} = \frac{m'_{100} \times g \times L_f^4}{100 \times 185 \times EAI \times I_y} + \frac{(m_{ext} \times m_c) \times g \times L_f^3}{48 \times \sqrt{5} \times EAI \times I_y}$$

負載類型 3.

$$f_{max} = \frac{m'_{100} \times g \times L_f^4}{100 \times 8 \times EAI \times I_y} + \frac{(m_{ext} \times m_c) \times g \times L_f^3}{3 \times EAI \times I_y}$$

f_{max} = 導軌撓度 [mm]
 m'₁₀₀ = 每100行程重量 [kg]²
 m_{ext} = 滑架上的外部負載 [kg]
 m_c = 滑架重量 [kg]²
 g = 重力加速度 [m/s²]
 EAI = 鋁彈性模量 (70000 N/mm²)
 I_y = Y方向導軌的幾何慣性矩 [mm⁴]¹

¹ 這個值可以在附加技術數據表中查到。

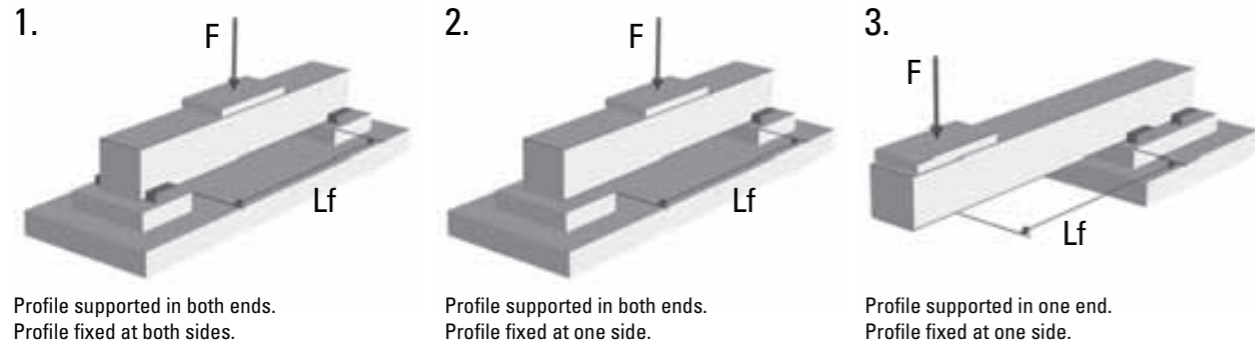
² 該數值可在各個單元的性能規格表中查到。

結論算式

f_h > f_{max} = 撓度滿足要求

f_h < f_{max} = 撓度不符合要求, L_f 必須縮短

Load Cases



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

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

3. 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 factor ¹

Profile Deflection Formulas [mm]

Load Case 1.

$$f_{max} = \frac{m'_{100} \times g \times L_f^4}{100 \times 384 \times EAI \times I_y} + \frac{(m_{ext} + m_c) \times g \times L_f^3}{192 \times EAI \times I_y}$$

Load Case 2.

$$f_{max} = \frac{m'_{100} \times g \times L_f^4}{100 \times 185 \times EAI \times I_y} + \frac{(m_{ext} + m_c) \times g \times L_f^3}{48 \times \sqrt{5} \times EAI \times I_y}$$

Load Case 3.

$$f_{max} = \frac{m'_{100} \times g \times L_f^4}{100 \times 8 \times EAI \times I_y} + \frac{(m_{ext} + m_c) \times g \times L_f^3}{3 \times EAI \times I_y}$$

f_{max} = deflection of the profile [mm]
 m'_{100} = weight of every 100 mm of stroke [kg/mm]
 m_{ext} = external load on carriage [kg]
 m_c = weight of carriage(s) [kg] ²
 g = acceleration due to gravity [m/s²]
 EAI = elastic modulus of aluminium (70000 N/mm²)
 I_y = geometrical moment of inertia of the profile in Y direction [mm⁴] ¹

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

² This value can be found in the performance specifications tables for each unit.

Conclusion Formulas

$f_h > f_{max}$ = deflection OK

$f_h < f_{max}$ = deflection not OK, L_f must be shorter

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
 $I_y = 1,93 \times 10^9$ 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
 $I_y = 4,59 \times 10^9$ 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
 $I_y = 1,85 \times 10^9$ 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:
 $m'_{100} = 0,53 \text{ kg}$
 $m_c = 1,2 \text{ kg}$
 $EAI = 70000 \text{ N/mm}^2$
 $I_y = 4,59 \times 10^5 \text{ mm}^4$
 $b = 0,0005$

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

詞匯表 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，请联系我们的客户服务部门。

精度

精度分为几种不同的类型。许多因素都会对系统的整体精度造成影响。另请参见“重复精度”，“定位精度”。

滚珠螺杆驱动

滚珠丝杠由一个旋转丝杠和一个移动滚珠螺母组成。滚珠螺母固定在单元的滑架上。没有正常的线程，相反的是滚珠在螺母中循环作为沿着丝杠运行的高效滚珠轴承工作。滚珠丝杠有多种导程、直径和精度等级可选。精度等级（C3, C5, C7 或 C10）表示丝杠的导程公差。数字越小，精度越高。滚珠丝杠驱动单元的典型特性为高负载性能和高精度。

皮帶驱动

皮带驱动固定在单元滑架上的齿形皮带组成。皮带在定位在导轨一端两个皮带轮之间运行。一个皮带轮通过驱动轴连接到电机的驱动站，另一个皮带轮则安装在张紧站。皮带由强化钢芯塑料制成。皮带驱动单元的典型特性为高速度、长行程、低噪音和低总体质量。

皮帶傳動機構

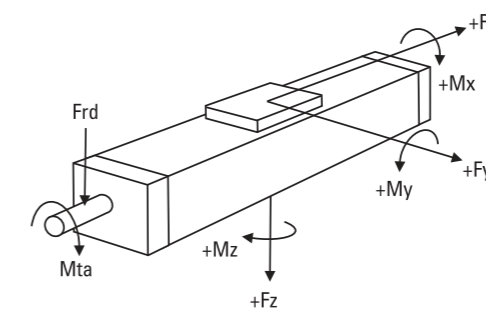
皮带传动机构包含一条运行在两个不同直径的皮带轮之间的同步带。皮带轮直径的差异决定了传动比的大小。皮带齿轮运行安静，精度达到中等水平且无需维护，但在过载情况下很容易损坏。

危險轉速

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。

作用力示意圖

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。



導軌撓度

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

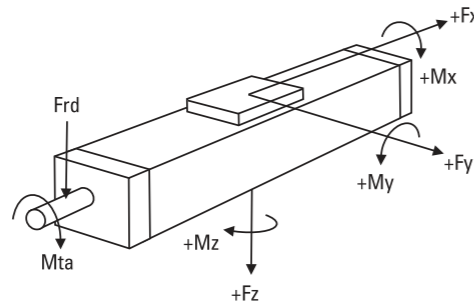
A belt gear consists of a timing belt that runs between two pulley wheels of different diameters. The difference between the diameters determines the gear ratio. Belt gears are quiet, have medium accuracy and require no maintenance but are susceptible to belt breakage under overload conditions.

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.

空載轉矩

空載轉矩是指移动无负载滑架时，旋转驱动轴所需的扭矩。空載轉矩因输入速度而异，产品页上的空載轉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/长滑架的准确扭矩值，请联系我们的客服部门。

慣性

慣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，对慣性的考虑非常重要。更多相关信息，请咨询我们的客户服务部门。

預期壽命

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。

額定負載

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、慣量和加速力、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

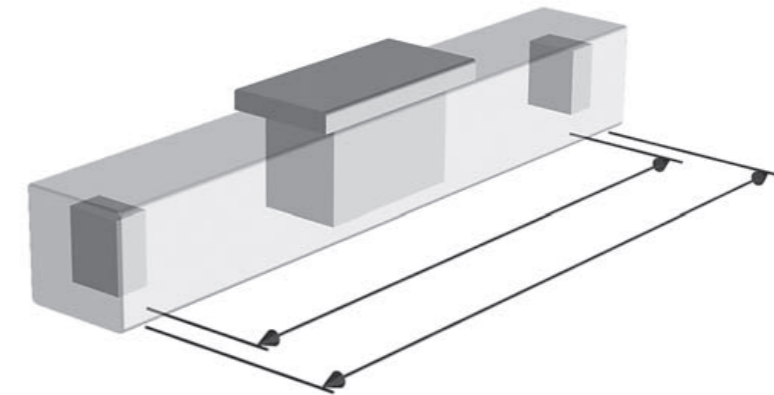
定位精度指期望位置与实际位置之间的偏差，是所有可能造成精度降低的因素（即重复精度，背隙，分辨率，丝杠/皮带精度，电机、驱动和运动控制系统精度）叠加的结果。有些因素，如背隙和导轨精度，有时能够通过使用运动控制系统的软件进行补偿。同时参见“精度”。

重復精度

重復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。影响重復精度的因素是电机角度重復精度，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（Smax）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Smax。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 unit and do not describe the actual performance of the complete unit.

Positioning Accuracy

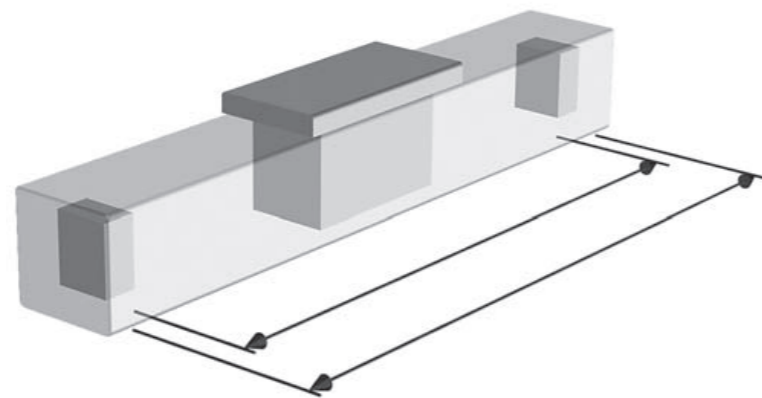
Positioning accuracy is the error between the expected and actual position and is the sum of all factors that will reduce the accuracy (i.e. repeatability, backlash, resolution, screw/belt accuracy, and the accuracy of the motor, drive and motion control system). Some of these factors, such as backlash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

Repeatability

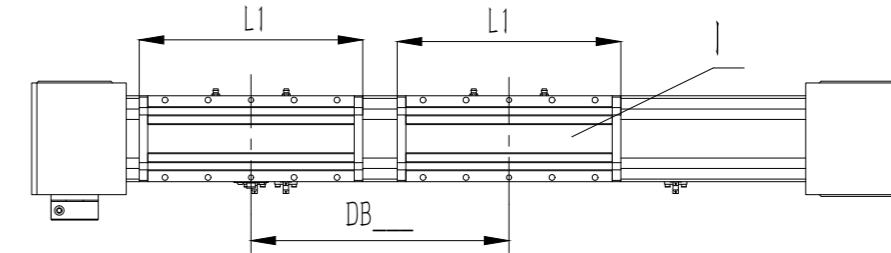
Repeatability is the ability for a positioning system to return to a location when approaching from the same distance, at the same speed and deceleration rate. Some of the factors that affect the repeatability are the angular repeatability of the motor, drive and motion control system, system friction and changes in load, speed and deceleration.

Stroke

The theoretical maximum stroke (S_{max}) 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.



輔助滑塊行程計算方法： Calculation method of the auxiliary block stroke



L1=滑塊長度 DB=滑塊之間的中心距 l=輔助滑塊
L1=Block Length DB=Center l=Auxiliary Block

實例 Example

型號 Item No.: ITO60-500-DB300.....

不帶輔助滑塊的工作行程=500mm

Stroke(without auxiliary block)= 500mm

帶輔助滑塊的工作行程=200mm (500-300=200mm)

Stroke(with auxiliary block)= 200mm (500-300=200mm)

對於帶輔助滑塊的電缸，工作行程會由于滑塊之間的距離而縮短。

For the linear module with auxiliary block, its stroke will be shortened as for the distance of block.

→ Note

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→ Note

A series of horizontal dashed lines for writing notes.

→ Note

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