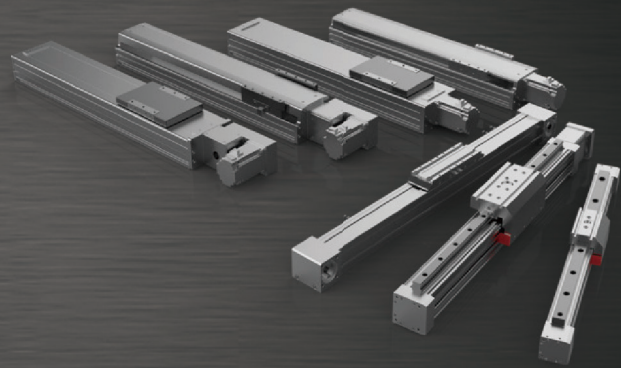


LINEAR PRECISION

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

- 全面的多軸組合產品
- 完美適用各類控制器多點定位
- 多點定位
- 多元化的驅動件選擇
- 選配件多，適用性強
- 精度高，剛性強
- 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

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

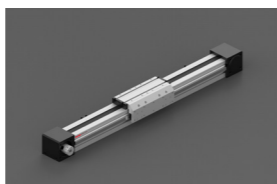
- 產品型號: ITO-40/60/60L/80/80L/100/100L/160
- 直線導軌導向
- 高載荷
- 同步帶驅動半密式
- Part No.: ITO-40 / 60 / 60L / 80 / 80L / 100 / 100L / 160
- With Linear Guide
- High Characteristic Load Values
- Open Type Driven By Belt



P1-P7

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

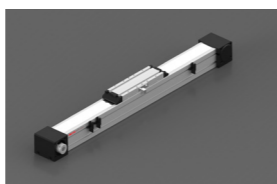
- 產品型號: HTO-80/80L/100/100L
- 直線導軌導向
- 高載荷
- 同步帶驅動半密式
- Part No.: HTO-80 / 80L / 100 / 100L
- With Linear Guide
- High Characteristic Load Values
- Open Type Driven By Belt



P8-P10

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

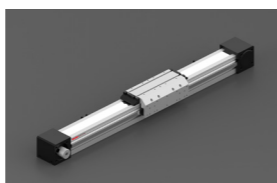
- 產品型號: ITC-60/60L/80/80L/100/100L
- 直線導軌導向
- 高載荷
- 同步帶驅動全密式
- Part No.: ITC-60 / 60L / 80 / 80L / 100 / 100L
- With Linear Guide
- High Characteristic Load Values
- Clean Room Type Driven By Belt



P11-P14

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

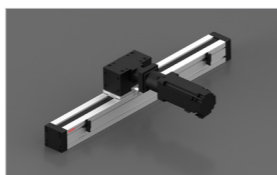
- 產品型號: HTC-80/80L/100/100L
- 直線導軌導向
- 高載荷
- 同步帶驅動全密式
- Part No.: HTC - 80 / 80L / 100 / 100L
- With Linear Guide
- High Characteristic Load Values
- Clean Room Type Driven By Belt



P15-P19

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

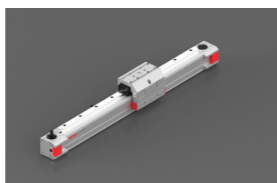
- 產品型號: ITZ-60
- 馬達固定，不增加移動端負載。
- 動態性能好
- 標準軌道
- Part No.: ITZ-60
- Motor Fixed, not increase mobile terminal load
- Good dynamic performance
- Standard Rail



P20-P21

歐標高軌同步帶驅動型 / Belt Driven Linear Actuator

- 產品型號: TSG-45/65
- 直線導軌導向
- 高載荷
- 標準軌道
- Part No.: TSG-45/65
- With Linear Guide
- High Characteristic Load Values
- Standard Rail



P22-P24

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

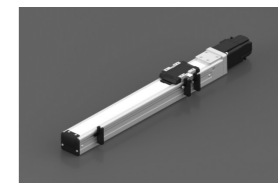
- 產品型號: YSO-100/110/135/170/220
- 高載荷
- 高精度
- 半密型
- Part No.: YSO-100 / 110 / 135 / 170 / 220
- High Characteristic Load Values
- High Precision
- Open Type Driven By Ball Screw



P25-P44

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

- 產品型號: YSC-50/65/100/110/135/170
- 高載荷
- 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



P45-P62

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

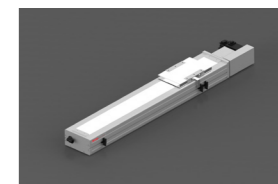
- 產品型號: YTO-100/110/135/135M/170/220
- 速度快
- 高加速度
- 半密型
- Part No.: YTO-100/110/135/135M/170/220
- High Speed
- High Acceleration
- Open Type Driven By Belt



P63-P98

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

- 產品型號: 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



P99-P116

多軸組合 / Mutiaxis System

- 多軸組合安裝
- 選配件多樣化
- 個性化定制與服務
- 交期快
- Multi-axis System Installation
- Variety Choices Of Components
- Personalized Customization And Service
- Fast Delivery



P117-P119

驅動計算 / Drive Calculations

P120-P122

撓度計算 / Deflection Calculations

P123-P126

詞匯表 / Glossary

P127-P131

輔助滑塊 / Auxiliary Block

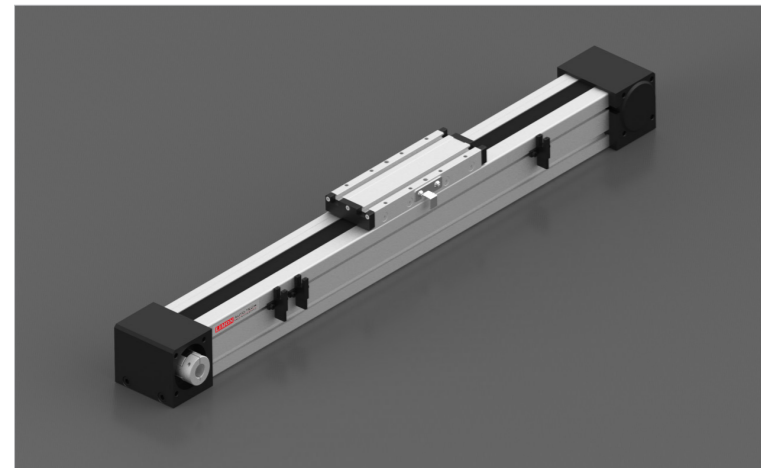
P132

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

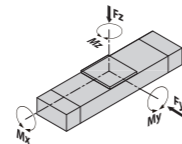
訂購型號代碼 Code

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 <small>未標注: 標準滑塊 L: 加長滑塊</small>	馬達方向 <small>Motor Mounting Position</small>	輔助滑塊 <small>Auxiliary Block 未標注: 標準滑塊 DB: 輔助滑塊</small>	減速比 <small>Reduction ratio</small>	馬達廠牌、功率 <small>Motor Brand, Power Output</small>	限位傳感器數量 <small>Photoelectric Sensor</small>	特注式樣 <small>Special Order No.</small>
ITO40	100-4000, 間隔Gap100		D01		G3 1:3	M 三菱 Mitsubishi 10 100W	P1: 1祇 1PC	
ITO60			D02		G4 1:4	P 松下 Panasonic 20 200W	P2: 2祇 2PCS	
ITO80			D03		G5 1:5	Y 安川 Yaskawa 40 400W	P3: 3祇 3PCS	
ITO100			D04		G7 1:7	D 台達 Delta 75 750W	未標記: 無 No Mark/No Sensor	
			D05		G10 1:10	1K 1000W		

注: 輔助滑塊選項相關參數參見樣本P132.



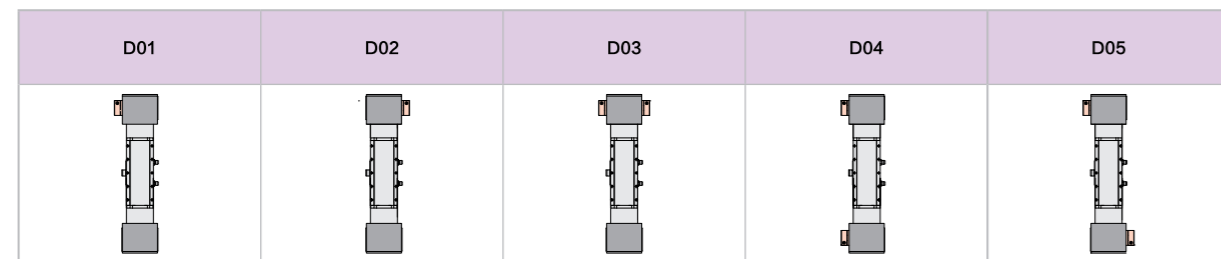
最大動態力和力矩 Max Permissible Forces And Torques



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

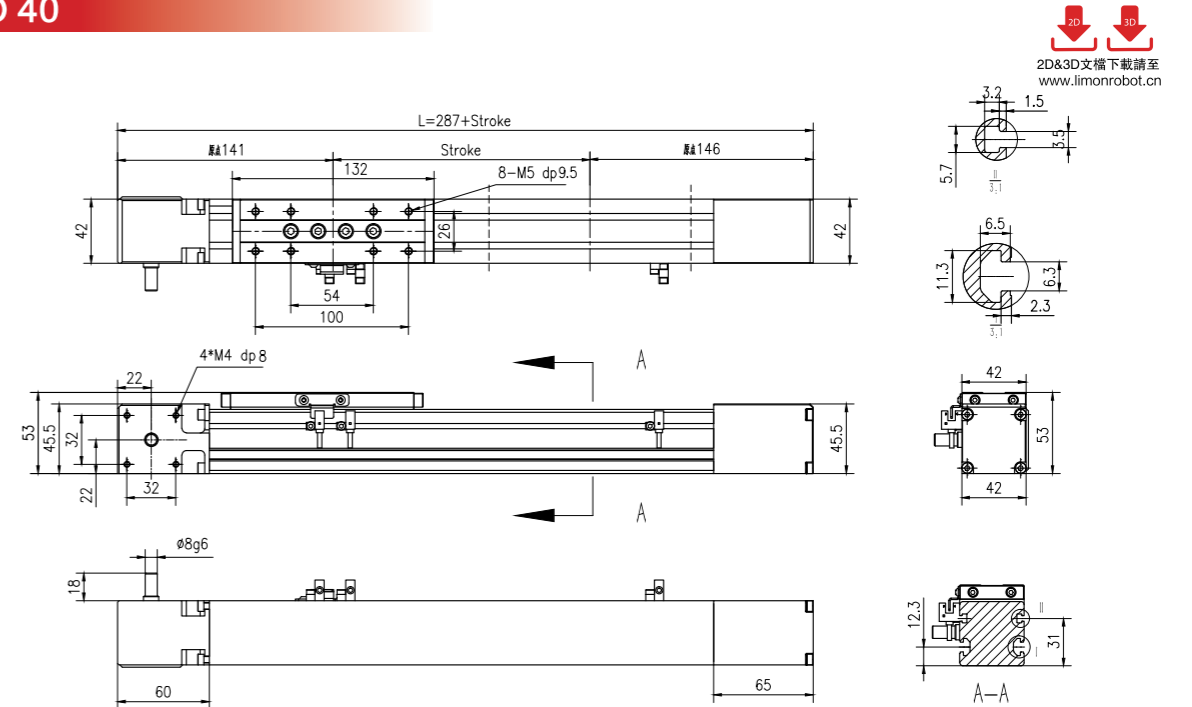
ITO		40	60	60-L	80	80-L	100	100-L	
技術參數 <small>Technical Parameters</small>	位置重複精度 Repetitive Accuracy (mm)	±0.05							
	皮帶輪導程 Pulley Lead (mm)	99	130		176		224		
	皮帶型號 Belt Type	3M-10	5M-25		8M-30		8M-50		
	最高速度 Maximum Speed (mm/s)	3000	5000		5000		5000		
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	10	30	45	50	75	80	120
		垂直使用Vertical (kg)	8	20	30	40	60	60	90
	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		
基本規格 <small>Basic Specification</small>	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	12# × 1PCS	15# × 1PCS		20# × 1PCS		25# × 1PCS		
	主機載面最大外形 Max Outline of Main Engine's Cross Section (mm)	42 × 53	80 × 79		100 × 106		130 × 130		
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 accelerated speed.Please refer to the LIMON calculate software.

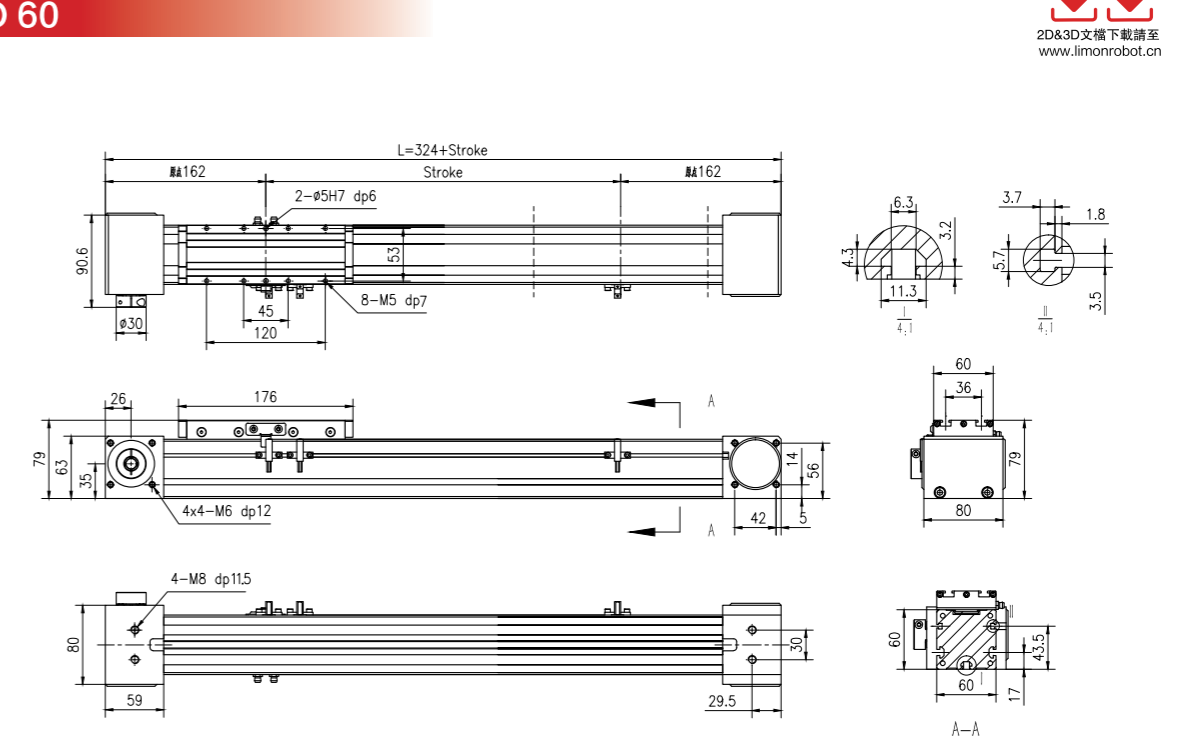
歐標半密式同步帶驅動型 ITO 40/60/80/100 Belt Driven Linear Actuator

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

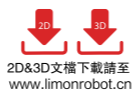
ITO 60



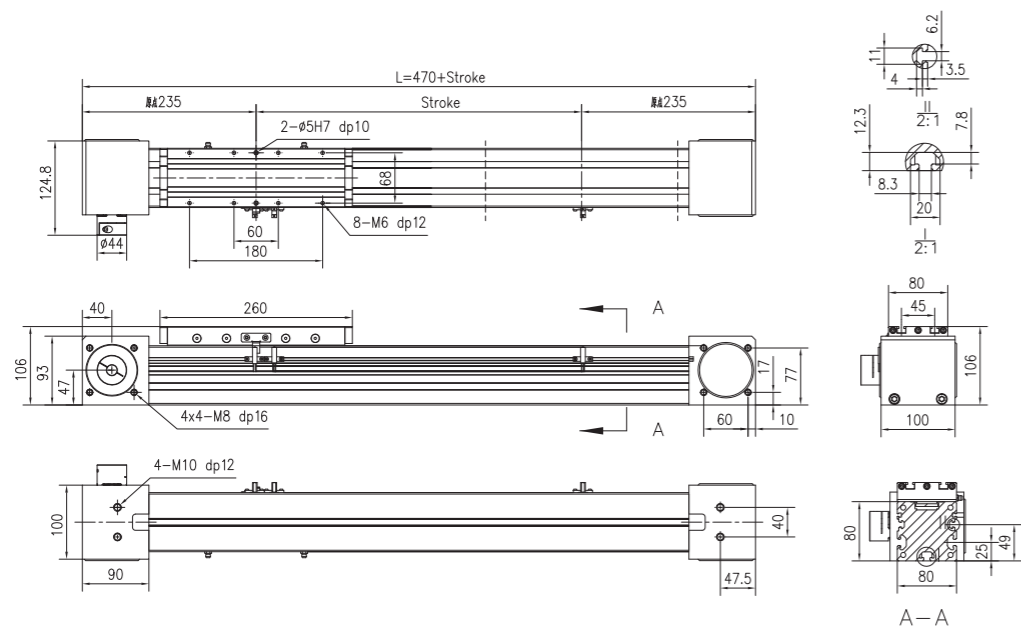
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	424	524	624	724	824	924	1024	1124	1224	1324	1424	1524	1624	1724	1824	1924	2024	2124	2224	2324
重量 Weight (kg)	2.5	3.0	3.5	4.0	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.7	10.2	10.7	11.2	11.7	12.2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

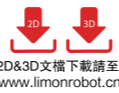


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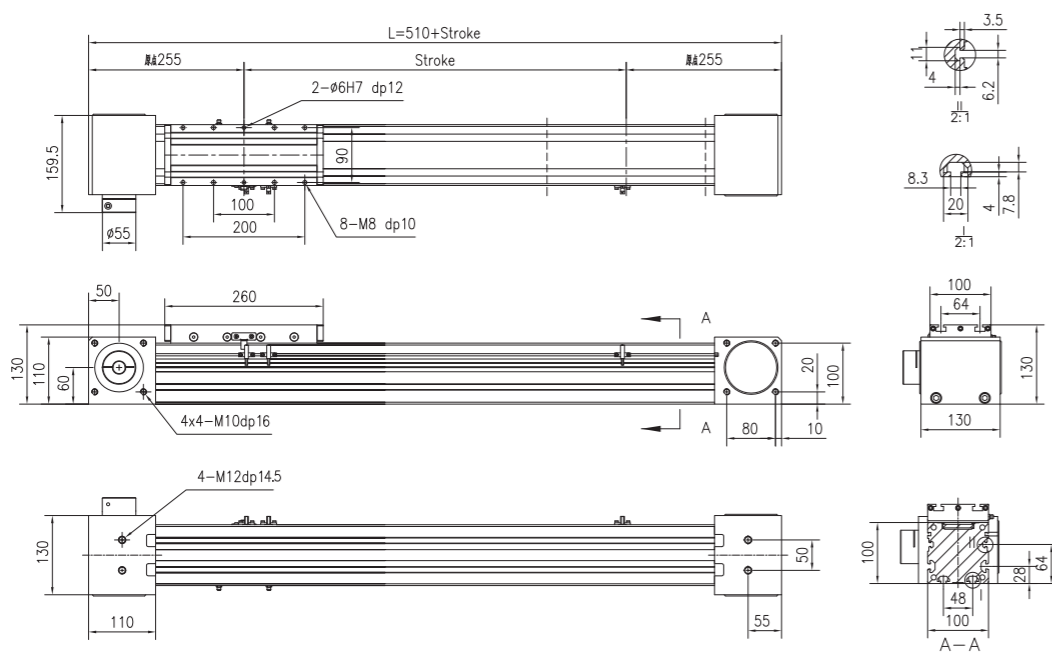


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	570	670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370	2470
重量 Weight (kg)	9.1	9.9	10.8	11.6	12.5	13.4	14.2	15.1	15.9	16.8	17.7	18.5	19.4	20.2	21.1	22.0	22.8	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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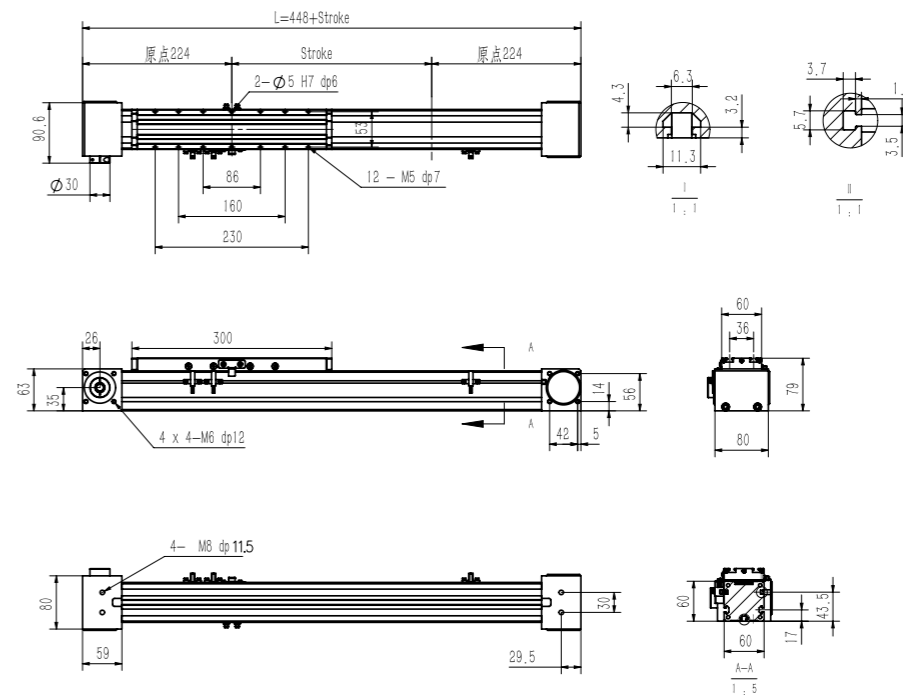
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510
重量 Weight (kg)	15.5	16.8	18.0	19.2	20.5	21.7	22.9	24.1	25.4	26.6	27.8	29.1	30.3	31.5	32.8	34.0	35.2	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

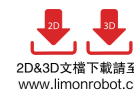


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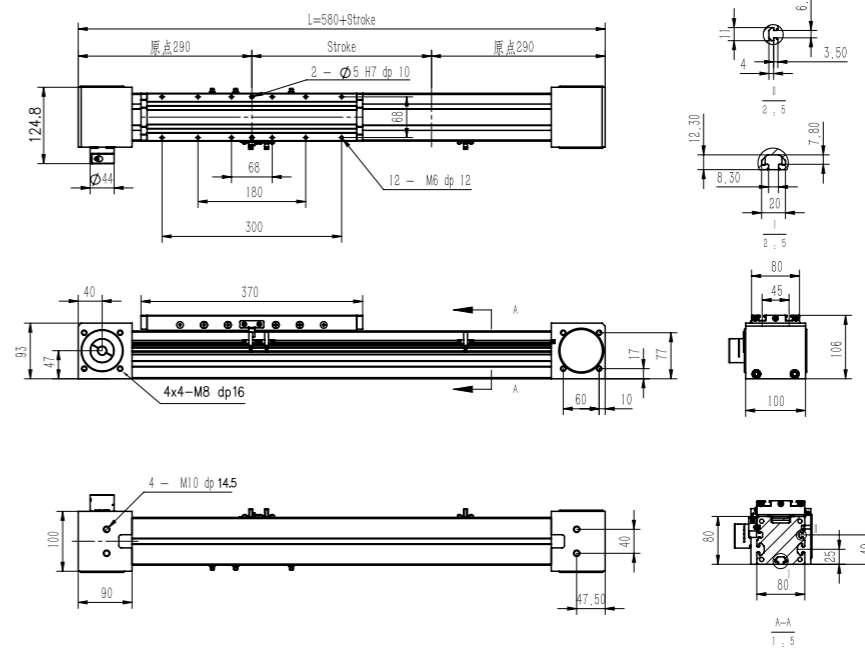


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	548	648	748	848	948	1048	1148	1248	1348	1448	1548	1648	1748	1848	1948	2048	2148	2248	2348	2448
重量 Weight (kg)	3.8	3.3	3.8	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3
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

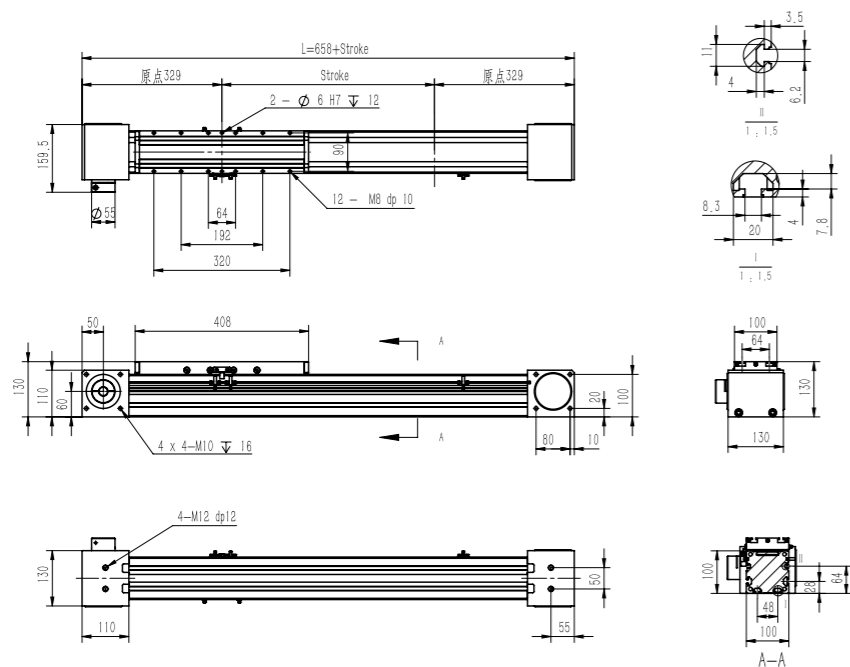
ITO 40/60/80/100 歐標半密式同步帶驅動型

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

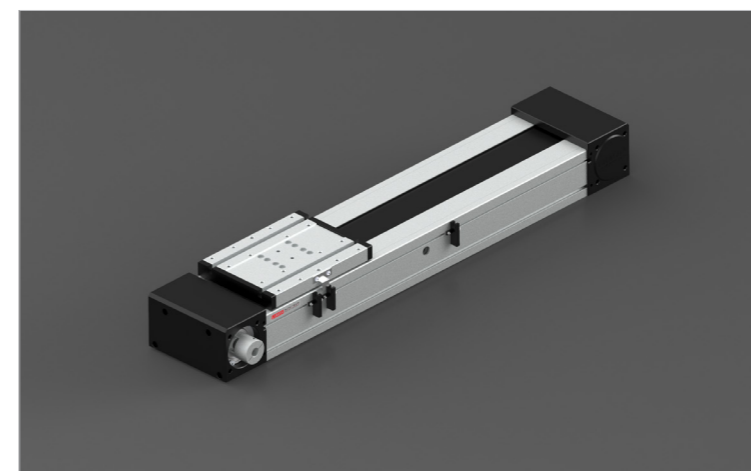
歐標半密式同步帶驅動型 ITO 160

Belt Driven Linear Actuator

訂購型號代碼 Code

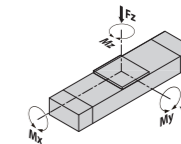
本體型號 Item NO.	行程 Stroke	是否加長滑塊	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	減速比 Reduction ratio	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
ITO160	100-4000, 間隔Gap100	未標注: 標準滑塊 L: 加長滑塊	D01 D02 D03 D04 D05 D06	未標注: 標準滑塊 DB: 輔助滑塊	G3 1:3 G4 1:4 G5 1:5 G7 1:7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

注: 輔助滑塊選項相關參數參見樣本P132.



最大動態力和力矩

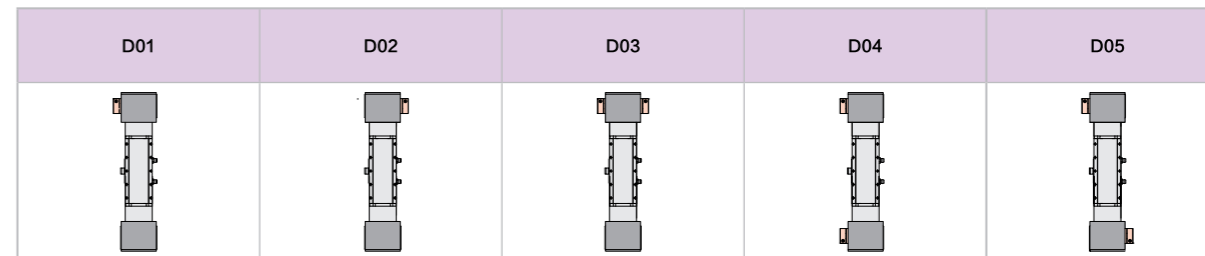
Max Permissible Forces And Torques



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

除了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

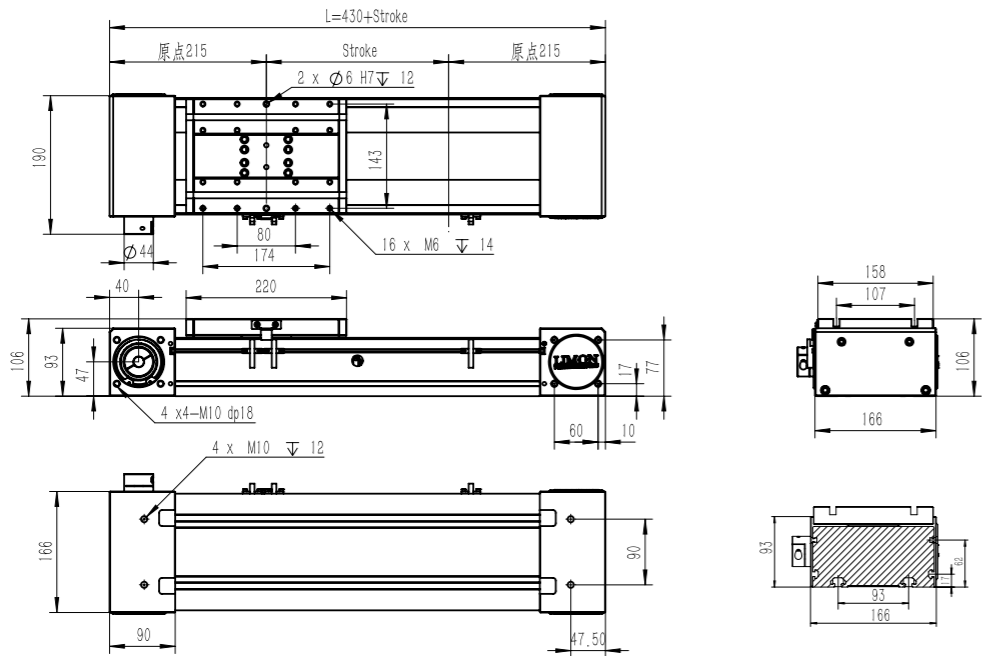
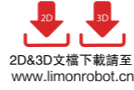
ITO		160	
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.05	
	皮帶輪導程 Pulley Lead (mm)	176	
	皮帶型號 Belt Type	8M-70	
	最高速度 Maximum Speed (mm/s)	5000	
	最大可搬重量 Maximum Payload	水平使用 Horizontal (kg)	160
		垂直使用 Vertical (kg)	120
	最大空載扭矩 Max. No-load Driving Torque (N·m)	1.2	
最大扭矩 Max. Driving Torque (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	
	高剛性直線滑軌 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: Data changes relevently according to different torque and acclerated 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



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

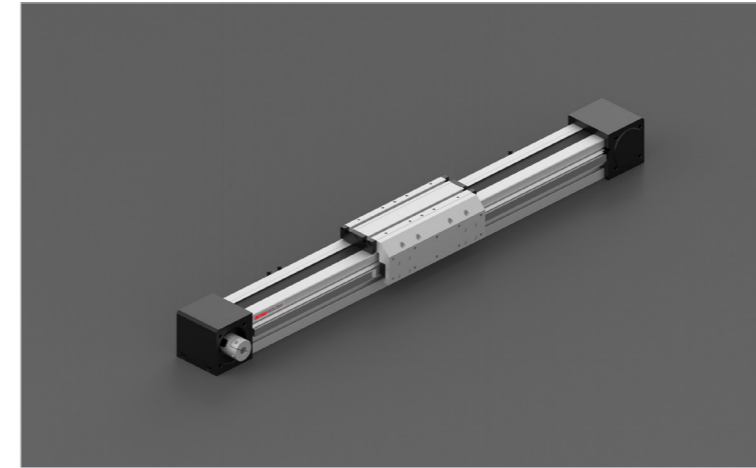
歐標半密式同步帶驅動側軌加強型 HTO 80/100

Belt Driven Linear Actuator

訂購型號代碼 Code

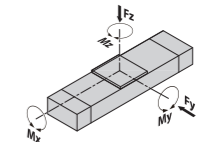
HTO80	500	L	D01	DB	G5	M40	P3	A001
本體型號 Item NO.	行程 Stroke	是否加長滑塊	馬達方向	輔助滑塊	減速比	馬達廠牌、功率	限位傳感器數量	特注式樣
HTO80	100-4000,間隔Gap100	未標注:標準滑塊 L: 加長滑塊	Motor Mounting Position D01 D02 D03 D04 D05 D06	未填寫:單滑塊 DB: 輔助滑塊	G3 1:3 G4 1:4 G5 1:5 G7 1:7 G10 1:10 未標記:無減速比	M 三菱 Mitsubishi 10 / P 松下 Panasonic 20 200W Y 安川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

注: 輔助滑塊選項相關參數參見樣本P132.



最大動態力和力矩

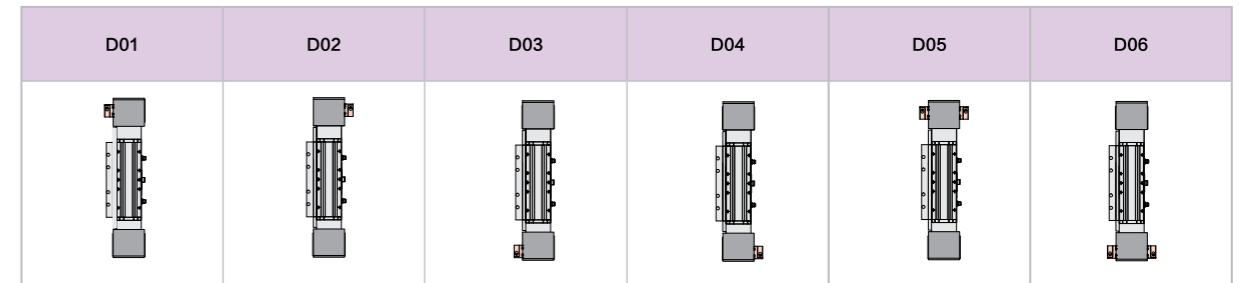
Max Permissible Forces And Torques



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	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	8M-30	8M-50	8M-50		
	最高速度 Maximum Speed (mm/s)	5000	5000	5000	5000		
	Technical Parameters	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	0.9	1.4	1.4	
最大扭矩 Max. Driving Torque (N·m)	49.8	49.8	105.7	105.7			
基本規格	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)						

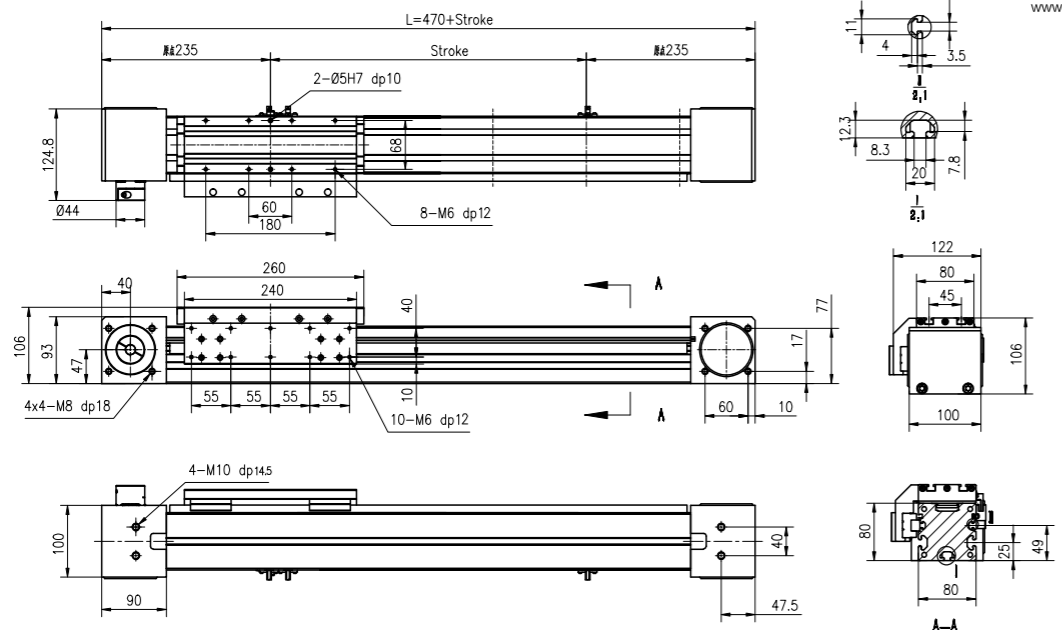
#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。

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

HTO 80/100 歐標半密式同步帶驅動側軌加強型

Belt Driven Linear Actuator

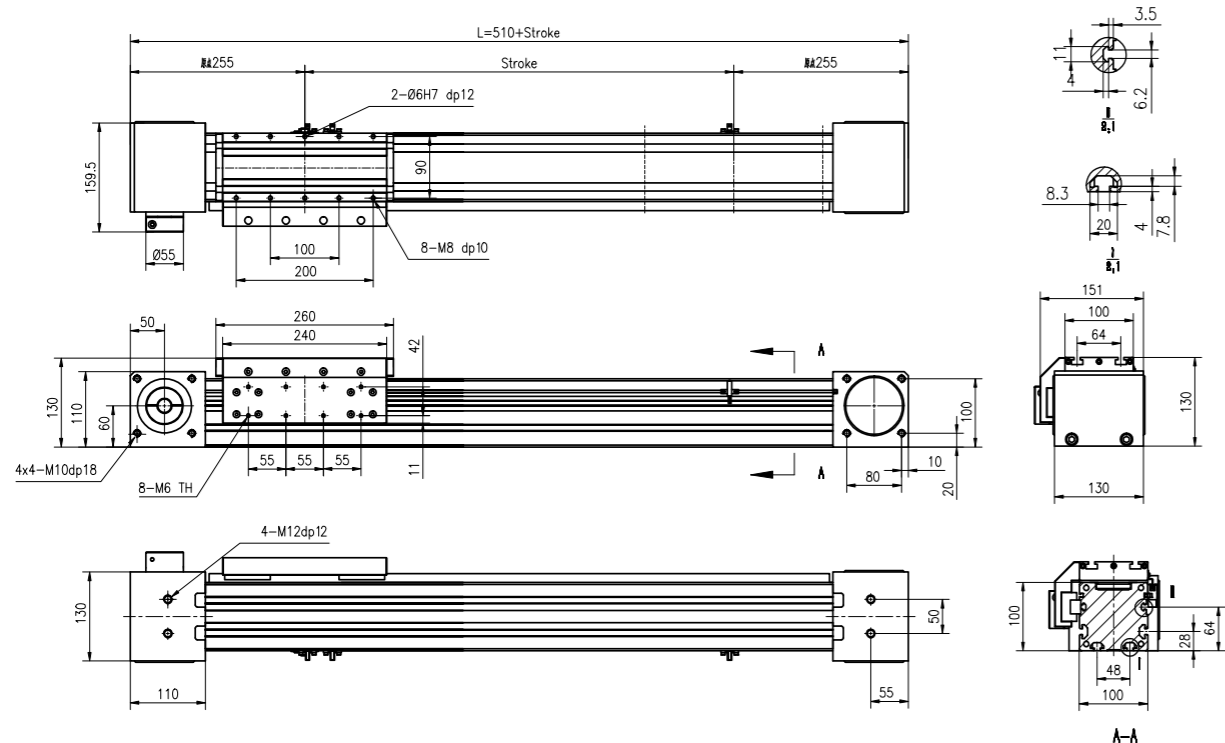
HTO 80



2D&3D文檔下載請至
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	570	670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370	2470
重量 Weight (kg)	10.4	11.4	12.4	13.4	14.4	15.4	16.4	17.4	18.4	19.4	20.4	21.4	22.4	23.4	24.4	25.4	26.4	27.4	28.4	29.4
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2570	2670	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070	4170	4270	4370	4470
重量 Weight (kg)	30.4	31.4	32.4	33.4	34.4	35.4	36.4	37.4	38.4	39.4	40.4	41.4	42.4	43.4	44.4	45.4	46.4	47.4	48.4	49.4

HTO 100



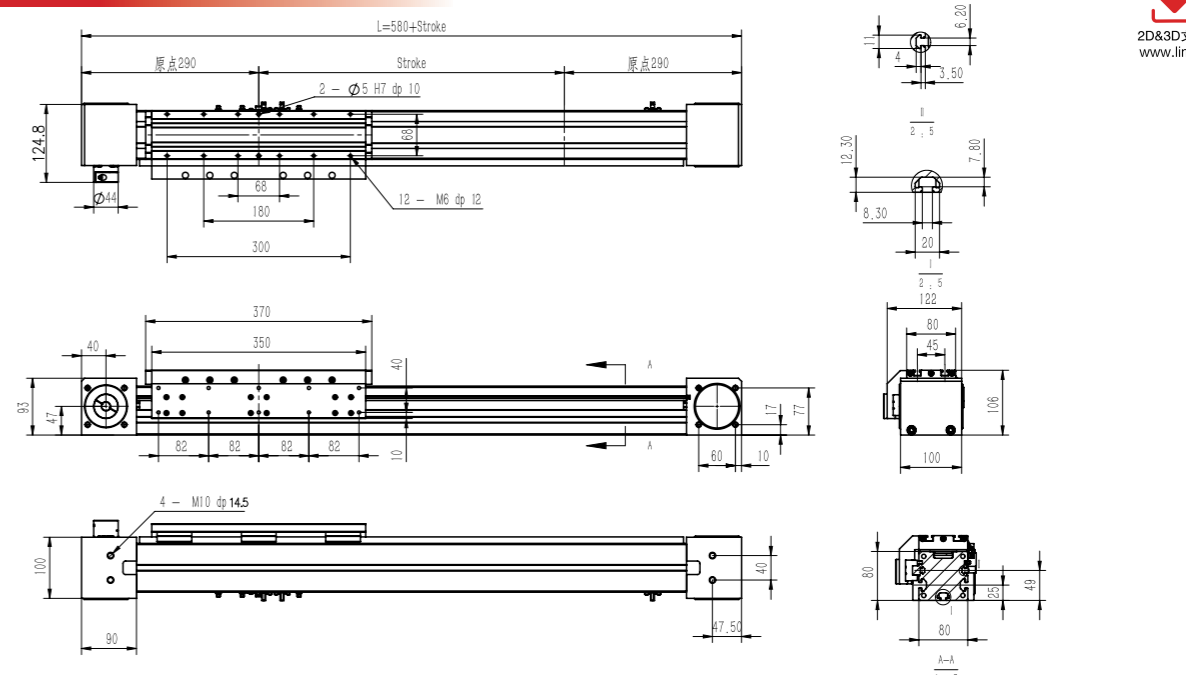
2D&3D文檔下載請至
www.limonrobot.cn

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	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	18.2	19.4	20.6	21.8	23	24.2	25.4	26.6	27.8	29	30.2	31.4	32.6	33.8	35	36.2	37.4	38.6	39.8
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	43.2	45.4	47.6	49.8	52	54.2	56.4	58.6	60.8	63	65.2	67.4	69.6	71.8	74	76.2	78.4	80.6	82.8

HTO 80/100 歐標半密式同步帶驅動側軌加強型

Belt Driven Linear Actuator

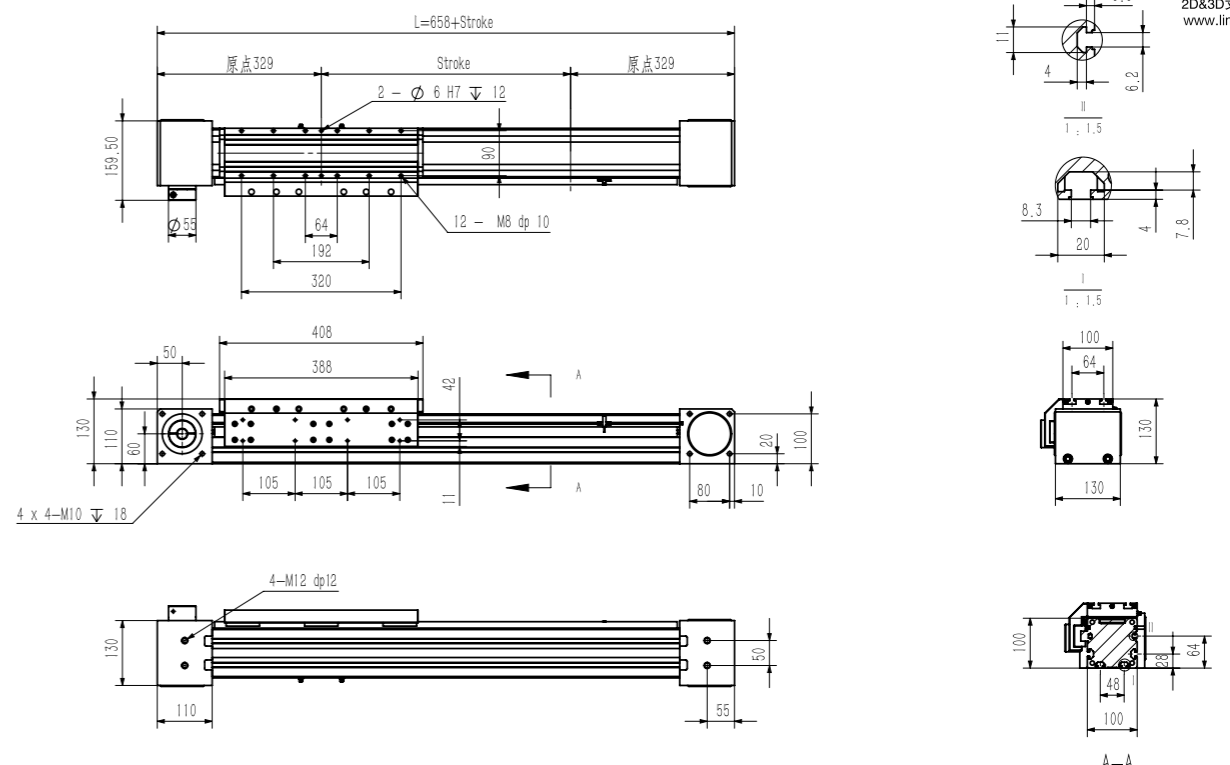
HTO 80-L



2D&3D文檔下載請至
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	680	780	880	980	1080	1180	1280	1380	1480	1580	1680	1780	1880	1980	2080	2180	2280	2380	2480	2580
重量 Weight (kg)	11.2	12.2	13.2	14.2	15.2	16.2	17.2	18.2	19.2	20.2	21.2	22.2	23.2	24.2	25.2	26.2	27.2	28.2	29.2	30.2
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	2680	2780	2880	2980	3080	3180	3280	3380	3480	3580	3680	3780	3880	3980	4080	4180	4280	4380	4480	4580
重量 Weight (kg)	31.2	32.2	33.2	34.2	35.2	36.2	37.2	38.2	39.2	40.2	41.2	42.2	43.2	44.2	45.2	46.2	47.2	48.2	49.2	

HTO 100-L



2D&3D文檔下載請至
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	758	858	958	1058	1158	1258	1358	1458	1558	1658	1758	1858	1958	2058	2158	2258	2358	2458	2558	2658
重量 Weight (kg)	17.6	18.4	19.2	20	20.8	21.6	22.4	23.2	24	24.8	25.6	26.2	27.2	28	28.8	29.6	30.4	31.2	32	32.8
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)	33.6	34.4	35.2	36	36.8	37.6	38.4	39.2	40	40.8	41.6	42.4	43.2	44	44.8	45.6	46.4	47.2	48	48.8

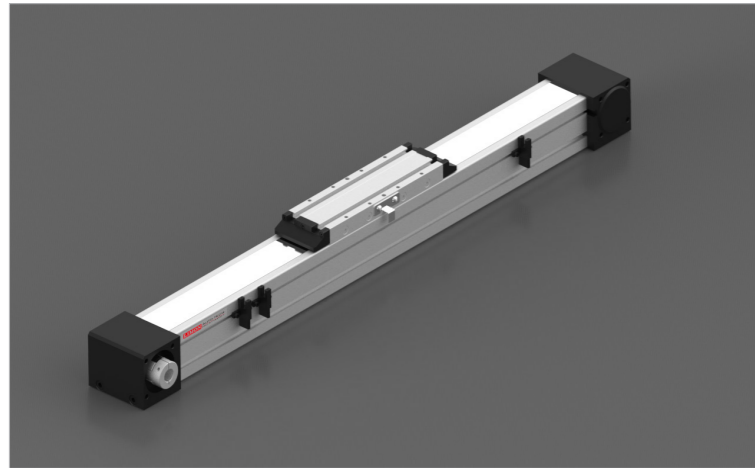
ITC 60/80/100 歐標全密式同步帶驅動型

Belt Driven Linear Actuator

訂購型號代碼 Code

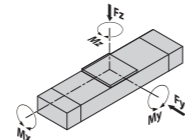
ITC60	500	L	D01	DB 注	G5	M40	P3	A001
本體型號 Item NO.	行程 Stroke	是否加長滑塊	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	減速比 Reduction Ratio	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
ITC60	100-4000, 間隔Gap100	未標注: 標準滑塊 L: 加長滑塊	D01	未填寫: 單滑塊 DB: 輔助滑塊	G3 1:3 G4 1:4 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 750W 1K 1000W	P1: 1祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark/NoSensor	

注: 輔助滑塊選項相關參數參見樣本P132.



最大動態力和力矩

Max Permissible Forces And Torques

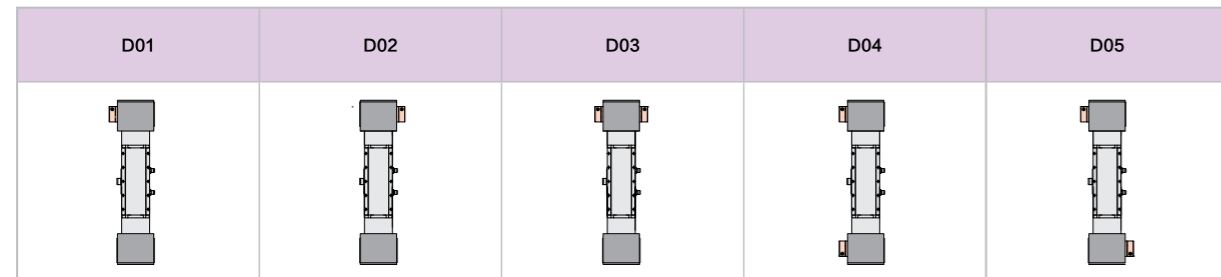


規格 Type	60	60L	80	80L	100	100L
■ F(y) (N)	2457	5235	3131	7277	4375	11675
■ F(z) (N)	3375	5335	5120	7277	7860	11675
■ M(x)(N·m)	22	40	75	75	115	135
■ M(y)(N·m)	78	231	210	558	310	1322
■ M(z)(N·m)	78	231	210	558	310	1322

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 Technical Parameters	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						
	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	0.35	0.5	0.5	0.9	0.9	
最大扭矩 Max. Driving Torque (N·m)	13.3	13.3	49.8	49.5	105.7	105.7		
基本規格 Basic Specification	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
	主機載面最大外形 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)							

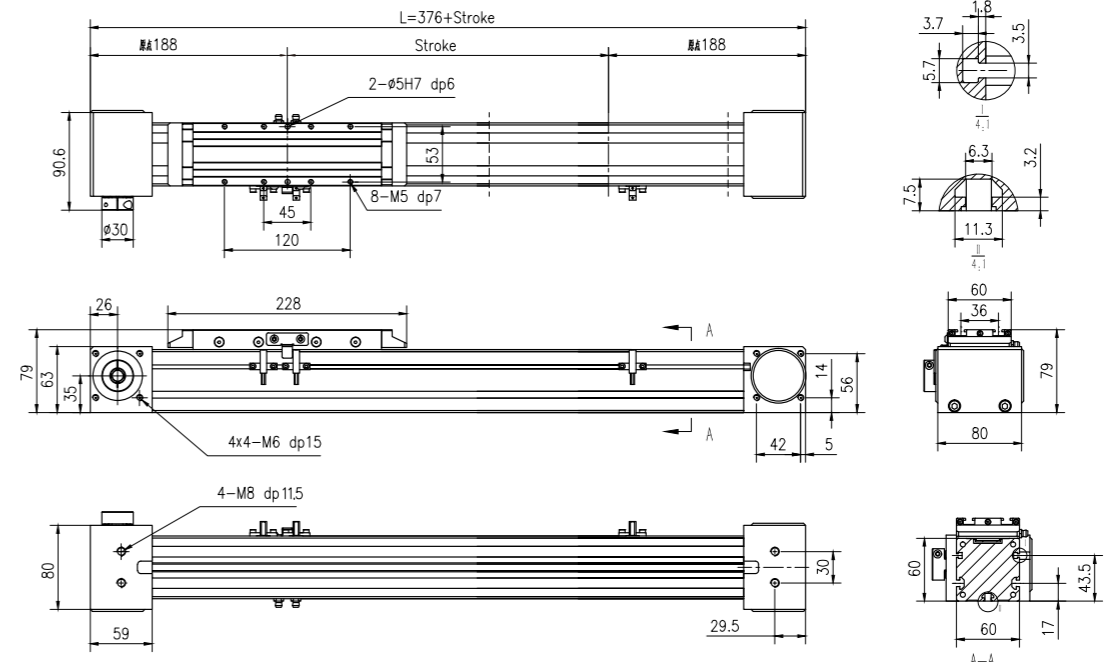
#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。

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

歐標全密式同步帶驅動型 ITC 60/80/100

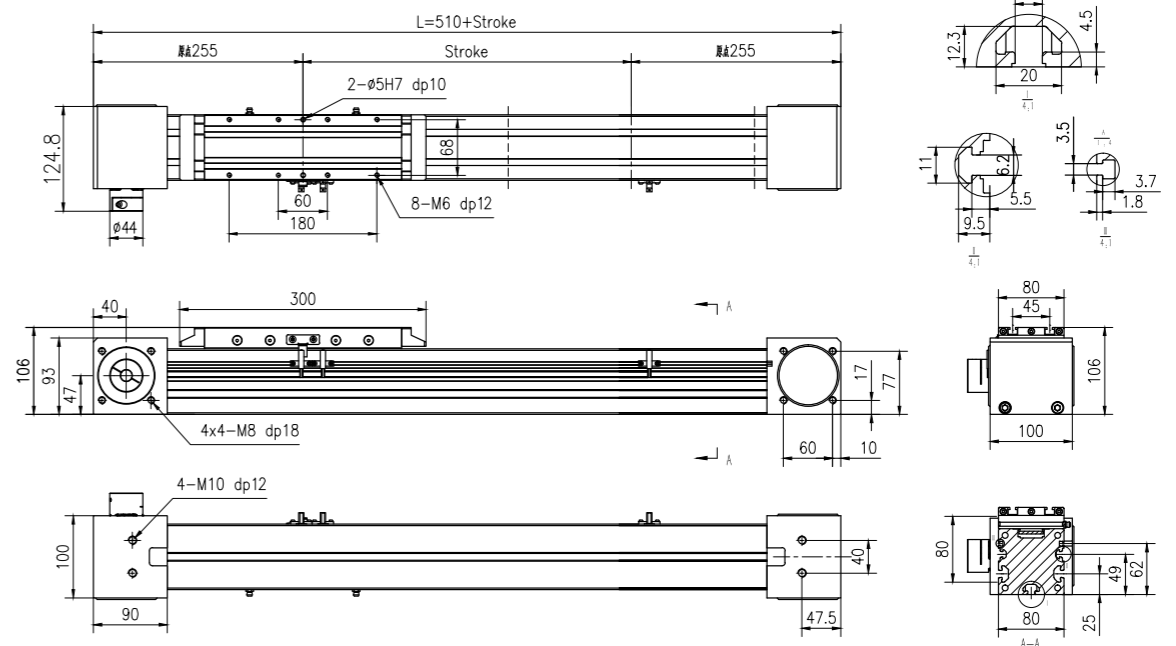
Belt Driven Linear Actuator

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

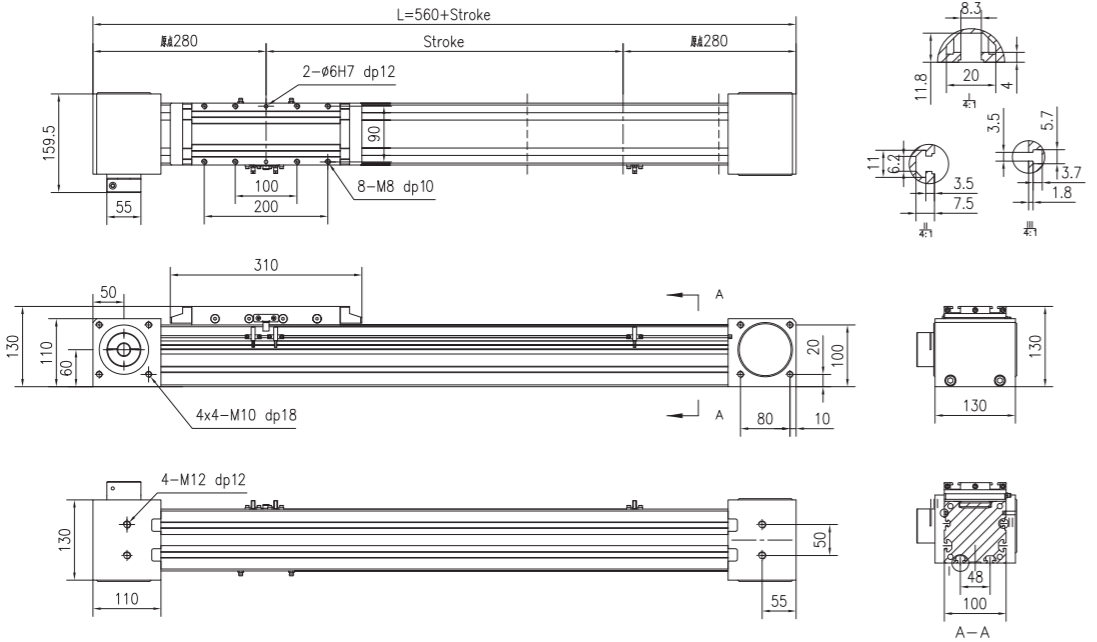


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510
重量 Weight (kg)	9.4	10.2	11.1	11.9	12.8	13.7	14.5	15.4	16.2	17.1	18	18.8	19.7	20.5	21.4	22.3	23.1	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

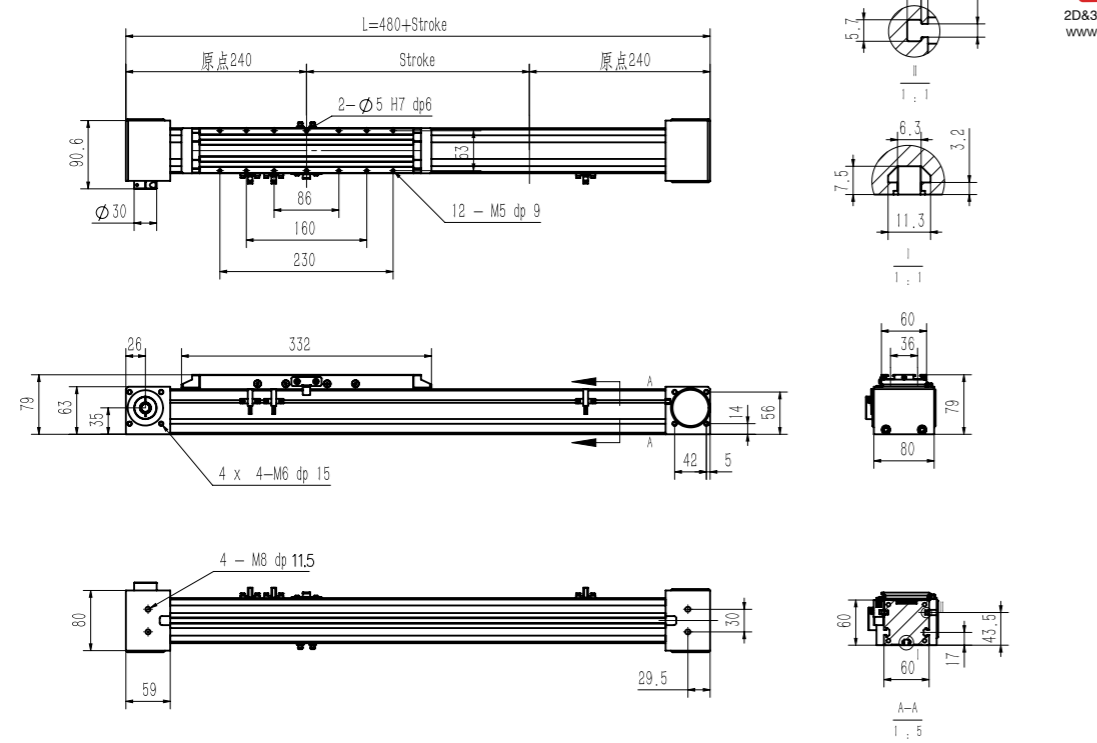
ITC 100



2D&3D文檔下載請至
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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	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



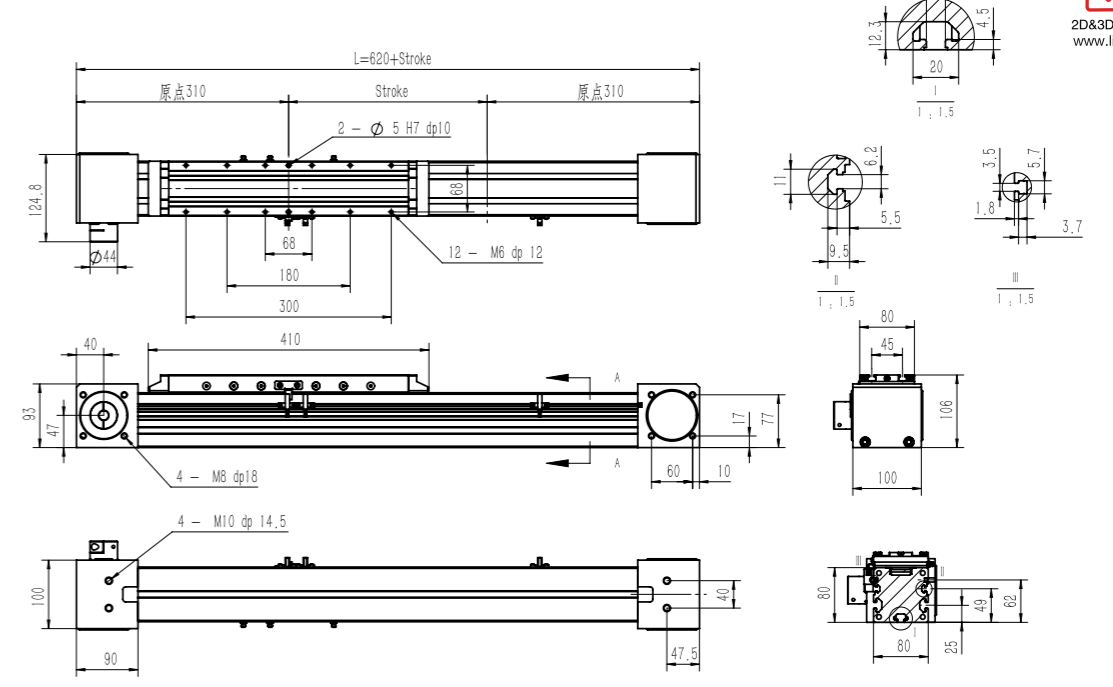
2D&3D文檔下載請至
www.limonrobot.cn

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	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

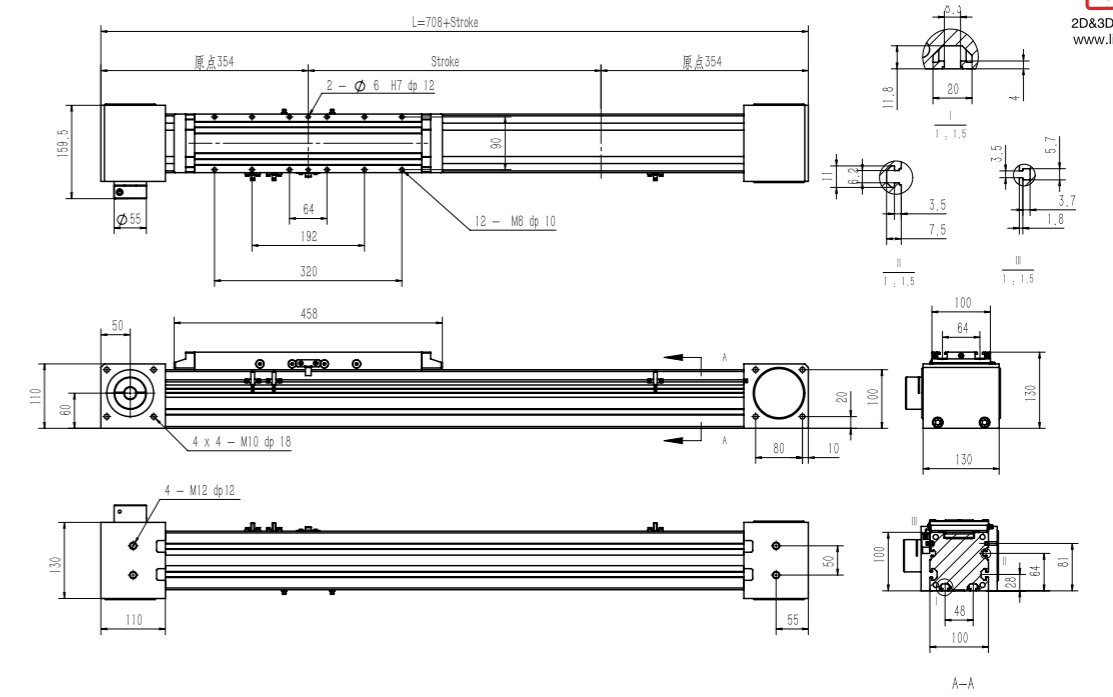
ITC 80-L



2D&3D文檔下載請至
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	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



2D&3D文檔下載請至
www.limonrobot.cn

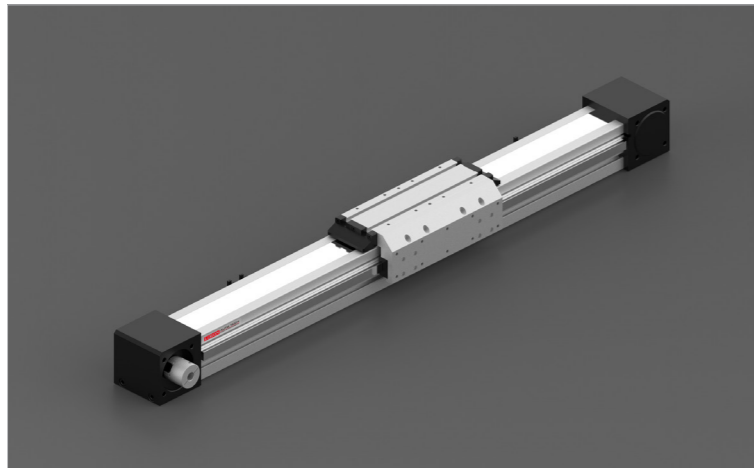
行程Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408	2508	2608	2708
重量 Weight (kg)	16.6	17.9	19.2	20.5	21.8	23.1	24.4	25.7	27	28.3	29.6	30.9	32.2	33.5	34.8	36.1	37.4	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

HTC 80/100 歐標全密式同步帶驅動側軌加強型 Belt Driven Linear Actuator

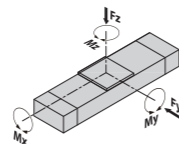
訂購型號代碼 Code

HTC80	500	L	D01	DB <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 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	特法式樣 Special Order No.
HTC80	100-4000, 間隔Gap100	未標註: 標準滑塊 L: 加長滑塊	D01	未填寫: 量滑塊 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 祇 1PC P2: 2 祇 2PCS P3: 3 祇 3PCS 未標記: 無 No Mark: No Sensor	

注: 輔助滑塊選項相關參數參見樣本P132.



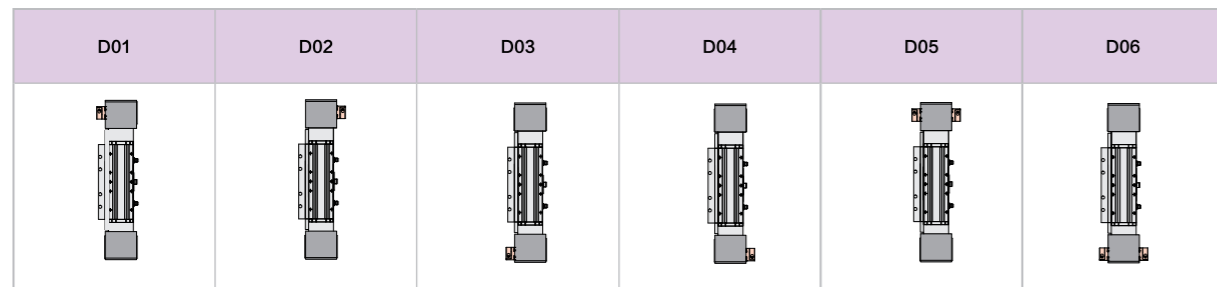
最大動態力和力矩 Max Permissible Forces And Torques



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



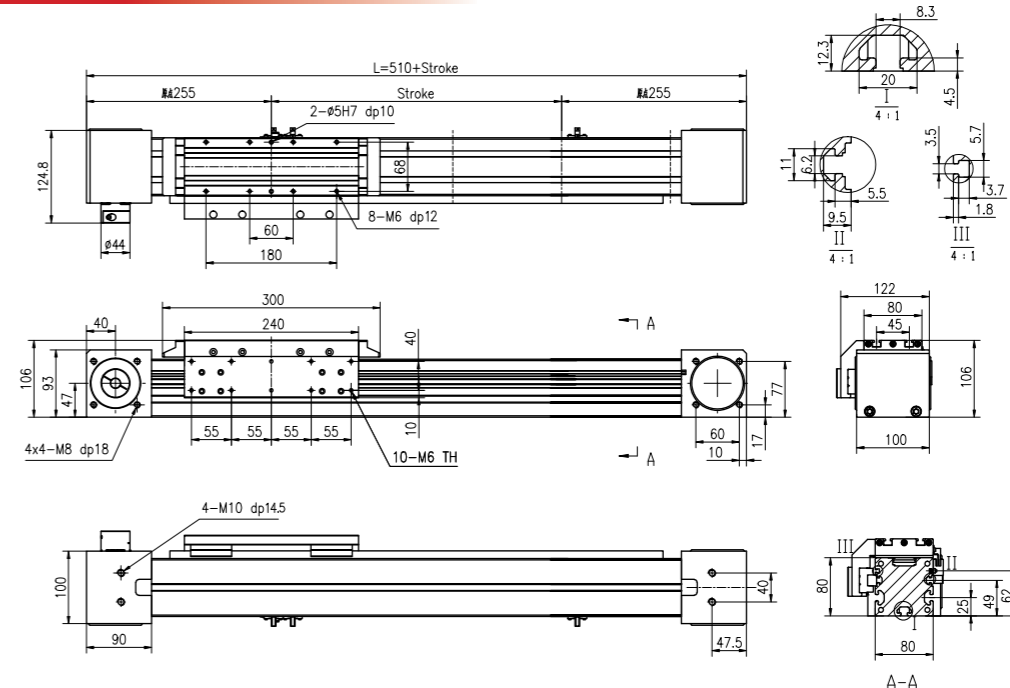
基本規格 Basic Specification

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

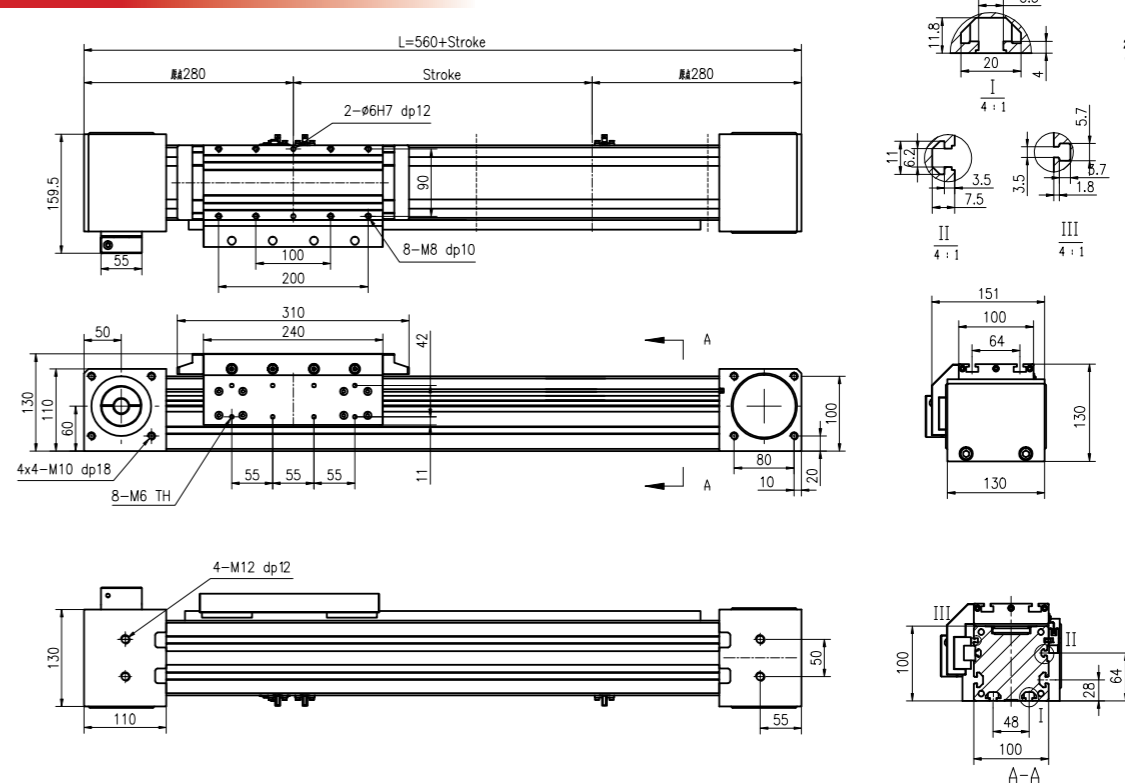
HTC 80/100 歐標全密式同步帶驅動側軌加強型 Belt Driven Linear Actuator

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

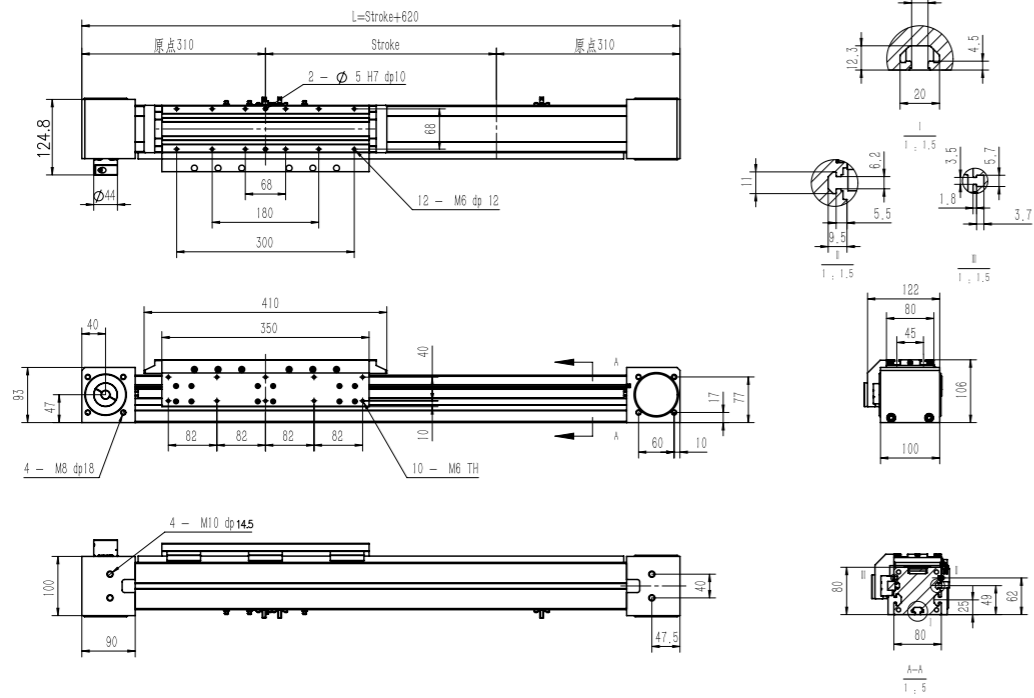


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510
重量 Weight (kg)	17.6	18.8	20	21.2	22.4	23.6	24.8	26	27.2	28.4	29.6	30.8	32	33.2	34.4	35.6	36.8	38	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

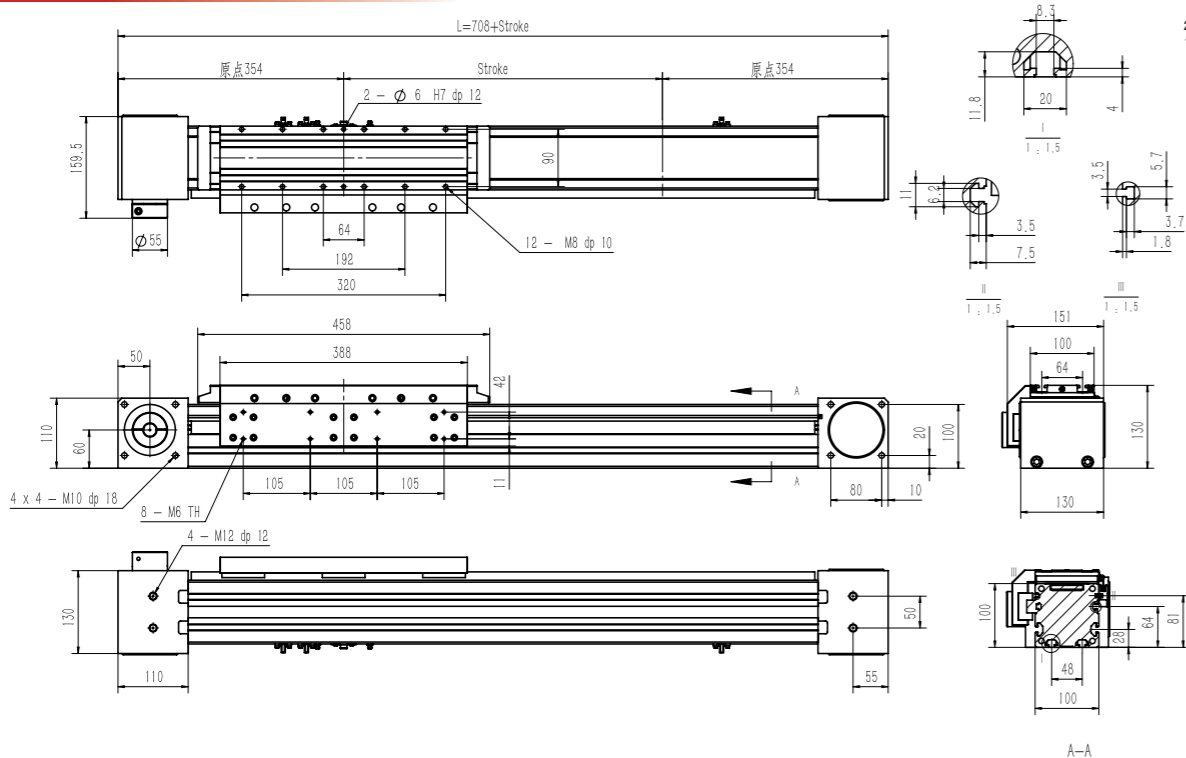
HTC 80-L



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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



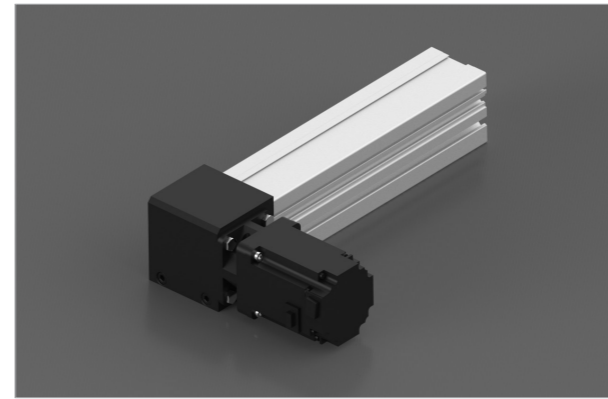
2D&3D文檔下載請至
www.limonrobot.cn

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	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

HTC 80/100 歐標全密式同步帶驅動側軌加強型

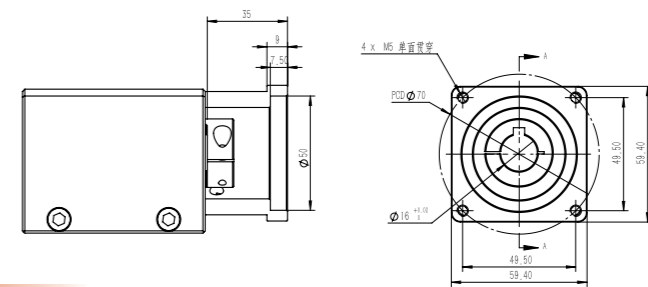
Belt Driven Linear Actuator

馬達座尺寸圖 Dimensional Drawing of Motor Base

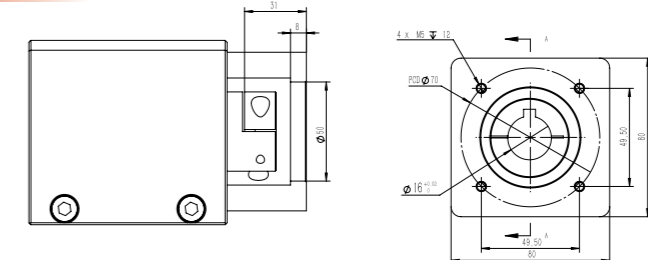


#注1: 此零件為選購件, 如需訂購請在下單時備注。
Note 1: This is optional accessory, please remark if needed.

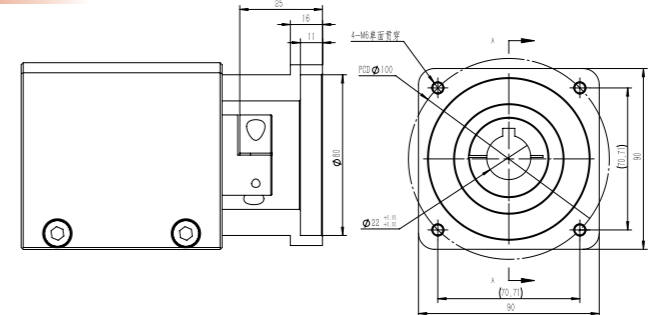
160-馬達座-PB62



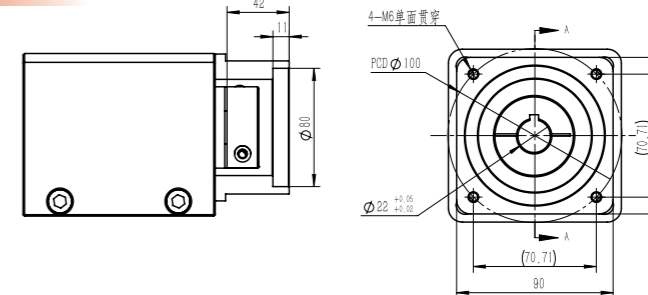
180-馬達座-PB62



180-馬達座-PB90

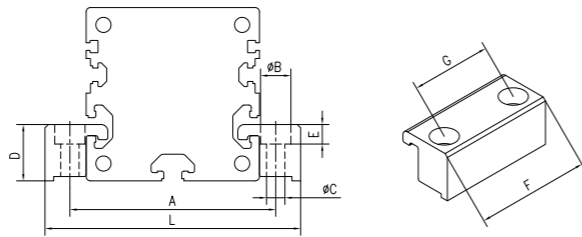


1100-馬達座-PB90



ITO/ HTO / ITC / HTC 安裝附件 Accessories

安裝塊尺寸圖 Dimensional Drawing of Jointing Block



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

#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.

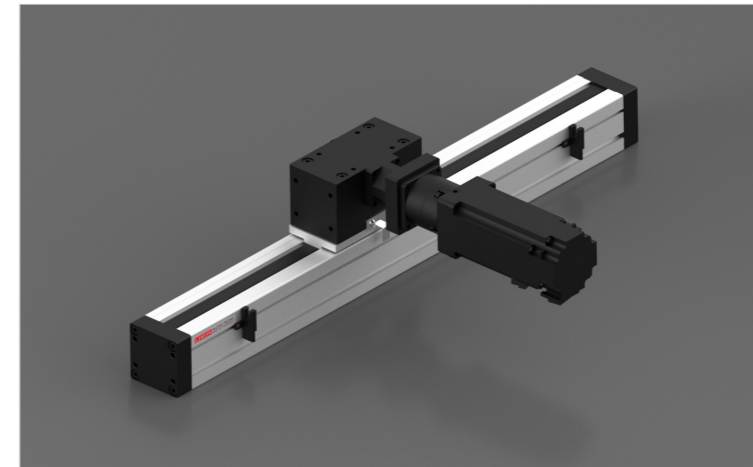
歐標Z軸提升專用型 ITZ 60

Belt Driven Linear Actuator

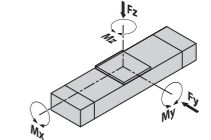
訂購型號代碼 Code

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 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.
IT060	100-1500,間隔Gap100	D01 D02		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祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark:NoSensor	

注: 輔助滑塊選項相關參數參見樣本P132.



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

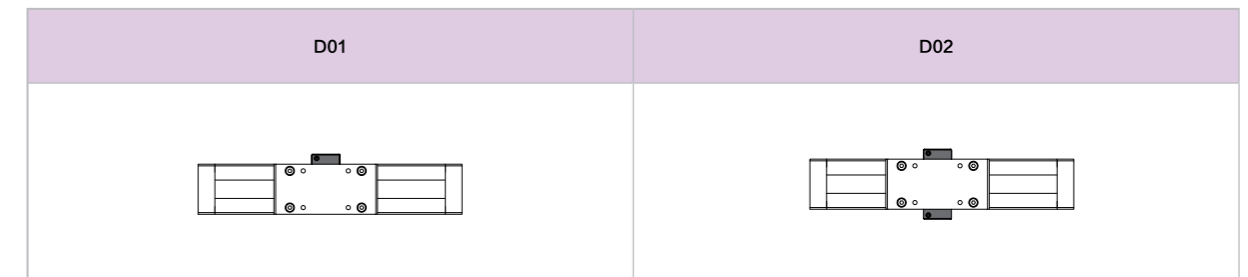


規格 Type	60
F(y) (N)	999
F(z) (N)	2684
M(x) (N·m)	20
M(y) (N·m)	61
M(z) (N·m)	61

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

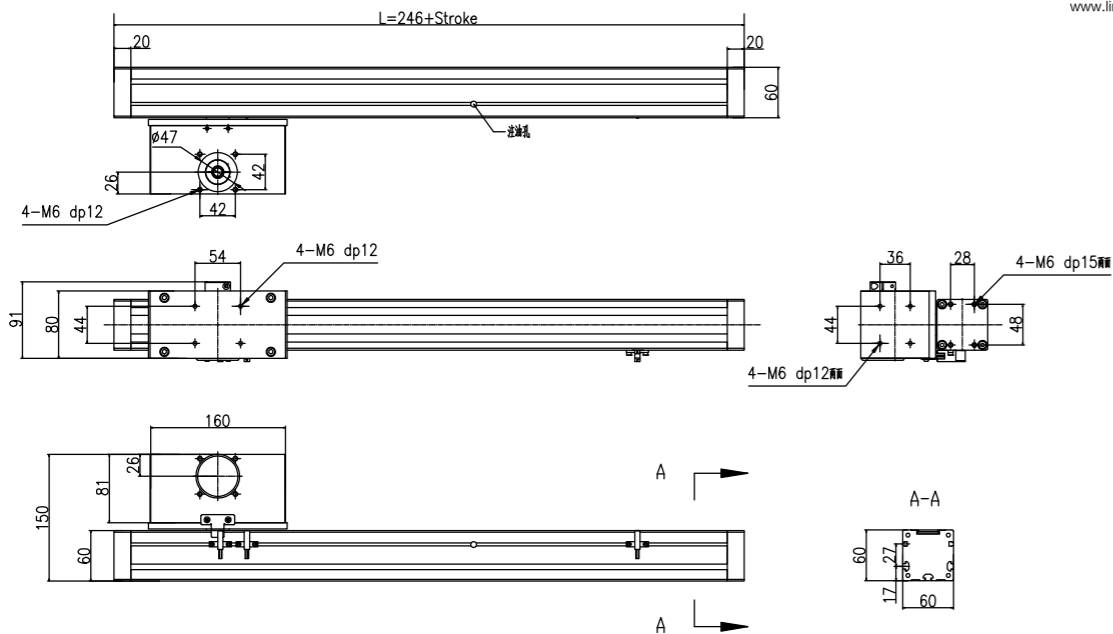
ITZ		60
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.05
	皮帶輪導程 Pulley Lead (mm)	130
	皮帶型號 Belt Type	5M-25
	最高速度 Maximum Speed (mm/s)	1500
	最大可搬重量 ^{#注1} ^{#Note1} 垂直使用Vertical (kg)	10
	最大空載扭矩 Max. No-load Driving Torque (N·m)	0.35
	最大扭矩 Max. Driving Torque (N·m)	13.3
基本規格 Basic Specification	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 acclerated speed.Please refer to the LIMON calculate software.

ITZ 60 歐標皮帶Z軸提吊專用型

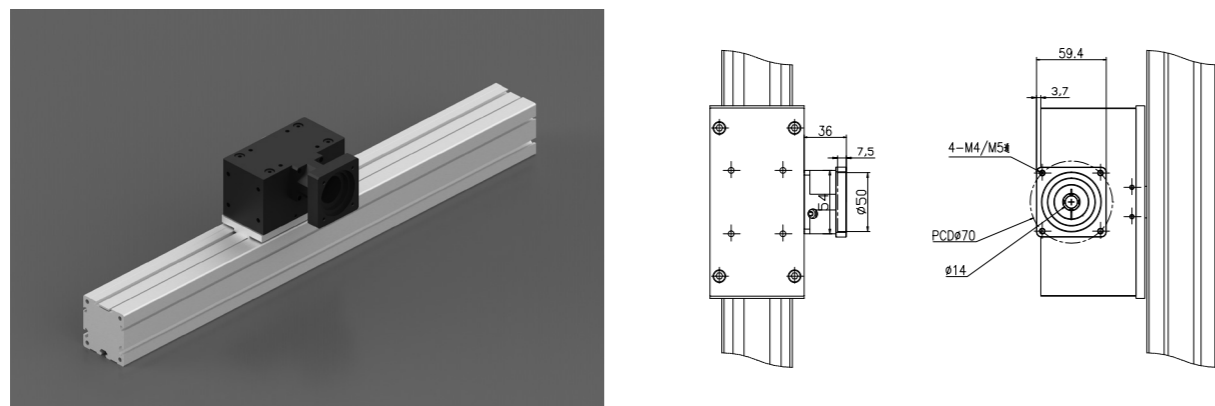
Belt Driven Linear Actuator

ITZ 60



行程Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
L	346	446	546	646	746	846	946	1046	1146	1246	1346	1446	1546	1646	1746
重量 Weight (kg)	3.3	3.8	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10.3

馬達座尺寸圖 Dimensional Drawing of Motor Base



#注1: 上表尺寸祇針對亞系主流馬達品牌, 如客戶馬達或減速機尺寸不在上表內, 請在下單時說明。
Note 1: Size above aims at Asia main motor brand, if customer and reduction box's size is not included, please note in order.
#注2: 此零件為選購件, 如需訂購請在下單時備注。
Note 2: This is optional accessory, please remark if needed.

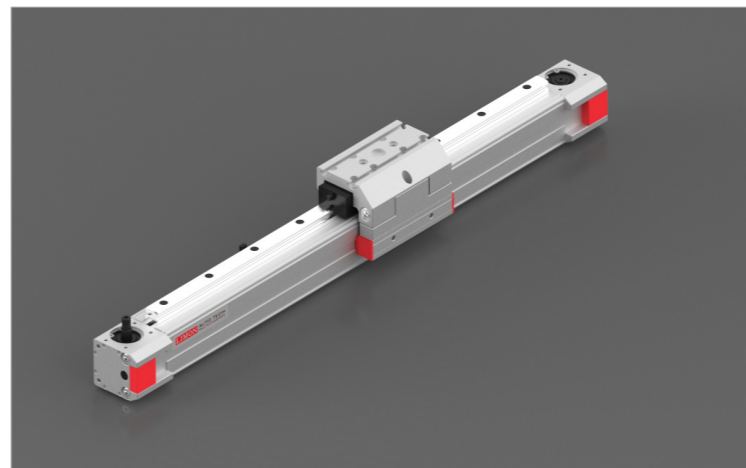
歐標高軌同步帶驅動型 TSG 45/65

Belt Driven Linear Actuator

訂購型號代碼 Code

TSG45	500	D01	DB 注	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.
TSG45	100-4000, 間隔Gap100	D01 D02 D03 D04 D05 D06	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 750W 1K -	P1: 1祇 1PCS P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark/NoSensor	

注: 輔助滑塊選項相關參數參見樣本P132.



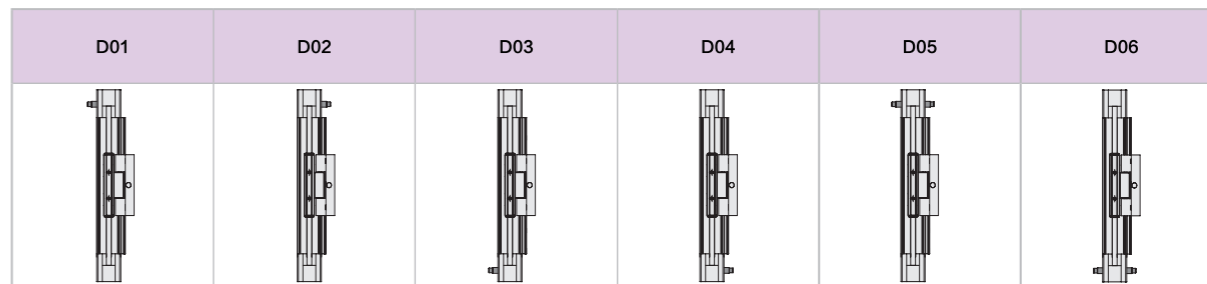
最大動態力和力矩

Max Permissible Forces And Torques

規格 Type	45	65
F(y) (N)	840	838
F(z) (N)	1795	1711
M(x) (N·m)	30	46
M(y) (N·m)	51	109
M(z) (N·m)	51	96

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



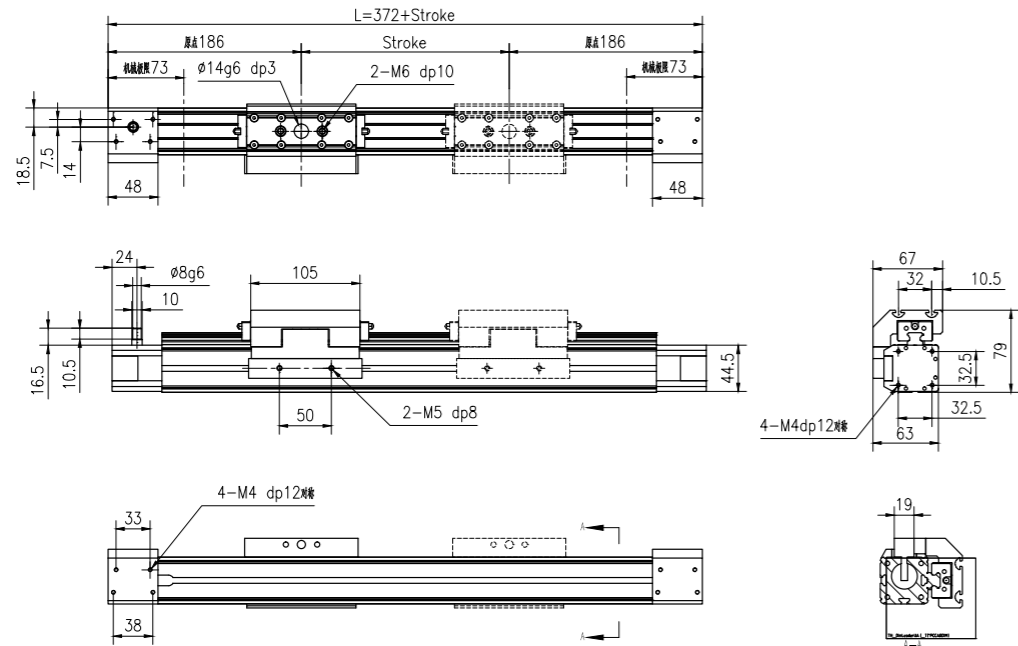
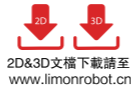
基本規格 Basic Specification

TSG		45	65	
技術參數	位置重複精度 Repetitive Accuracy (mm)	±0.05		
	皮帶輪導程 Pulley Lead (mm)	63	100	
	皮帶型號 Belt Type	3M-15	5M-25	
	最高速度 Maximum Speed (mm/s)	3000	5000	
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	25	35
		垂直使用Vertical (kg)	15	25
最大空載扭矩 Max. No-load Driving Torque (N·m)		0.4	0.45	
	最大扭矩 Max. Driving Torque (N·m)	2.6	9.7	
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)	400	400 / 750	
	高剛性直線滑軌 Linear Guide	15# × 1PCS	20# × 1PCS	
	主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	67 × 79	96.5 × 101.5	
	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.

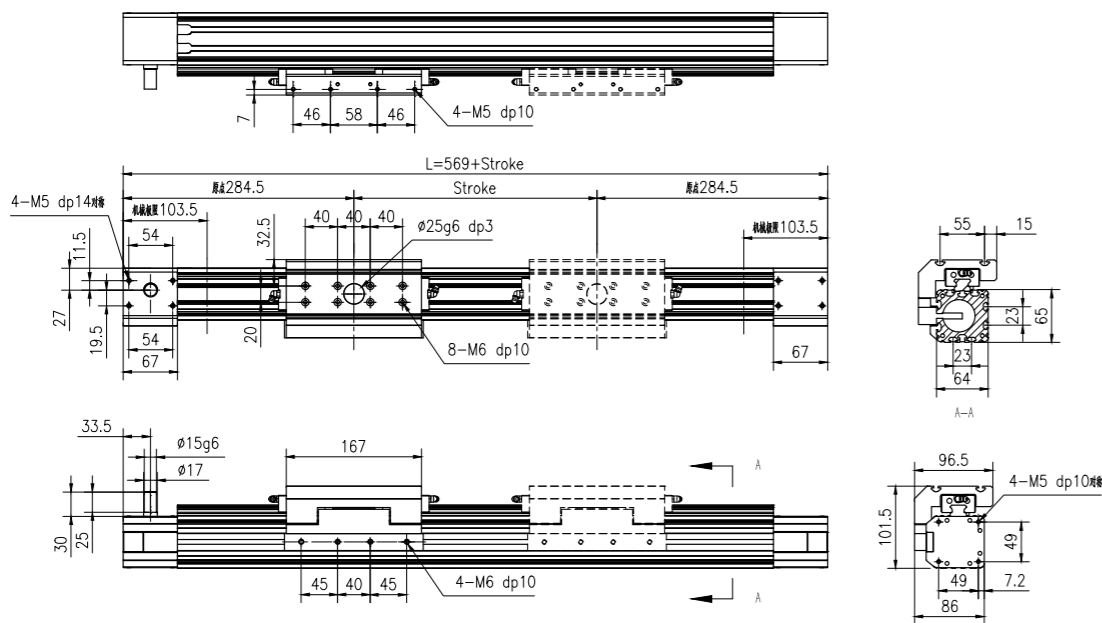
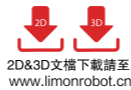
TSG 45/65 歐標高軌同步帶驅動型 Belt Driven Linear Actuator

TSG 45



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	472	572	672	772	872	972	1072	1172	1272	1372	1472	1572	1672	1772	1872	1972	2072	2172	2272	2372
重量 Weight (kg)	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	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	2472	2572	2672	2772	2872	2972	3072	3172	3272	3372	3472	3572	3672	3772	3872	3972	4072	4172	4272	4372
重量 Weight (kg)	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5

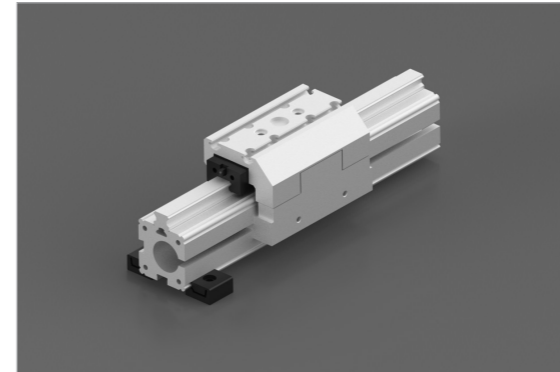
TSG 65



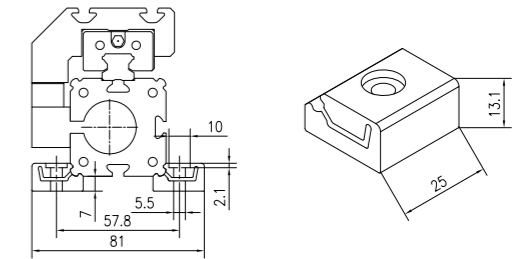
行程Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	669	769	8689	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369	2469	2569
重量 Weight (kg)	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8	11.4	12.0	12.6	13.2	13.8	14.4	15.0
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	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369	4469	4569
重量 Weight (kg)	15.6	16.2	16.8	17.4	18.0	18.6	19.2	19.8	20.4	21.0	21.6	22.2	22.8	23.4	24.0	24.6	25.2	25.8	26.4	27.0

TSG安裝附件 Accessories

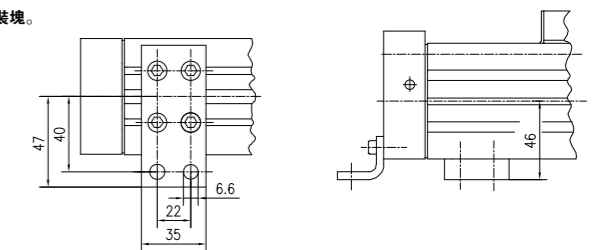
安裝塊尺寸圖 Dimensional Drawing of Jointing Block



45Type

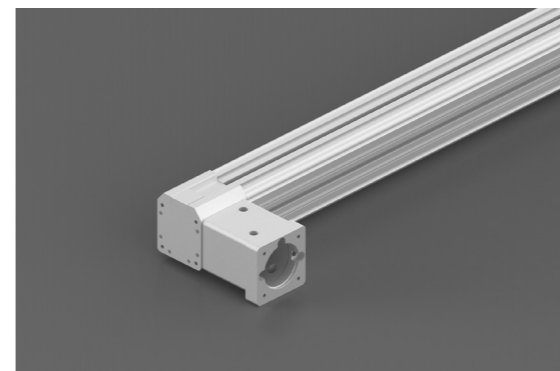


65Type

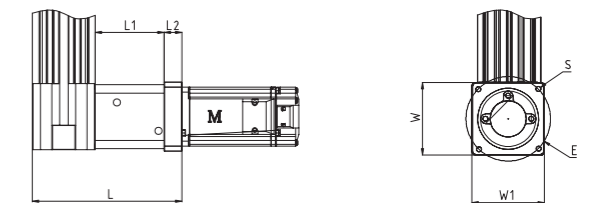


#注1: 500mm行程以內建議配4個安裝塊, 行程每增加500mm, 需多增加2個安裝塊。
Note 1: Suggest to assemble 4 jointing block (stroke $\leq 500\text{mm}$), two additional jointing block is required when stroke adds 500mm every time.
#注2: 此零件為選購件, 如需訂購請在下單時備注。
Note 2: This is optional accessory, please remark if needed.

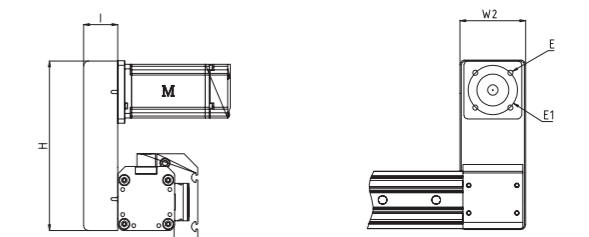
馬達座尺寸圖 Dimensional Drawing of Motor Base



MS Type 馬達直接安裝 Straight Motor Mounting



MP Type 馬達平行安裝 Parallel Motor Mounting



#注1: 上表尺寸只針對亞系主流電機品牌, 如客戶電機或減速機尺寸不在上表內, 請在下單時說明。
Note 1: Size above aims at Asia main motor brand, if customer and reduction box's size is not included, please note in order.
#注2: 此零件為選購件, 如需訂購請在下單時備注。
Note 2: This is optional accessory, please remark if needed.

規格Type	電機Motor	L1	L2	L	W	W1	E	S	H	I	W2	E1
45	100 (W)	40	14	99	54	54	46	M4	142	30	57	46
	200 & 400 (W)	65	19	124	60	60	70	M5	148	30	63	70
65	200 & 400 (W)	65	18	147	70	70	70	M5	189	38	73	70
	750 (W)	65	18	147	80	80	90	M6	199	38	83	90

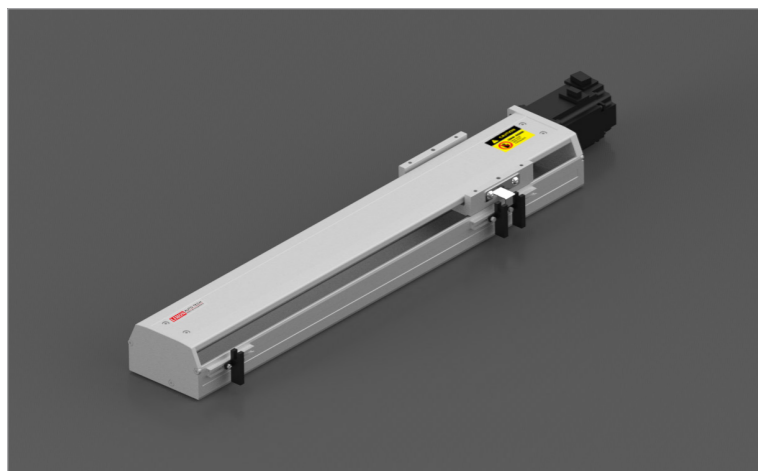
YSO 100 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

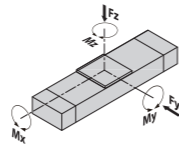
YSO100	L10	500	2P	MS	DB <small>注</small>	M40	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand、Power Output	限位傳感器數量 Photoelectric Sensor	特法式樣 Special Order No.
	05 10 16 20	100-1050 間隔Gap50	1P 2P	MS: 馬達直接安裝 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: 單滑塊 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祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark: NoSensor	

注: 輔助滑塊選項相關參數參見樣本P132.



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

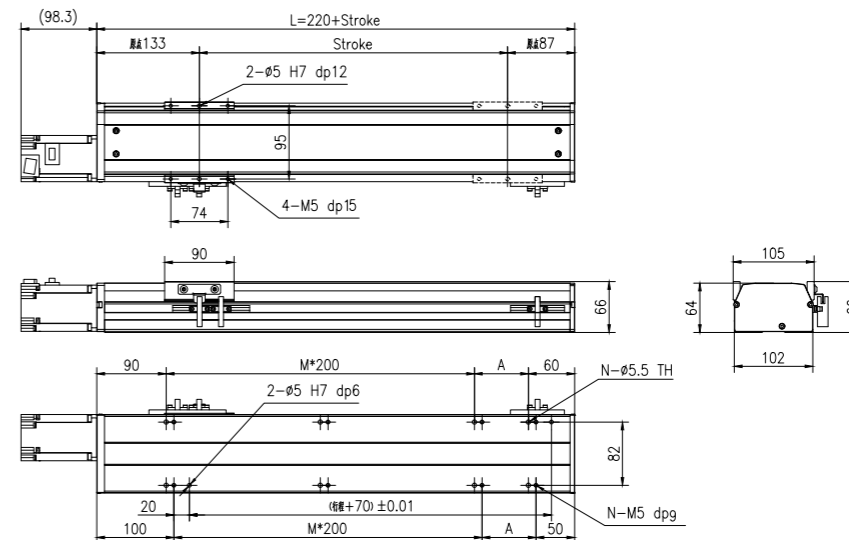
YSO100	1P(導軌滑塊數量) Block Quantity				2P(導軌滑塊數量) Block quantity				
	位置重複精度 Repetitive Accuracy (mm)	±0.01							
螺桿導程 Ball Screw Lead (mm)	5	10	16	20	5	10	16	20	
最高速度 Maximum Speed (mm/s)	*注1*Note1								
最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	40	24	18	14	50	30	22	18
	垂直使用Vertical (kg)	14	13	11	5	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	
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								
主機截面最大外形 Max Outline of Main Engine's Cross Section (mm)	105 × 66								
原點感應器 Home Sensor	EE-SX672(NPN)								

#注1: 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 relevently 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 100

Ball Screw Driven Linear Actuator

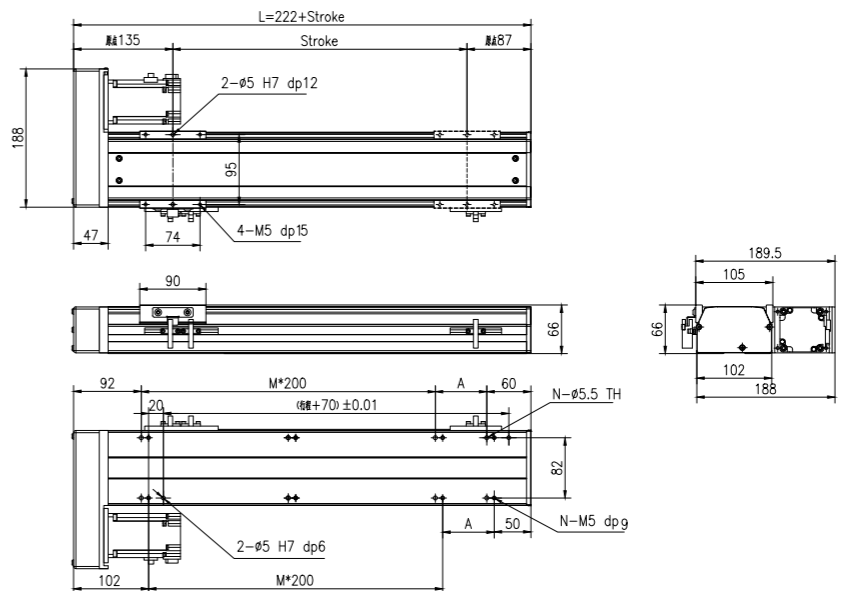
YSO100-1P-MS 馬達直接安裝 Straight Motor Mounting



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	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)	導程 Pitch 20																800	650	500	450	
	導程 Pitch 16																800	640	520	400	360
	導程 Pitch 10																500	400	325	250	225
	導程 Pitch 05																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 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	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)	導程 Pitch 20																800	650	500	450	
	導程 Pitch 16																800	640	520	400	360
	導程 Pitch 10																500	400	325	250	225
	導程 Pitch 05																250	200	162.5	125	112.5

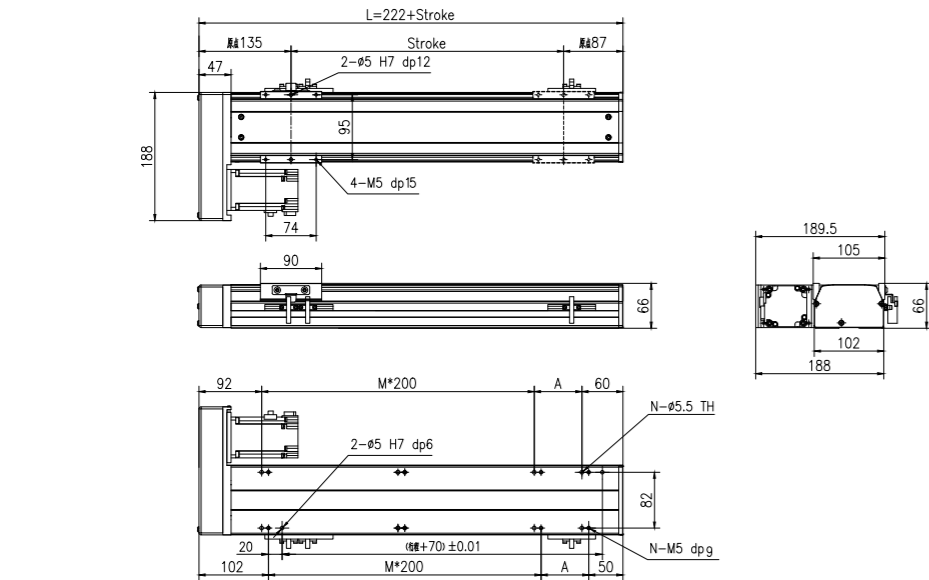
注: 行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note: When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO 100 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSO100-1P-MR

馬達右折安裝 Right Motor Mounting

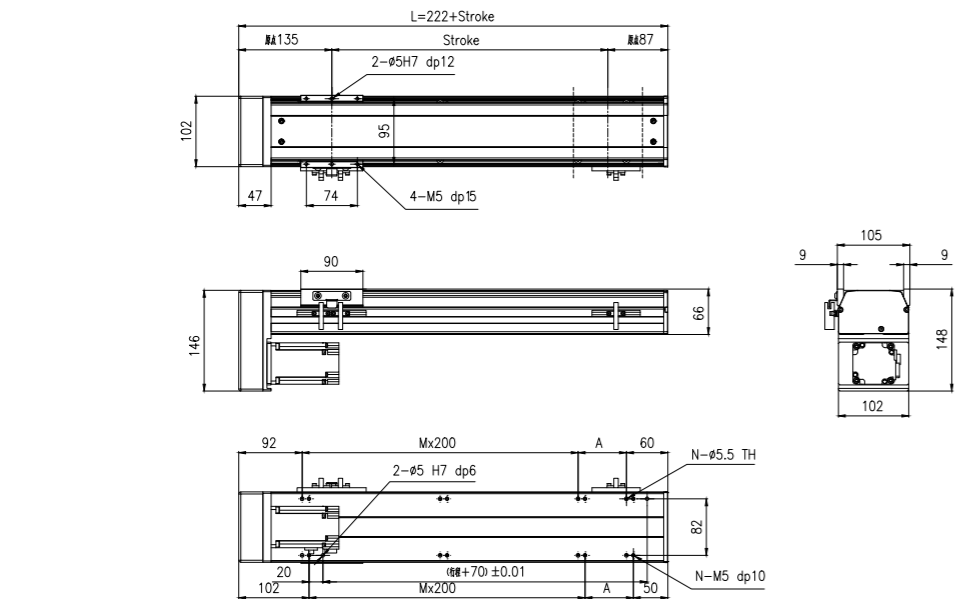


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050																								
L	322	372	422	472	522	572	622	672	722	772	822	872	922	972	1022	1072	1122	1172	1222	1272																								
A	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	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)	<table border="1"> <tr> <td>導程 Pitch 20</td> <td>1000</td> <td>800</td> <td>650</td> <td>500</td> <td>450</td> </tr> <tr> <td>導程 Pitch 16</td> <td>800</td> <td>640</td> <td>520</td> <td>400</td> <td>360</td> </tr> <tr> <td>導程 Pitch 10</td> <td>500</td> <td>400</td> <td>325</td> <td>250</td> <td>225</td> </tr> <tr> <td>導程 Pitch 05</td> <td>250</td> <td>200</td> <td>162.5</td> <td>125</td> <td>112.5</td> </tr> </table>																				導程 Pitch 20	1000	800	650	500	450	導程 Pitch 16	800	640	520	400	360	導程 Pitch 10	500	400	325	250	225	導程 Pitch 05	250	200	162.5	125	112.5
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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

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																								
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)	<table border="1"> <tr> <td>導程 Pitch 20</td> <td>1000</td> <td>800</td> <td>650</td> <td>500</td> <td>450</td> </tr> <tr> <td>導程 Pitch 16</td> <td>800</td> <td>640</td> <td>520</td> <td>400</td> <td>360</td> </tr> <tr> <td>導程 Pitch 10</td> <td>500</td> <td>400</td> <td>325</td> <td>250</td> <td>225</td> </tr> <tr> <td>導程 Pitch 05</td> <td>250</td> <td>200</td> <td>162.5</td> <td>125</td> <td>112.5</td> </tr> </table>																				導程 Pitch 20	1000	800	650	500	450	導程 Pitch 16	800	640	520	400	360	導程 Pitch 10	500	400	325	250	225	導程 Pitch 05	250	200	162.5	125	112.5
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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.

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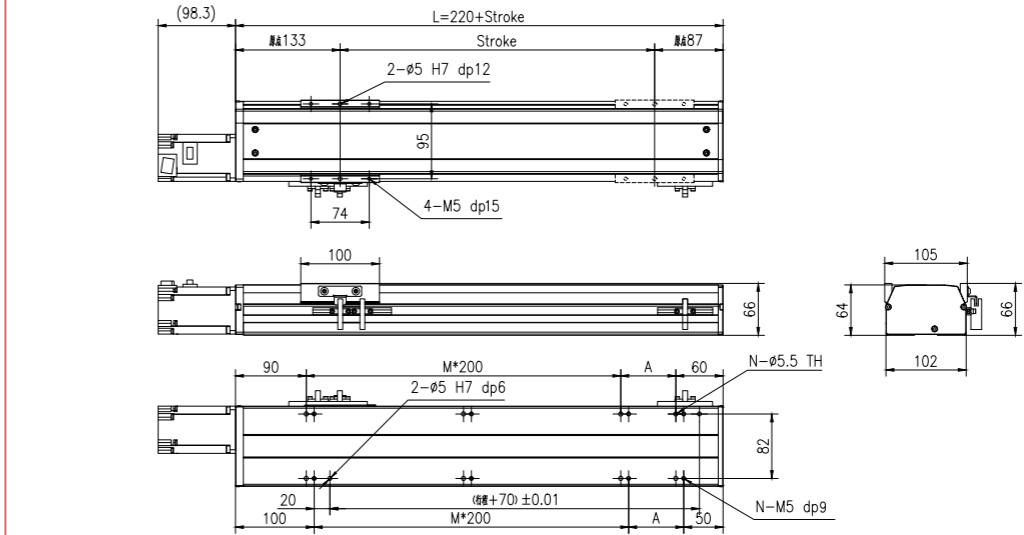
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YSO 100 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSO100-2P-MS

馬達直接安裝 Straight Motor Mounting

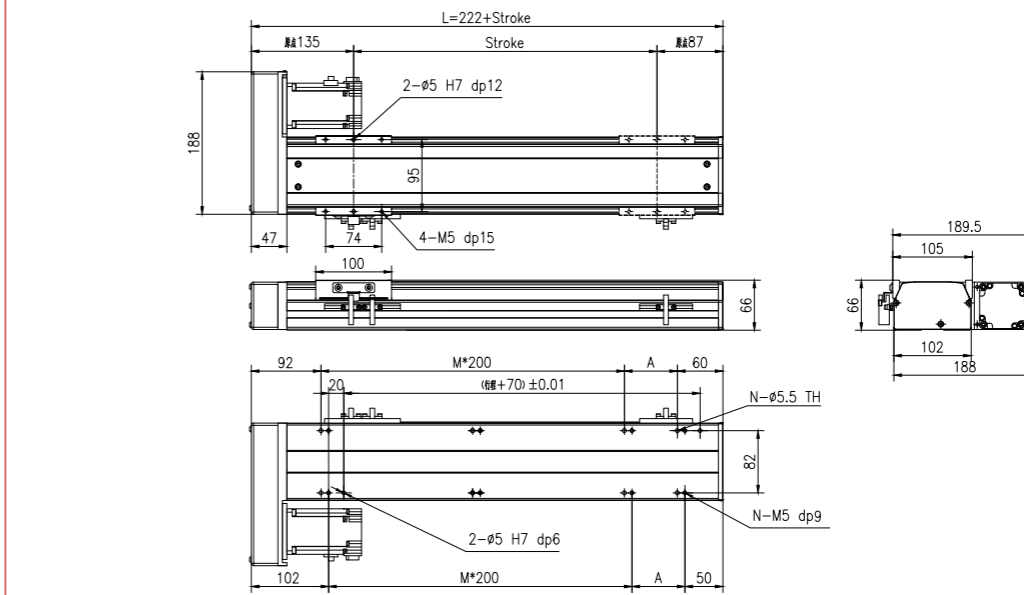


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050																								
L	320	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270																								
A	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	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)	<table border="1"> <tr> <td>導程 Pitch 20</td> <td>1000</td> <td>800</td> <td>650</td> <td>500</td> <td>450</td> </tr> <tr> <td>導程 Pitch 16</td> <td>800</td> <td>640</td> <td>520</td> <td>400</td> <td>360</td> </tr> <tr> <td>導程 Pitch 10</td> <td>500</td> <td>400</td> <td>325</td> <td>250</td> <td>225</td> </tr> <tr> <td>導程 Pitch 05</td> <td>250</td> <td>200</td> <td>162.5</td> <td>125</td> <td>112.5</td> </tr> </table>																				導程 Pitch 20	1000	800	650	500	450	導程 Pitch 16	800	640	520	400	360	導程 Pitch 10	500	400	325	250	225	導程 Pitch 05	250	200	162.5	125	112.5
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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

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	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																								
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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.

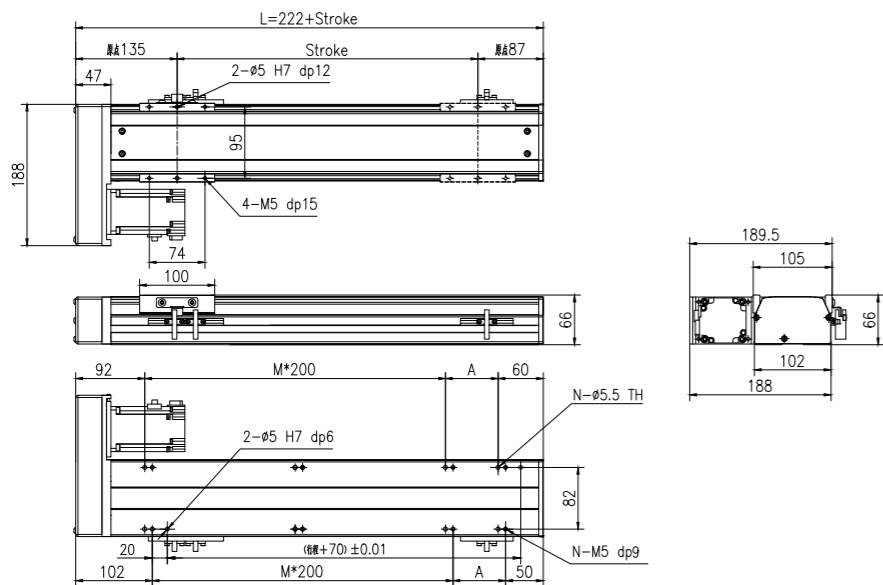
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YSO 100 亞標半密式螺桿驅動型 Ball Screw Driven Linear Actuator

YSO100-2P-MR 馬達右折安裝 Right Motor Mounting

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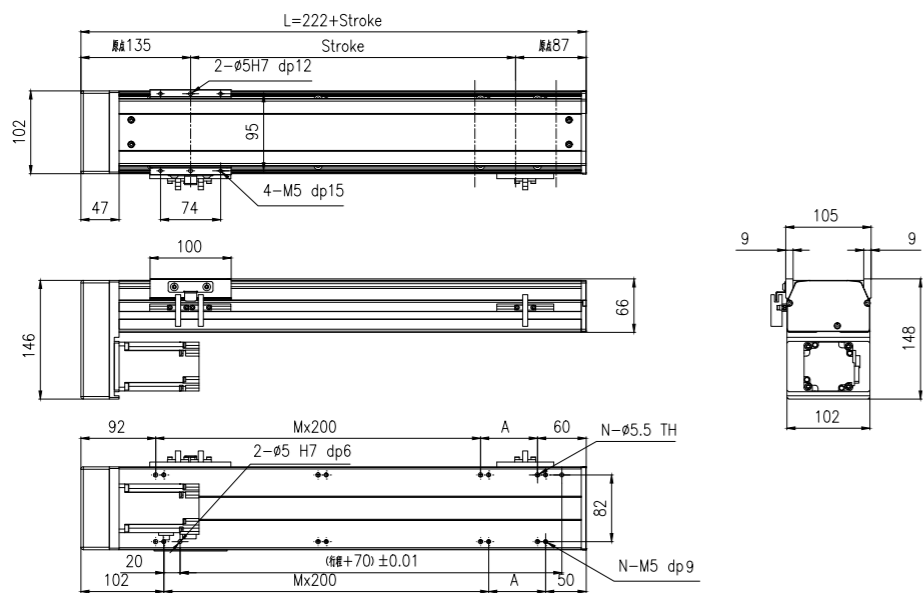


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	322	372	422	472	522	572	622	672	722	772	822	872	922	972	1022	1072	1122	1172	1222	1272
A	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120	170	20	70	120
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5
N	4	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	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	360	225				
	800										640	520	400	360	225					
	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.

YSO100-2P-MD 馬達下折安裝 Down Motor Mounting

2D&3D文檔下載請至
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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
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	8	8	8	8	10	10	10	10	12	12	12	12	14	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	360	225				
	800										640	520	400	360	225					
	500										400	325	250	225						
	250										200	162.5	125	112.5						

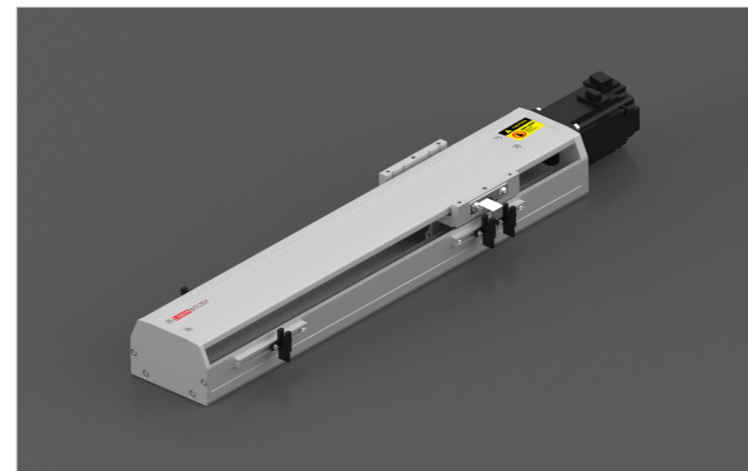
注: 行程超過700mm時, 根據動作區域不同, 可能會出現滾珠絲杆的共振情況, 應參考上表所示的最高速度。
#Note:When the stroke is more than 700mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

亞標半密式螺桿驅動型 Ball Screw Driven Linear Actuator YSO 110

訂購型號代碼 Code

YSO110	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	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 根 1PC P2: 2 根 2PCS P3: 3 根 3PCS 未標記: 無 NoMark: NoSensor	

注: 輔助滑塊選項相關參數參見樣本P132.



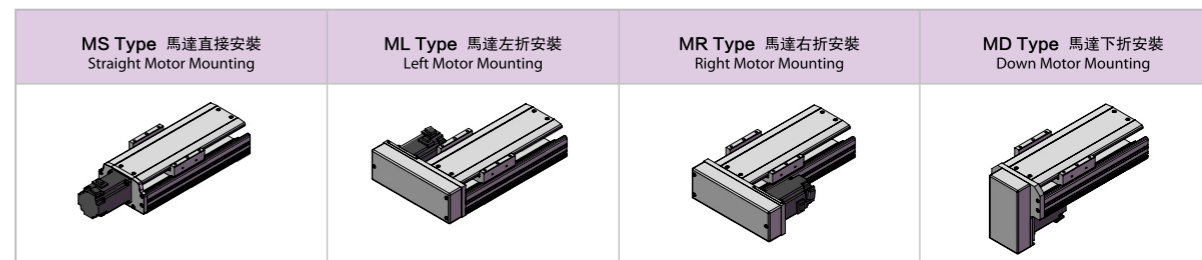
最大動態力和力矩 Max Permissible Forces And Torques

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)	±0.01				
	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)	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 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				
主機版面最大外形 Max Outline of Main Engine's Cross Section (mm)		105 × 70				
原點感測器 Home Sensor	EE-SX672(NPN)					

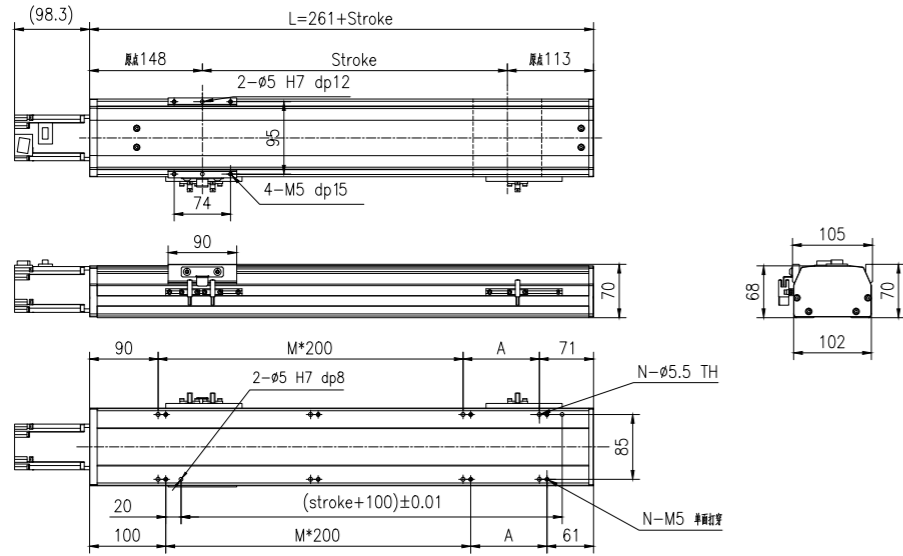
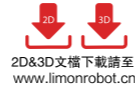
#注1: 行程超過700mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1:When the stroke is more than 700mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.
#注2: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。
#Note 2: Date changes relevently according to different torque and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

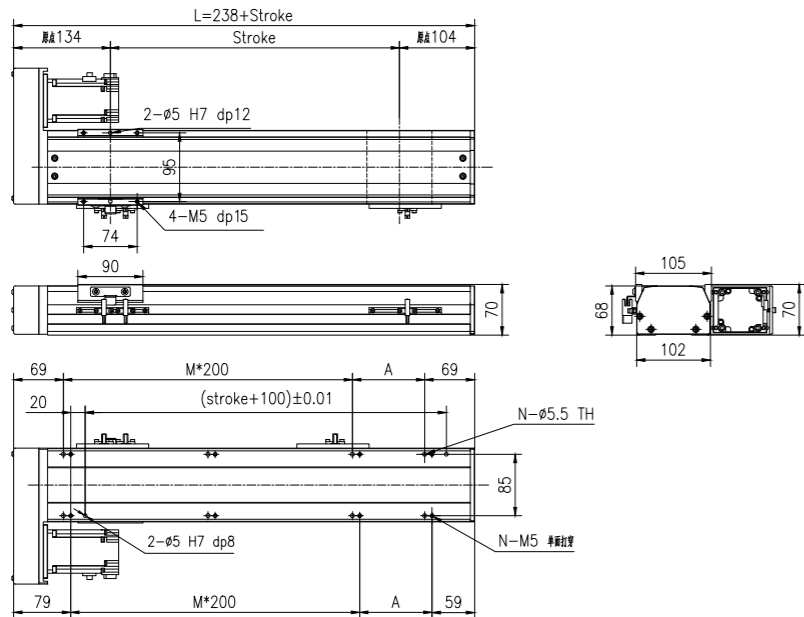


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050		
L	361	411	461	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311		
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150		
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	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 導程 Pitch 16 導程 Pitch 10 導程 Pitch 05										1000	800	640	520	400	360	500	450	400	360	225	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-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 導程 Pitch 16 導程 Pitch 10 導程 Pitch 05										1000	800	640	520	400	360	500	450	400	360	225	112.5

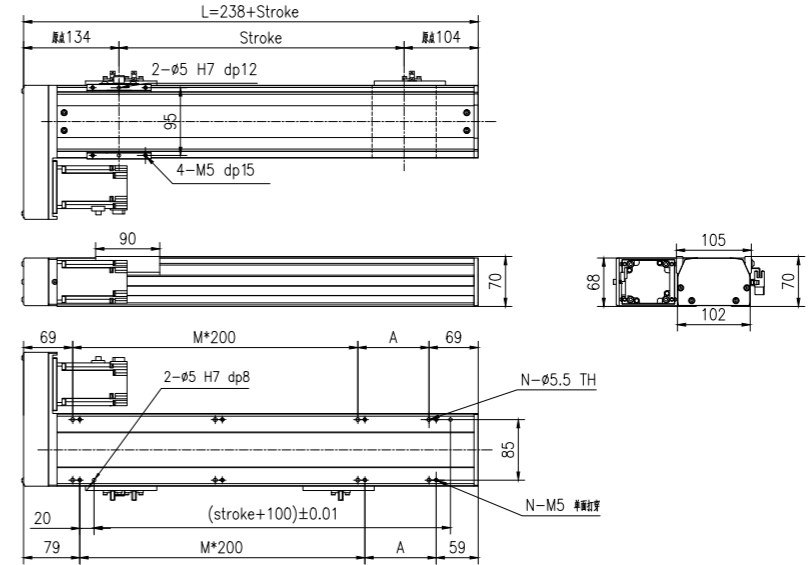
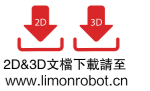
注：行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note:When the stroke is more than 700mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

亞標半密式螺桿驅動型 YSO 110

Ball Screw Driven Linear Actuator

YSO110-4P-MR

馬達右折安裝 Right Motor Mounting

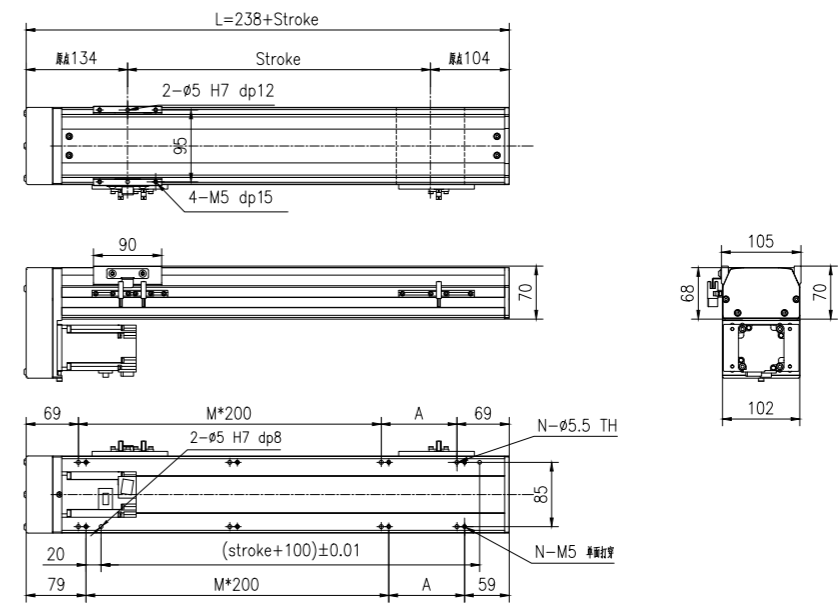
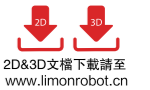


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050		
L	338	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288		
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150		
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	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 導程 Pitch 16 導程 Pitch 10 導程 Pitch 05										1000	800	640	520	400	360	500	450	400	360	225	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

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		
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 導程 Pitch 16 導程 Pitch 10 導程 Pitch 05										1000	800	640	520	400	360	500	450	400	360	225	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.

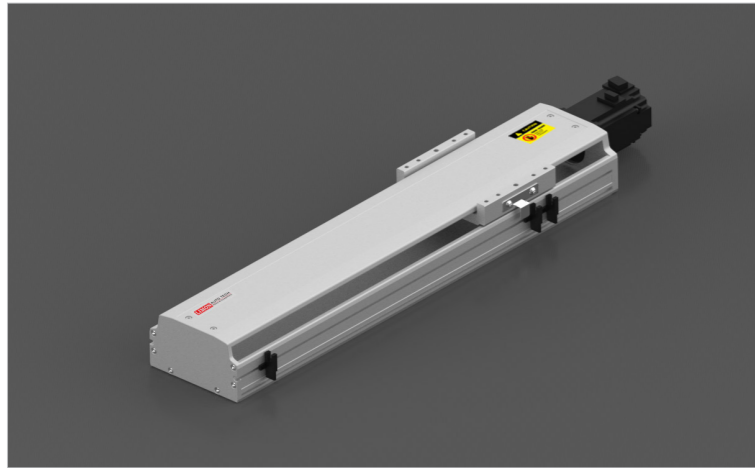
YSO 135 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

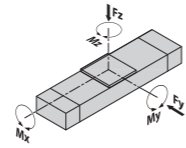
YSO135	L10	500	2P	MS	DB <small>注</small>	M40	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand - Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
	05 10 16 20	100-1250, 間隔Gap50	2P 4P	MS: 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 - 1K -	P1: 1祇 1PCS P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark/NoSensor	

注: 輔助滑塊選項相關參數參見樣本P132.



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

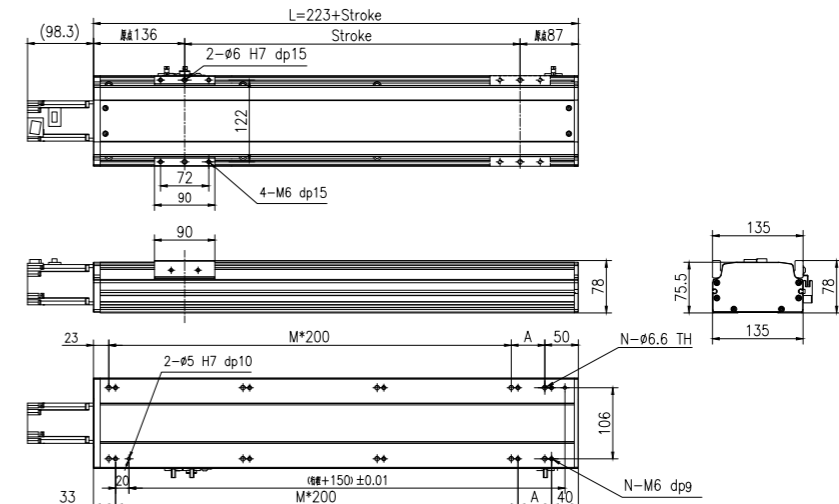
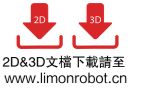
YSO135	2P(導軌滑塊數量) Block Quantity				4P(導軌滑塊數量) Block quantity			
	位置重複精度 Repetitive Accuracy (mm)	±0.01						
螺桿導程 Ball Screw Lead (mm)	5	10	16	20	5	10	16	20
最高速度 Maximum Speed (mm/s)	*注1*Note1							
最大可搬重量 Maximum Payload	水平使用Horizontal (kg)				垂直使用Vertical (kg)			
	60	45	40	30	100	80	60	45
定額推力 Rated Thrust (N)	683	341	213	174	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	0.12	0.15	0.2	0.22
最大扭矩 Max. Driving Torque (N·m)	10.9	12.5	14	16.7	10.9	12.5	14	16.7
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							
主機版面最大外形 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 accelerated 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

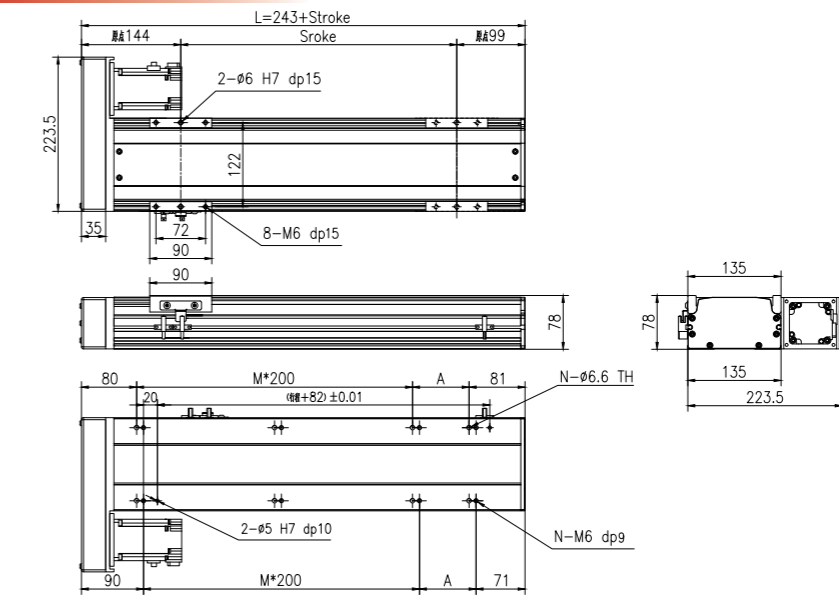
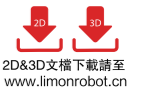
YSO135-2P-MS 馬達直接安裝 Straight Motor Mounting



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)	導程 Pitch 20								1000								800																							
	導程 Pitch 16								800								640								520															
	導程 Pitch 10								500								400								325								250							
	導程 Pitch 05								250								200								162.5								125							

#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)

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	10	12	12	12	12	14	14	14	14	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)	導程 Pitch 20								1000								800																							
	導程 Pitch 16								800								640								520															
	導程 Pitch 10								500								400								325								250							
	導程 Pitch 05								250								200								162.5								125							

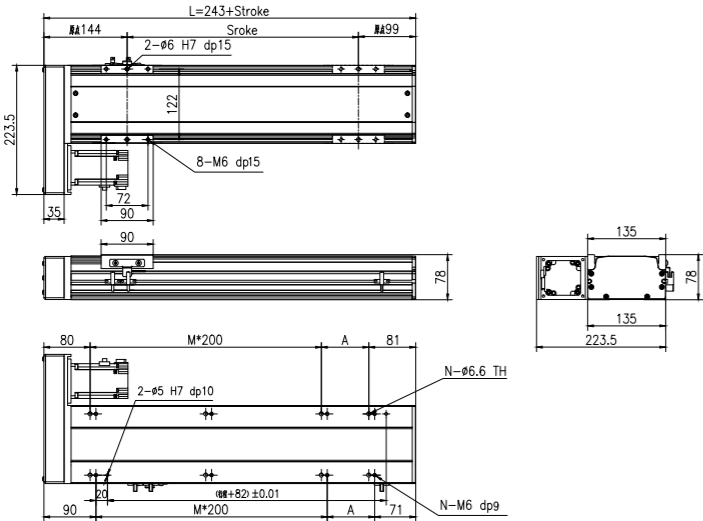
#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2: 此表格對應數據為Ø20螺桿的危險速度, Ø16螺桿參照YSO100(P19頁)。
#Note2: This sheet's data is dangerous speed of ball screw Ø20. Data of Ø16 is referred to YSO100(P19)

YSO 135 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSO135-2P-MR

馬達右折安裝 Right Motor Mounting

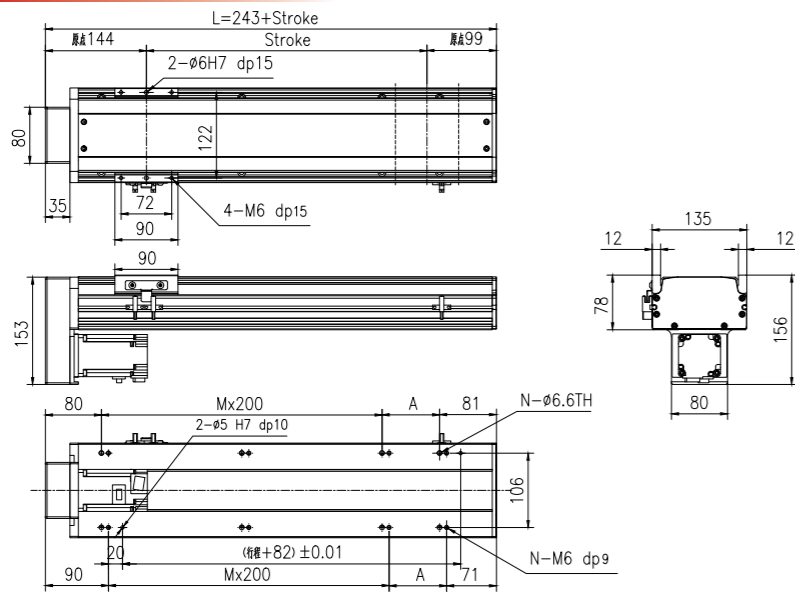
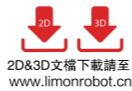


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	343	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493
A	182	32	82	132	182	232	282	332	382	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
重量 Weight (kg)	7.0	7.4	7.9	8.4	8.9	9.3	9.8	10.3	10.8	11.2	11.7	12.2	12.7	13.1	13.6	14.1	14.6	15.0	15.5	16.0	16.5	16.9	17.4	17.9
最高速度 Max speed (mm/sec)	導程 Pitch 20 1000																		800	650	500	450		
	導程 Pitch 16 800																		640	520	400	360		
	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)

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	232	282	332	382	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
重量 Weight (kg)	7.0	7.4	7.9	8.4	8.9	9.3	9.8	10.3	10.8	11.2	11.7	12.2	12.7	13.1	13.6	14.1	14.6	15.0	15.5	16.0	16.5	16.9	17.4	17.9
最高速度 Max speed (mm/sec)	導程 Pitch 20 1000																		800	650	500	450		
	導程 Pitch 16 800																		640	520	400	360		
	導程 Pitch 10 500																		400	325	250	225		
	導程 Pitch 05 250																		200	162.5	125	112.5		

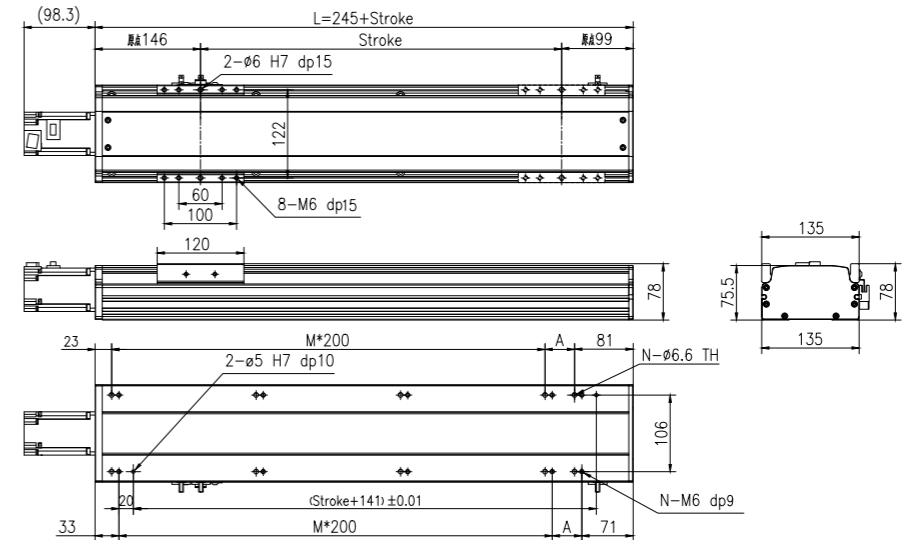
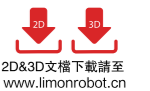
#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
 #Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
 #注2: 此表格對應數據為Ø20螺桿的危險速度, Ø16螺桿參照YSO100(P19頁)。
 #Note2: This sheet's data is dangerous speed of ball screw Ø20. Data of Ø16 is referred to YSO100(P19)

亞標半密式螺桿驅動型 YSO 135

Ball Screw Driven Linear Actuator

YSO135-4P-MS

馬達直接安裝 StRight Motor Mounting

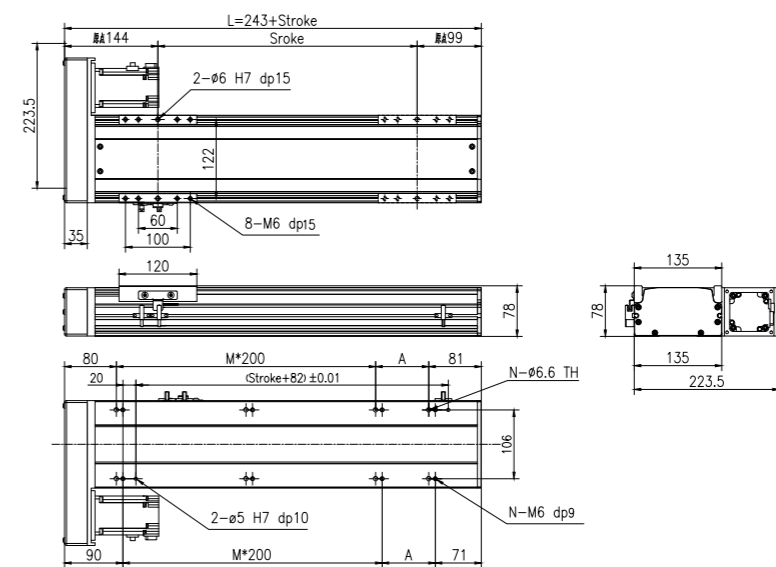
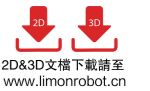


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	345	395	445	495	545	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495
A	41	91	141	191	241	291	341	391	441	491	541	591	641	691	741	791	841	891	941	991	1041	1091	1141	1191
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
重量 Weight (kg)	6.2	6.6	7.1	7.6	8.1	8.5	9.0	9.5	10.0	10.4	10.9	11.4	11.9	12.3	12.8	13.3	13.8	14.2	14.7	15.2	15.7	16.1	16.6	17.1
最高速度 Max speed (mm/sec)	導程 Pitch 20 1000																		800	650	500	450		
	導程 Pitch 16 800																		640	520	400	360		
	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)

YSO135-4P-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	343	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493
A	182	32	82	132	182	232	282	332	382	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
重量 Weight (kg)	7.2	7.6	8.1	8.6	9.1	9.5	10.0	10.5	11.0	11.4	11.9	12.4	12.9	13.3	13.8	14.3	14.8	15.2	15.7	16.2	16.7	17.1	17.6	18.1
最高速度 Max speed (mm/sec)	導程 Pitch 20 1000																		800	650	500	450		
	導程 Pitch 16 800																		640	520	400	360		
	導程 Pitch 10 500																		400	325	250	225		
	導程 Pitch 05 250																		200	162.5	125	112.5		

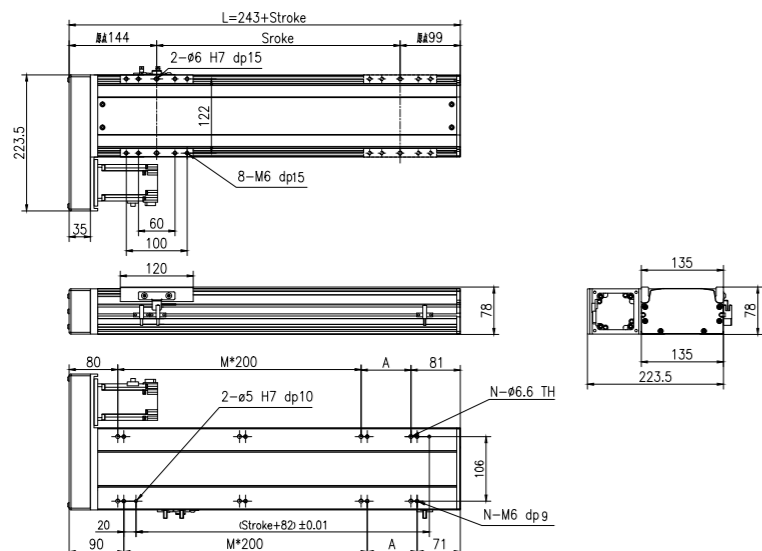
#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
 #Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
 #注2: 此表格對應數據為Ø20螺桿的危險速度, Ø16螺桿參照YSO100(P19頁)。
 #Note2: This sheet's data is dangerous speed of ball screw Ø20. Data of Ø16 is referred to YSO100(P19)

YSO 135 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSO135-4P-MR
馬達右折安裝 Right Motor Mounting

2D&3D文檔下載請至
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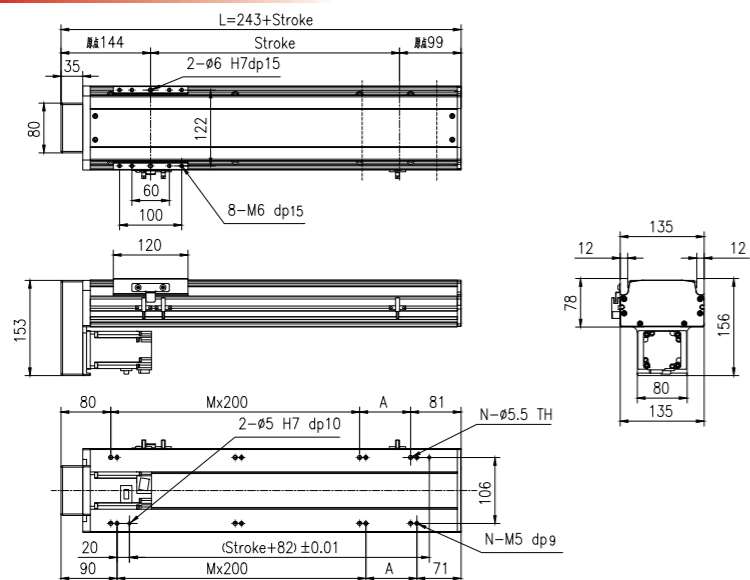


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	343	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493
A	182	32	82	132	182	232	282	332	382	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
重量 Weight (kg)	7.2	7.6	8.1	8.6	9.1	9.5	10.0	10.5	11.0	11.4	11.9	12.4	12.9	13.3	13.8	14.3	14.8	15.2	15.7	16.2	16.7	17.1	17.6	18.1
最高速度 Max speed (mm/sec)	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)

2D&3D文檔下載請至
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YSO135-4P-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	343	393	443	493	543	593	643	693	743	793	843	893	943	993	1043	1093	1143	1193	1243	1293	1343	1393	1443	1493
A	182	32	82	132	182	232	282	332	382	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
重量 Weight (kg)	7.2	7.6	8.1	8.6	9.1	9.5	10.0	10.5	11.0	11.4	11.9	12.4	12.9	13.3	13.8	14.3	14.8	15.2	15.7	16.2	16.7	17.1	17.6	18.1
最高速度 Max speed (mm/sec)	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)

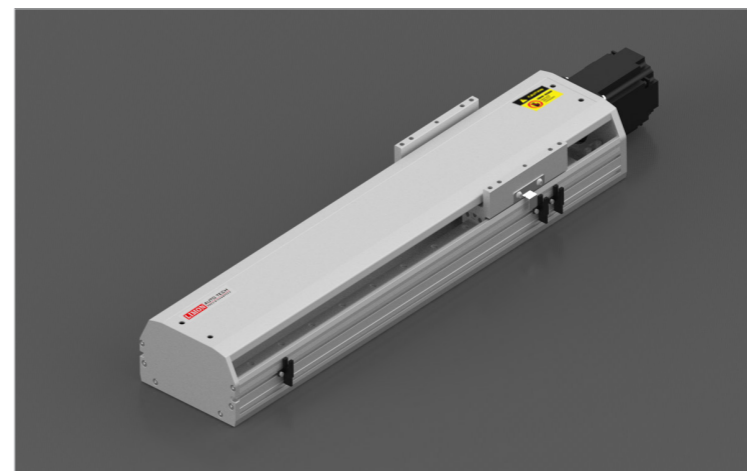
亞標半密式螺桿驅動型 YSO 170

Ball Screw Driven Linear Actuator

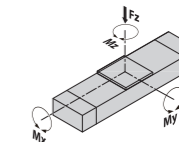
訂購型號代碼 Code

YSO170	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祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark: NoSensor	

注: 輔助滑塊選項相關參數參見樣本P132.



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

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	YSO170		4P(導軌滑塊數量) Block Quantity			
	位置重複精度 Repetitive Accuracy (mm)		±0.01			
螺桿導程 Ball Screw Lead (mm)	5	10	20	40		
最高速度 Maximum Speed (mm/s)	*注1>Note1		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
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			
	主機載面最大外形 Max Outline of Main Engine's Cross Section (mm)		170 × 97			
原點感應器 Home Sensor		EE-SX672(NPN)				

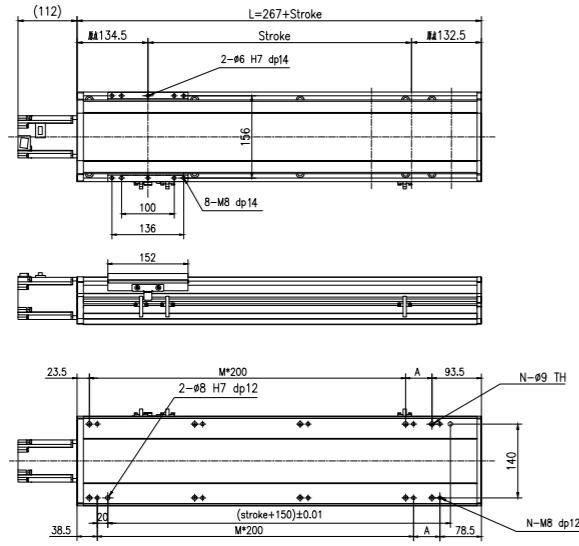
#注1: 行程超過850mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
 #Note1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
 #注2: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。
 #Note 2: Date changes relevently according to different torque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

YSO 170 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSO170-4P-MS

馬達直接安裝 Straight Motor Mounting



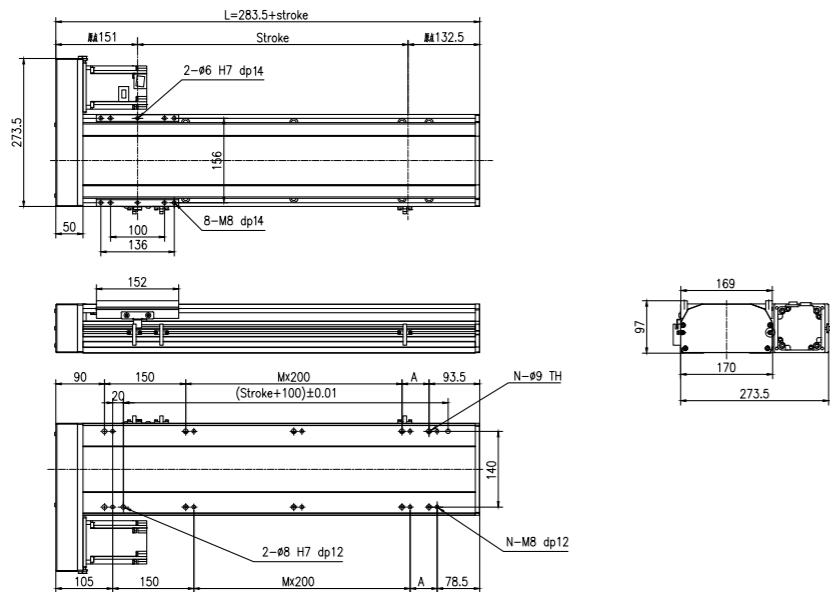
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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250											
L	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517											
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	5	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)																			2000	1500	1000	900	1000	650	500	450	500	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.

YSO170-4P-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	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)																			2000	1500	1000	900	1000	650	500	450	500	325	250	225	250	200	162.5	125	112.5

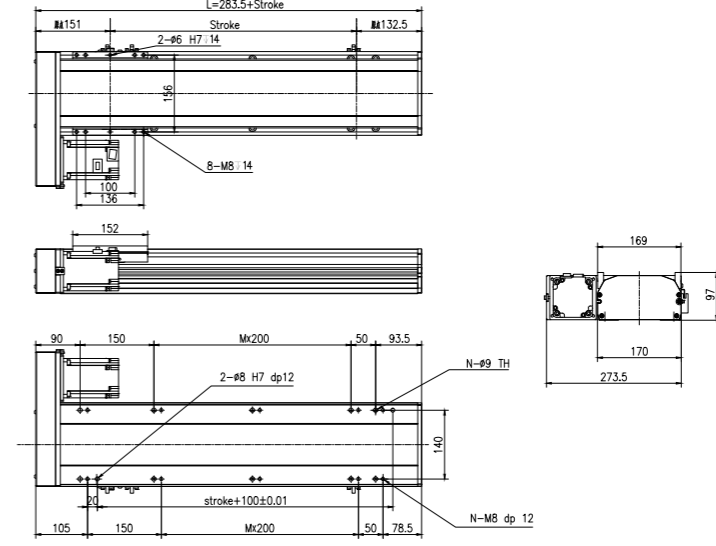
#注1: 行程超過850mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

亞標半密式螺桿驅動型 YSO 170

Ball Screw Driven Linear Actuator

YSO170-4P-MR

馬達右折安裝 Right Motor Mounting



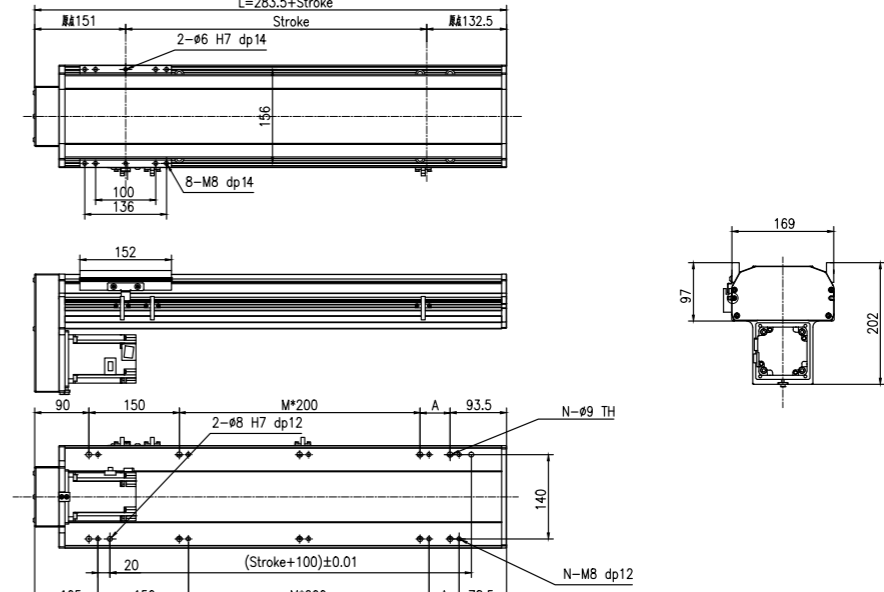
2D&3D文檔下載請至
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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250											
L	383.5	433.5	483.5	533.8	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	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)																			2000	1500	1000	900	1000	650	500	450	500	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.

YSO170-4P-MD

馬達下折安裝 Down Motor Mounting



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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250											
L	383.5	433.5	483.5	533.8	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)																			2000	1500	1000	900	1000	650	500	450	500	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.

YSO 220 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

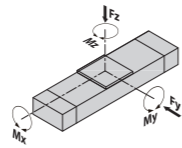
YSO220	L10	500	4P	MS	DB <small>注</small>	M75	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
	05 10 25 40	100-1500, 間隔Gap50	4P	MS: 馬達直接安裝 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祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark: NoSensor	

注: 輔助滑塊選項相關參數參見樣本P132.



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

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

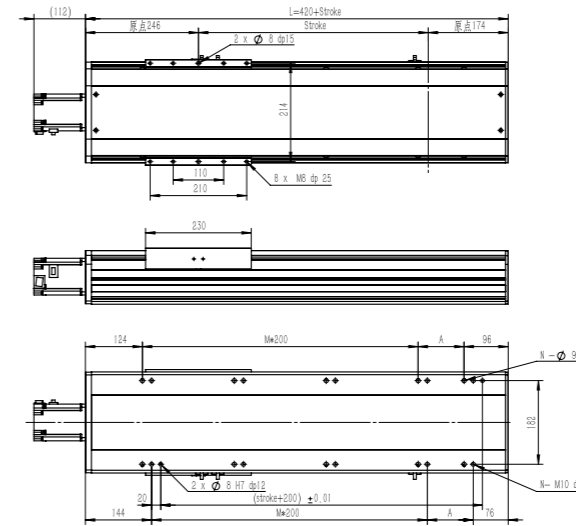
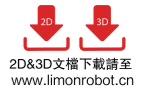
YSO220		4P(導軌滑塊數量) Block Quantity				
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.01				
	螺桿導程 Ball Screw Lead (mm)	5	10	25	40	
	最高速度 Maximum Speed (mm/s)	*注1>Note1				
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	160	160	140	80
		垂直使用Vertical (kg)	80	70	45	30
	定額推力 Rated Thrust (N)	2563	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				
	主機版面最大外形 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 220

Ball Screw Driven Linear Actuator

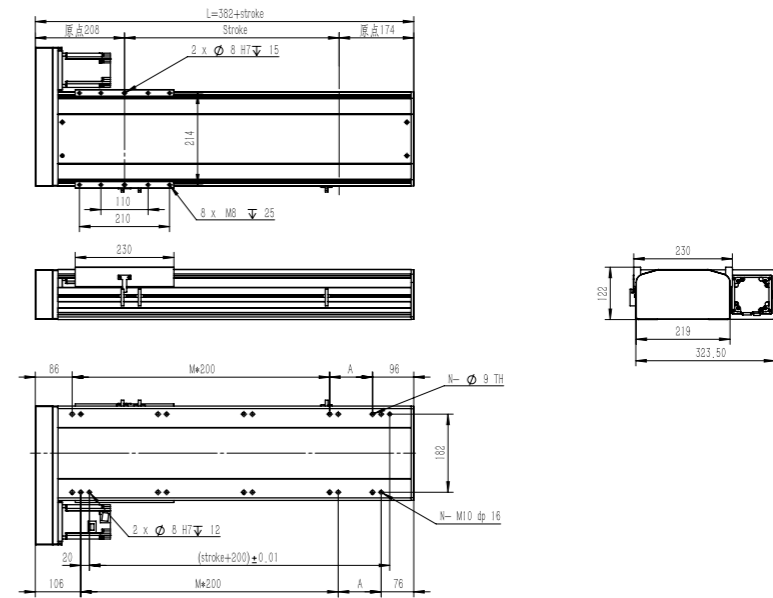
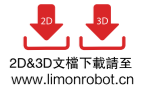
YSO220-MS 馬達直接安裝 Straight Motor Mounting



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	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	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)	導程 Pitch 40																		2000	導程 Pitch 25																		1250	導程 Pitch 10																		500	導程 Pitch 05																		250																					
																			1800	1600	1400	1200	1000	800	600																			1125	1000	875	750	625	500																			450	400	350	300	250	200																			225	200	175	150	125	100

#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.

YSO220-ML 馬達左折安裝 Left Motor Mounting



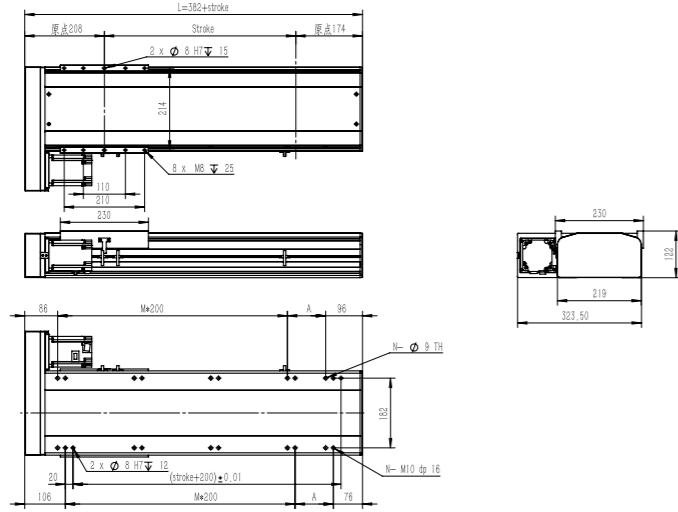
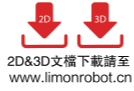
行程 Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500																																																																			
L	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	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	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)	導程 Pitch 40																		2000	導程 Pitch 25																		1250	導程 Pitch 10																		500	導程 Pitch 05																		250																					
																			1800	1600	1400	1200	1000	800	600																			1125	1000	875	750	625	500																			450	400	350	300	250	200																			225	200	175	150	125	100

#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 220 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

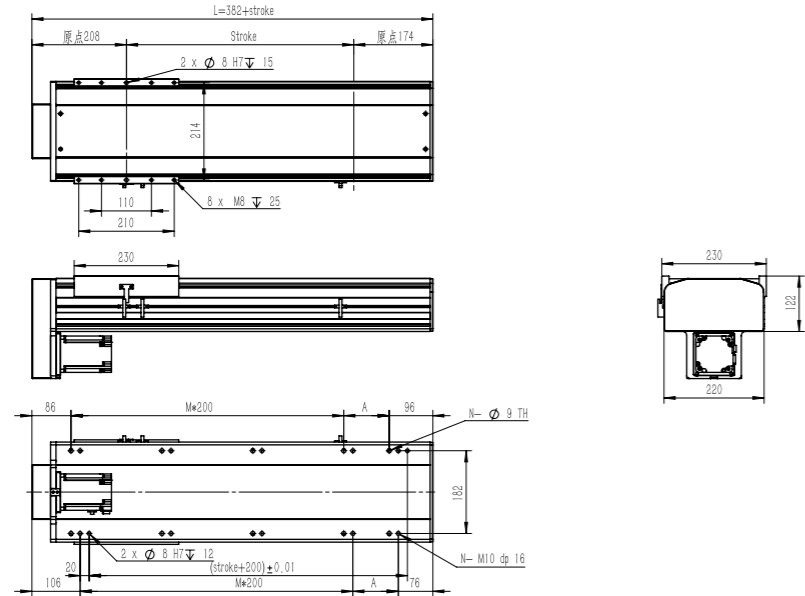
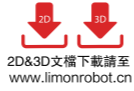
YSO220-MR 馬達右折安裝 Right Motor Mounting



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	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)	2000																		1800	1600	1400	1200	1000	800	600					
導程 Pitch 40	2000																		1800	1600	1400	1200	1000	800	600					
導程 Pitch 25	1250																		1125	1000	875	750	625	500						
導程 Pitch 10	500																		450	400	350	300	250	200						
導程 Pitch 05	250																		225	200	175	150	125	100						

#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.

YSO220-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	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)	2000																		1800	1600	1400	1200	1000	800	600					
導程 Pitch 40	2000																		1800	1600	1400	1200	1000	800	600					
導程 Pitch 25	1250																		1125	1000	875	750	625	500						
導程 Pitch 10	500																		450	400	350	300	250	200						
導程 Pitch 05	250																		225	200	175	150	125	100						

#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.

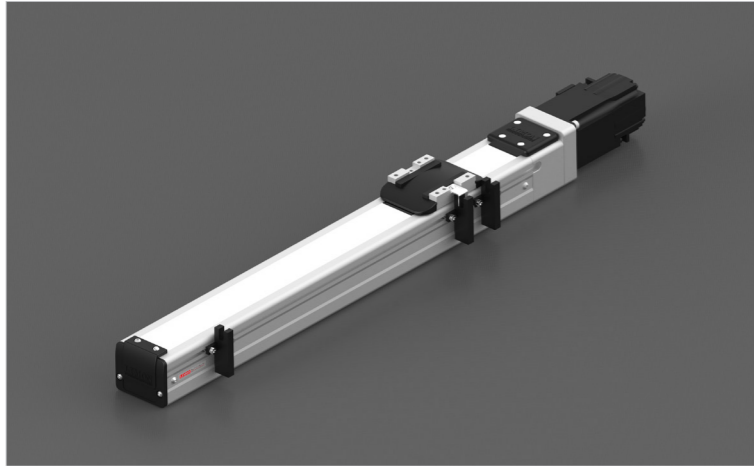
YSC 50 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

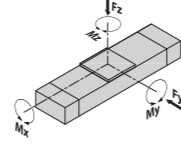
YSC50	L10	500	MS	DB <small>注</small>	M10	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特法式樣 Special Order No.
	05 10	100-600, 間隔Gap50	MS: 馬達直接安裝 Straight Motor Mounting ML: 馬達左折安裝 Left 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 祇 1PC P2: 2 祇 2PCS P3: 3 祇 3PCS 未標記: 無 NoMark: No Sensor	

注: 輔助滑塊選項相關參數參見樣本P132.



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

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

YSC50		50		
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.01		
	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 <small>*注*Note</small> Maximum Payload	水平使用Horizontal (kg)	10	5
		垂直使用Vertical (kg)	3	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		
	主機載面最大外形 Max Outline of Main Engine's Cross Section (mm)	50 × 54		
原點感應器 Home Sensor	EE-SX672(NPN)			

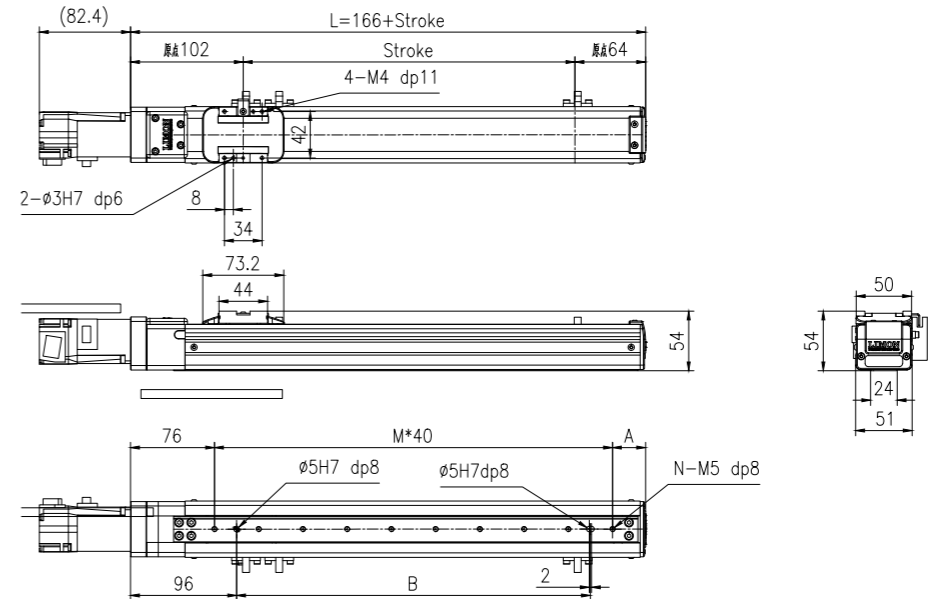
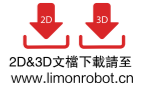
#注: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。

#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

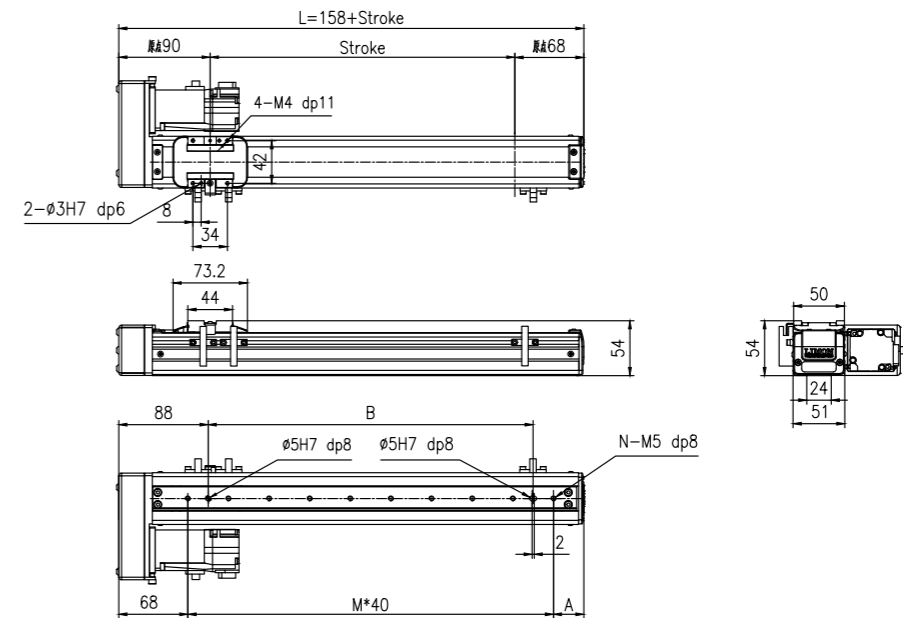
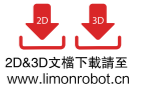
Ball Screw Driven Linear Actuator

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Pitch10 500						導程Pitch 5 250				

YSC50-ML 馬達左折安裝 Left Motor Mounting

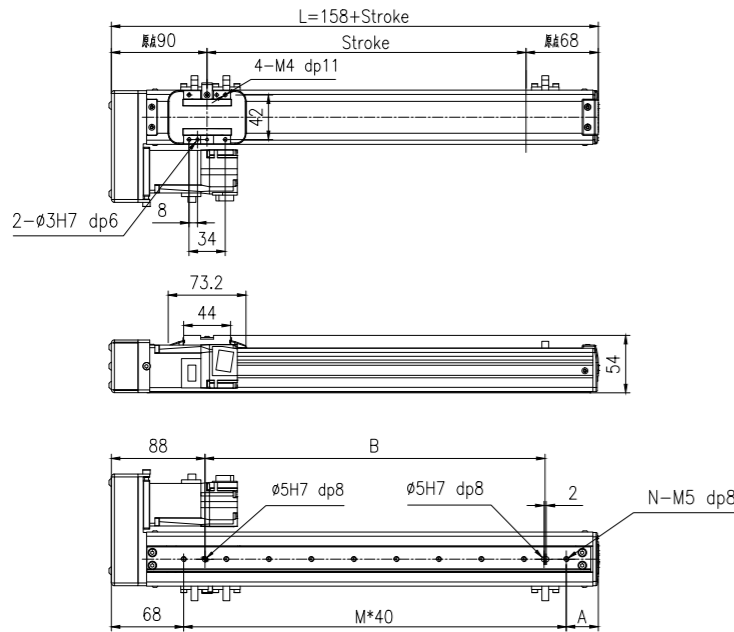


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600
L	258	308	358	408	458	508	558	608	658	708	758
A	30	40	50	20	30	40	50	20	30	40	50
B	120	160	200	280	320	360	400	480	520	560	600
M	4	5	6	8	9	10	11	13	14	15	16
N	5	6	7	9	10	11	12	14	15	16	17
重量 Weight (kg)	2.2	2.3	2.4	2.5	2.7	2.8	2.8	3.0	3.1	3.2	3.3
最高速度 Max speed (mm/sec)	導程Pitch10 500						導程Pitch 5 250				

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

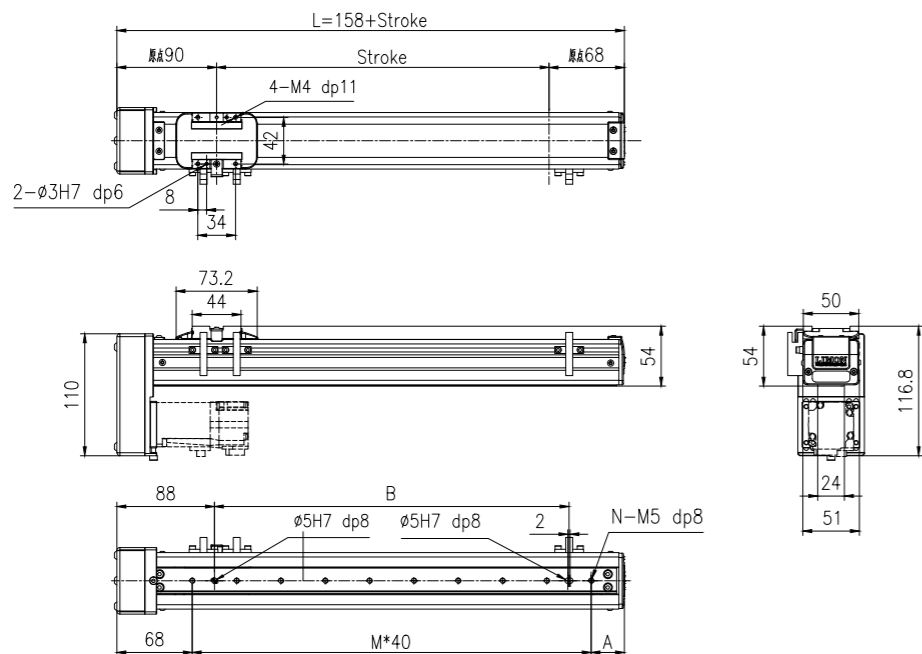
2D&3D文檔下載請至
www.limonrobot.cn



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Pitch10 250										
	導程Pitch5 500										

YSC50-MD
馬達下折安裝 Down Motor Mounting

2D&3D文檔下載請至
www.limonrobot.cn



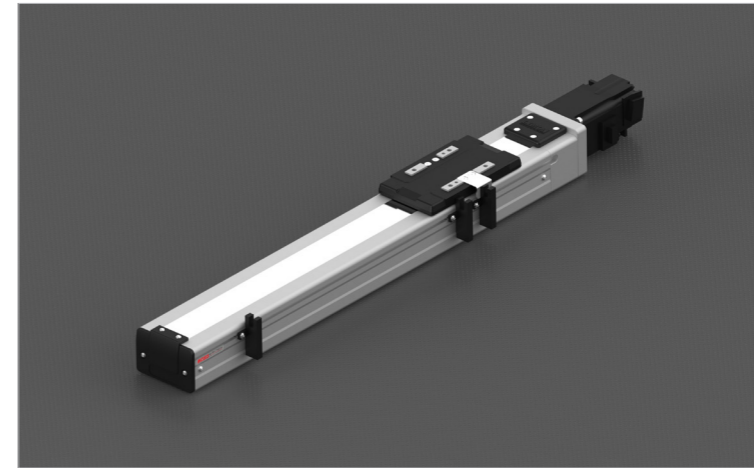
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600
L	258	308	358	408	458	508	558	608	658	708	758
A	30	40	50	20	30	40	50	20	30	40	50
B	120	160	200	280	320	360	400	480	520	560	600
M	4	5	6	8	9	10	11	13	14	15	16
N	5	6	7	9	10	11	12	14	15	16	17
重量 Weight (kg)	2.2	2.3	2.4	2.5	2.7	2.8	2.8	3.0	3.1	3.2	3.3
最高速度 Max speed (mm/sec)	導程Pitch10 250										
	導程Pitch5 500										

YSC 65 亞標全密式螺桿驅動型 Ball Screw Driven Linear Actuator

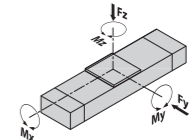
訂購型號代碼 Code

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	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: 量滑塊 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祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark/NoSensor	

注: 輔助滑塊選項相關參數參見樣本P132.



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

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

	YSC65	65		
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.01		
	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	
	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 15#x1PCS		
	主機截面最大外形 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。

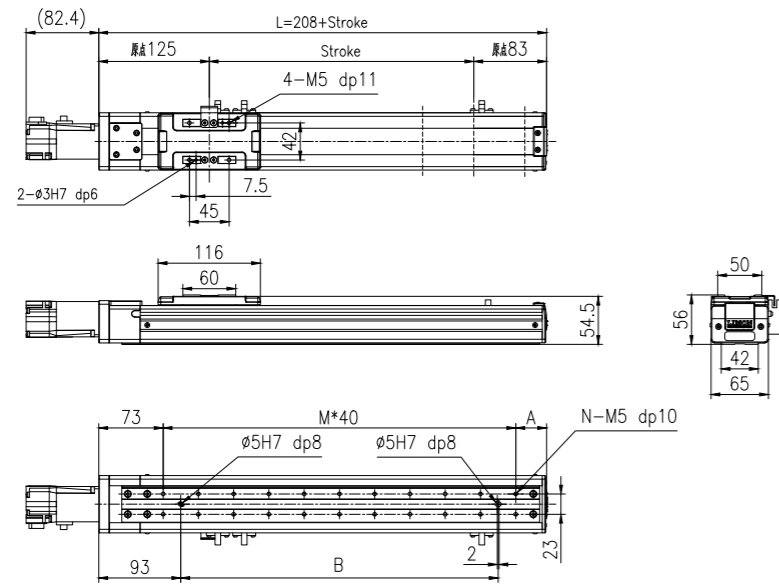
#Note: Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.

YSC 65 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSC65-MS 馬達直接安裝 Straight Motor Mounting

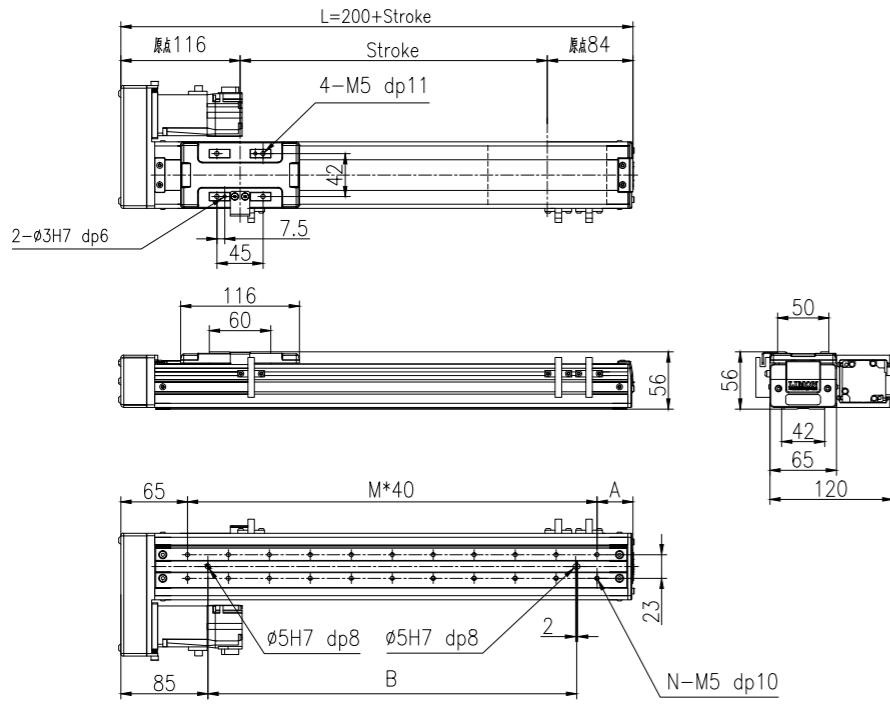
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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600
L	308	358	408	458	508	558	608	658	708	758	808
A	35	45	55	25	35	45	55	25	35	45	55
B	160	200	240	320	360	400	440	520	560	600	640
M	5	6	7	9	10	11	12	14	15	16	17
N	12	14	16	20	22	24	26	30	32	34	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)	導程Pitch10 500					導程Pitch5 250					

YSC65-ML 馬達左折安裝 Left Motor Mounting

2D&3D文檔下載請至
www.limonrobot.cn



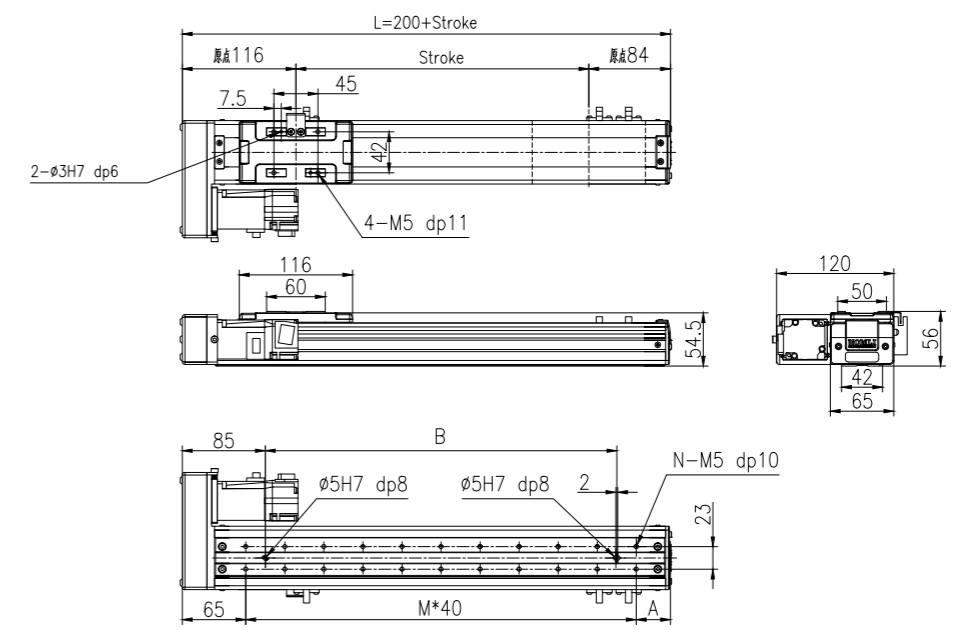
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600
L	300	350	400	450	500	550	600	650	700	750	800
A	35	45	55	25	35	45	55	25	35	45	55
B	160	200	240	320	360	400	440	520	560	600	640
M	5	6	7	9	10	11	12	14	15	16	17
N	12	14	16	20	22	24	26	30	32	34	36
重量 Weight (kg)	2.7	2.8	3.0	3.2	3.4	3.6	3.7	3.9	4.1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

YSC 65 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSC65-MR 馬達右折安裝 Right Motor Mounting

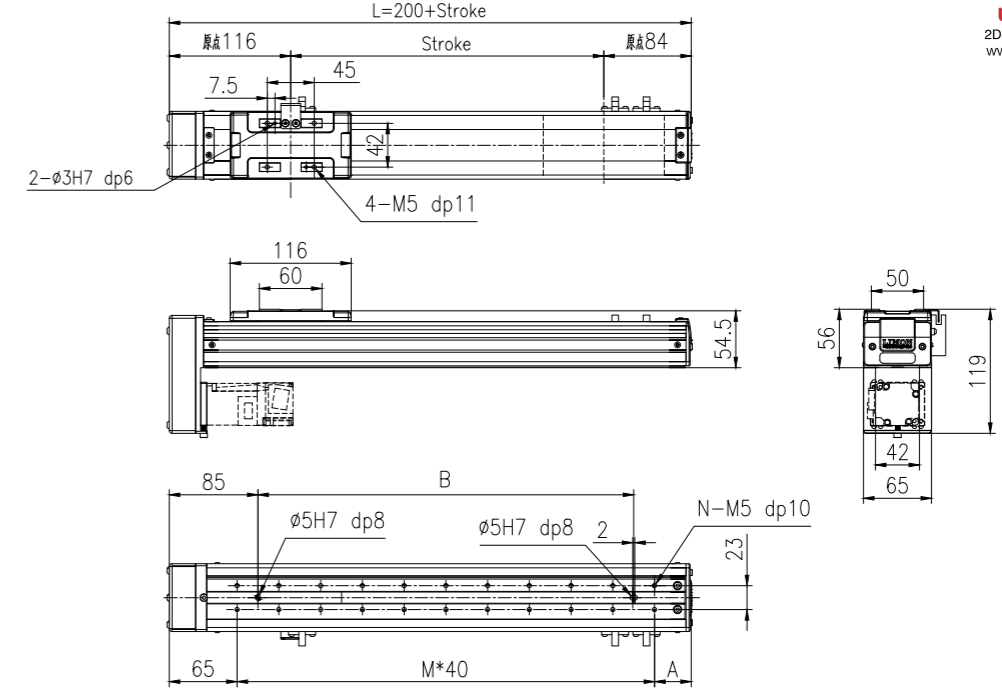
2D&3D文檔下載請至
www.limonrobot.cn



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)	導程Pitch10 500					導程Pitch5 250					

YSC65-MD 馬達下折安裝 Down Motor Mounting

2D&3D文檔下載請至
www.limonrobot.cn



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)	導程Pitch10 500					導程Pitch5 250					

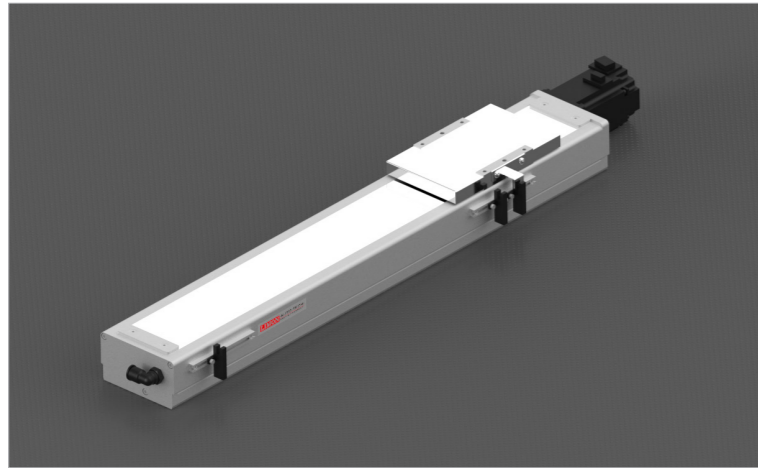
YSC 100 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

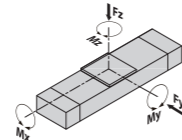
YSC100	L10	500	1P	MS	DB <small>注</small>	M40	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand - Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
	05 10 16 20	100-1050, 開隔Gap50	1P 2P	MS: 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: 單滑塊 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祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark/NoSensor	

注: 輔助滑塊選項相關參數參見樣本P132.



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

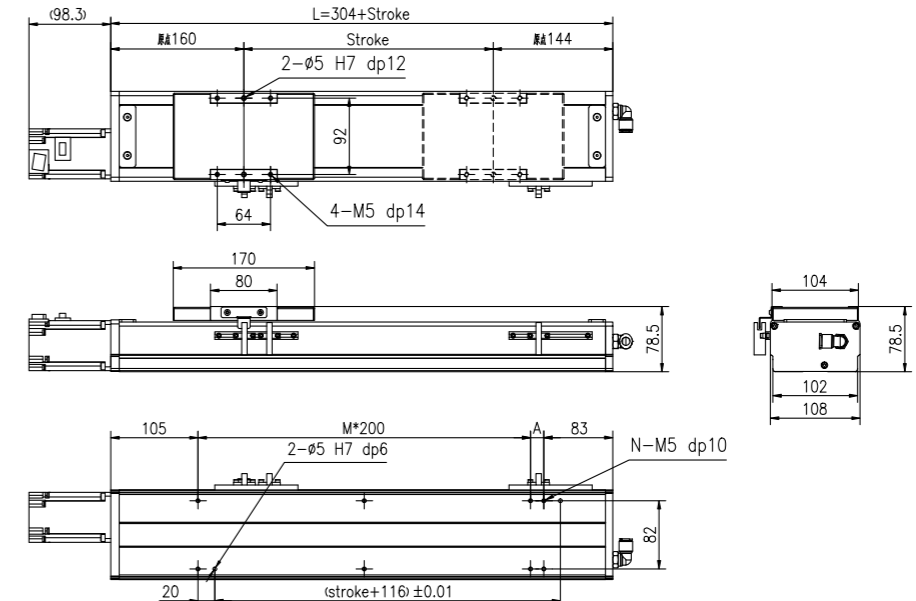
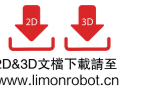
YSC100	1P(導軌滑塊數量) Block Quantity				2P(導軌滑塊數量) Block quantity				
	位置重複精度 Repetitive Accuracy (mm)	±0.01							
螺桿導程 Ball Screw Lead (mm)	5	10	16	20	5	10	16	20	
最高速度 Maximum Speed (mm/s)	*注1>Note1								
最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	40	24	18	14	50	30	22	18
	垂直使用Vertical (kg)	14	13	11	5	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	
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								
主機載面最大外形 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

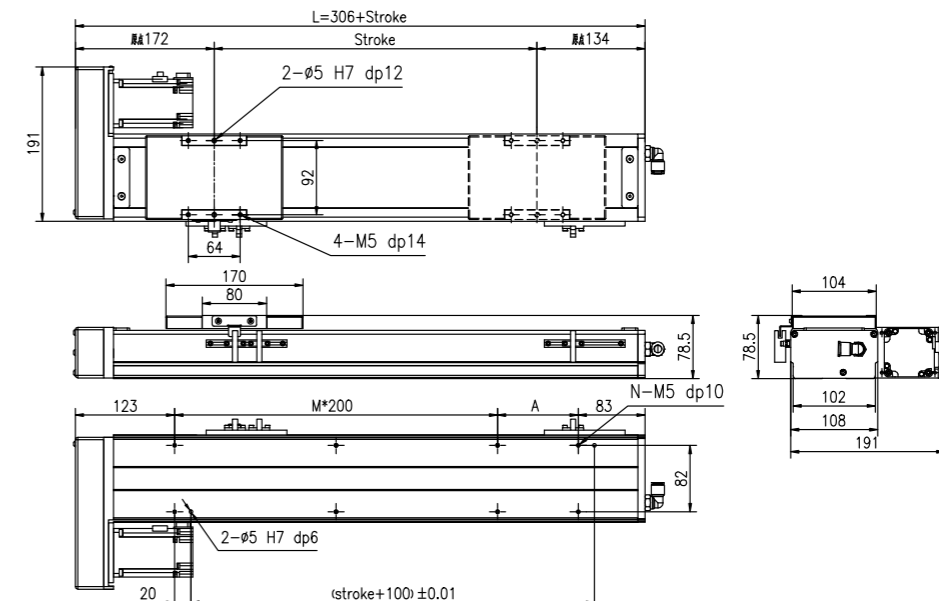
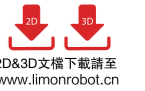
YSC100-1P/2P-MS 馬達直接安裝 Straight Motor Mounting



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	16	66	116	166	16	66	116	166	16	66	116	166	16	66	116	166		
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



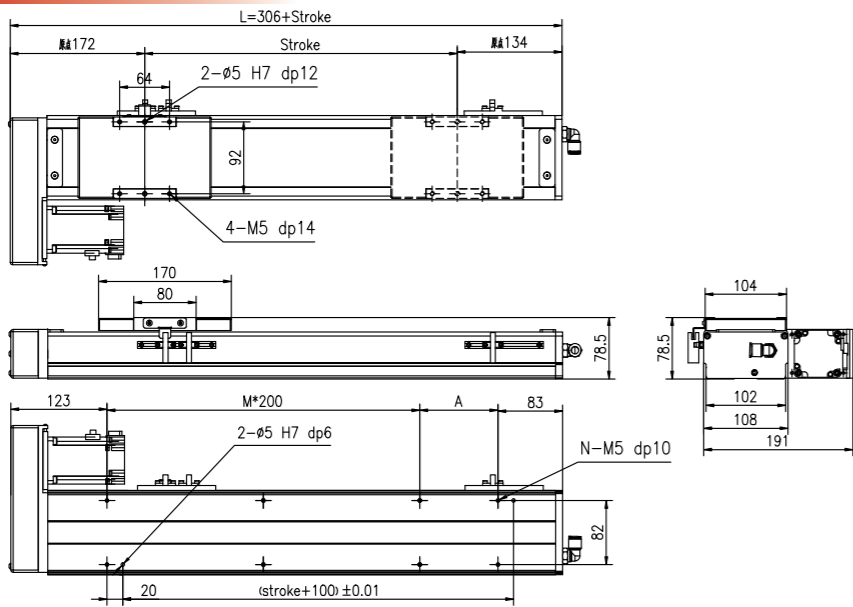
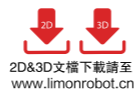
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050		
L	406	456	506	556	606	656	706	756	806	856	906	956	1006	1056	1106	1156	1206	1256	1306	1356		
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150		
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5		
N	4	6	6	6	6	8	8	8	8	10	10	10	10	10	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

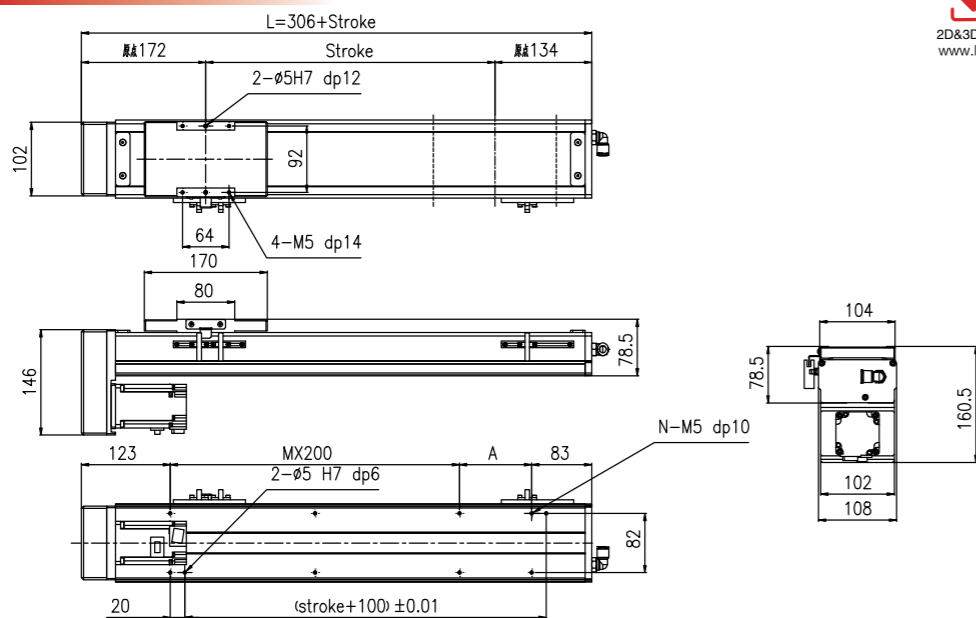
YSC100-1P/2P-MR
馬達右折安裝 Right Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
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	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：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
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	
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	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：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.

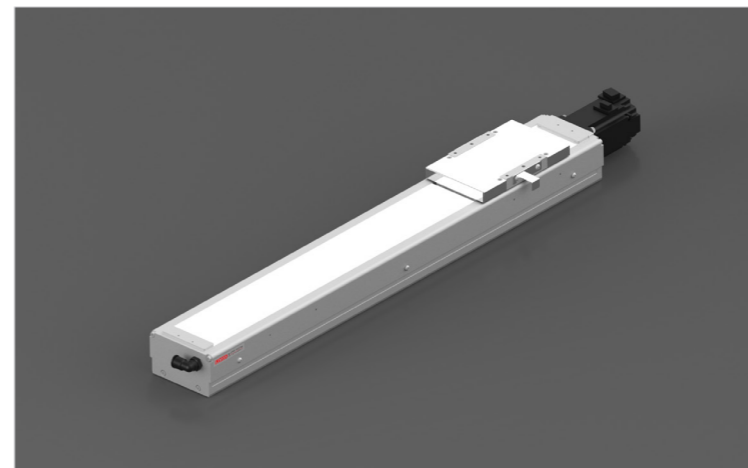
YSC 110 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

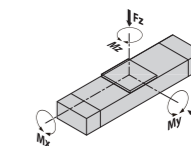
訂購型號代碼 Code

YSC110	L10	500	MS	DB	4P	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	輔助滑塊 Auxiliary Block	直線導軌滑塊數量 Block Quantity	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	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	4P	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祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark/NoSensor	

注：輔助滑塊選項相關參數參見樣本P132。



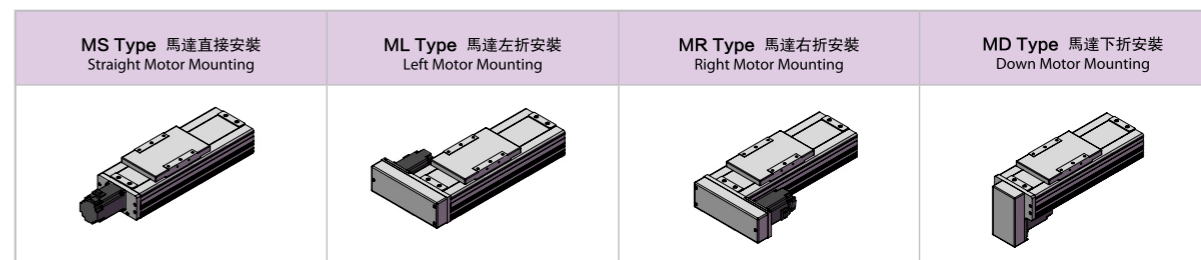
最大動態力和力矩
Max Permissible Forces And Torques



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

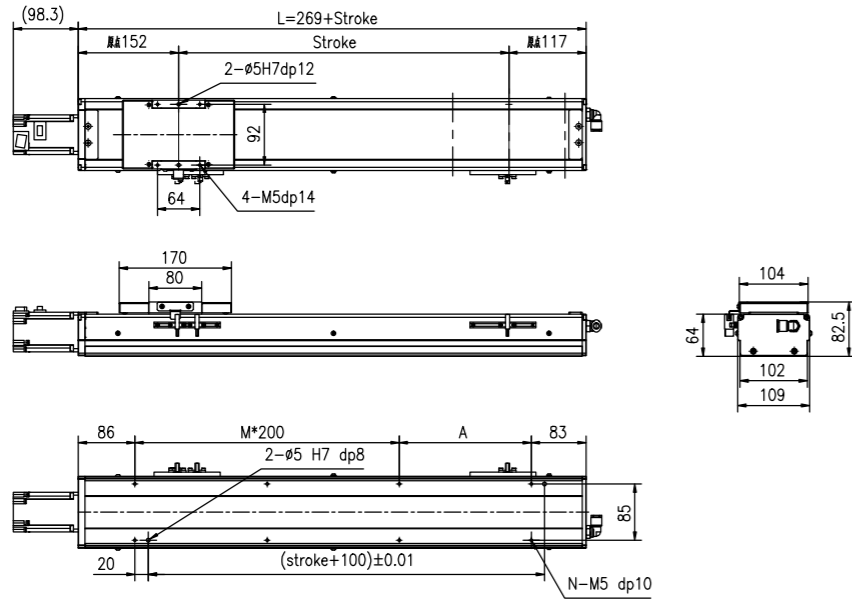
YSC		4P (導軌滑塊數量)Block Quantity				
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.01				
	螺桿導程 Ball Screw Lead (mm)	5	10	16	20	
	最高速度 Maximum Speed (mm/s)	250	500	800	1000	
	最大可搬重量 Maximum Payload	*注*Note 水平使用Horizontal (kg)	50	30	22	18
		垂直使用Vertical (kg)	18	16	14	6
	定格推力 Rated Thrust (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)	12x2PCS				
	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

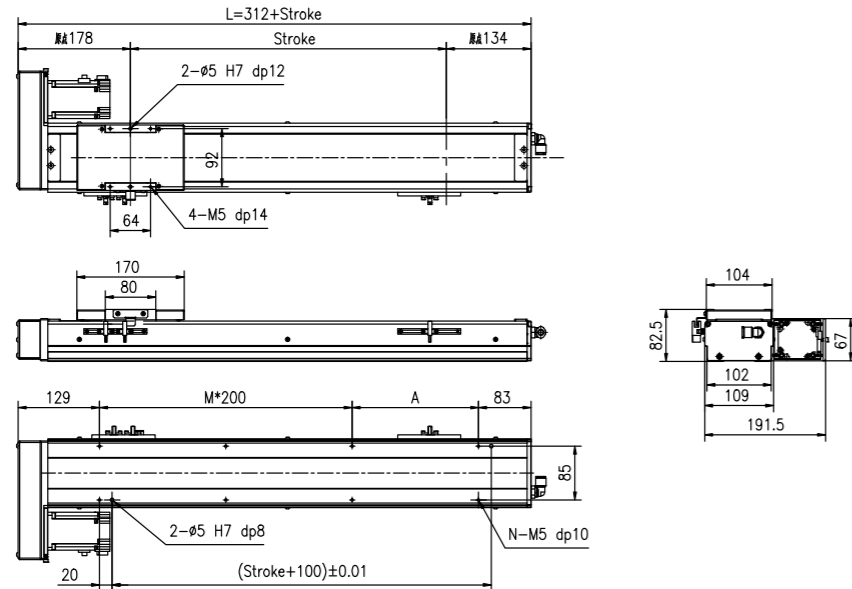
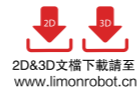
YSC110-MS 馬達直接安裝 Straight Motor Mounting



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	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	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)	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)																	1000	800	650	500	450						
																	導程 Pitch 20						800	640	520	400	360
																	導程 Pitch 16						500	400	325	250	225
																	導程 Pitch 10						250	200	162.5	125	112.5
																	導程 Pitch 05										

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 馬達左折安裝 Left Motor Mounting



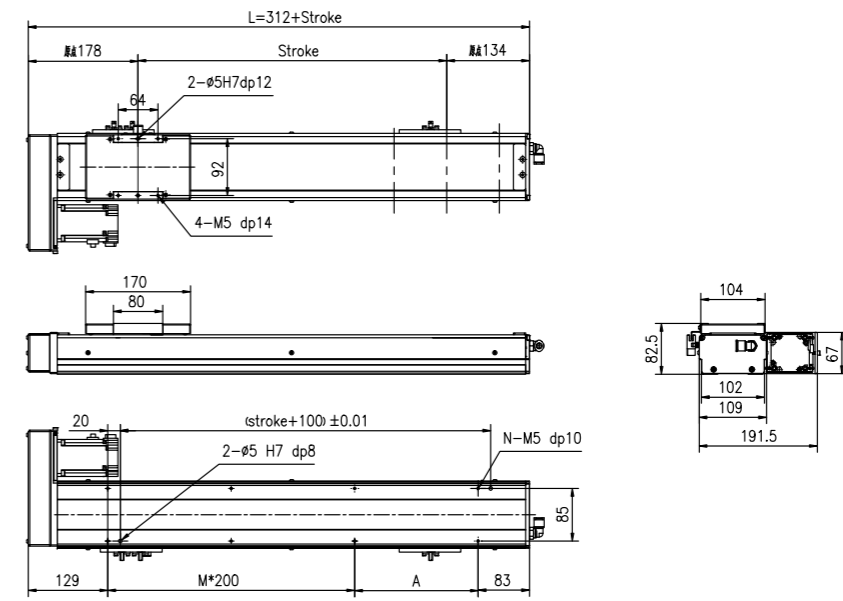
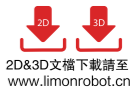
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050							
L	412	462	512	562	612	662	712	762	812	862	912	962	1012	1062	1112	1162	1212	1262	1312	1362							
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150							
M	0	1	1	1	1	2	2	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)	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)																	1000	800	650	500	450						
																	導程 Pitch 20						800	640	520	400	360
																	導程 Pitch 16						500	400	325	250	225
																	導程 Pitch 10						250	200	162.5	125	112.5
																	導程 Pitch 05										

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

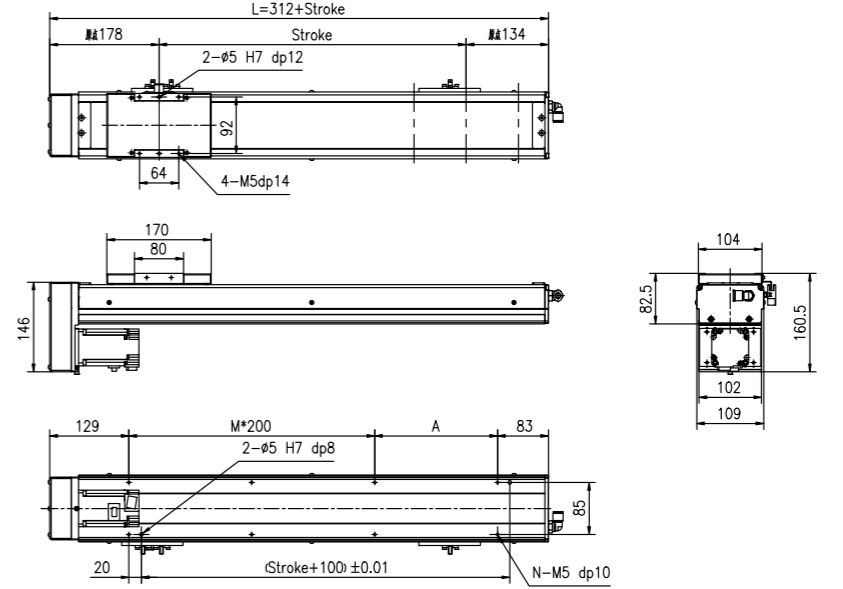
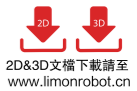
YSC110-MR 馬達右折安裝 Right Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050							
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	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)	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)																	1000	800	650	500	450						
																	導程 Pitch 20						800	640	520	400	360
																	導程 Pitch 16						500	400	325	250	225
																	導程 Pitch 10						250	200	162.5	125	112.5
																	導程 Pitch 05										

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 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							
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	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)	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)																	1000	800	650	500	450						
																	導程 Pitch 20						800	640	520	400	360
																	導程 Pitch 16						500	400	325	250	225
																	導程 Pitch 10						250	200	162.5	125	112.5
																	導程 Pitch 05										

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.

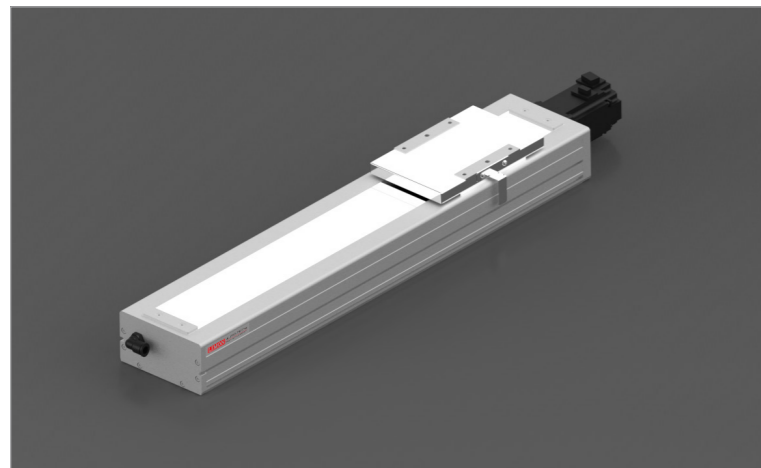
YSC 135 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

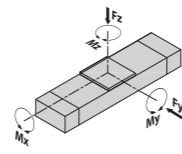
YSC135	L10	500	4P	MS	DB	M40	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand、Power Output	限位傳感器數量 Photoelectric Sensor	特法式樣 Special Order No.
	05 10 16 20	100-1250 間隔Gap50	4P	MS: 馬達直接安裝 Straight Motor Mounting 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	未填寫: 運滑塊 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祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 No Mark/NoSensor	

注: 輔助滑塊選項相關參數參見樣本P132.



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)	±0.01				
	螺桿導程 Ball Screw Lead (mm)	5	10	16	20	
	最高速度 Maximum Speed (mm/s)	*注1*Note1 250 500 800 1000				
	最大可搬重量 Maximum Payload	水平使用Horizontal (kg)	100	80	60	45
		垂直使用Vertical (kg)	50	30	22	16
	定格推力 Rated Thrust (N)	683	341	213	174	
	最大空載扭矩 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.

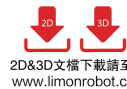
#注2: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。

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

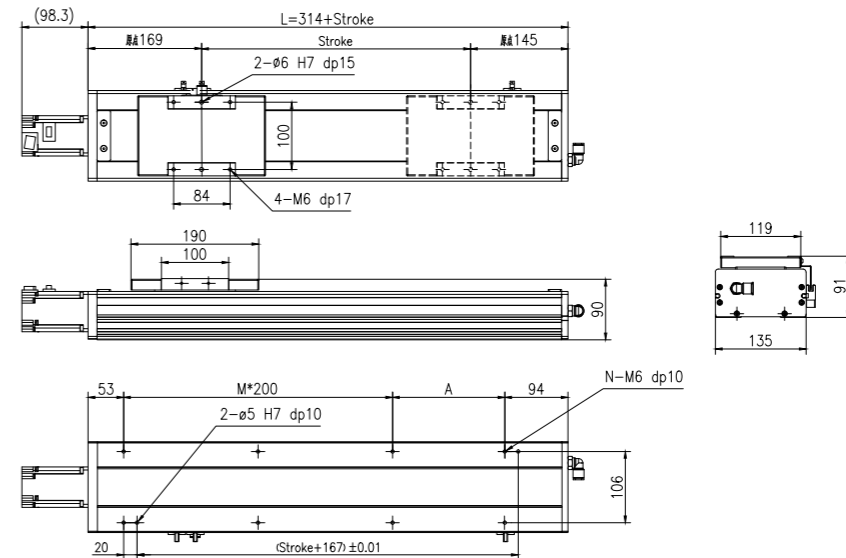
亞標全密式螺桿驅動型 YSC 135

Ball Screw Driven Linear Actuator

YSC135-4P-MS 馬達直接安裝 Straight Motor Mounting



2D&3D文檔下載請至
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	1100	1150	1200	1250		
L	414	464	514	564	614	664	714	764	814	864	914	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	1464	1514	1564		
A	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17		
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7		
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	14	14	14	14	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 20 800																800		640		520		400		360	
	導程 Pitch 16 500																400		325		250		225			
	導程 Pitch 10 250																200		162.5		125		112.5			
	導程 Pitch 05																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.

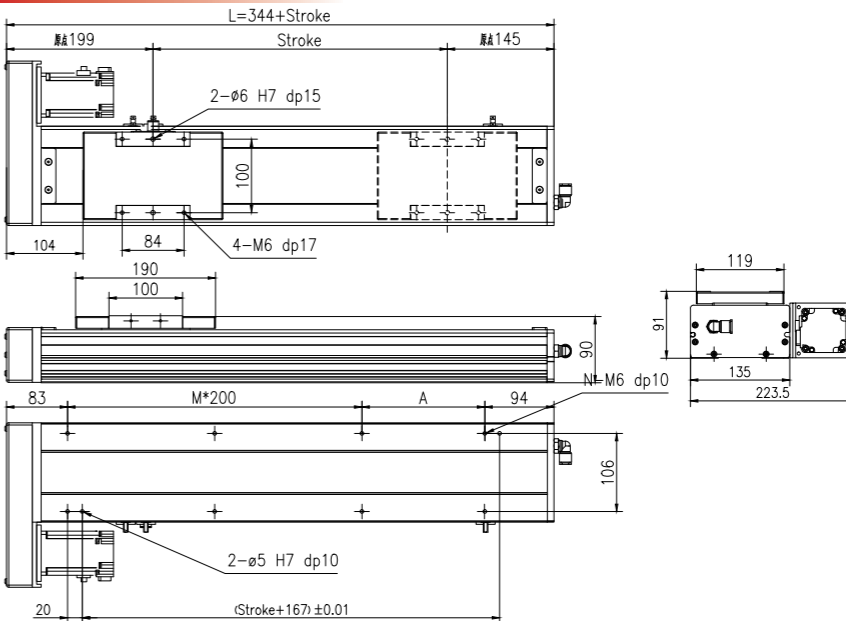
#注2: 此表格對應數據為Ø20螺桿的危險速度，Ø16螺桿參照YSO100(P19頁)。

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

YSC135-4P-ML 馬達左折安裝 Left Motor Mounting



2D&3D文檔下載請至
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	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	14	14	14	14	14	16	16	16	16	18		
重量 Weight (kg)	8.6	9.1	9.6	10.0	10.5	11.0	11.5	11.9	12.4	12.9	13.4	13.8	14.3	14.8	15.3	15.7	16.2	16.7	17.2	17.6	18.1	18.6	19.1	19.5		
最高速度 Max speed (mm/sec)	導程 Pitch 20 800																800		640		520		400		360	
	導程 Pitch 16 500																400		325		250		225			
	導程 Pitch 10 250																200		162.5		125		112.5			
	導程 Pitch 05																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)。

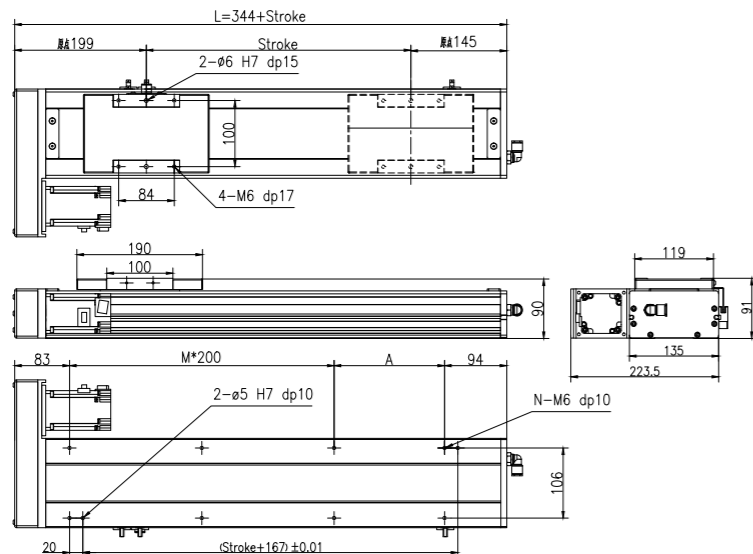
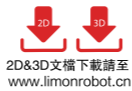
#Note2: This sheet's data is dangerous speed of ball screw Ø20. Data of Ø16 is referred to YSO100(P19)

YSC 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

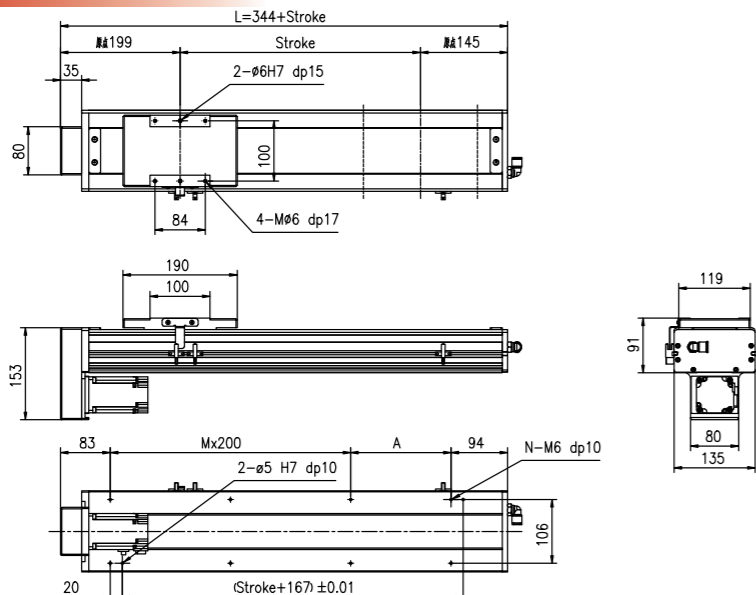
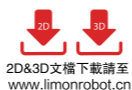


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250		
L	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544	1594		
A	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17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

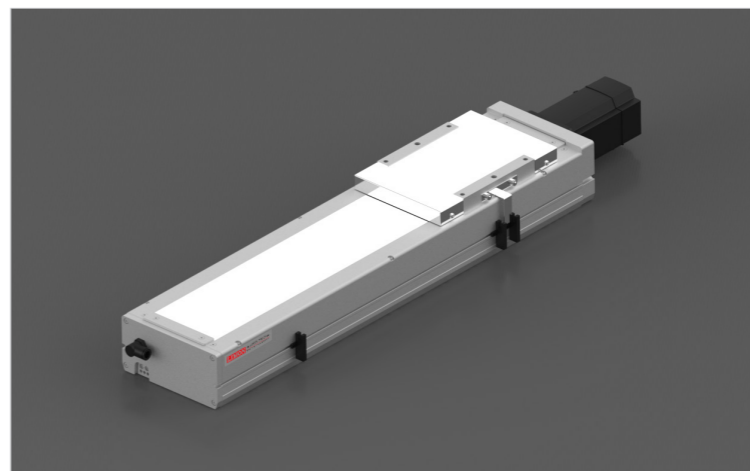
亞標全密式螺桿驅動型 YSC 170

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

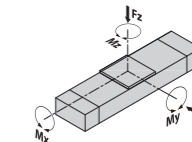
YSC170	L10	500	4P	MS	DB <small>注</small>	M40	P3	A001
本體型號 Item NO.	螺桿導程 Ball Screw Lead	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Block	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
	05 10 20 40	100-1250, 開隔Gap50	4P	MS: 馬達直接安裝 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: 量滑塊 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祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark/NoSensor	

注: 輔助滑塊選項相關參數參見樣本P132.



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

YSC170		4P(導軌滑塊數量) Block Quantity				
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.01				
	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。
#Note 2: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

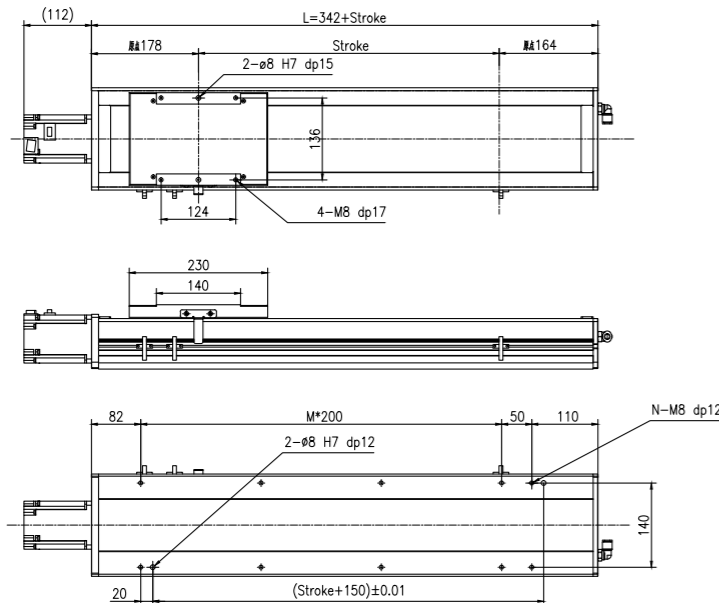
YSC 170 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSC170-4P-MS

馬達直接安裝 Straight Motor Mounting

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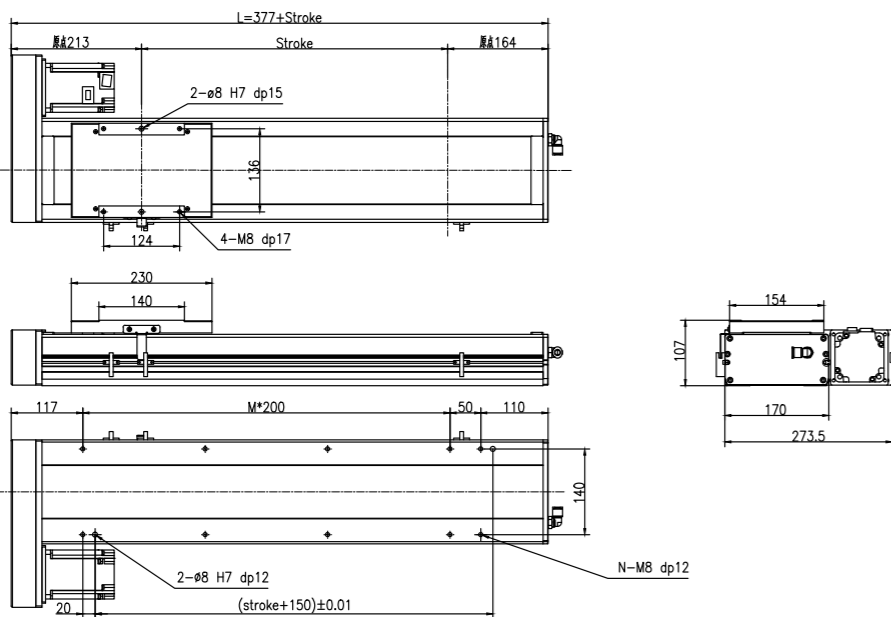
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	442	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292	1342	1392	1442	1492	1542	1592
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	3	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)	導程 Pitch 40 2000												導程 Pitch 20 1000											
	導程 Pitch 10 500												導程 Pitch 05 250											

#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

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	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	3	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)	導程 Pitch 40 2000												導程 Pitch 20 1000											
	導程 Pitch 10 500												導程 Pitch 05 250											

#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.

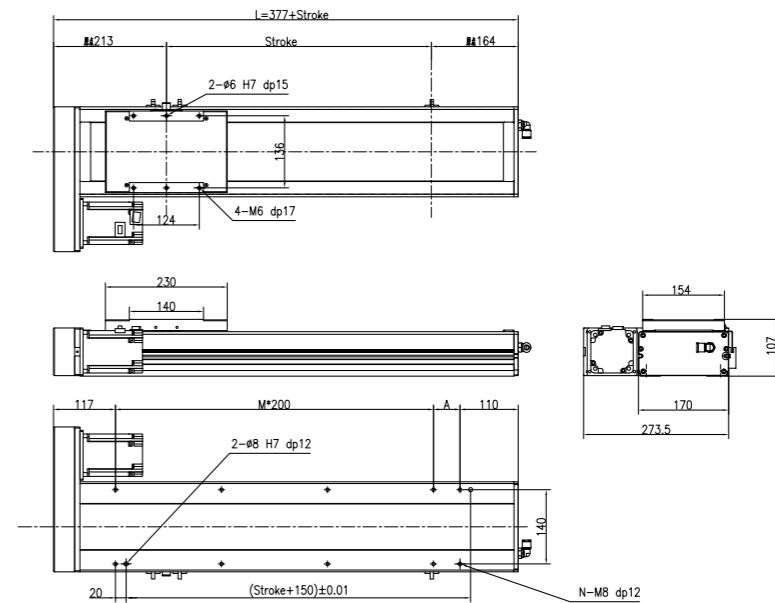
亞標全密式螺桿驅動型 YSC 170

Ball Screw Driven Linear Actuator

YSC170-4P-MR

馬達右折安裝 Right Motor Mounting

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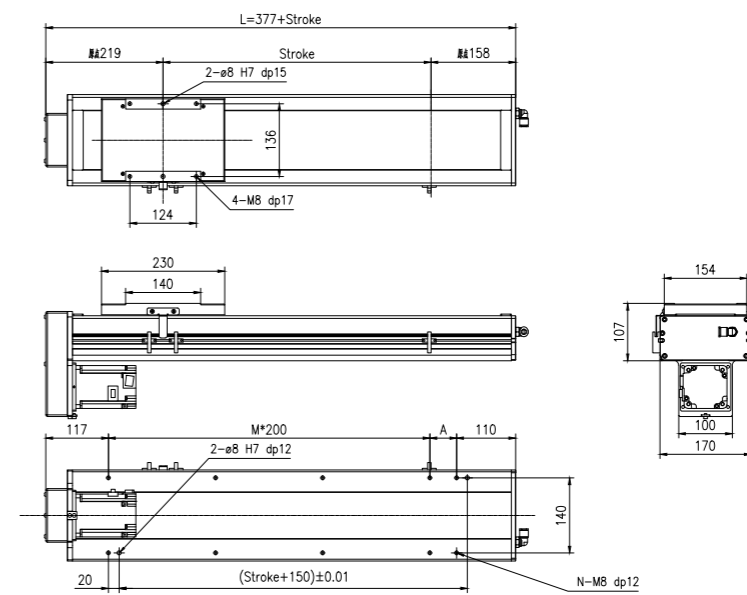
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	3	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)	導程 Pitch 40 2000												導程 Pitch 20 1000											
	導程 Pitch 10 500												導程 Pitch 05 250											

#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

馬達下折安裝 Down Motor Mounting

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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	3	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)	導程 Pitch 40 2000												導程 Pitch 20 1000											
	導程 Pitch 10 500												導程 Pitch 05 250											

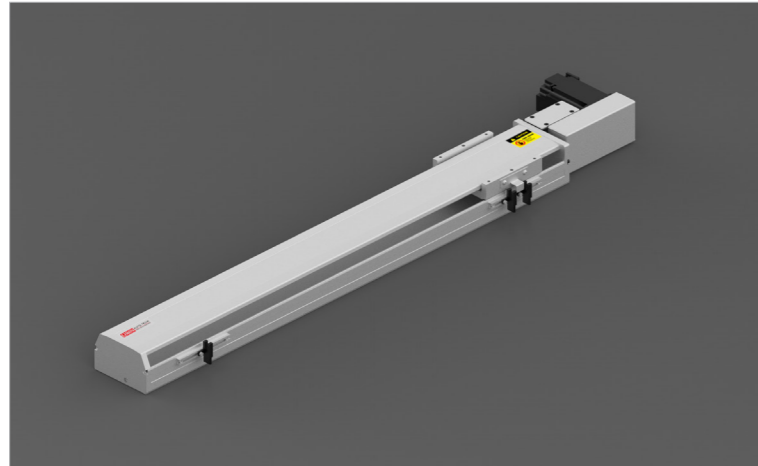
#注1: 行程超過850mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

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

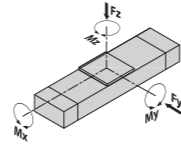
訂購型號代碼 Code

YTO100	500	2P	D01	DB <small>注</small>	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	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.
			D01 D02 D03 D04 D05 D06 D07 D08 D09		M 三菱 Mitsubishi 10 P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 1K	P1: 1祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark/NoSensor	

注: 輔助滑塊選項相關參數參見樣本P132.



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

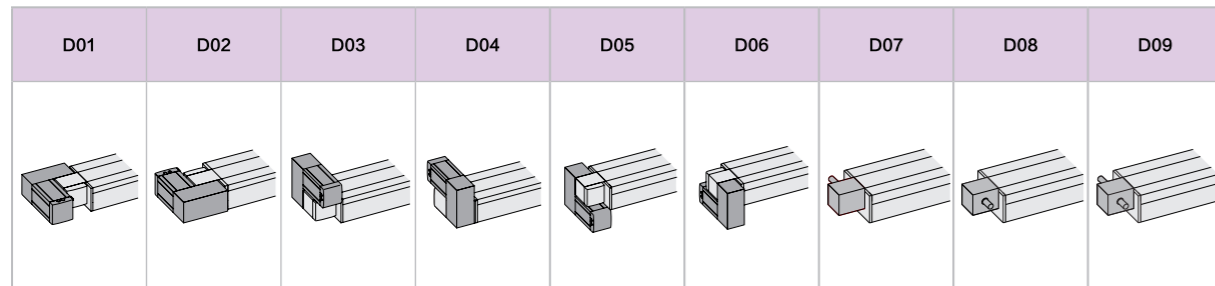


Type	2P
■ F(y) (N)	2571
■ F(z) (N)	3060
■ M(x) (N·m)	30
■ M(y) (N·m)	30
■ M(z) (N·m)	30

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 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	± 0.05
	皮帶輪導程 Pulley Lead (mm)	80 /40 <small>#注2#Note2</small>
	皮帶型號 Belt Type	5M-15
	最高速度 Maximum Speed (mm/s)	2000
	最大可搬重量 <small>*注1 *Note1</small> 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 Basic Specification	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
	主機版面最大外形 Max Outline of Main Engine's Cross Section (mm)	105 × 66
原點感應器 Home Sensor	EE-SX672(NPN)	

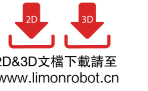
#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。

#Note1: Date changes 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。

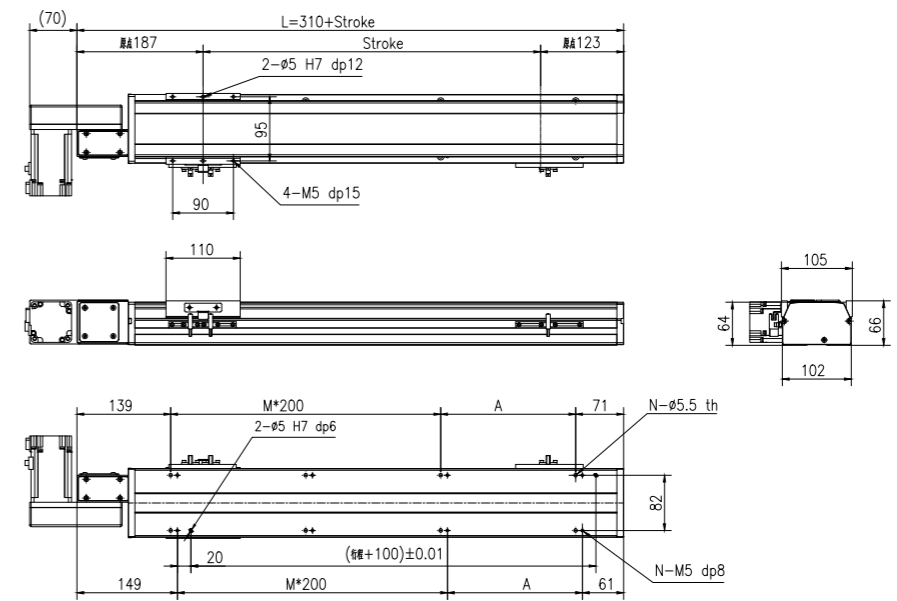
Note 2: Pulley's original lead is 80mm, which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

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



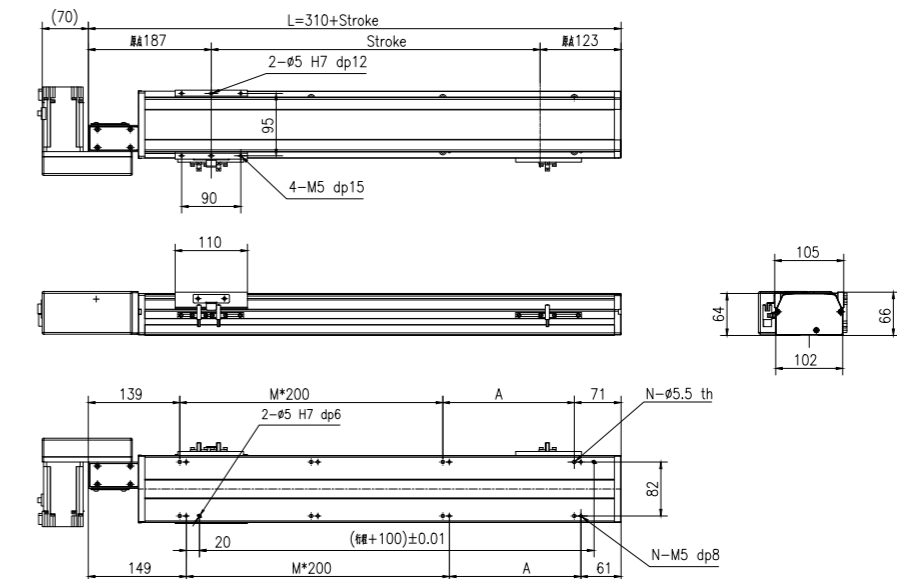
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YTO100-2P-D01



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

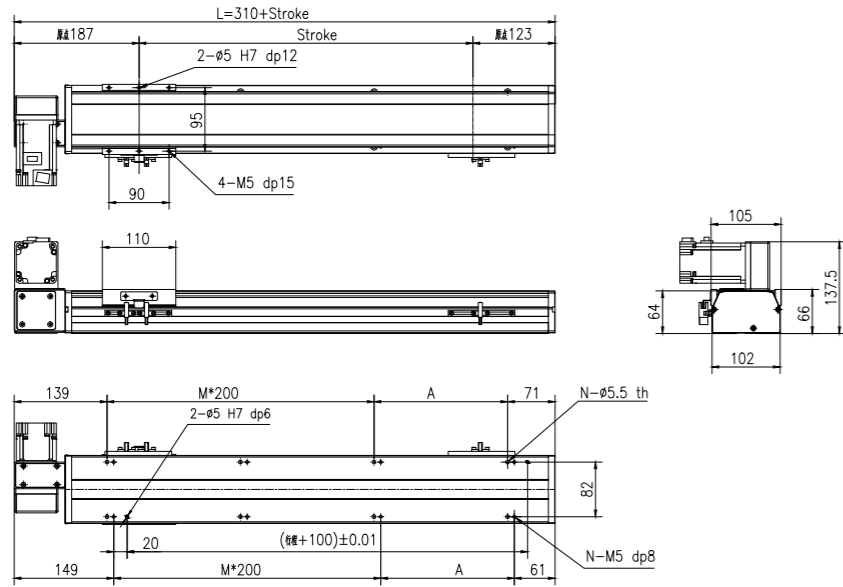
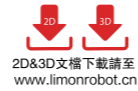
YTO100-2P-D02



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

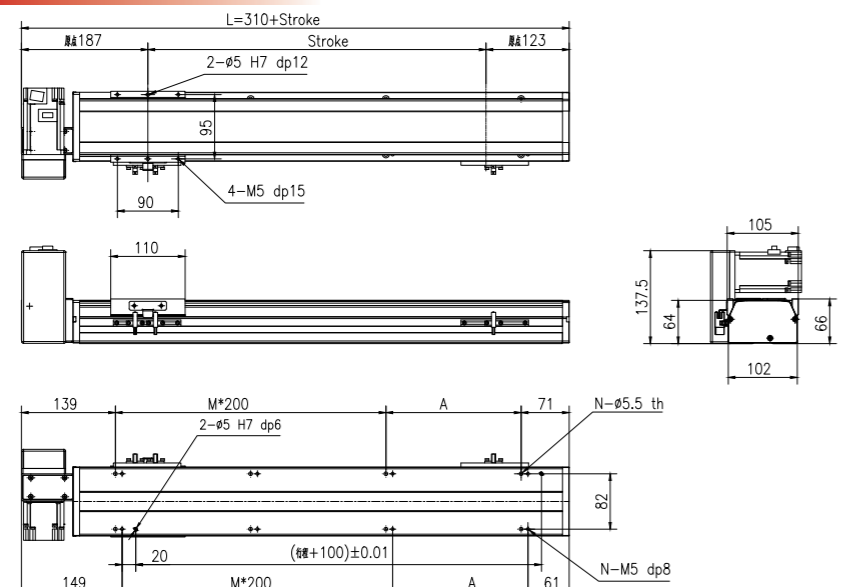
YTO100 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

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	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)	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

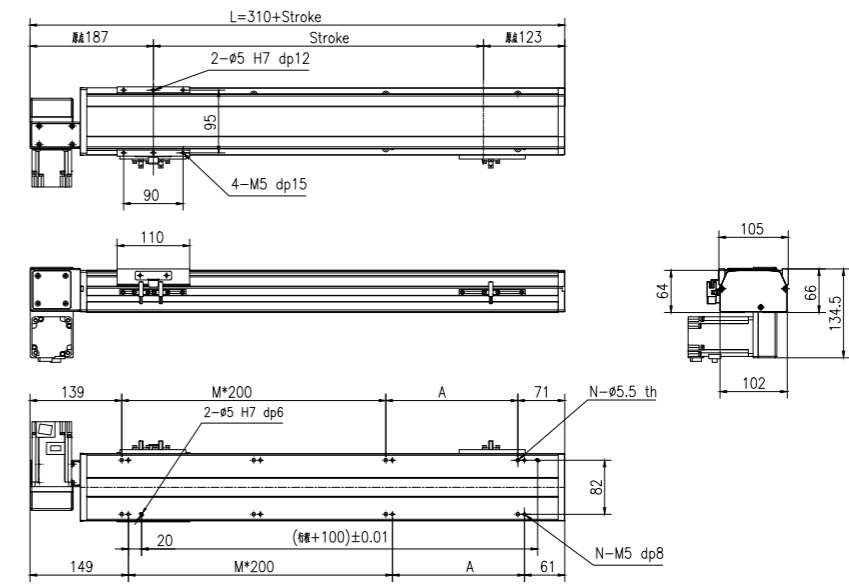
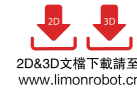
YTO100-2P-D04



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	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)	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

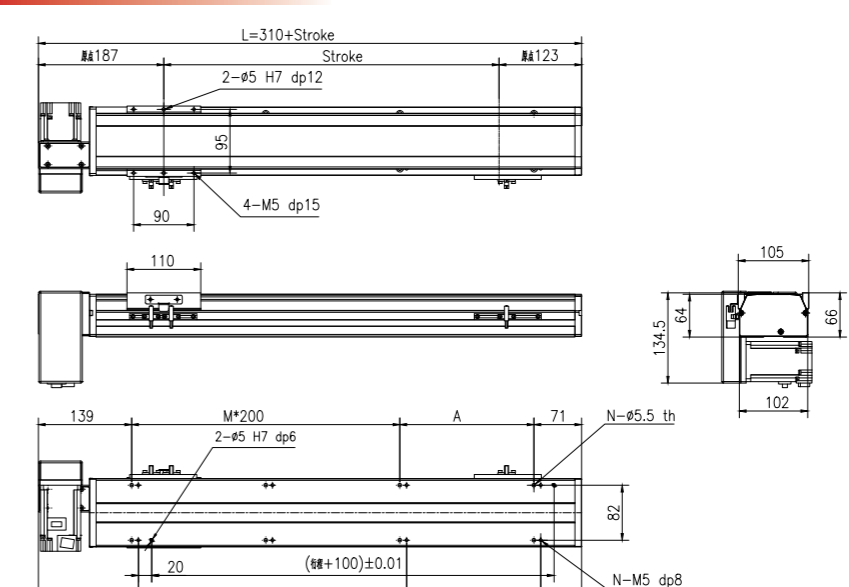
亞標半密式同步帶驅動型 YTO100 Belt Driven Linear Actuator

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	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)	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

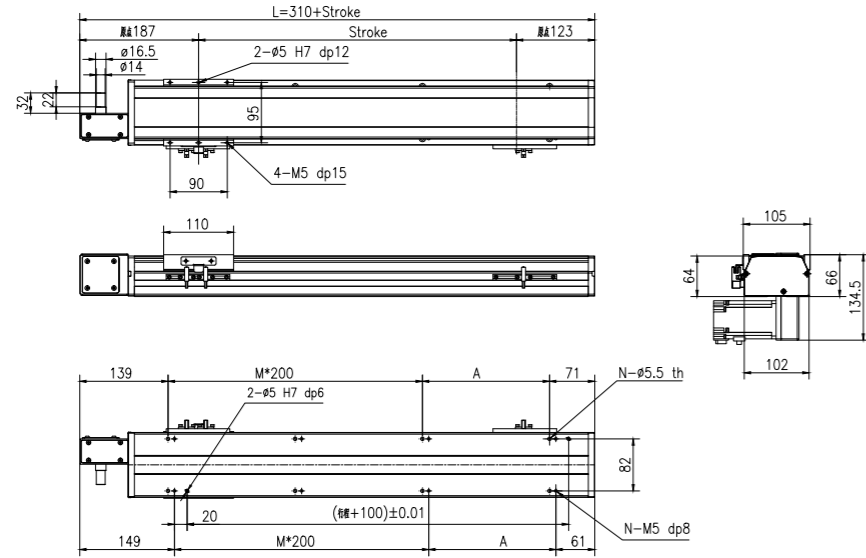


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	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	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)	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

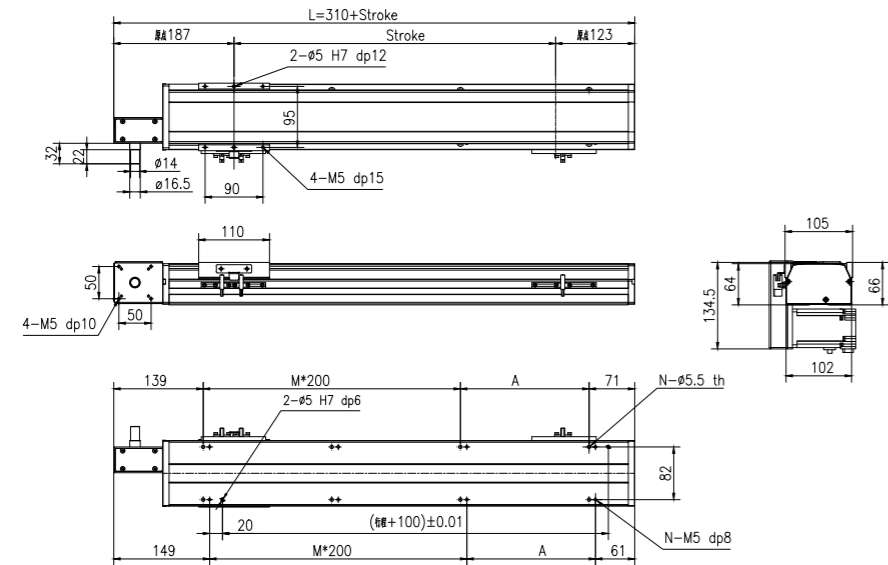
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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	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-D08

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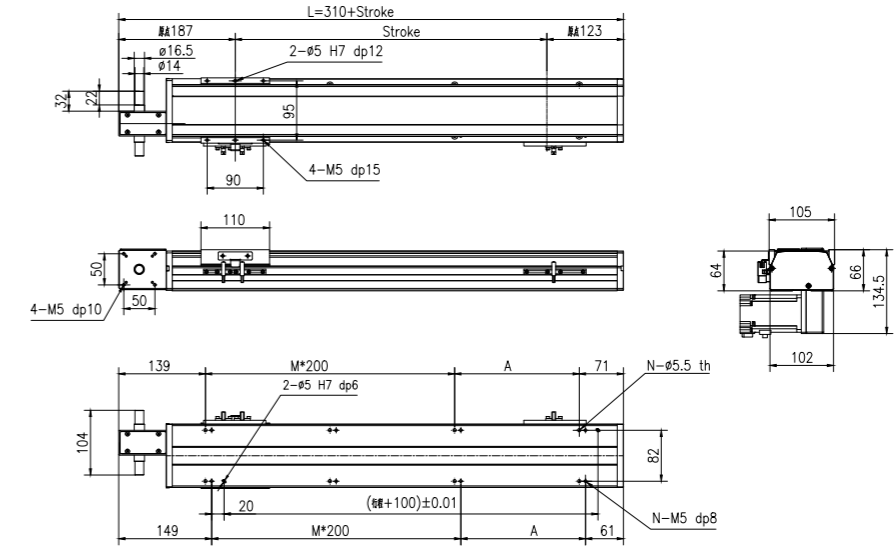


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	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

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

YTO100-2P-D09

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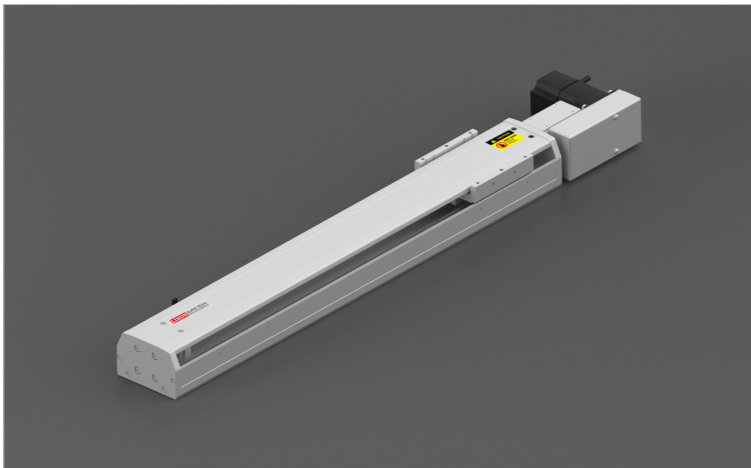
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	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

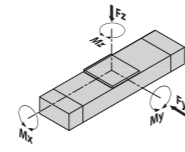
訂購型號代碼 Code

YTO110	-	500	-	4P	-	D01	-	DB <small>注</small>	-	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 4P	馬達方向 Motor Mounting Position D01-D09	輔助滑塊 Auxiliary Block DB: 未填載量滑塊, 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祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 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P132.



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

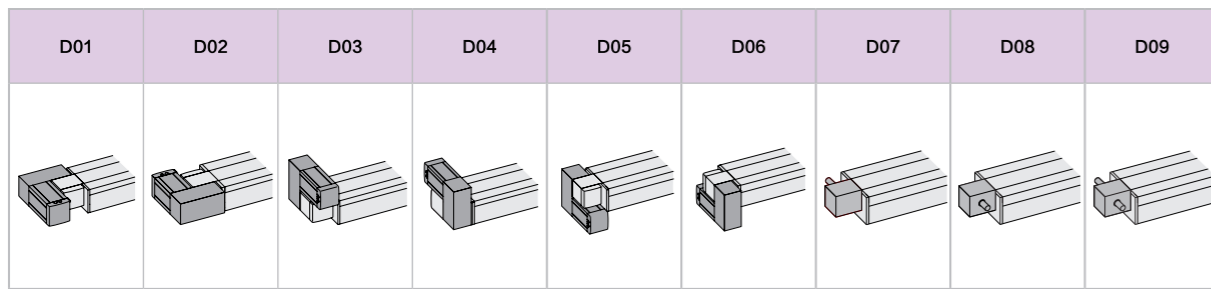


Type	4P
■F(y) (N)	3427
■F(z) (N)	3427
■M(x) (N·m)	98
■M(y) (N·m)	40
■M(z) (N·m)	176

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



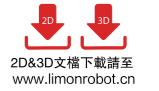
基本規格 Basic Specification

YTO110		4P(導軌滑塊數量) Block Quantity
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)	±0.05
	皮帶輪導程 Pulley Lead (mm)	80 /40 <small>#注2#Note2</small>
	皮帶型號 Belt Type	5M-15
	最高速度 Maximum Speed (mm/s)	2000
	最大可搬重量 <small>#注1#Note1</small> Maximum Payload	水平使用Horizontal (kg) 20 垂直使用Vertical (kg) 10
	最大空載扭矩 Max. No-load Driving Torque (N·m)	0.3
基本規格 Basic Specification	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
	主機載面最大外形 Max Outline of Main Engine's Cross Section (mm)	102 × 70
原點感應器 Home Sensor	EE-SX672(NPN)	

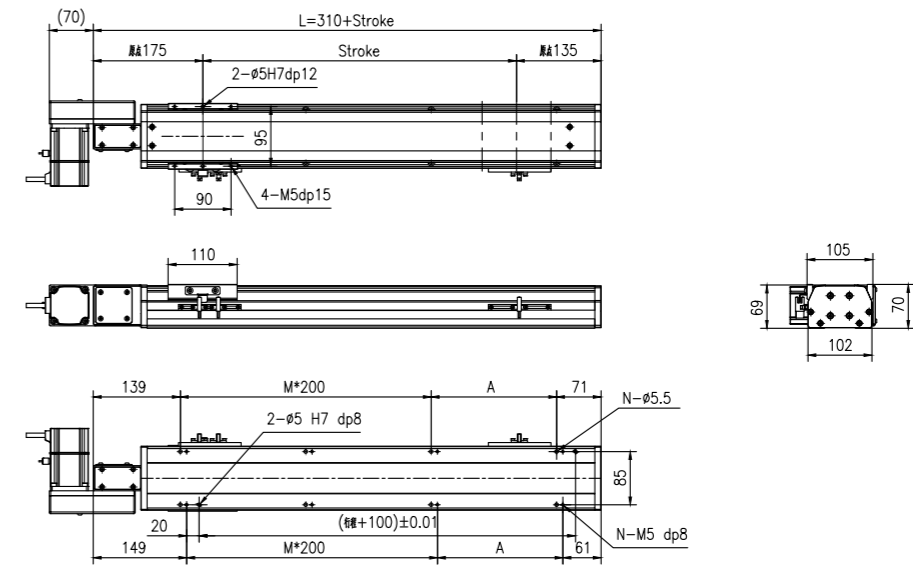
#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note1: Data changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.
#注2: 皮帶輪原始導程為80mm，標準品默認附減速機構，減速後導程為40mm。
Note 2: Pulley's original lead is 80mm, which standard type is equipped with reduction 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

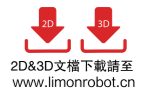


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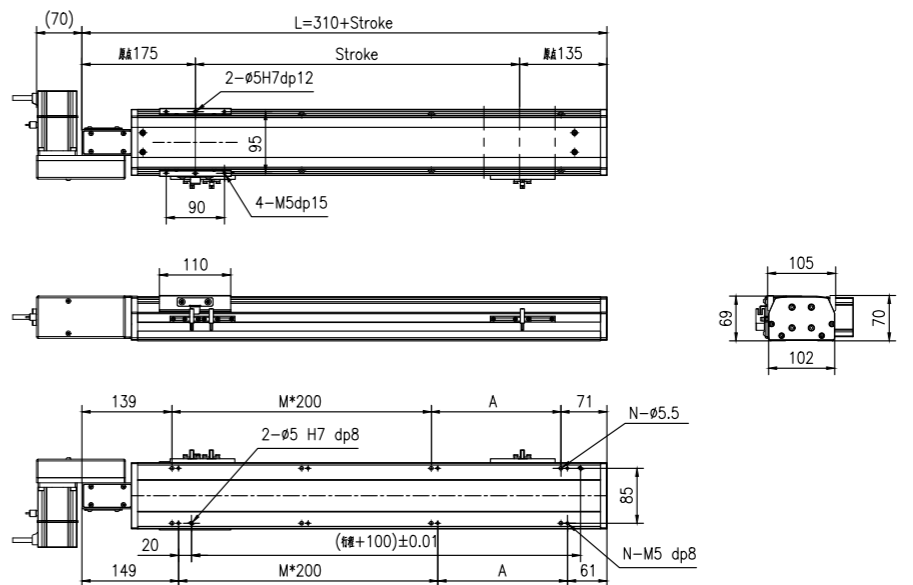


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	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	7	7	7	7	7	8
N	12	12	14	14	14	14	16	16	16	18	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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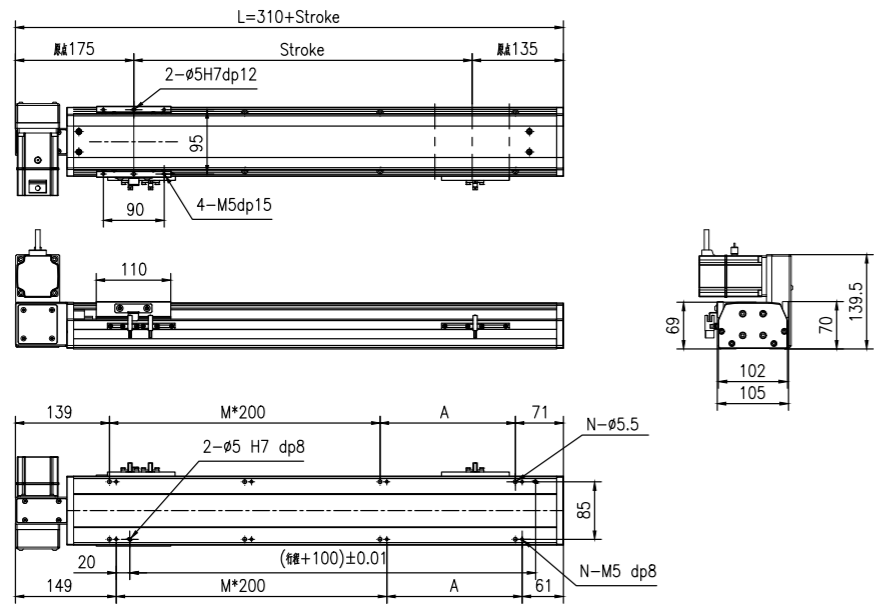


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	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	7	7	7	7	7	8
N	12	12	14	14	14	14	16	16	16	18	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

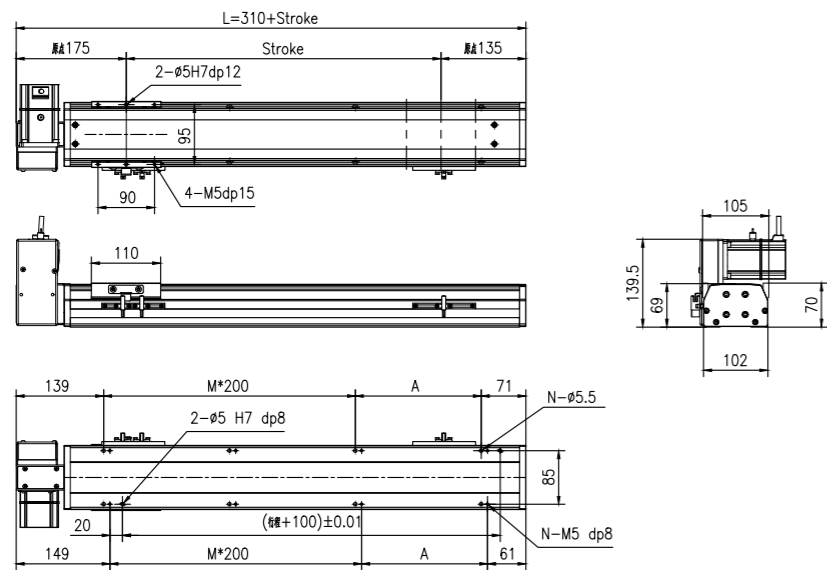
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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	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	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-D04

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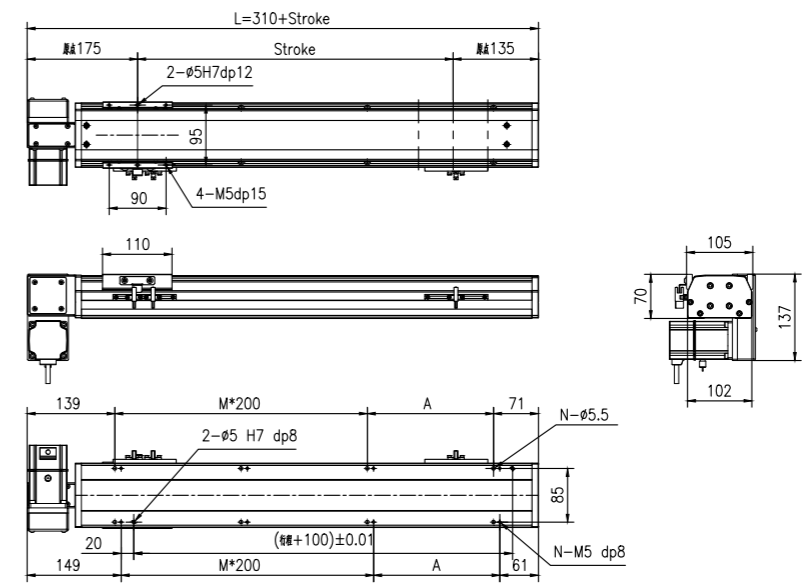


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12
重量 Weight (kg)	4.5	4.8	5.1	5.4	5.7	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	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 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO110-4P-D05

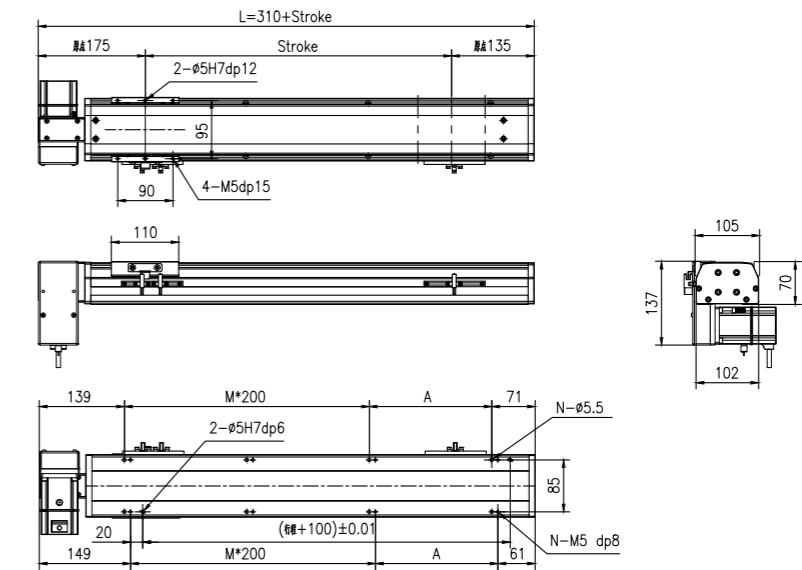
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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	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	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-D06

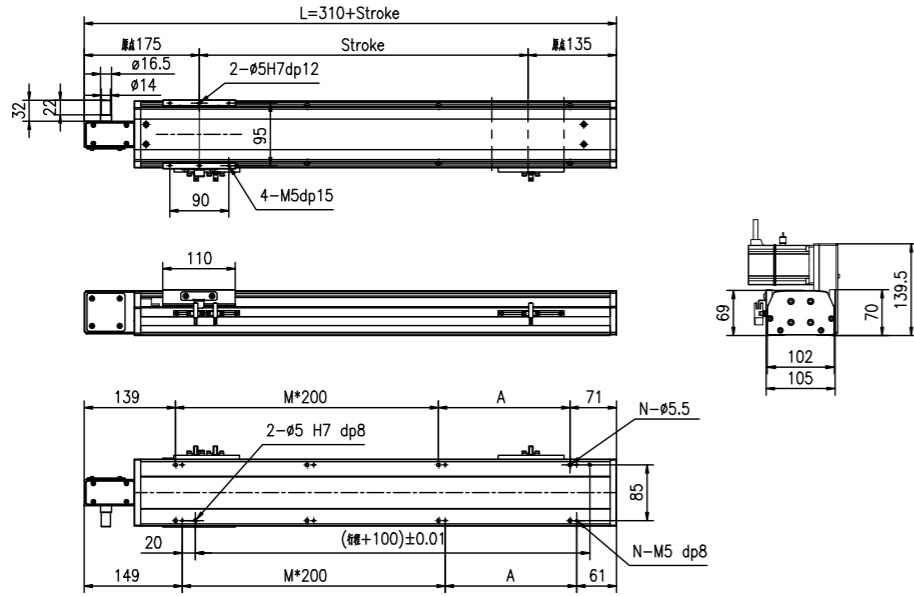
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行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4
N	4	6	6	6	6	8	8	8	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	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

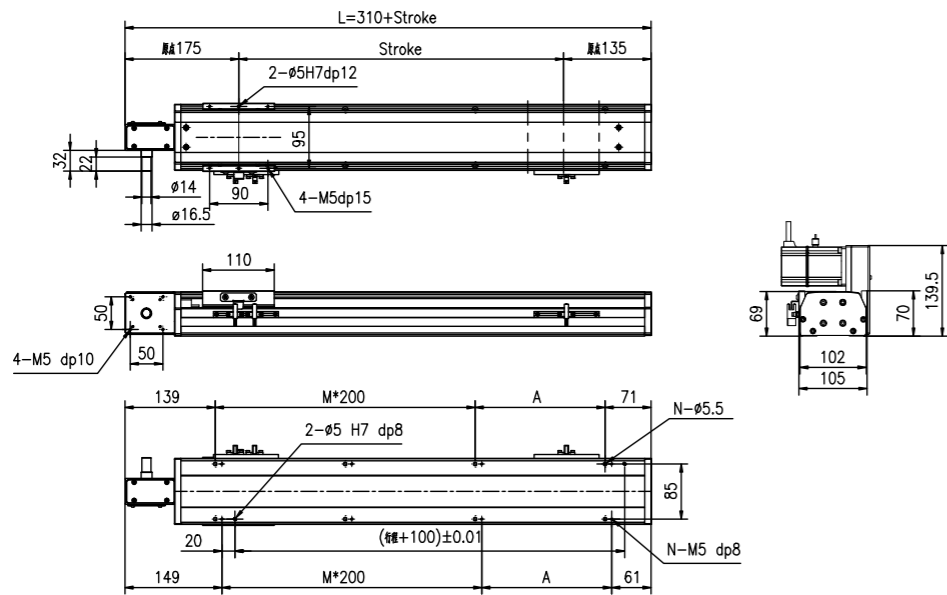
YTO110 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

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	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

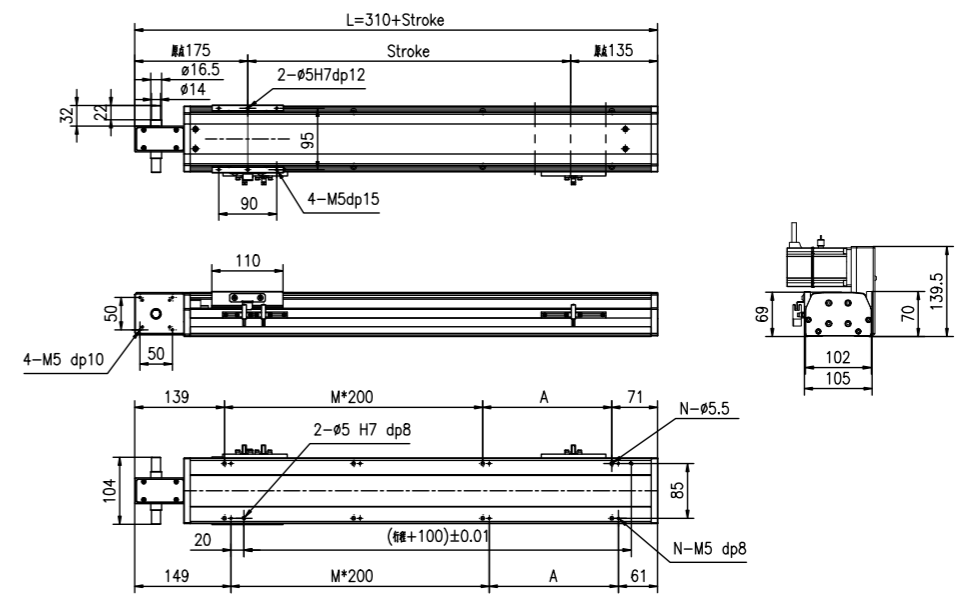
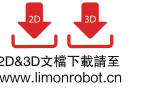
YTO110-4P-D08



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	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-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	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

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

訂購型號代碼 Code

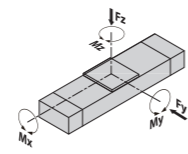
YTO135 - **500** - **4P** - **D01** - **DB** - **M40** - **P3** - **A001**

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 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 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K -	限位傳感器數量 Photoelectric Sensor P1: 1祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 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P132.



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

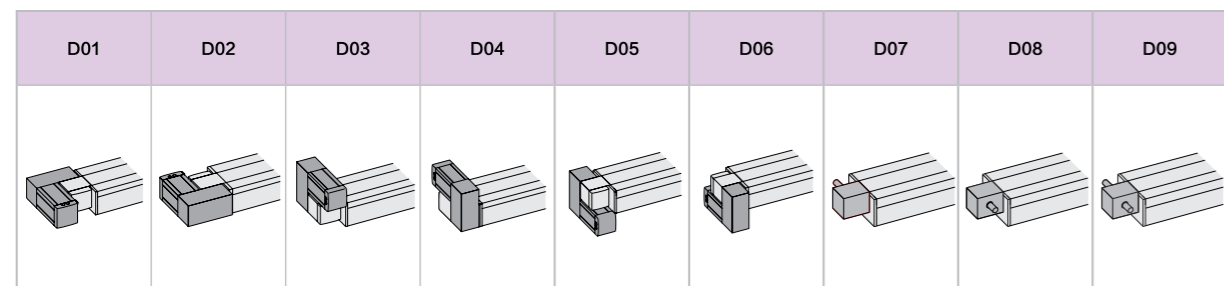


Type	4P
■ F(y) (N)	5370
■ F(z) (N)	5370
■ M(x) (N·m)	142
■ M(y) (N·m)	104
■ M(z) (N·m)	346

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 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
基本規格 Basic Specification	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
主機載面最大外形 Max Outline of Main Engine's Cross Section (mm)	135 × 93	
原點感應器 Home Sensor	EE-SX672(NPN)	

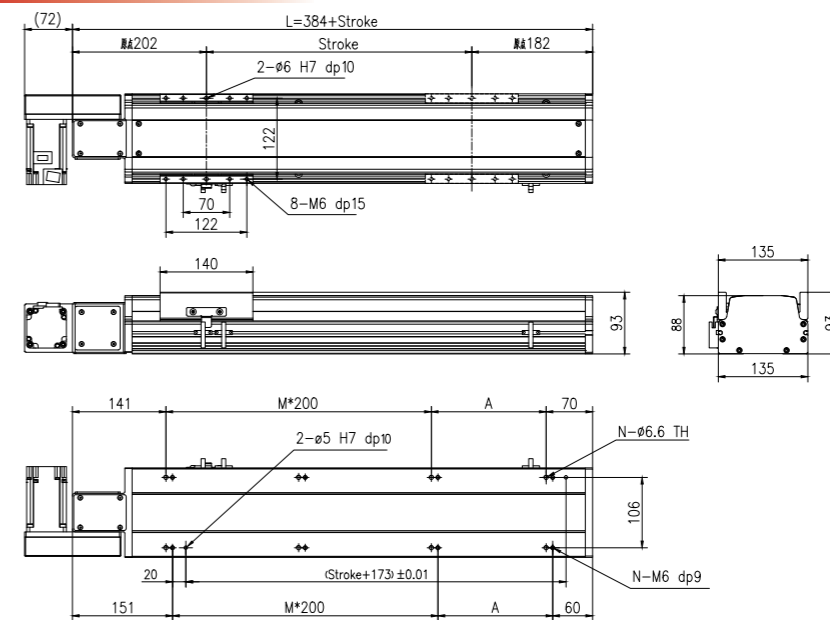
#注1: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。
#Note1: Data changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.
#注2: 皮帶輪原始導程為110mm, 標準品默認附減速機構, 減速後導程為50mm。
Note 2: Pulley's original lead is 110mm, which standard type is equipped with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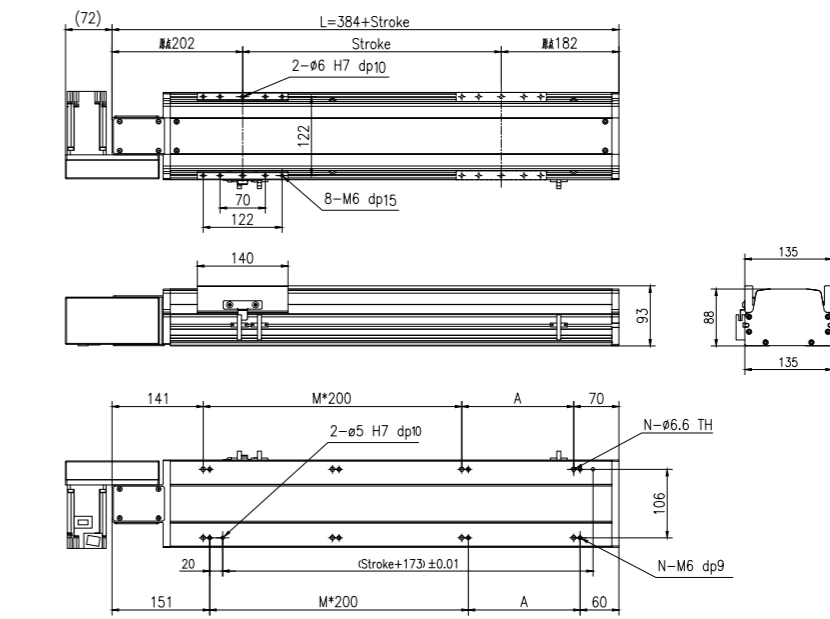


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	273	373	473	573	673	773	873	973	1073	1173	1273	1373	1473	1573	1673	1773	1873	1973
M	1	1	2	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



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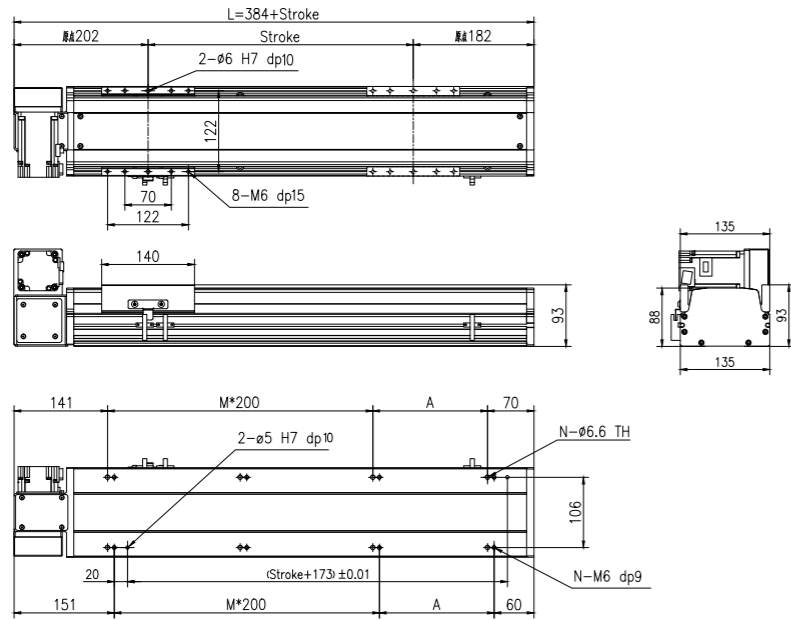


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	273	373	473	573	673	773	873	973	1073	1173	1273	1373	1473	1573	1673	1773	1873	1973
M	1	1	2	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 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO135-4P-D03

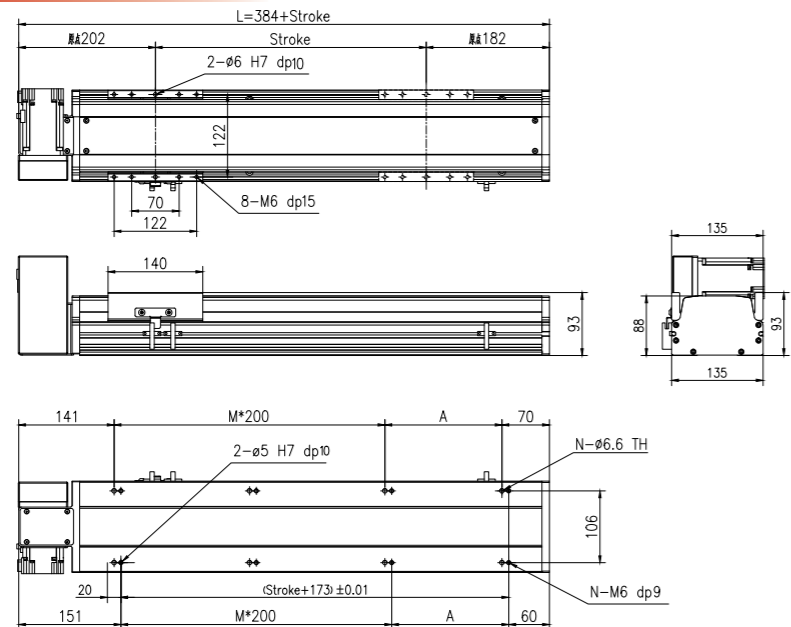
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73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

YTO135-4P-D04

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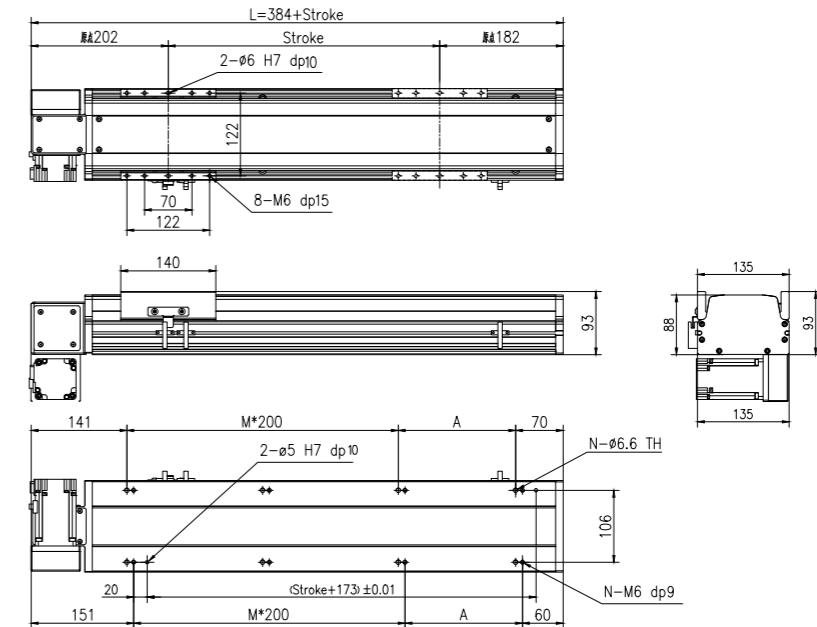


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	1	1	2	2	3	3	4	4	5	5	6	6	7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

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

YTO135-4P-D05

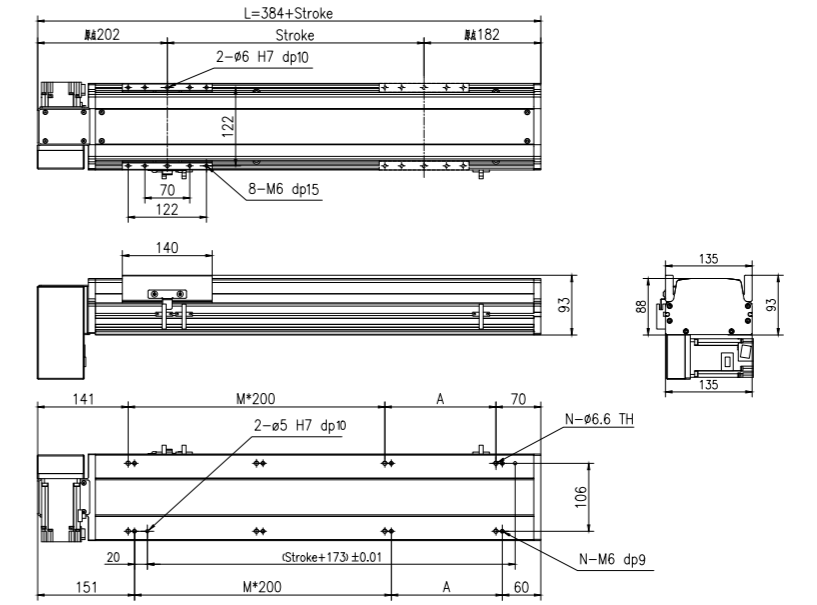
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73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

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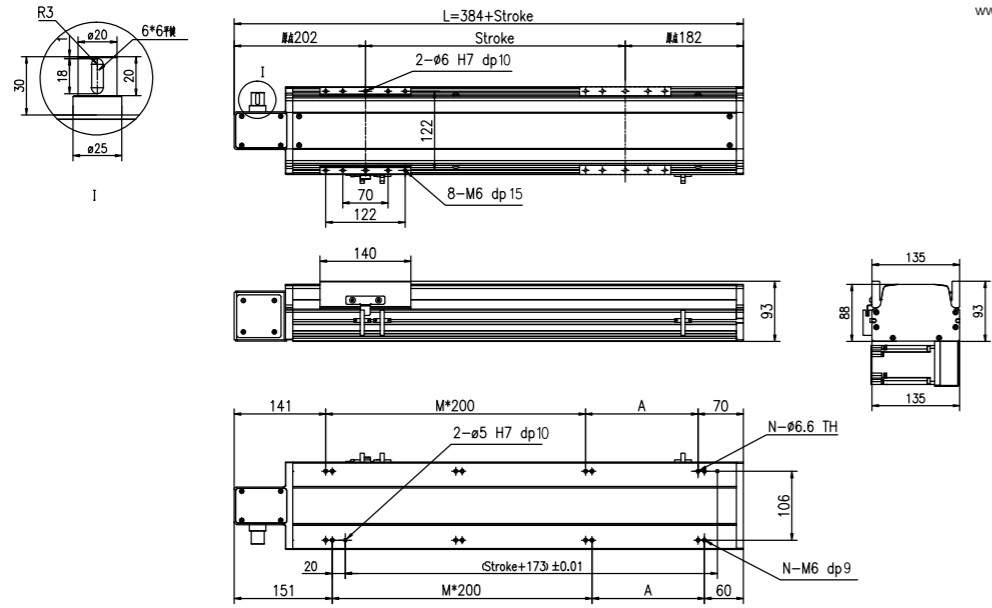


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	1	1	2	2	3	3	4	4	5	5	6	6	7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

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

YTO135-4P-D07

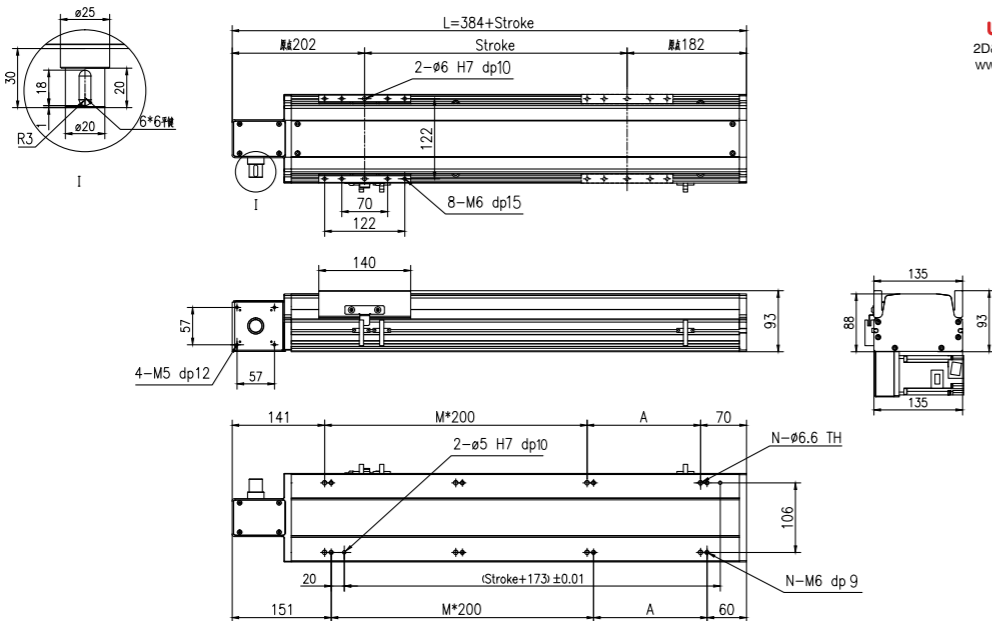
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www.limonrobot.cn



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	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	9	9.6	10.3	10.9	11.6	12.2	12.9	13.5	14.2	14.8	15.5	16.1	16.8	17.4	18.1	18.7	19.4	20	20.7	21.3
行程 Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2484	2584	2684	2784	2884	2984	3084	3184	3284	3384	3484	3584	3684	3784	3884	3984	4084	4184	4284	4384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
重量 Weight (kg)	22	22.6	23.3	23.9	24.6	25.2	25.9	26.5	27.2	27.8	28.5	29.1	29.8	30.4	31.1	31.7	32.4	33	33.7	34.3

YTO135-4P-D08

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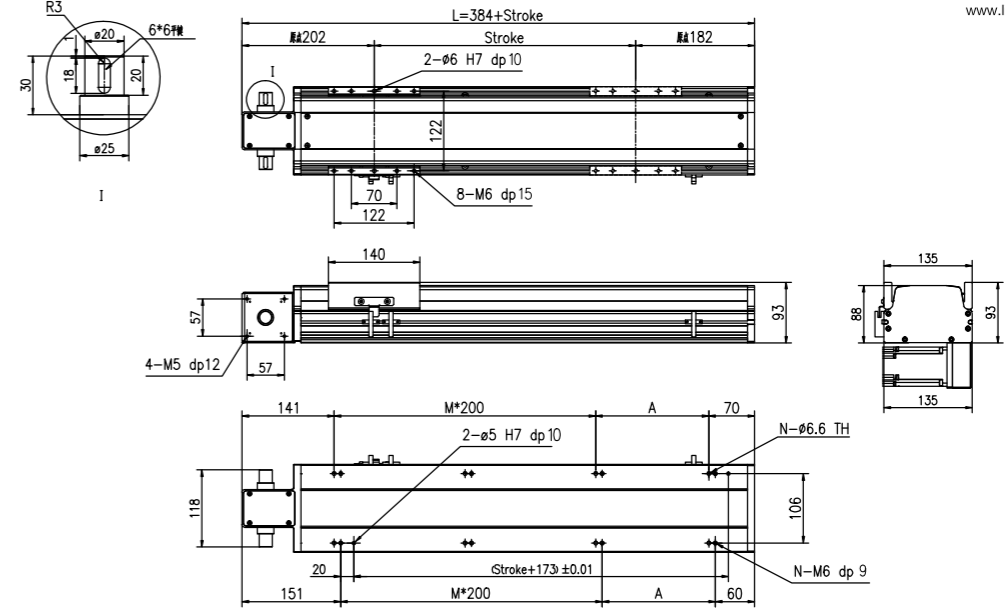


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	1	1	2	2	3	3	4	4	5	5	6	6	7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

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

YTO135-4P-D09

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

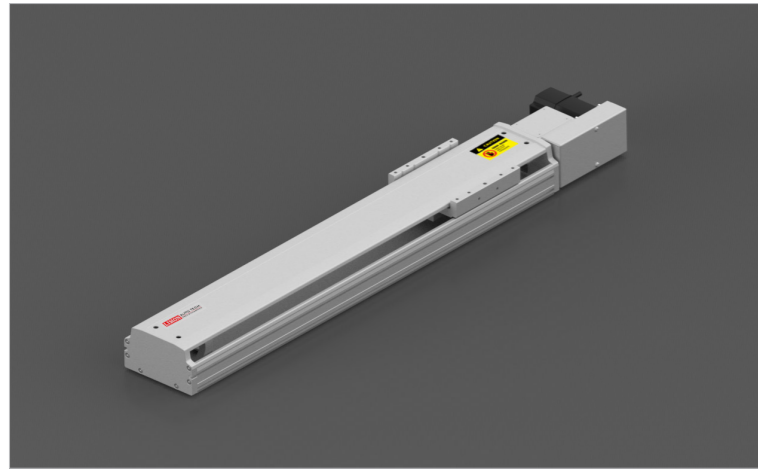
YTO135M 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

訂購型號代碼 Code

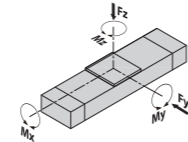
YTO135M - 500 - 4P - D01 - DB - M40 - P3 - A001

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 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祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 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P132.



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

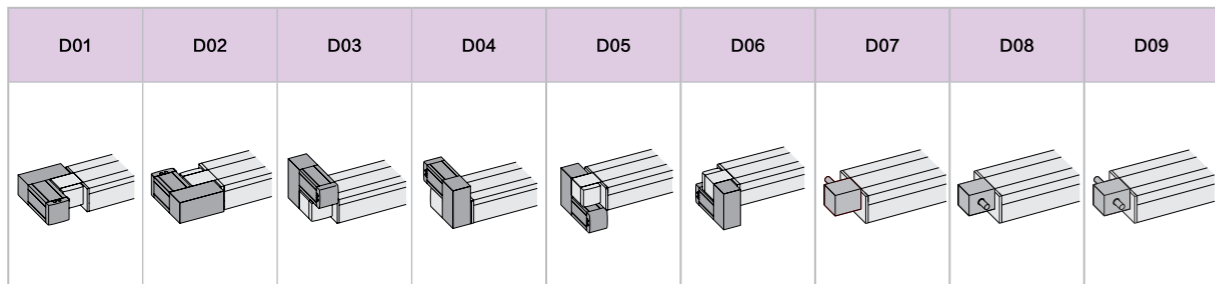


Type	4P
■ F(y) (N)	5370
■ F(z) (N)	5370
■ M(x) (N·m)	142
■ M(y) (N·m)	104
■ M(z) (N·m)	346

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



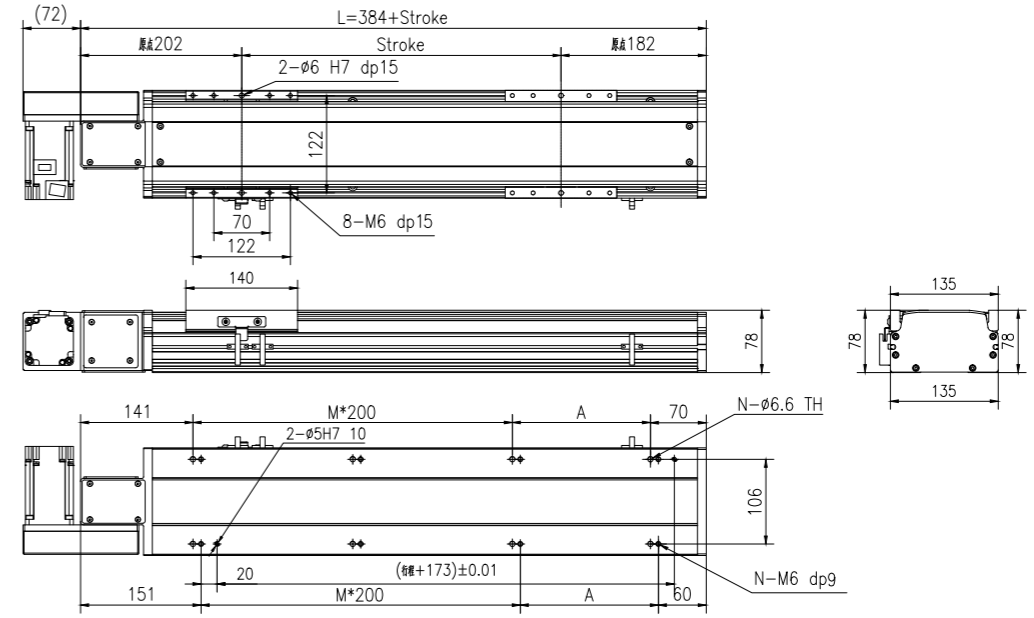
基本規格 Basic Specification

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
基本規格 Basic Specification	最大扭矩 Max. Driving Torque (N·m)	6
	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
	主機載面最大外形 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 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.

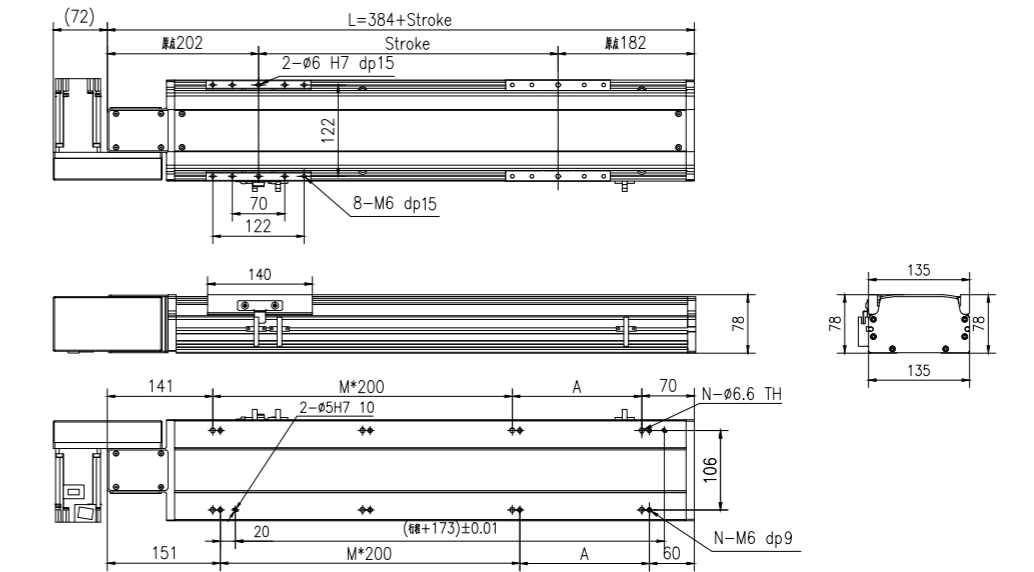
亞標半密式同步帶驅動型 YTO135M Belt Driven Linear Actuator

YTO135M-4P-D01



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	23	73	123	173	23	73	123	173	23	73	123	173	23	73	123	173	23
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	12	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	23	73	123	173	23	73	123	173	23	73	123	173	23	73	123	173	
M	6	6	6	7	7	7	7	8	8	8	8	8	8	8	9	9	9	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	

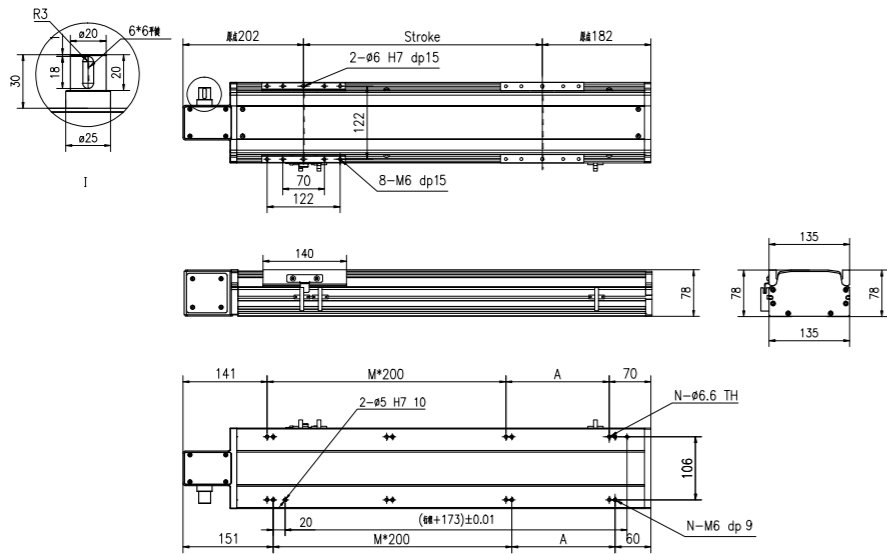
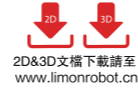
YTO135M-4P-D02



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	23	73	123	173	23	73	123	173	23	73	123	173	23	73	123	173	23
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	12	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	23	73	123	173	23	73	123	173	23	73	123	173	23	73	123	173	
M	6	6	6	7	7	7	7	8	8	8	8	8	8	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	

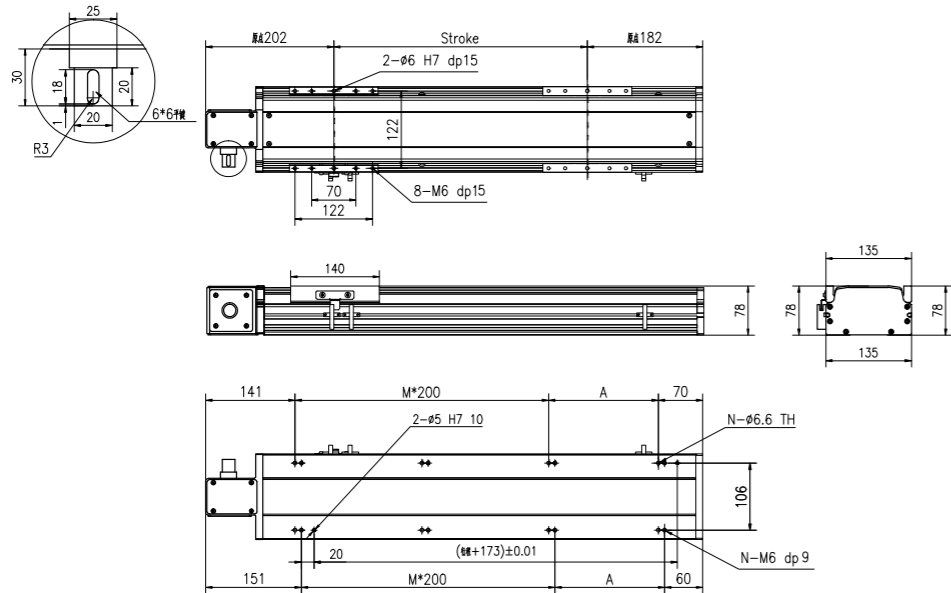
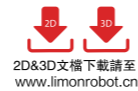
YTO135M 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO135M-4P-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	23	73	123	173	23	73	123	173	23	73	123	173	23	73	123	173	23
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	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	23	73	123	173	23	73	123	173	23	73	123	173	23	73	123	173	
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	

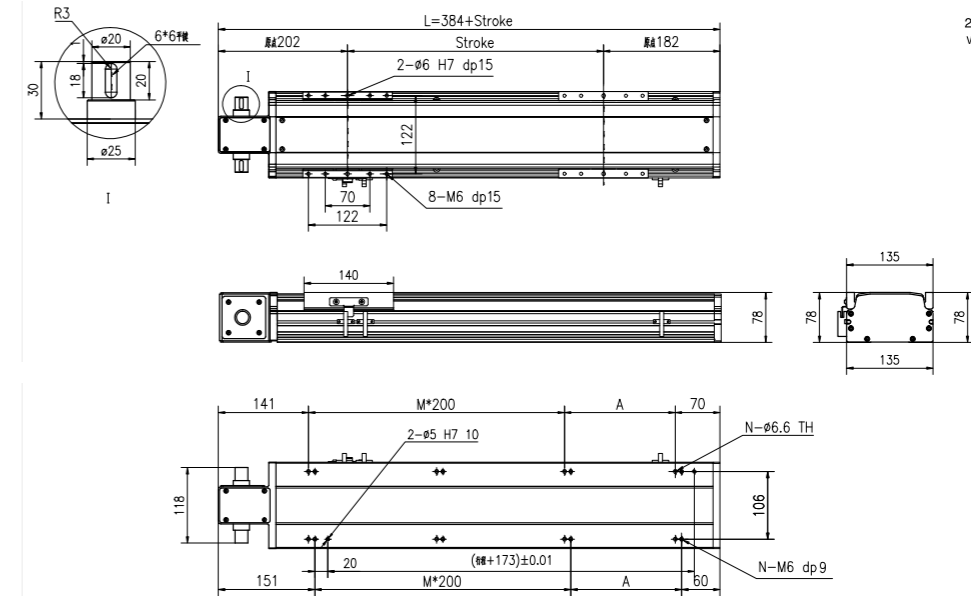
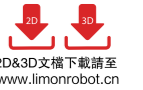
YTO135M-4P-D08



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	23	73	123	173	23	73	123	173	23	73	123	173	23	73	123	173	23
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	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	23	73	123	173	23	73	123	173	23	73	123	173	23	73	123	173	
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	

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

YTO135M-4P-D09



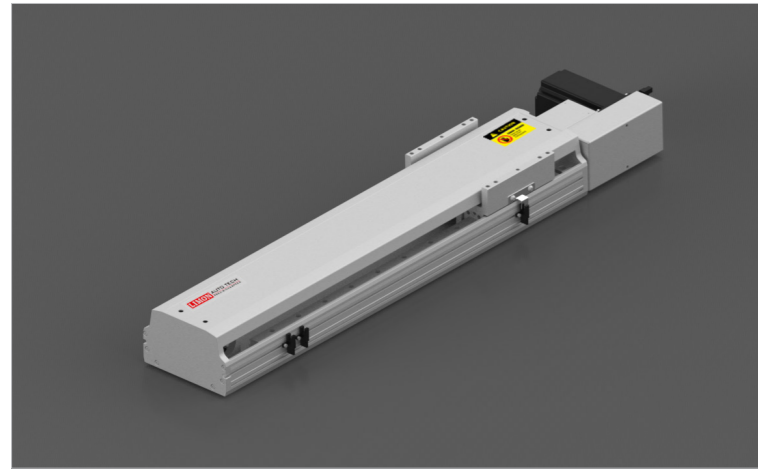
行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434
A	73	123	173	23	73	123	173	23	73	123	173	23	73	123	173	23	73	123	173	23
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
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	23	73	123	173	23	73	123	173	23	73	123	173	23	73	123	173	
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	

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

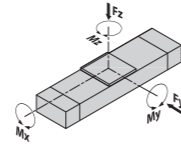
訂購型號代碼 Code

YTO170	500	4P	D01	DB <small>注</small>	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 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 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K -	限位傳感器數量 Photoelectric Sensor P1: 1祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 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P132.



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

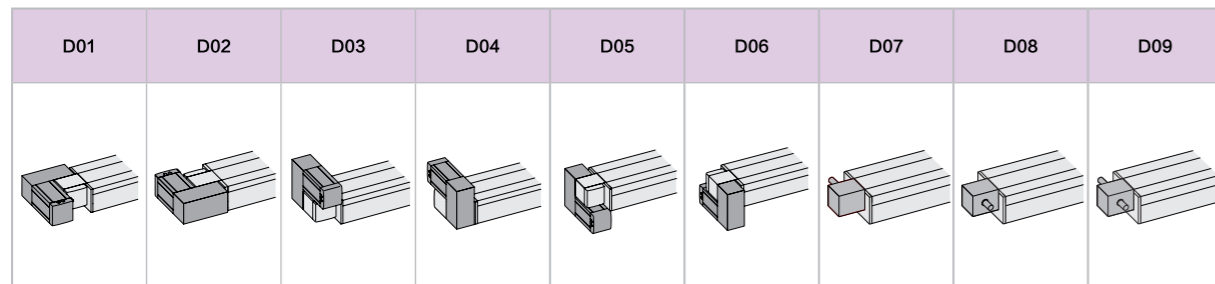


Type	4P
■ F(y) (N)	7463
■ F(z) (N)	7463
■ M(x) (N·m)	339
■ M(y) (N·m)	178
■ M(z) (N·m)	742

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



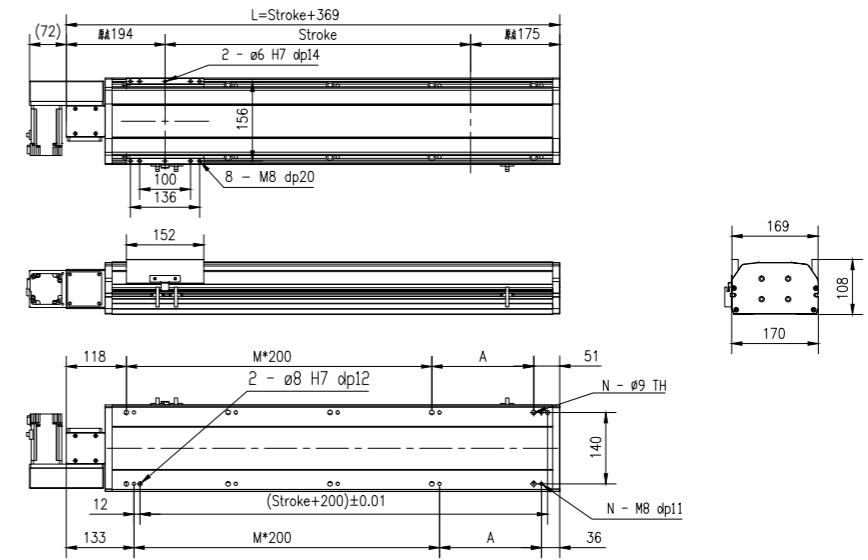
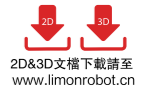
基本規格 Basic Specification

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	水平使用Horizontal (kg) 45 垂直使用Vertical (kg) 20
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 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.

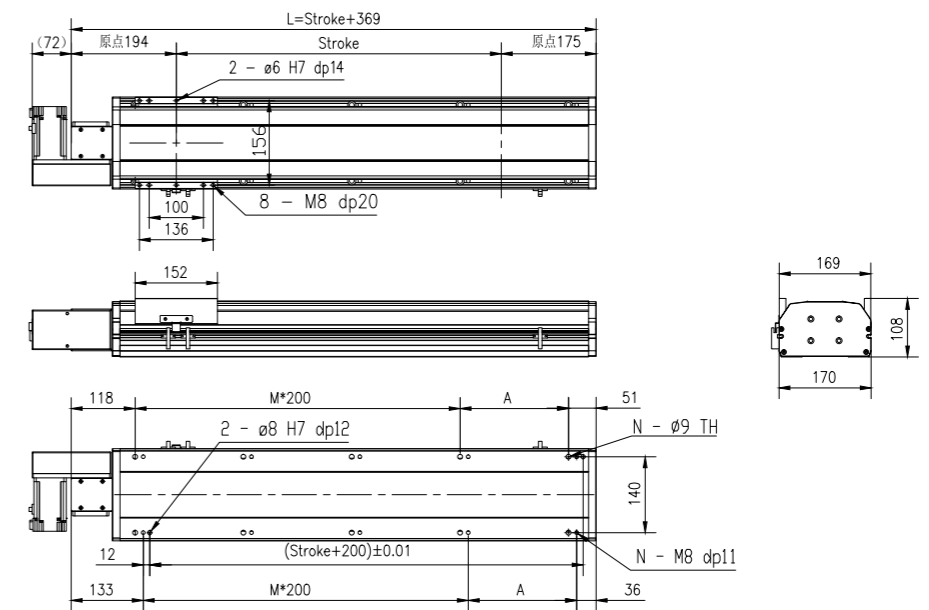
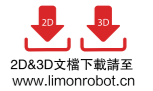
亞標半密式同步帶驅動型 YTO 170 Belt Driven Linear Actuator

YTO170-4P-D01



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

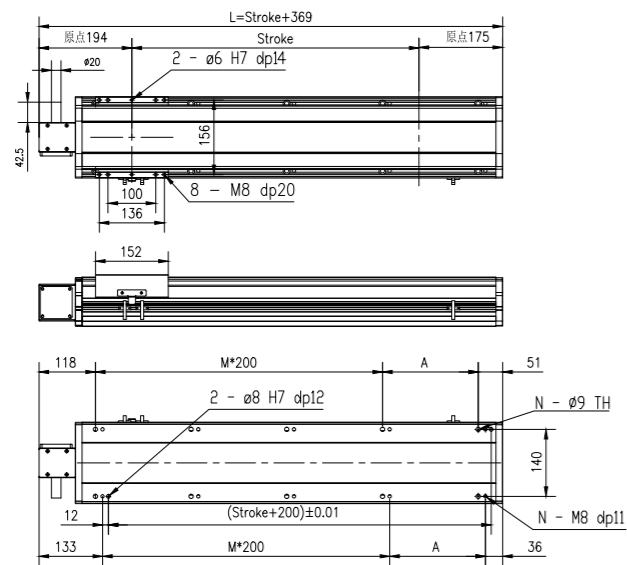
YTO170-4P-D02



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

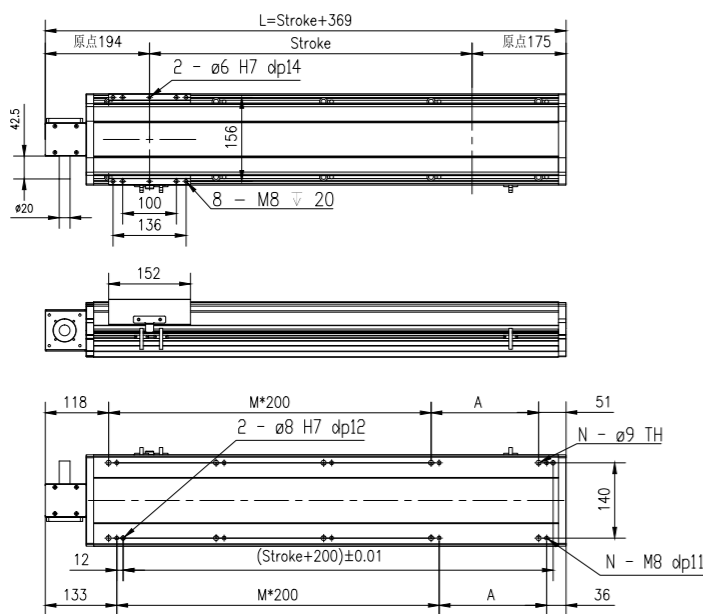
YTO170-4P-D07



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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-D08

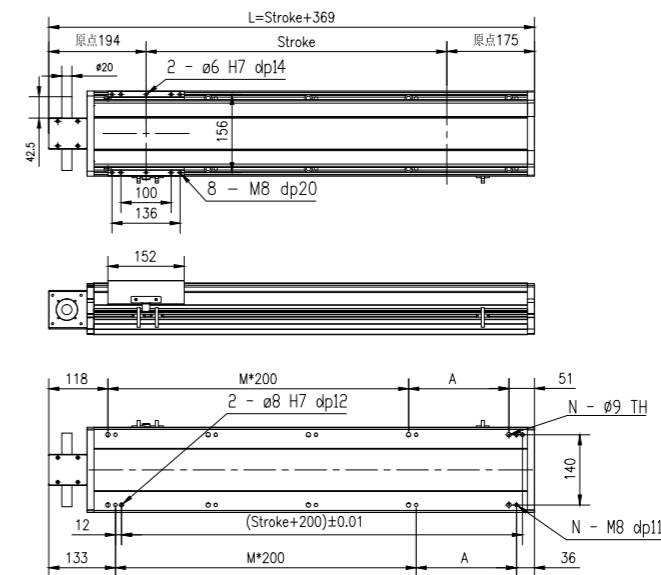


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100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



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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 220 亞標半密式同步帶驅動型

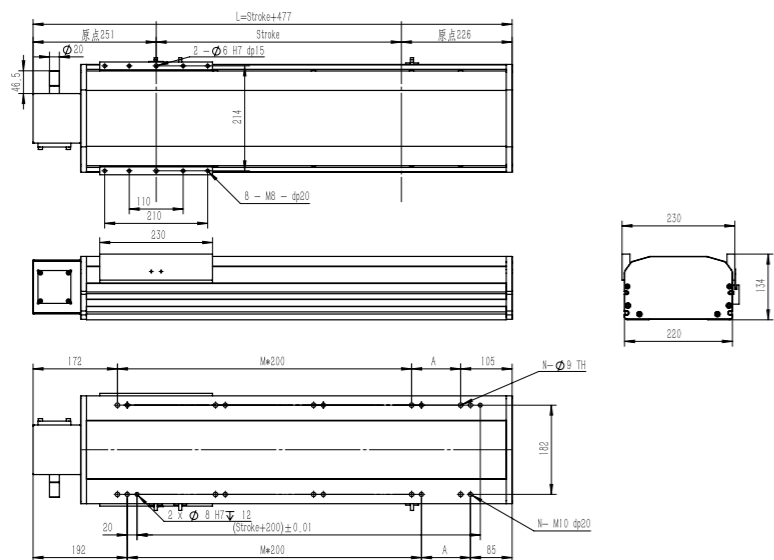
Belt Driven Linear Actuator

亞標半密式同步帶驅動型 YTO 220

Belt Driven Linear Actuator

YTO220-D07

YTO220-D09

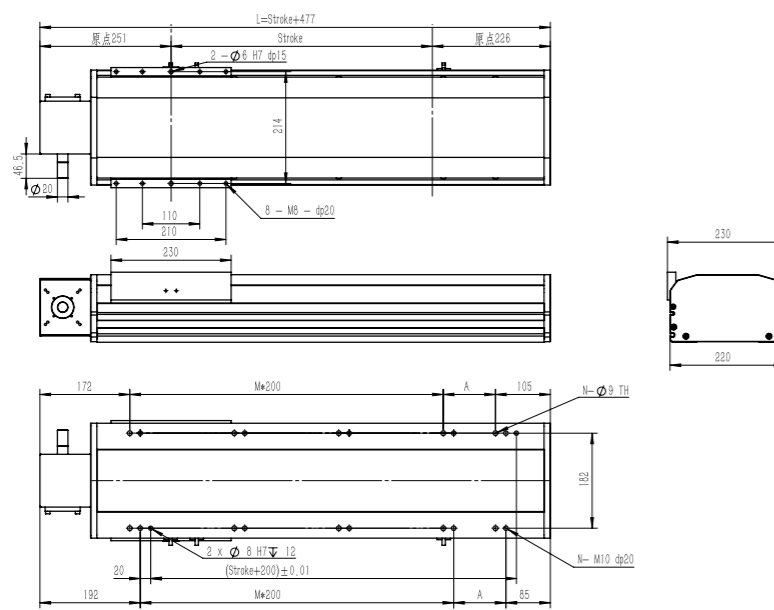


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行程 Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
重量 Weight(kg)	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	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	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16
N	20	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36	36
重量 Weight(kg)	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8	

YTO220-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	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	13	13	13	13	14	14	14	14	15	15	15	15	16	16	16
N	20	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	36	36
重量 Weight(kg)	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8	

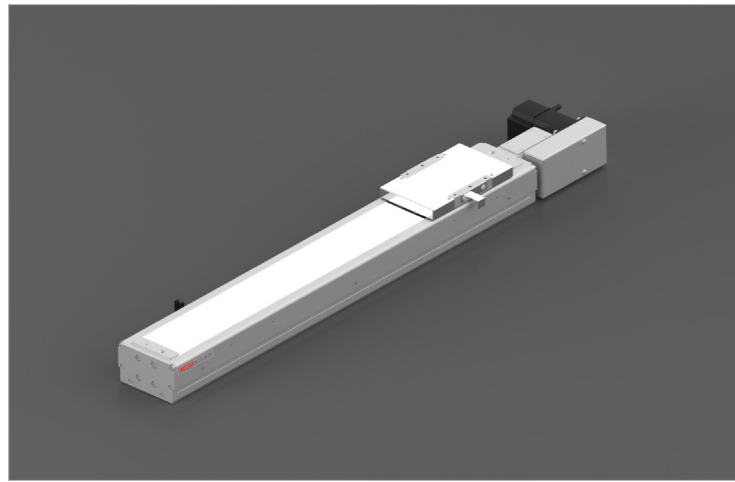
YTC110 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

訂購型號代碼 Code

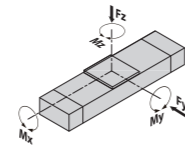
YTC110 - 500 - 4P - D01 - DB - M40 - P3 - A001

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	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祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 No Mark: No Sensor	

注: 輔助滑塊選項相關參數參見樣本P132.



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

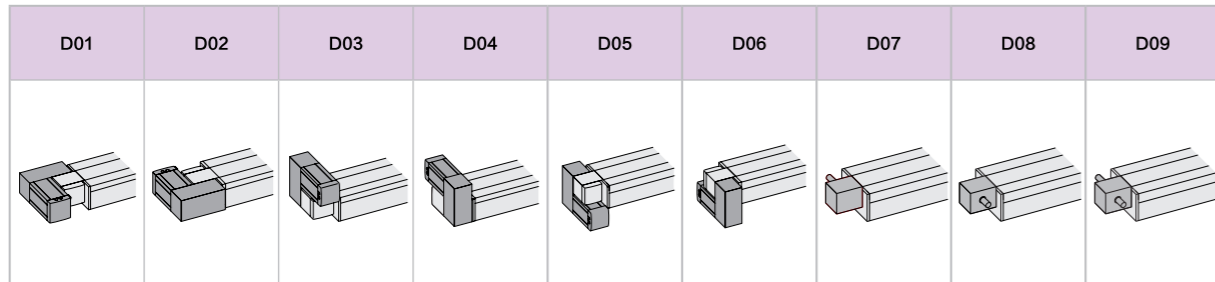


Type		4P
■ F(y)	(N)	3427
■ F(z)	(N)	3427
■ M(x)	(N·m)	98
■ M(y)	(N·m)	40
■ M(z)	(N·m)	176

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



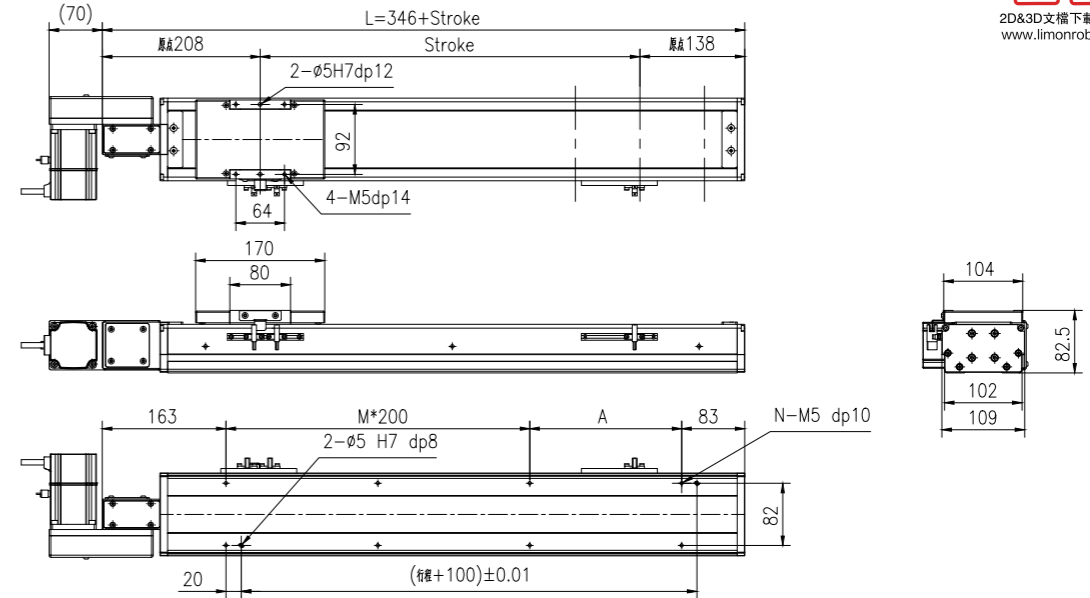
基本規格 Basic Specification

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	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)	100~1500 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.

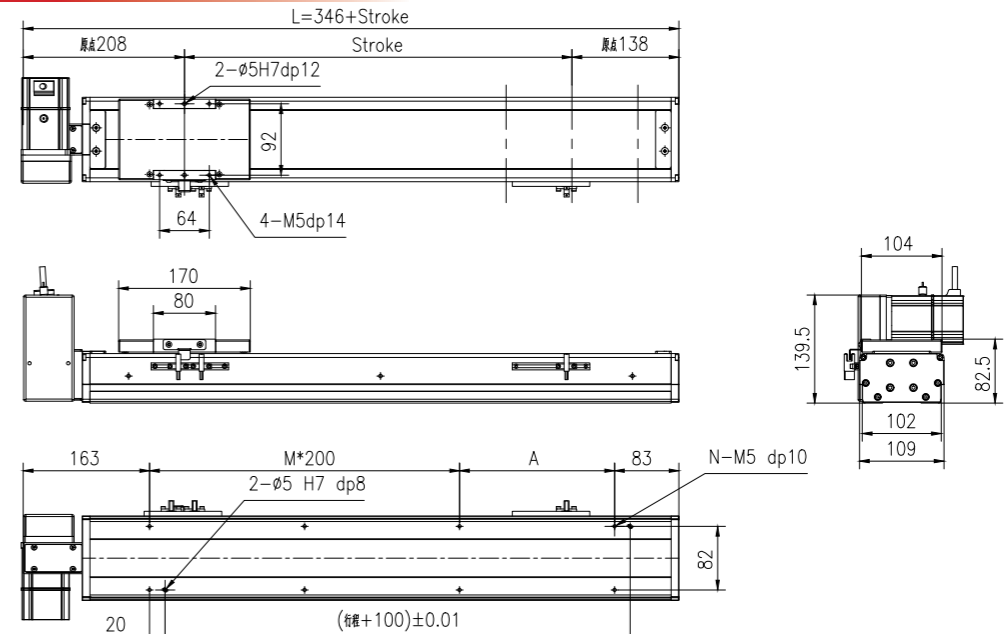
亞標全密式同步帶驅動型 YTC110 Belt Driven Linear Actuator

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	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)	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

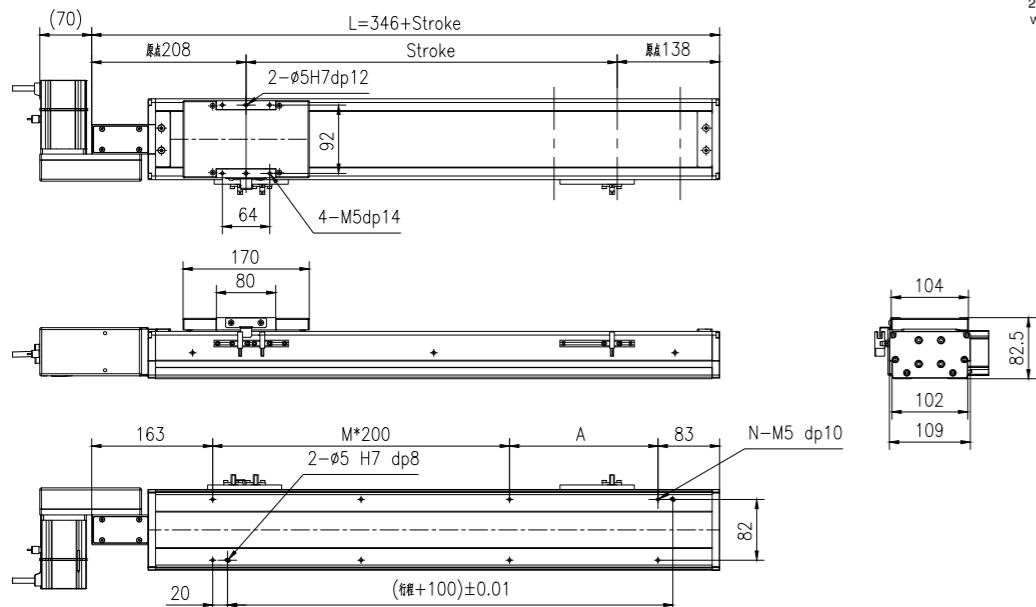
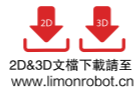
YTC110-D02



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	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)	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

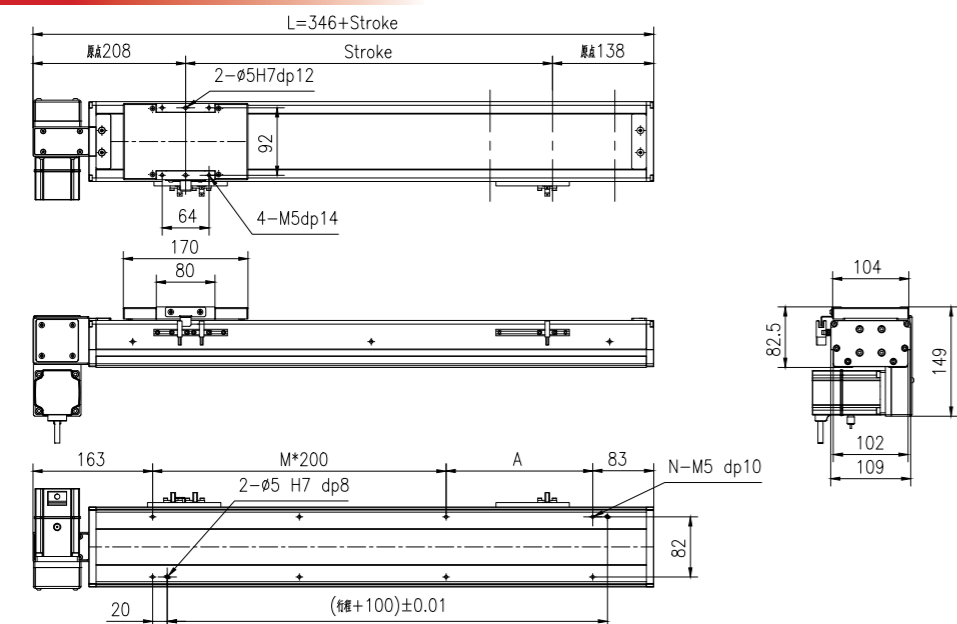
YTC110 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

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	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

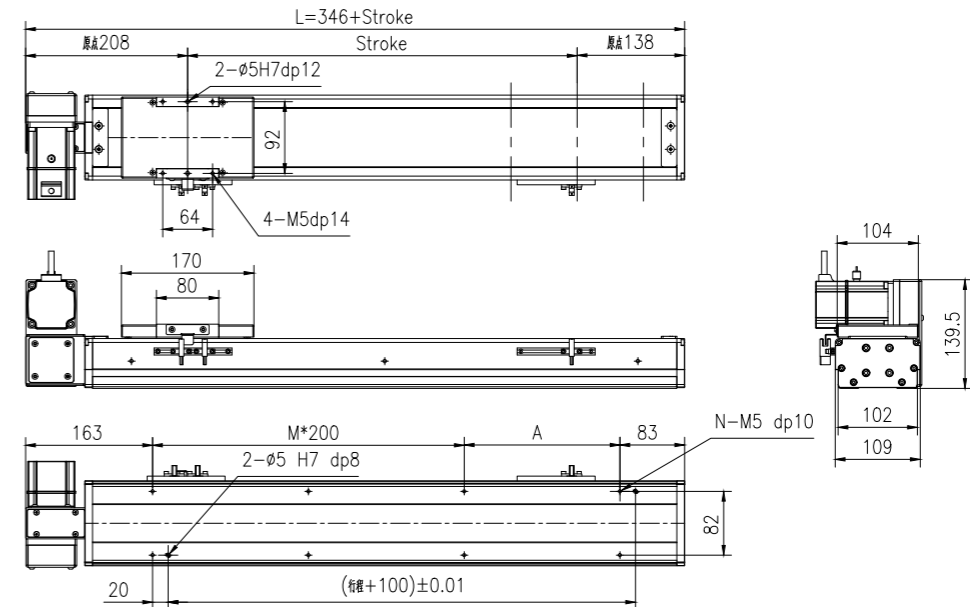
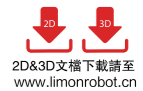
YTC110-D04



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	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

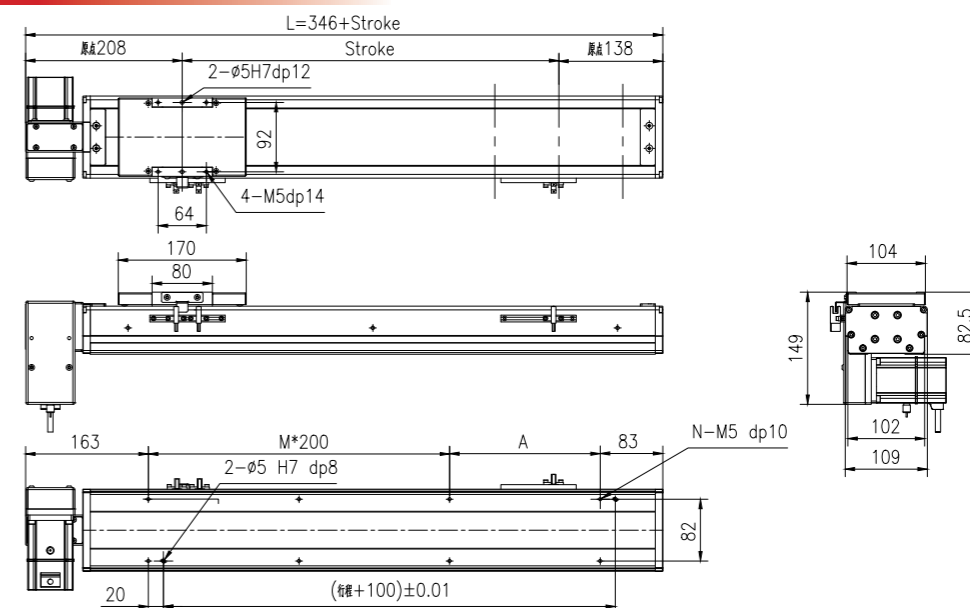
亞標全密式同步帶驅動型 YTC110 Belt Driven Linear Actuator

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	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)	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

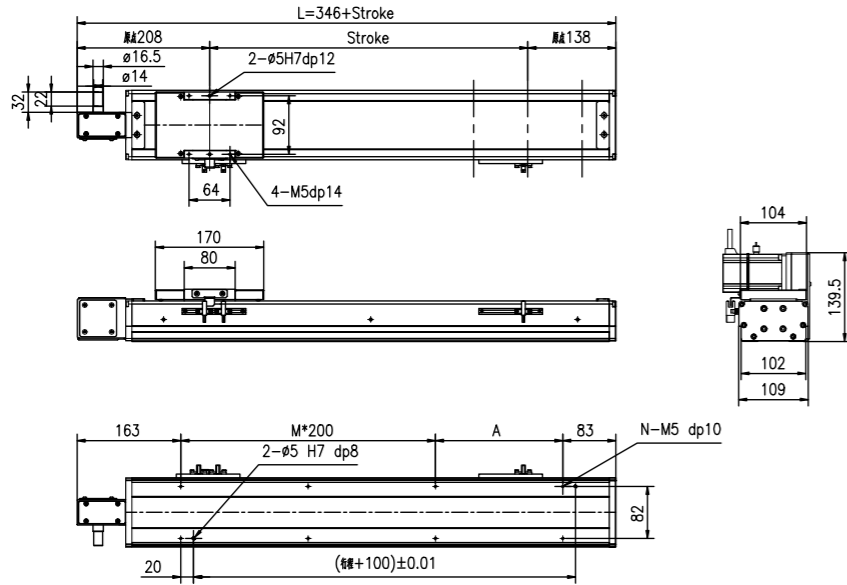
YTC110-D06



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	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)	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

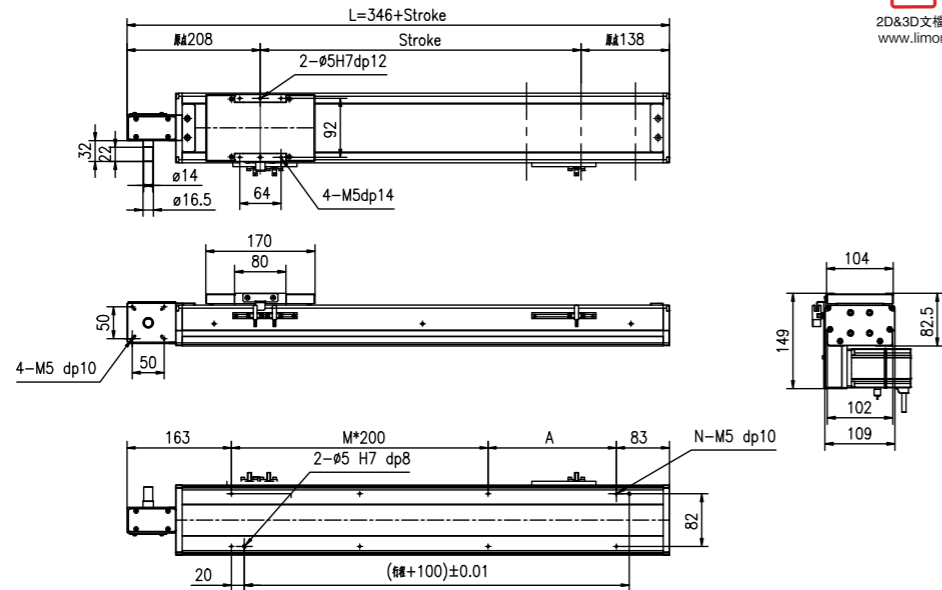
YTC110 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

YTC110-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

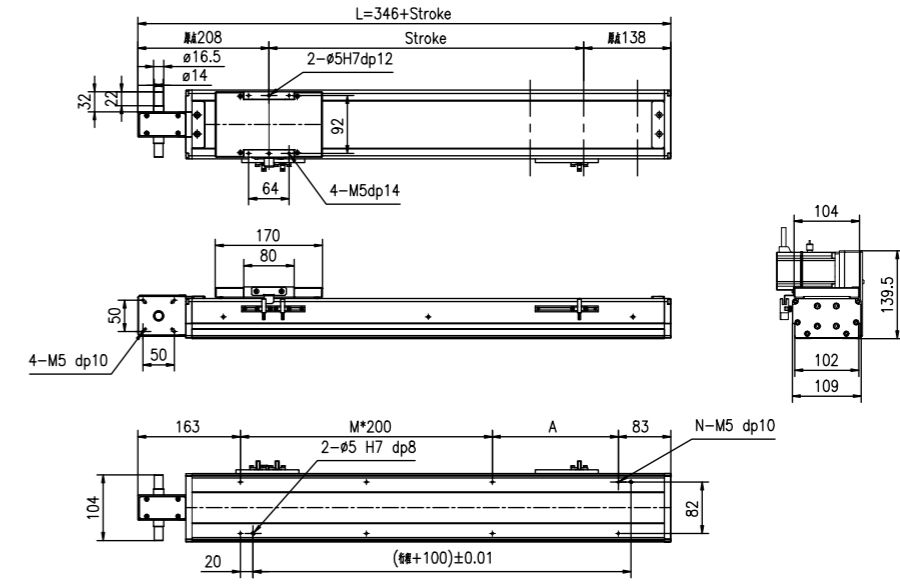
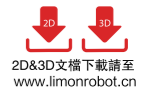
YTC110-D08



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

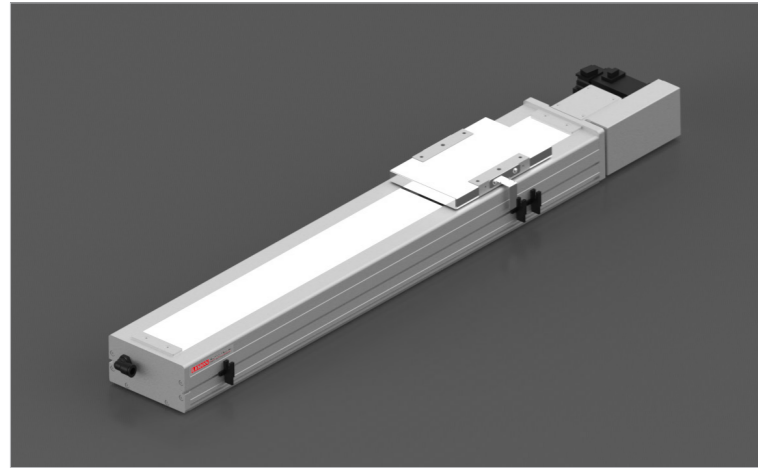
YTC135 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

訂購型號代碼 Code

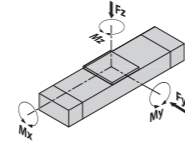
YTC135 - 500 - 4P - D01 - DB - M40 - P3 - A001

本體型號 Item NO.	行程 Stroke 100-4000, 間隔Gap100	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 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K -	限位傳感器數量 Photoelectric Sensor P1: 1祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 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P132.



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

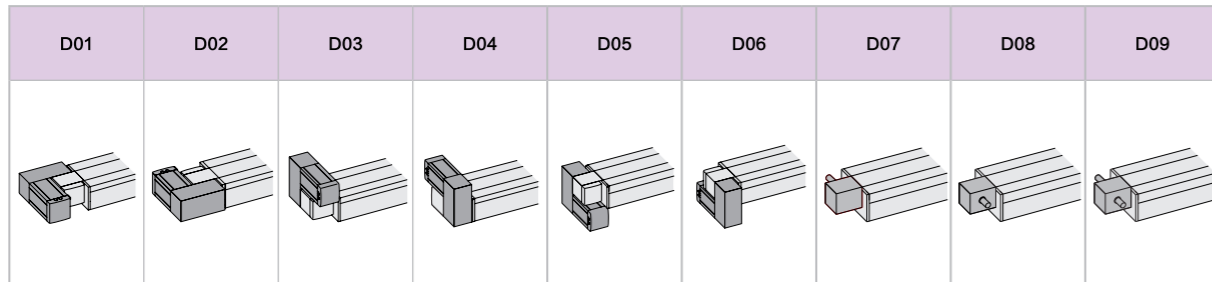


Type		4P
■ F(y) (N)		5370
■ F(z) (N)		5370
■ M(x) (N·m)		142
■ M(y) (N·m)		104
■ M(z) (N·m)		346

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
	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 × 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。

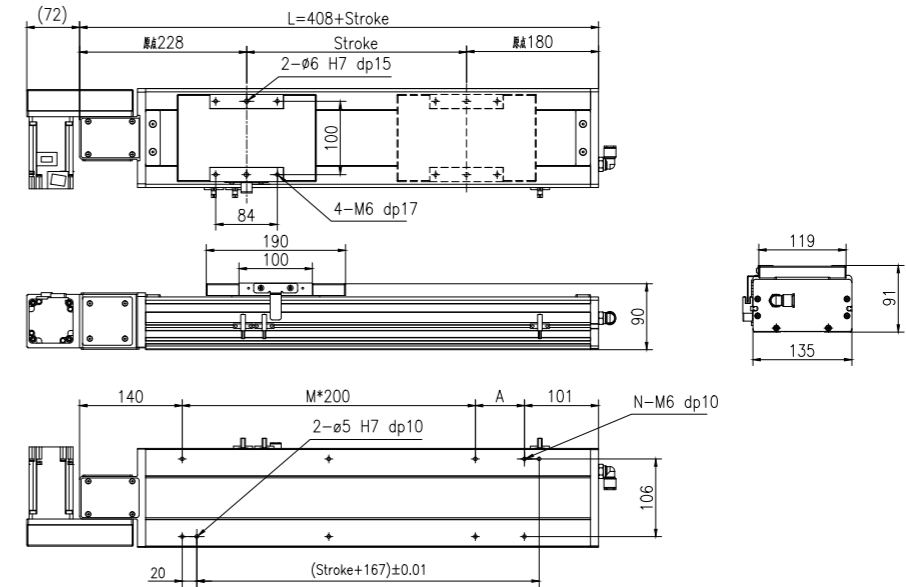
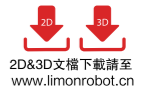
#Note1: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

#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.

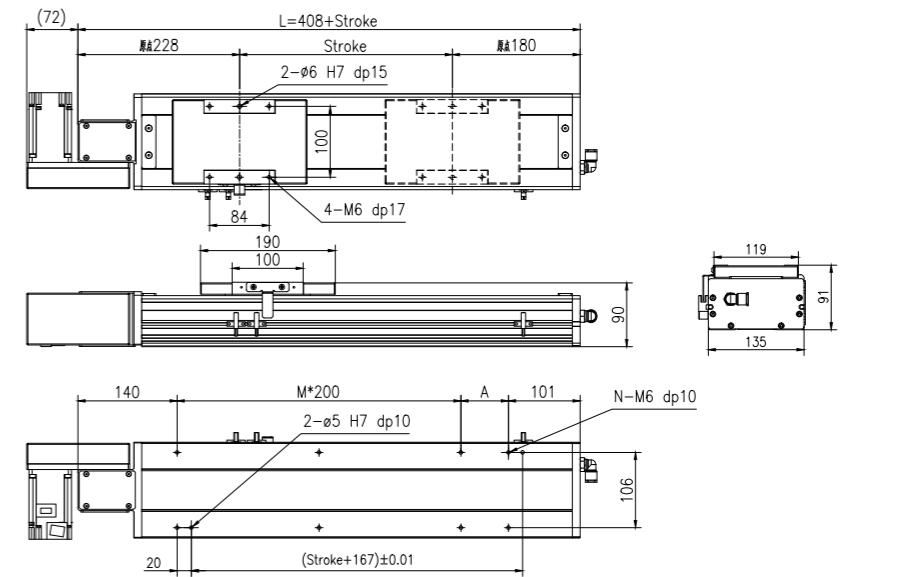
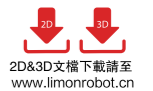
YTC135 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

YTC135-4P-D01



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

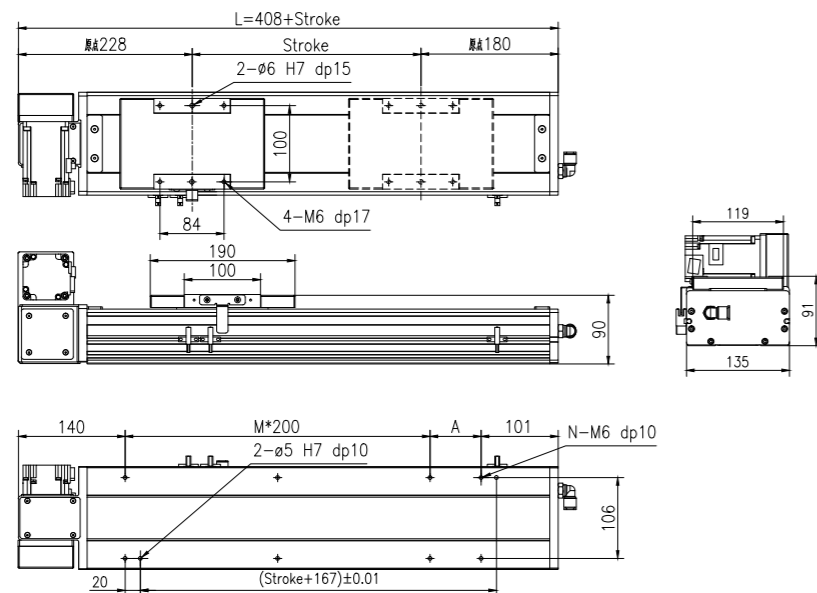
YTC135-4P-D02



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

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

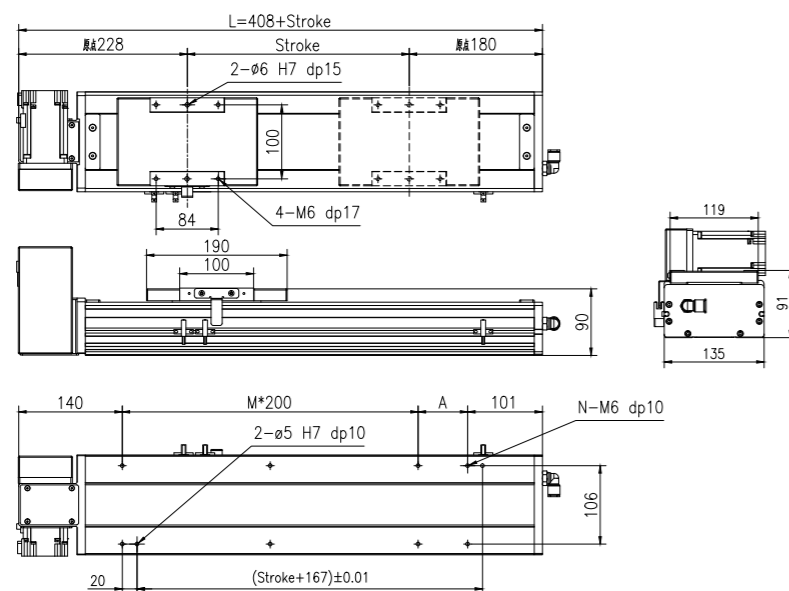
YTC135-4P-D03



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	8.7	9.3	10	10.6	11.2	11.8	12.4	13.1	13.7	14.3	14.9	15.5	16.2	16.8	17.4	18	18.6	19.3	19.9	20.5

YTC135-4P-D04

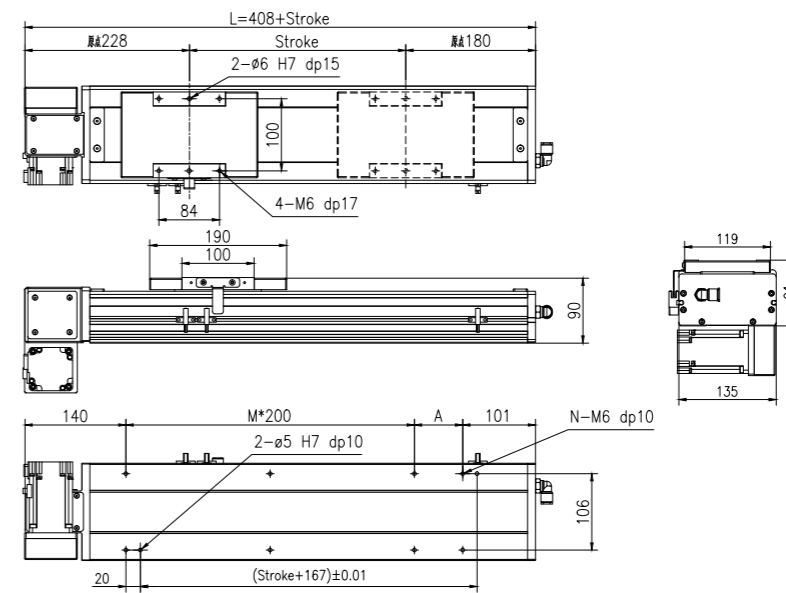


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	8.7	9.3	10	10.6	11.2	11.8	12.4	13.1	13.7	14.3	14.9	15.5	16.2	16.8	17.4	18	18.6	19.3	19.9	20.5

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

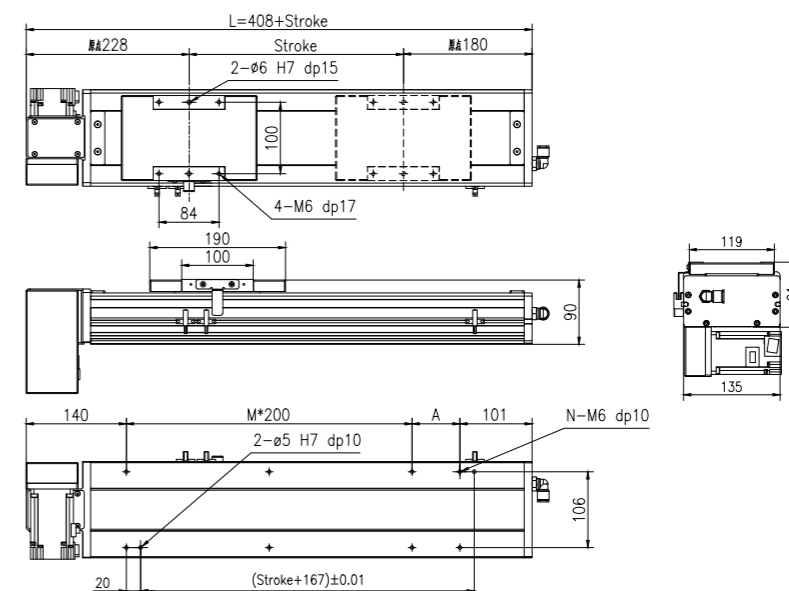
YTC135-4P-D05



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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	8.7	9.3	10	10.6	11.2	11.8	12.4	13.1	13.7	14.3	14.9	15.5	16.2	16.8	17.4	18	18.6	19.3	19.9	20.5

YTC135-4P-D06

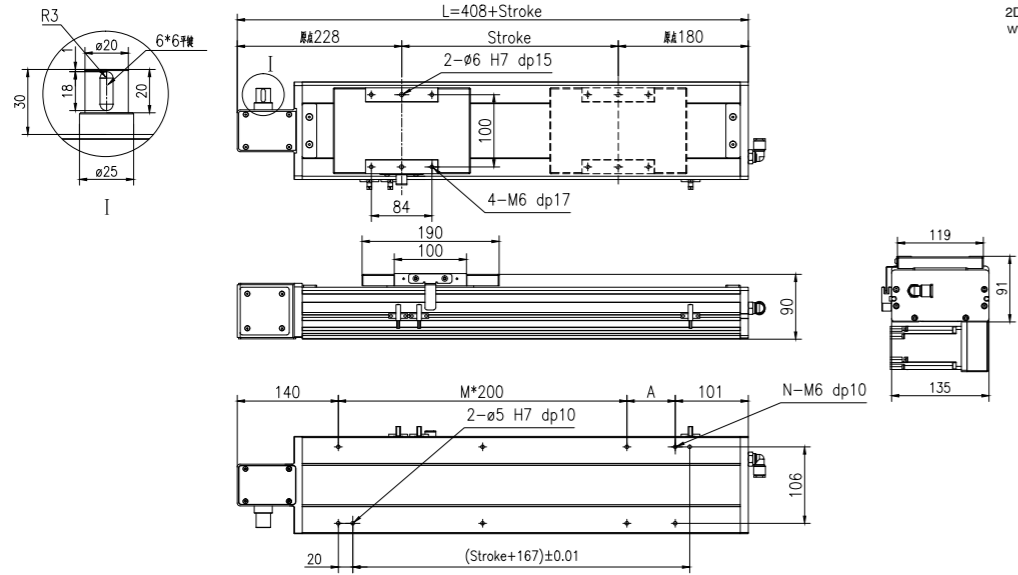
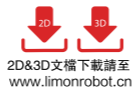


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
重量 Weight (kg)	8.7	9.3	10	10.6	11.2	11.8	12.4	13.1	13.7	14.3	14.9	15.5	16.2	16.8	17.4	18	18.6	19.3	19.9	20.5

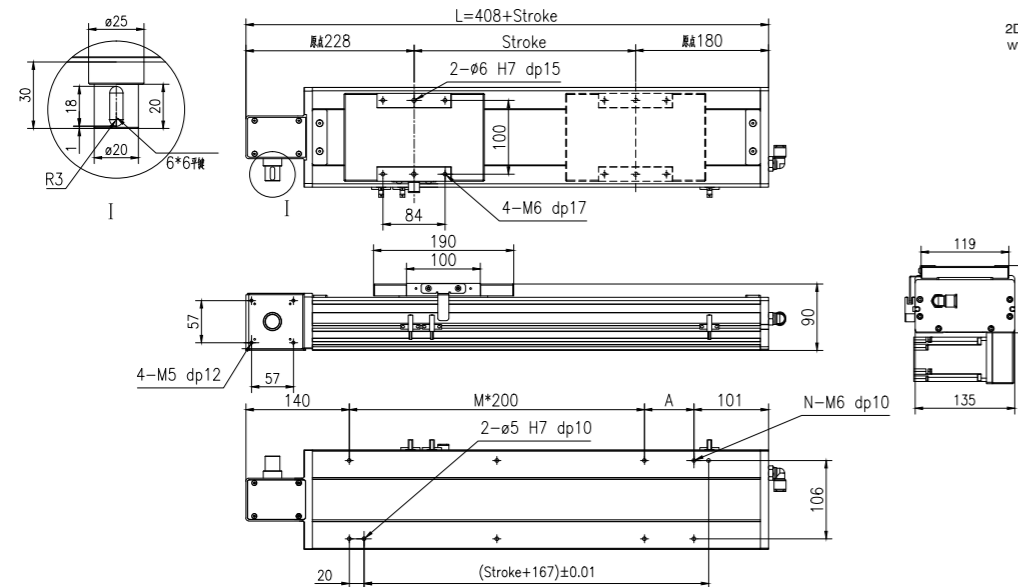
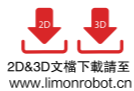
YTC135 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

YTC135-4P-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	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

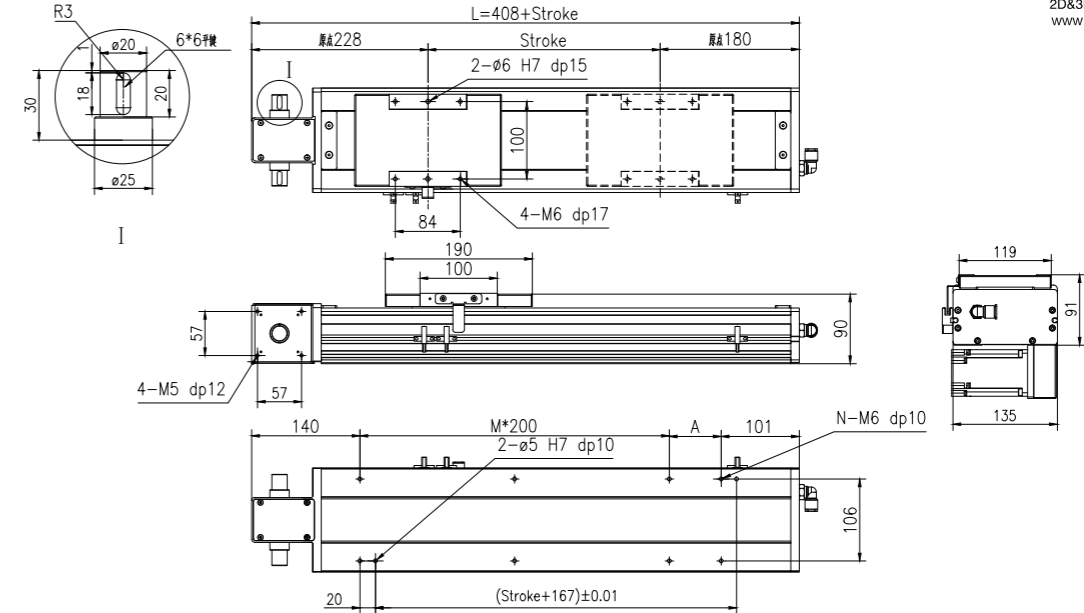
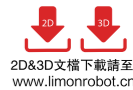
YTC135-4P-D08



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-D09



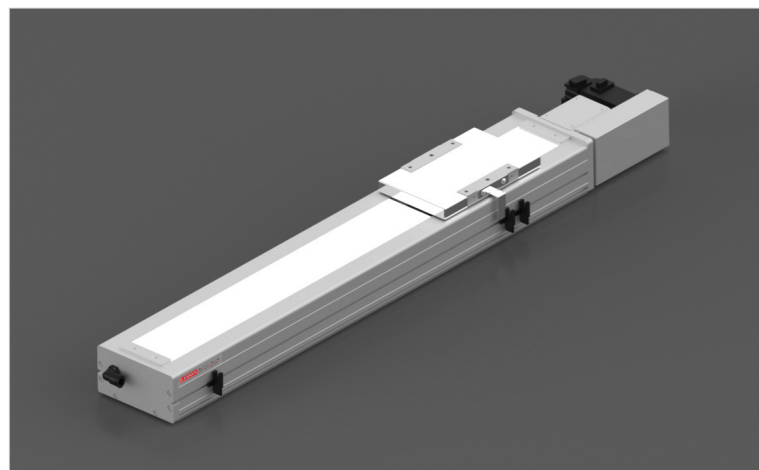
行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6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

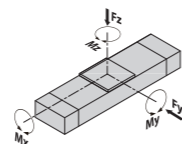
訂購型號代碼 Code

YTC170	500	4P	D01	DB <small>注</small>	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祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 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P132.



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

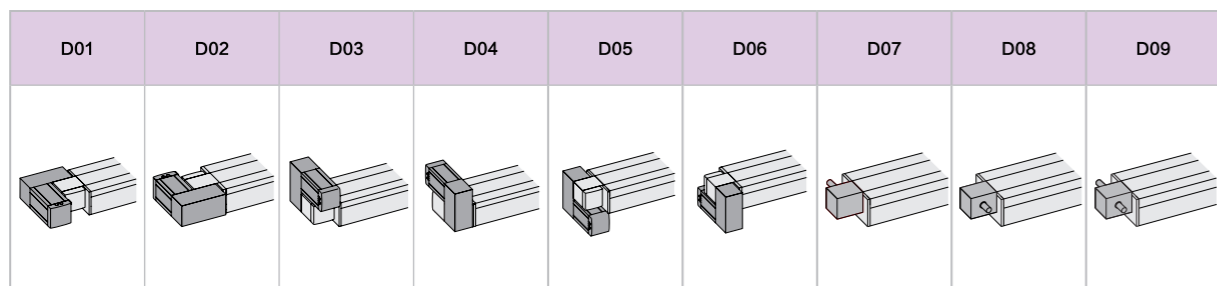


Type	4P
■ F(y) (N)	7463
■ F(z) (N)	7463
■ M(x) (N·m)	339
■ M(y) (N·m)	178
■ M(z) (N·m)	742

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 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	水平使用Horizontal (kg) 45 垂直使用Vertical (kg) 20
	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)	100-4000 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 × 107	
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。

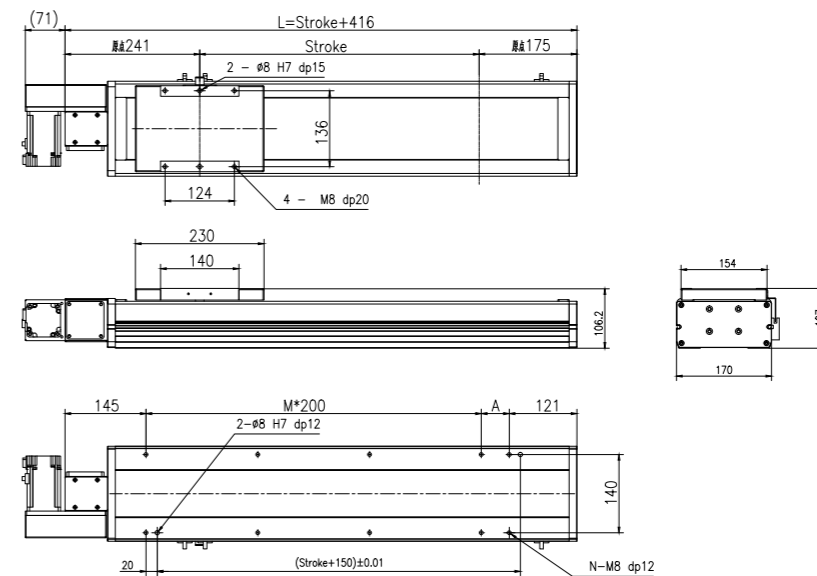
#Note 2: Pulley's original lead is 100mm, which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

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

YTC170-4P-D01



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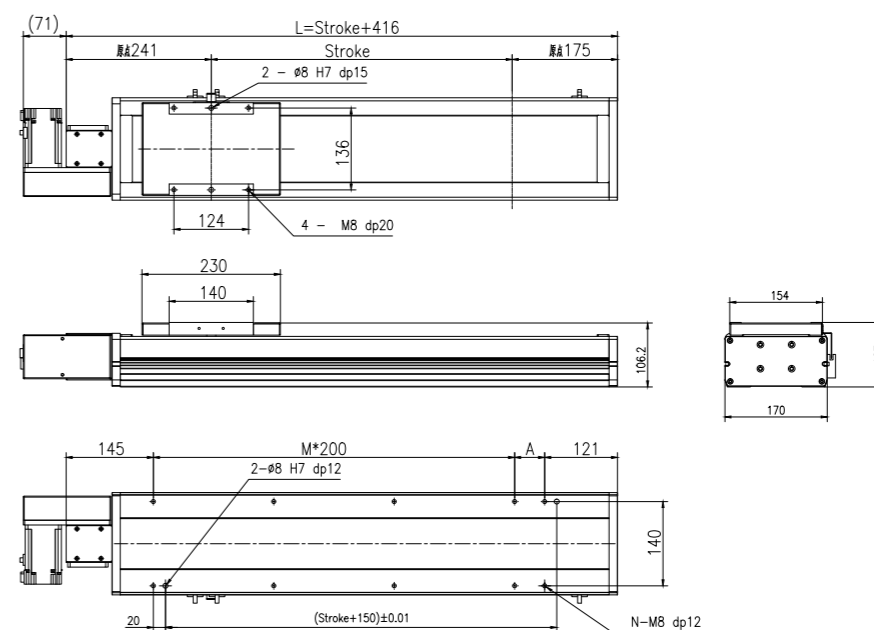


行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6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



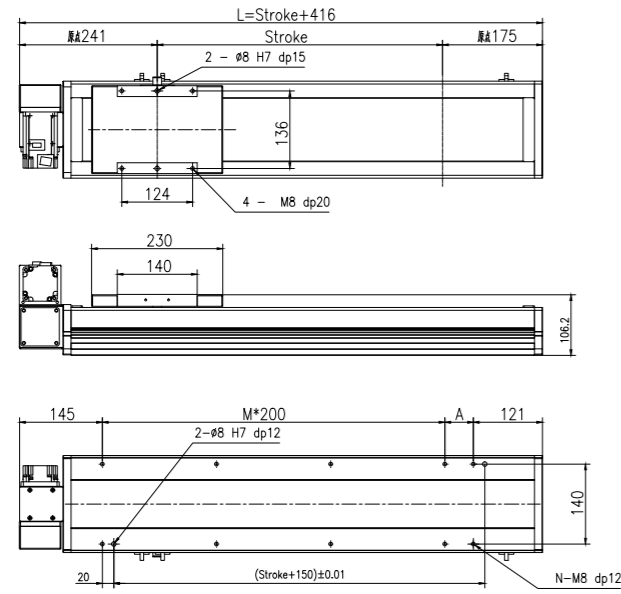
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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50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

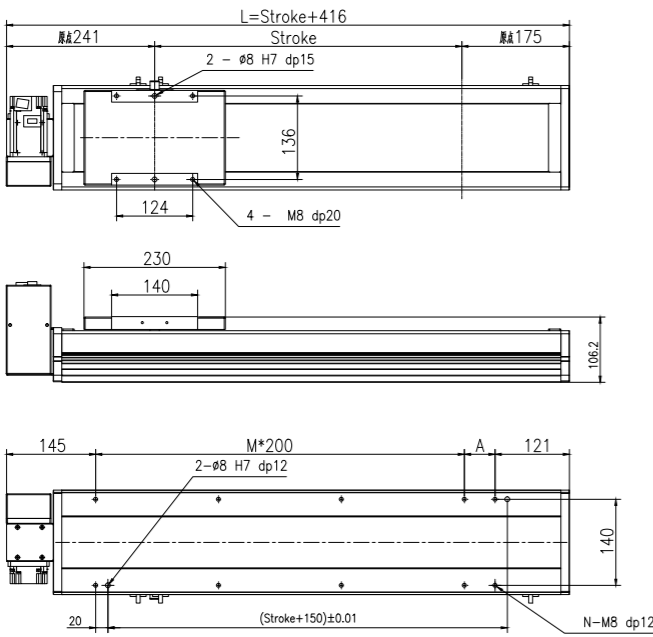
YTC170-4P-D03



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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

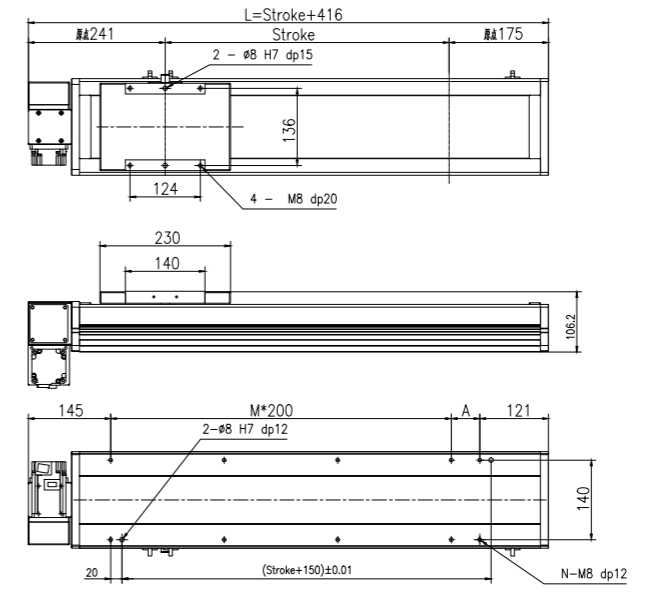


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50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

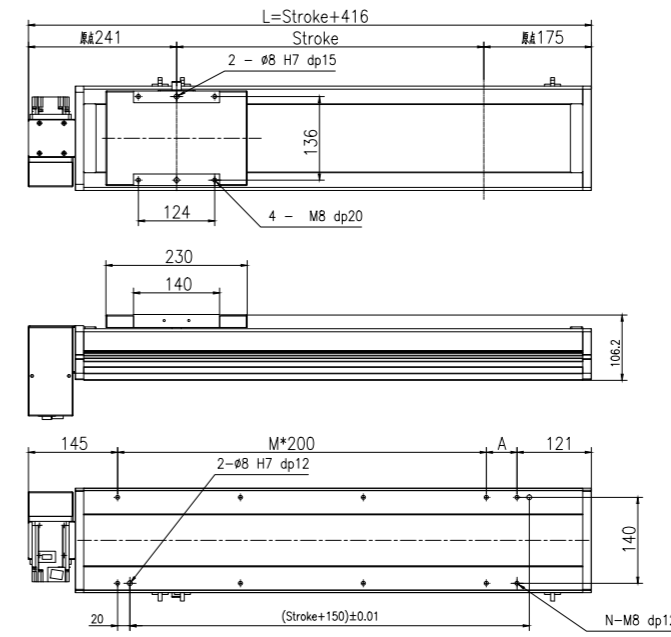
YTC170-4P-D05



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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

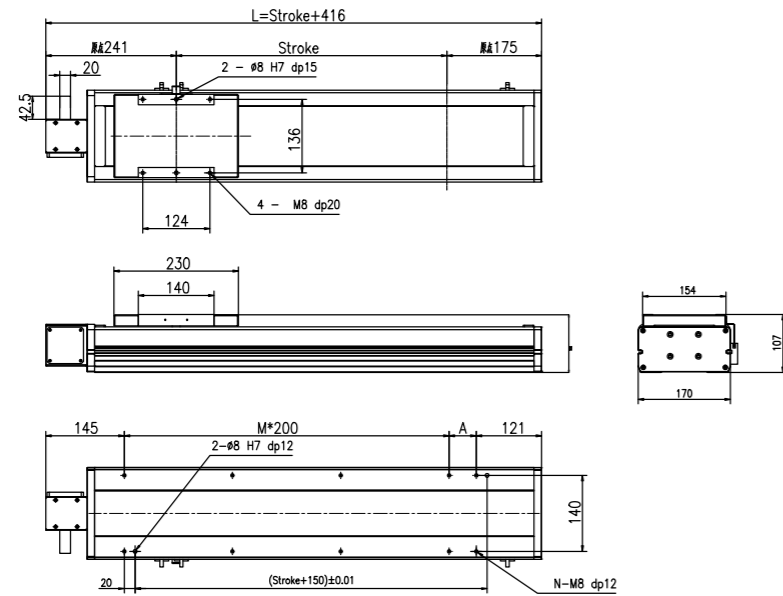


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50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

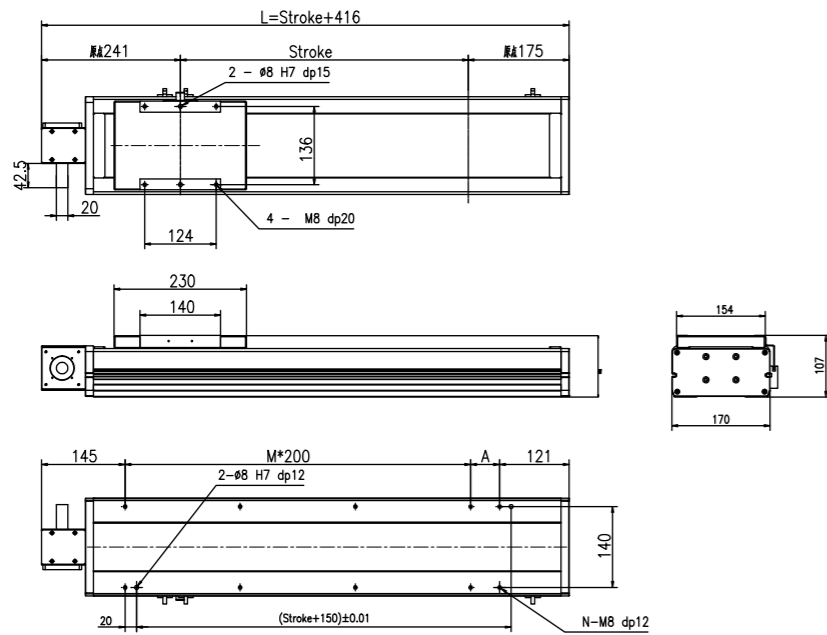
YTC170-4P-D07



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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

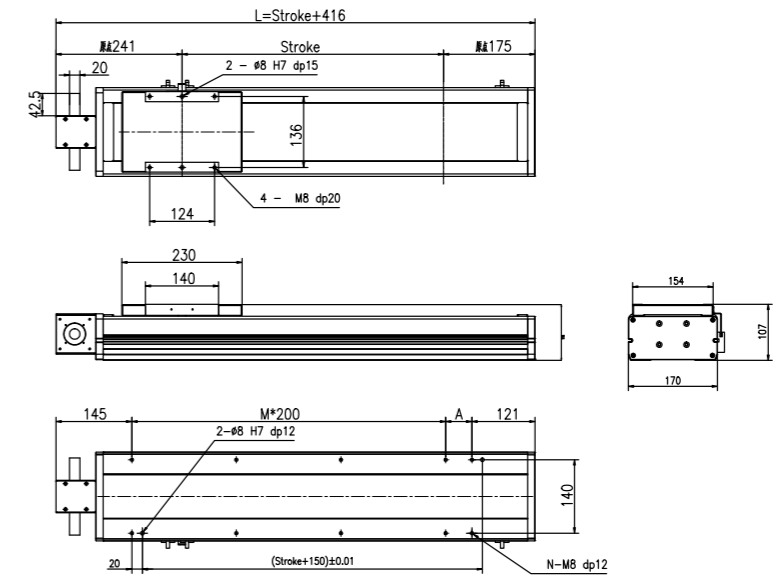


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50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

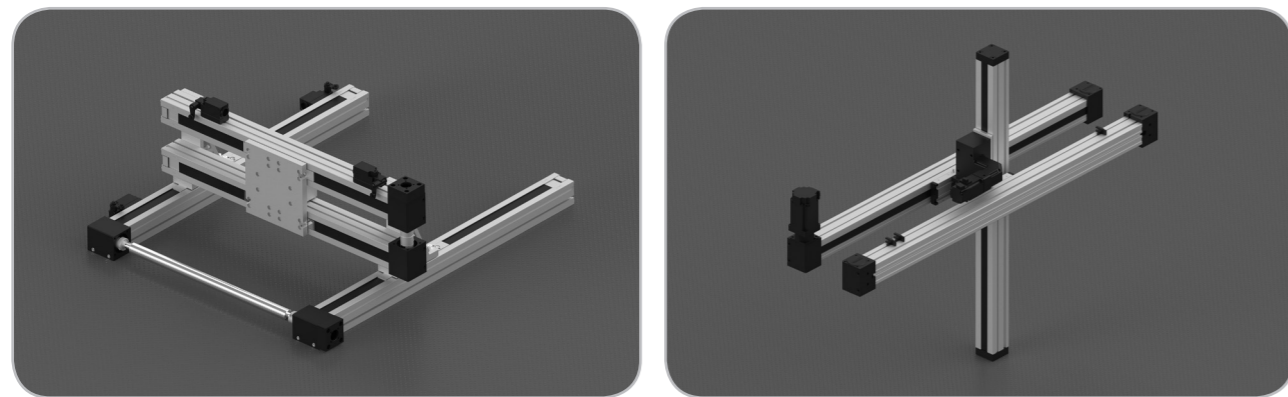
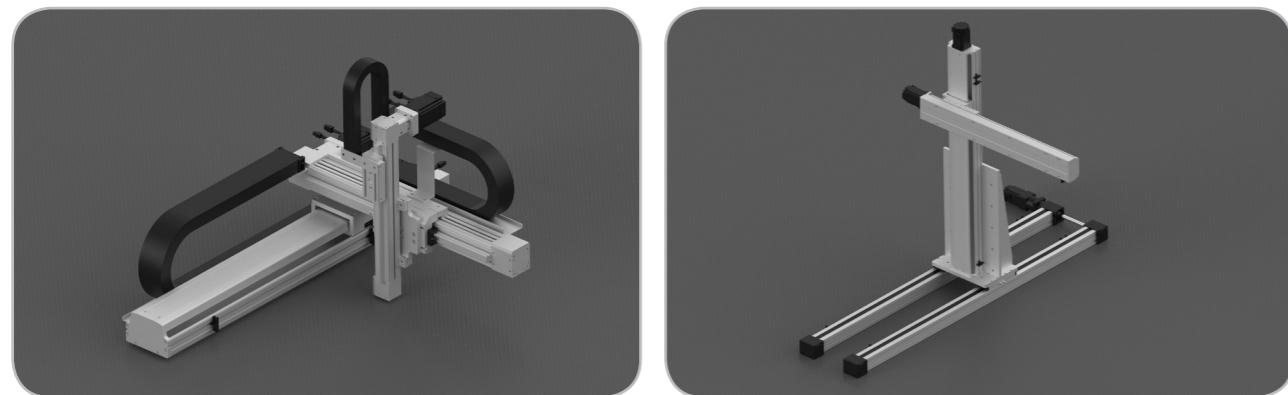


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行程 Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50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

Limon提供豐富的完整直線單元運動系統設計所需的支架和安裝組件。在我們的電機和驅動套裝交付的同時，我們亦會為您提供一個完整的解決方案。尺寸選定和系統選型請聯系我們獲取詳細信息。

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.



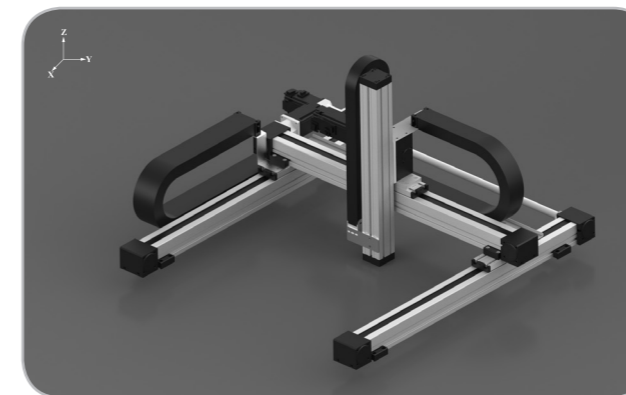
Note:

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.

以上所示產品，必須選配直線導軌。當懸臂離心過長時，負載能力會下降。請聯系萊盟機器人來根據實際圖紙獲得解決方案。我們提供監理多軸組合的所有必要配件，包括標準件，夾片和連接件。也可為客戶定制所需非標配件。

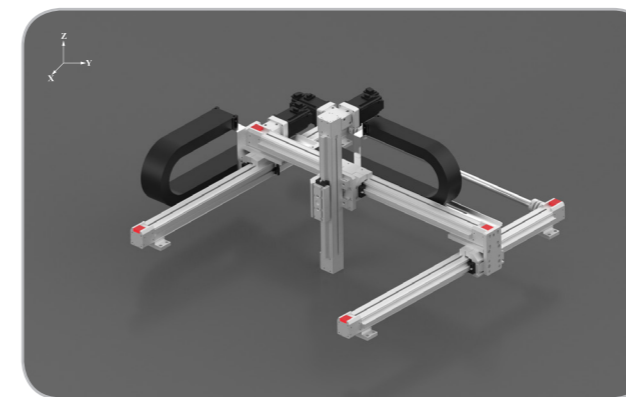
Limon提供豐富的完整直線單元運動系統設計所需的支架和安裝組件。在我們的電機和驅動套裝交付的同時，我們亦會為您提供一個完整的解決方案。尺寸選定和系統選型請聯系我們獲取詳細信息。

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.



■多軸組合模块

	Ixyz60			Ixyz80		
	X軸/ X Axis	Y軸/ Y Axis	Z軸/ Z Axis	X軸/ X Axis	Y軸/ Y Axis	Z軸/ Z Axis
軸組成 Axis Composition	ITO60	ITO60	ITZ60	ITO80	ITO80	ITZ60
重複定位精度 (mm) Repetitive Accuracy	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05
驅動方式 Driving Method	同步帶/ Belt	同步帶/ Belt	同步帶/ Belt	同步帶/ Belt	同步帶/ Belt	同步帶/ 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
最大搬運負載 (kg) Max Transport Load	5kg			12kg		



■多軸組合模块

	Txyz45			Txyz65		
	X軸/ X Axis	Y軸/ Y Axis	Z軸/ Z Axis	X軸/ X Axis	Y軸/ Y Axis	Z軸/ Z Axis
軸組成 Axis Composition	TSG45	TSG45	TSG45	TSG65	TSG65	TSG45
重複定位精度 (mm) Repetitive Accuracy	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05
驅動方式 Driving Method	同步帶/ Belt	同步帶/ Belt	同步帶/ Belt	同步帶/ Belt	同步帶/ Belt	同步帶/ 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
最大搬運負載 (kg) Max Transport Load	3kg			8kg		

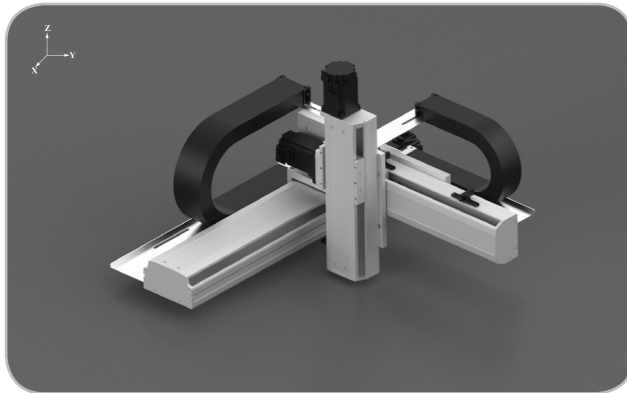
Note:

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.

以上所示產品，必須選配直線導軌。當懸臂離心過長時，負載能力會下降。請聯系萊盟機器人來根據實際圖紙獲得解決方案。我們提供監理多軸組合的所有必要配件，包括標準件，夾片和連接件。也可為客戶定制所需非標配件。

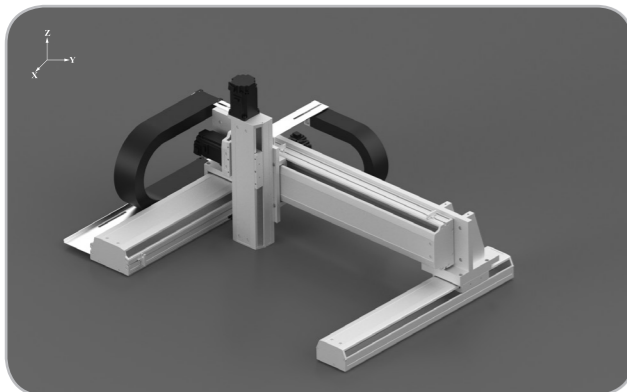
Limon提供豐富的完整直線單元運動系統設計所需的支架和安裝組件。在我們的電機和驅動套裝交付的同時，我們亦會為您提供一個完整的解決方案。尺寸選定和系統選型請聯系我們獲取詳細信息。

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.



■多軸組合模块

	Yxyz110-XB			Yxyz135-XB		
	X軸/ X Axis	Y軸/ Y Axis	Z軸/ Z Axis	X軸/ X Axis	Y軸/ Y Axis	Z軸/ Z Axis
軸組成 Axis Composition	YSO110	YSO110	YSC65	YSO135	YSO135	YSO110
重複定位精度 (mm) Repetitive Accuracy	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
驅動方式 Driving Method	滾珠絲杆 Ball Screw	滾珠絲杆 Ball Screw	滾珠絲杆 Ball Screw	滾珠絲杆 Ball Screw	滾珠絲杆 Ball Screw	滾珠絲杆 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軸行程 / Z Axis Stroke			Z軸行程 / Z Axis Stroke		
Y軸行程 (mm) Y Axis Stroke	150	250	-	150	250	350
最大搬運負載 (kg) Max Transport Load	150	5kg	5kg	-	10kg	10kg
	250	5kg	5kg	-	9kg	8kg
	350	5kg	5kg	-	7kg	6kg
	450	-	-	-	5kg	4kg
	550	-	-	-	3kg	2kg



■多軸組合模块

	Yxyz110-LM			Yxyz135-LM			
	X軸/ X Axis	Y軸/ Y Axis	Z軸/ Z Axis	X軸/ X Axis	Y軸/ Y Axis	Z軸/ Z Axis	
軸組成 Axis Composition	YSO110	YSO110	YSC65	YSO135	YSO135	YSO110	
重複定位精度 (mm) Repetitive Accuracy	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	
驅動方式 Driving Method	滾珠絲杆 Ball Screw	滾珠絲杆 Ball Screw	滾珠絲杆 Ball Screw	滾珠絲杆 Ball Screw	滾珠絲杆 Ball Screw	滾珠絲杆 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軸行程 / Z Axis Stroke			Z軸行程 / Z Axis Stroke			
Y軸行程 (mm) Y Axis Stroke	100-250			100-350			
最大搬運負載 (kg) Max Transport Load	150- 650	5kg			15kg		

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

以上所示產品，必須選配直線導軌。當懸臂離心過長時，負載能力會下降。請聯系萊盟機器人來根據實際圖紙獲得解決方案。我們提供監理多軸組合的所有必要配件，包括標準件，夾片和連接件。也可為客戶定制所需非標配件。

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]

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

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

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

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

M_{idle} = 請見相應單元的表格

- M_A = 所需驅動扭矩 [Nm]
- M_{load} = 負載變動引起的力矩 [Nm]
- M_{trans} = 平移加速度扭矩 [Nm]
- M_{rot} = 旋轉加速度扭矩 [Nm]
- M_{idle} = 最大空載扭矩 [Nm]³
- F_x = 進給力 [N]
- p = 絲杠導程 [mm]
- F_a = 所需的加速力 [N]
- j_{sp} = 每米滾珠絲杠的慣量 [kgm²/m]⁴
- n_{max} = 所需的最大轉速 [rpm]
- a = 所需的最大加速度 [m/s²]
- V_{max} = 所需的最大直線速度 [m/s]

¹ 總質量為所有待移動質量的總和（待移動的物體、滑架/杆、絲杠）。

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

³ 該數值可在各系列的最大空載扭矩表中查到。

⁴ 該數值可在下表中查到。

	SSG65	YSC50	YSC65	YSO/ YSC100	YSO/ YSC135	YSO/ YSC170
滾珠螺絲桿慣量 (JSP) , [kgm ² /m]	8.46x10 ⁻⁵	1.13x10 ⁻⁵	1.13x10 ⁻⁵	3.57x10 ⁻⁵	3.57x10 ⁻⁵	8.46x10 ⁻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]

Power Formula [kW]

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

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

Drive Moment Formulas [Nm]

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

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

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

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

M_{idle} = see table for unit in question

- MA = required drive moment [Nm]
- M_{load} = moment as a result of various loads [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]	8.46×10 ⁻⁵	1.13×10 ⁻⁵	1.13×10 ⁻⁵	3.57×10 ⁻⁵	3.57×10 ⁻⁵	8.46×10 ⁻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]

功率算式 [KW]

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

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

驅動扭矩算式 [Nm]

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

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

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

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

M_{idle} = 請見相應單元的表格

- MA = 所需驅動扭矩 [Nm]
- M_{load} = 負載變動引起的力矩 [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]	1.34×10 ⁻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

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]

Power Formula [kW]

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

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

Drive Moment Formulas [Nm]

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

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

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

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

M_{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]
- 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).

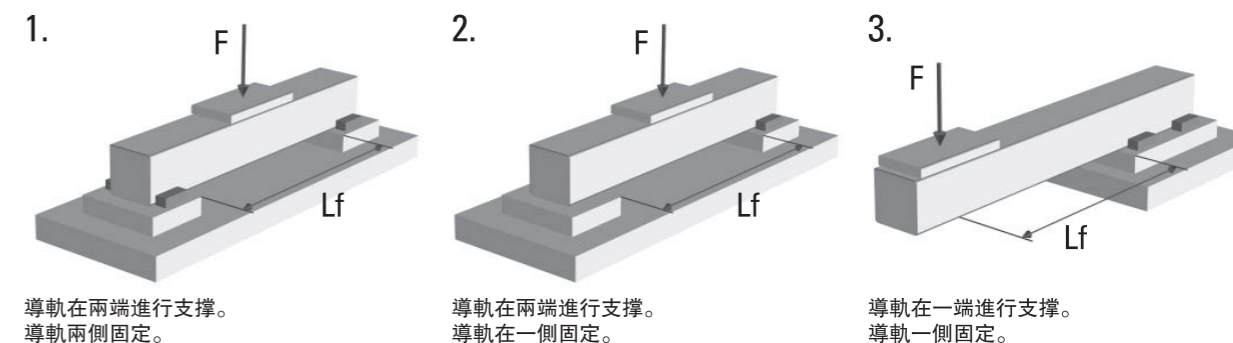
³ This value can be found in the carriage idle torque tables.

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



1. 導軌在兩端進行支撐。導軌兩側固定。

2. 導軌在兩端進行支撐。導軌在一側固定。

3. 導軌在一端進行支撐。導軌一側固定。

容許的導軌撓度算式[mm]

$$f_h = L_f \times b$$

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

導軌撓度算式[mm]

負載類型 1.

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

負載類型 2.

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

負載類型 3.

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

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

¹ 這個值可以在附加技術數據表中查到。

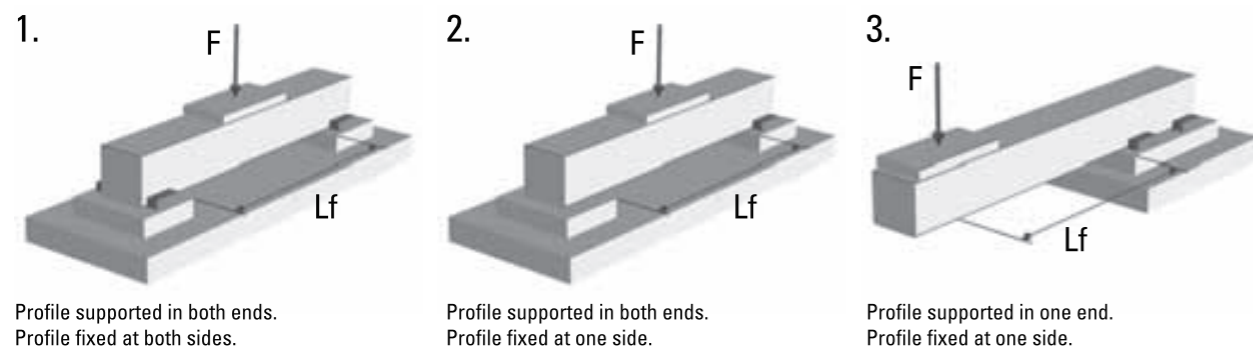
² 該數值可在各個單元的性能規格表中查到。

結論算式

$f_h > f_{max}$ = 撓度滿足要求

$f_h < f_{max}$ = 撓度不符合要求, L_f 必須縮短

Load Cases



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

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

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

Permissible Profile Deflection Formula [mm]

$$f_h = L_f \times b$$

f_h = permissible profile deflection [mm]
 L_f = length of profile being bent [mm]
 b = bending factor¹

Profile Deflection Formulas [mm]

Load Case 1.

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

Load Case 2.

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

Load Case 3.

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

f_{max} = deflection of the profile [mm]

m'_{100} = weight of every 100 mm of stroke [kg/mm]

m_{ext} = external load on carriage [kg]

m_c = weight of carriage(s) [kg]²

g = acceleration due to gravity [m/s²]

$E I$ = elastic modulus of aluminium (70000 N/mm²)

I_y = geometrical moment of inertia of the profile in Y direction [mm⁴]¹

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

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

實例 1

直線運動系統類型:
ITO80

負載類型:
類型1 - 導軌在兩端支撐並在兩側固定

待通過滑架移動的負載:
 $m_{ext} = 150$ kg

支撐間距:
 $L_f = 600$ mm

特定單元參數:
 $m'_{100} = 0,93$ kg
 $m_c = 2,75$ kg
 $EAI = 70000$ N/mm²
 $I_y = 1,93 \times 10^6$ mm⁴
 $b = 0,0005$

計算所得值:
 $f_h = 0,3$ mm
 $f_{max} = 0,013$ mm

結論:
 $f_h > f_{max}$ = 撓度滿足要求

實例 2

直線運動系統類型:
ITO60

負載類型:
類型2 - 導軌在兩端支撐並在一邊固定

需要通過滑架移動的負載:
 $m_{ext} = 100$ kg

支撐間距:
 $L_f = 600$ mm

特定單元數據:
 $m'_{100} = 0,53$ kg
 $m_c = 1,2$ kg
 $EAI = 70000$ N/mm²
 $I_y = 4,59 \times 10^5$ mm⁴
 $b = 0,0005$

計算所得值:
 $f_h = 0,3$ mm
 $f_{max} = 0,063$ mm

結論:
 $f_h > f_{max}$ = 撓度滿足要求

實例 3

直線運動系統類型:
ITO80

負載類型:
類型3 - 導軌支撐和固定都在一端

需要通過滑架移動的負載:
 $m_{ext} = 120$ kg

支撐間距:
 $L_f = 400$ mm

特定單元數據:
 $m'_{100} = 1,08$ kg
 $m_c = 4,26$ kg
 $EAI = 70000$ N/mm²
 $I_y = 1,85 \times 10^6$ mm⁴
 $b = 0,0003$

計算所得值:
 $f_h = 0,12$ mm
 $f_{max} = 0,203$ mm

結論:
 $f_h < f_{max}$ = 撓度不滿足要求

Conclusion Formulas

$f_h > f_{max}$ = deflection OK

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

Example 1

Type of linear motion system:
ITO80

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:
 $m'_{100} = 0,93 \text{ kg}$
 $m_c = 2,75 \text{ kg}$
 $E_{Al} = 70000 \text{ N/mm}^2$
 $I_y = 1,93 \times 10^6 \text{ mm}^4$
 $b = 0,0005$

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:
ITO60

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:
 $m'_{100} = 0,53 \text{ kg}$
 $m_c = 1,2 \text{ kg}$
 $E_{Al} = 70000 \text{ N/mm}^2$
 $I_y = 4,59 \times 10^6 \text{ mm}^4$
 $b = 0,0005$

Calculated values:
 $f_h = 0,3 \text{ mm}$
 $f_{max} = 0,063 \text{ mm}$

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

Example 3

Type of linear motion system:
ITO80

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:
 $m'_{100} = 1,08 \text{ kg}$
 $m_c = 4,26 \text{ kg}$
 $E_{Al} = 70000 \text{ N/mm}^2$
 $I_y = 1,85 \times 10^6 \text{ mm}^4$
 $b = 0,0003$

Calculated values:
 $f_h = 0,12 \text{ mm}$
 $f_{max} = 0,203 \text{ mm}$

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

加速度

加速度是用于衡量從靜止（或較低速度）達到較高速度的速度變化率的度量方式。如果您的應用對加速度值有嚴格要求，請聯系我們的客戶服務部門。

精度

精度分為幾種不同的類型。許多因素都會對系統的整體精度造成影響。另請參見“重復精度”，“定位精度”。

滾珠螺絲驅動

滾珠絲杠由一個旋轉絲杠和一個移動滾珠螺母組成。滾珠螺母固定在單元的滑架上。沒有正常的綫程，相反的是滾珠在螺母中循環作為沿着絲杠運行的高效滾珠軸承工作。滾珠絲杠有多種導程、直徑和精度等級可選。精度等級（C3, C5, C7 或C10）表示絲杠的導程公差。數字越小，精度越高。滾珠絲杠驅動單元的典型特性為高負載性能和高精度。

皮帶驅動

皮帶驅動固定在單元滑架上的齒形皮帶組成。皮帶在定位在導軌一端的兩個皮帶輪之間運行。一個皮帶輪通過驅動軸連接到電機的驅動站，另一個皮帶輪則安裝在張緊站。皮帶由強化鋼芯塑料制成。皮帶驅動單元的典型特性為高速度、長行程、低噪音和低總體質量。

皮帶傳動機構

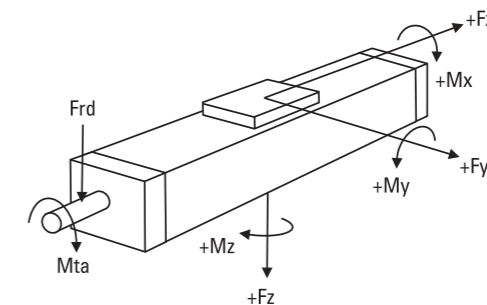
皮帶傳動機構包含一條運行在兩個不同直徑的皮帶輪之間的同步帶。皮帶輪直徑的差異決定了傳動比的大小。皮帶齒輪運行安靜，精度達到中等水平且無需維護，但在過載情況下很容易損壞。

危險轉速

所有滾珠絲杠都具有危險轉速，在此速度下絲杠開始振動並最終彎曲或卷起絲杠。具體的限值為一個由絲杠總長度和速度構成的函數。對於個別執行器而言，這意味着當行程超出一定距離後，在性能規格表中查到的容許最大速度可以超出危險轉速。此種情況下，要麼必須將速度降至危險轉速，必須減少行程量；要麼必須選擇其它能在此行程下控制速度的執行器型號。否則，則必須選擇能在此行程下滿足速度要求的其它單元。危險轉速限值可相應單元的產品頁面的“危險轉速”圖內找到。

作用力示意圖

作用在單元上的力的名稱在各個單元的產品頁中進行了示意圖，詳見各自的“作用力示意圖”（參見下面例子）。在與Limon進行溝通時，請務必采用相同示意圖。



導軌撓度

個別單元需要沿着整個導軌支撐，而另一些則僅在超出指定範圍時進行自支撐。更為詳盡的內容可參閱產品資料頁。應采用我們推薦的支撐間隔進行支撐，從而將單元撓度降至最低。支撐點間的最大距離可參閱產品資料頁。單元的撓度也可使用“其他參數和計算”章節的方法進行計算。

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

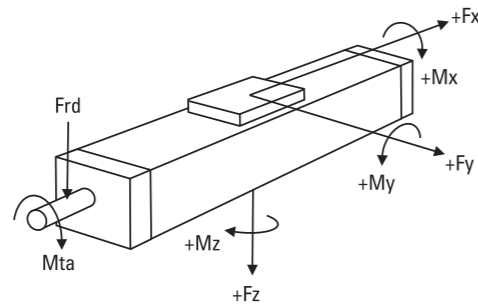
A belt gear consists of a timing belt that runs between two pulley wheels of different diameters. The difference between the diameters determines the gear ratio. Belt gears are quiet, have medium accuracy and require no maintenance but are susceptible to belt breakage under overload conditions.

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

空載轉矩是指移動無負載滑架時，旋轉驅動軸所需的扭矩。空載轉矩因輸入速度而異，產品頁上的空載轉矩表給出了部分速度下的扭矩值。表中給出的值針對的是配備標準長度單滑架的單元。如果您需要其他速度、多滑架、短/長滑架的確切扭矩值，請聯系我們的客服部門。

慣性

慣性是物體抵抗自身速度改變的一種屬性，其大小取決于物體的形狀和質量。當選定尺寸和型號以及想調整伺服系統至最佳性能時，對慣性的考慮非常重要。更多相關信息，請諮詢我們的客戶服務部門。

預期壽命

在決定直線運動系統的使用壽命時，須評估所有作用在單元上的力和扭矩。本目錄所列的參數和算式作為基本參考。若需更詳盡的使用壽命計算方法，請使用我們的尺寸和選型軟件。請聯系我們獲取進一步的指導。

額定負載

許多類型的額定負載都需要考慮。我們通常所說的負載指的是延伸管將要推動或拉動負載，即動態負載。但是也存在靜態、側向、慣量和加速力、減速力、重力和摩擦力負載，這些負載同等重要。對於部分單元而言，給定的負載和負載扭矩值適用於整個單元和導軌系統。整個單元的值是單元能夠運行的值。導軌系統的值應僅在不同單元比較時使用，且不可用于表述整個單元的實際性能。

定位精度

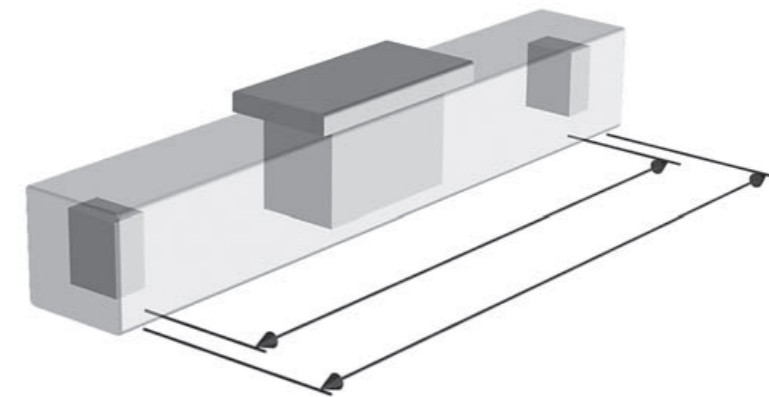
定位精度指期望位置與實際位置之間的偏差，是所有可能造成精度降低的因素（即重復精度，背隙，分辨率，絲杠/皮帶精度，電機、驅動和運動控制系統精度）疊加的結果。有些因素，如背隙和導軌精度，有時能夠通過使用運動控制系統的軟件進行補償。同時參見“精度”。

重復精度

重復精度是指定位系統從相同的距離，以相同的速度和減速度率回到位置的能力。影響重復精度的因素是電機角度重復精度，驅動和運動控制系統，系統摩擦和負載變化，速度和減速度。

行程

理論上的最大行程（Smax）是滑架能從單元一端到另一端移動的總長度。然而，達到最大行程則意味着滑架會和末端導軌相撞。因此，實際行程要短于Smax。我們建議您在指定單元長度時，至少應比您要求的最大行程長100mm，這樣單元即可在撞擊到末端之前停止，並且允許在安裝時對單元的位置進行調整。



Idle Torque

Idle torque is the torque needed to move the carriage with no load in it by rotating the drive shaft. The idle torque will vary with the input speed and the idle torque tables on the product pages gives a value for some speeds. The value given in the table is for a unit having a single carriage of standard length. If you need the exact value for another speed, multiple carriages or short/long carriages, please contact our customer service.

Inertia

Inertia is the property of an object to resist speed changes and is dependent on the shape and the mass of the object. The inertia is important when sizing and selecting and also when tuning a servo system to optimum performance. Consult customer service for more information.

Lifetime Expectancy

When determining the lifetime for a linear motion system it is necessary to evaluate all forces and moments that are acting on the unit. The data and formulas given in this catalogue serve as a basis for this. For a more detailed lifetime calculation please use our sizing and selection software. Please contact us for further guidance.

Load Rating

There are many types of load ratings that all needs to be considered. Normally when you speak about the load you refer to the load that the carriage will move; which is the dynamic load. But there may also be static, side, moment and forces from acceleration, deceleration, gravity and friction that are all equally important. For some units the load and load torque values are given for both the complete unit and the guiding system. The values for the complete unit are the values under which the unit can operate. The values for the guiding system should only be used when comparing different units and do not describe the actual performance of the complete unit.

Positioning Accuracy

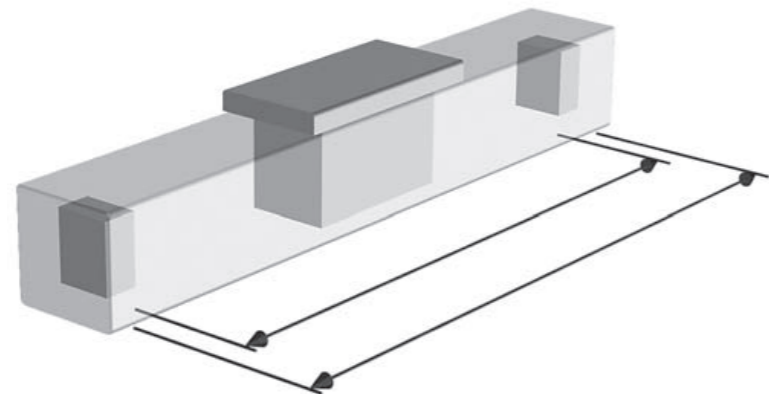
Positioning accuracy is the error between the expected and actual position and is the sum of all factors that will reduce the accuracy (i.e. repeatability, backlash, resolution, screw/belt accuracy, and the accuracy of the motor, drive and motion control system). Some of these factors, such as backlash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

Repeatability

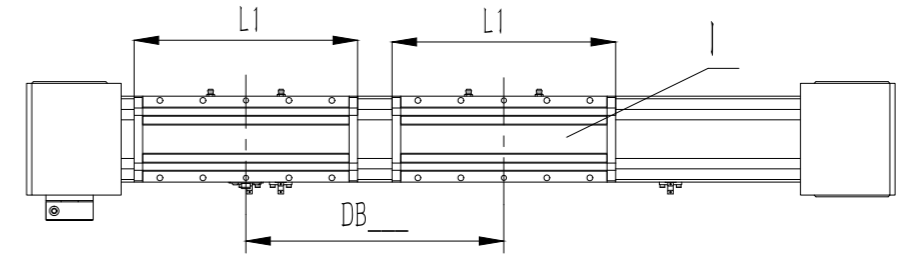
Repeatability is the ability for a positioning system to return to a location when approaching from the same distance, at the same speed and deceleration rate. Some of the factors that affect the repeatability are the angular repeatability of the motor, drive and motion control system, system friction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

Stroke

The theoretical maximum stroke (Smax) is the length that the carriage can travel from one end of the unit to the other. However, using the maximum stroke means that the carriage will collide with the ends of the profile. The practical stroke is therefore shorter. We recommend that you specify a unit that have at least 100 mm longer stroke than the maximum stroke you need so that the unit can stop before colliding with the ends and also allow for some adjustment of the unit position at the mounting.



**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 | =輔助滑塊
L1=Block Length DB__=Center | =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

A series of horizontal dashed lines for writing notes, spanning the width of the page.

LIMON in Taiwan 臺灣

Add / 地址: No.226-1.Section 3 Shixian Road,West Area,Chiayi
City,Taiwan / 台湾嘉义市西区世贤路三段266之1号
Tel / 電話:02-82853888

LIMON in P.R. China 中國

Add / 地址: Floor 15 Building 5, Zone A, R&D Park, NO.587
Juxian Road, Hi-tech Zone, Ningbo, Zhejiang, China / 浙江省
寧波市鄞州高新區聚賢路587號研發園A區5幢15樓
Tel / 電話: 0086-0574-87515352

LIMON in Singapore 新加坡

Add / 地址: No.1 Kaki Bukit Avenue 3 (KB-1)#06-12
Singapore 416087
Tel / 電話: 0065 6286 7707

LIMON in Japan 日本

Add / 地址: ROOM 205, GRANDEUR IMAZATO BLDG.-
NO.1-4,4-CHOME, IMAZATO, NAGAOKAKYO-CITY, 617-0814,-
KYOTO, JAPAN Tel / 電話: 0081-759590221

LIMON in India 印度

Add-1 / 地址-1: 303-308, Krishna Bhuvan Annex, 22-B,
Govandi Station Road, Deonar, Mumbai - 400088
Maharashtra INDIA
Tel / 電話: 0091-22-61464444 / 61464445

Add-2 / 地址-2: D-12 LAJPAT NAGAR-3, 2ND FLOOR, NEW
DELHI-110024 INDIA
Tel / 電話: 0091 11 23951438

LIMON in Germany 德國

Add / 地址: Statmannstr. 23 D-72644 Oberboihingen
Tel / 電話: 0049 7022 2629384

LIMON in Hungary 匈牙利

Add / 地址: 1194 Budapest, Hofherr Albert u. 38/B, HUN-
GARY
Tel / 电话: 0036 1/455-2079

LIMON in Brasil 巴西

Add / 地址: AV. MARECHAL RONDON, 2122, CAMPINAS
-SP, BRASIL
Tel / 電話: 0055 19 32 434316

LIMON in Turkey 土耳其

Add / 地址: Esensehir mahallesi, kurkculer caddesi, Eryil-
maz sokak no 31, Dudullu-ümraniye-Istanbul-turkey
Tel / 電話: 0090 216 527 30 30

LIMON in Israel 以色列

Add / 地址: 32 Amal st Petach-Tikva 49513 Israel
Tel / 電話: 00972 3 9288888



Facebook



Website

LIMON AUTO TECH CO., LTD.

www.limonrobot.cn