

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，適用性强
- 精度高，剛性强
- Comprehensive Range Of Mounting Accessories For Multi-Axis
- Optimally Adapted To Motor Controller's Multilateration
- Multilateration
- Wide Range Of Options For Attached Driving Units
- Highly Adaptable, Thanks To Wide Choice Of Mounting And Attachment Options
- High Precision, Strong Rigidity

GSC系列模組 / GSC Series Module

- 產品型號: GSC 50 / 80 / 120
- 高剛性
- 不易發塵
- 體積小
- Part No.: GSC 50 / 80 / 120
- High Rigidity
- Reduce dust
- Compact Design



P1-P9

KS系列模組 / KS Series Module

- 產品型號: KS 50 / 60 / 86
- 高剛性
- 模組化
- 四方等負荷
- Part No.: KS 50 / 60 / 86
- High Rigidity
- Modular Design
- Equal Load in Four Directions



P10-P15

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

- 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



P17-P23

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



P24-P26

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

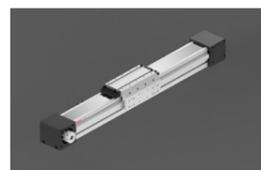
- 產品型號: ITC-60/60L/80/80L/100/100L
- 直線導軌導向
- 高載荷
- 同步帶驅動全密式
- Part No.: ITC-60 / 60L / 80 / 80L / 100 / 100L
- With Linear Guide
- High Characteristic Load Values
- Clean Room Type Driven By Belt



P27-P30

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

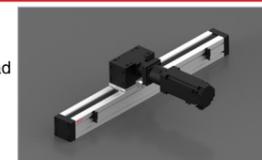
- 產品型號: HTC-80/80L/100/100L
- 直線導軌導向
- 高載荷
- 同步帶驅動全密式
- Part No.: HTC - 80 / 80L / 100 / 100L
- With Linear Guide
- High Characteristic Load Values
- Clean Room Type Driven By Belt



P31-P35

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



P36-P37

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



P38-P56

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



P57-P74

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

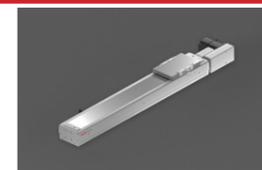
- 產品型號: YTO-100/110/135/135M/170/220
- 速度快
- 高加速度
- 半密型
- Part No.: YTO-100/110/135/135M/170/220
- High Speed
- High Acceleration
- Open Type Driven By Belt



P75-P110

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



P111-P128

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



P129-P131

驅動計算 / Drive Calculations

P132-P134

撓度計算 / Deflection Calculations

P135-P138

詞匯表 / Glossary

P139-P143

輔助滑塊 / Auxiliary Block

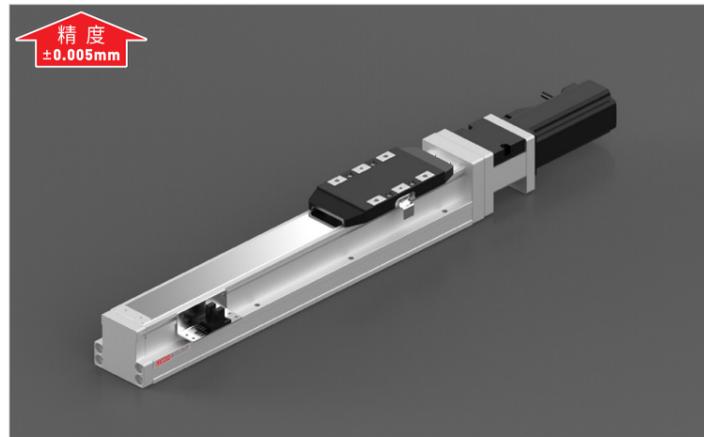
P144

GSC 50 導軌內嵌式滑台模組

Inserted sliding platform of guide rail

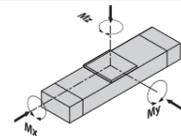
訂購型號代碼 Code

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



最大動態力和力矩

Max Permissible Forces And Torques



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

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

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

馬達安裝方向 Motor Mounting Position Version

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

基本規格 Basic Specification

| GSC 50 | | | | |
|------------------------------|------------------------------------|---------------------|-----|------|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.005 | | |
| | 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | 20 |
| | 最高速度 Maximum Speed (mm/s) | 250 | 500 | 1000 |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 30 | 15 |
| 垂直使用Vertical (kg) | | 10 | 5 | 2.5 |
| | 定格推力 Rated Thrust (N) | 341 | 170 | 85 |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 50-800 mm/ 50 Pitch | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 100 | | |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | C7 Ø12 | | |
| | 聯軸器 Coupling (mm) | 7×8 | | |
| | 原點感應器 Home Sensor | PM-Y45(NPN) | | |

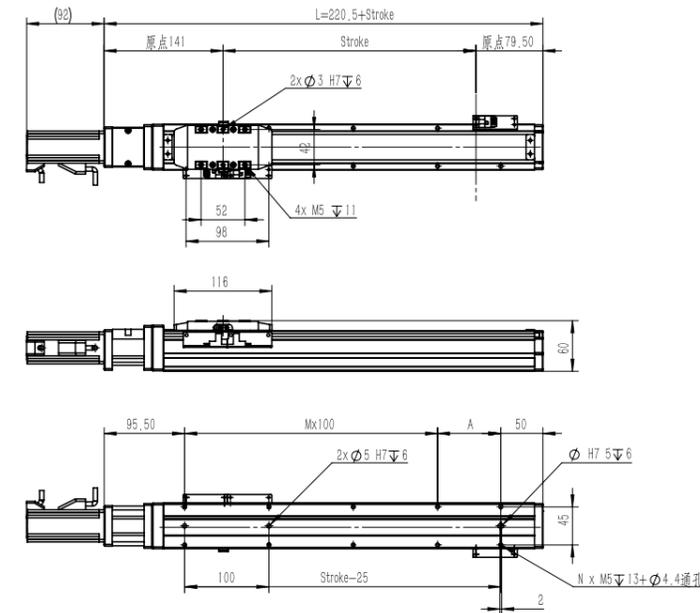
導軌內嵌式滑台模組 GSC 50

Inserted sliding platform of guide rail

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



2D&3D文檔下載請至
www.limonrobot.cn

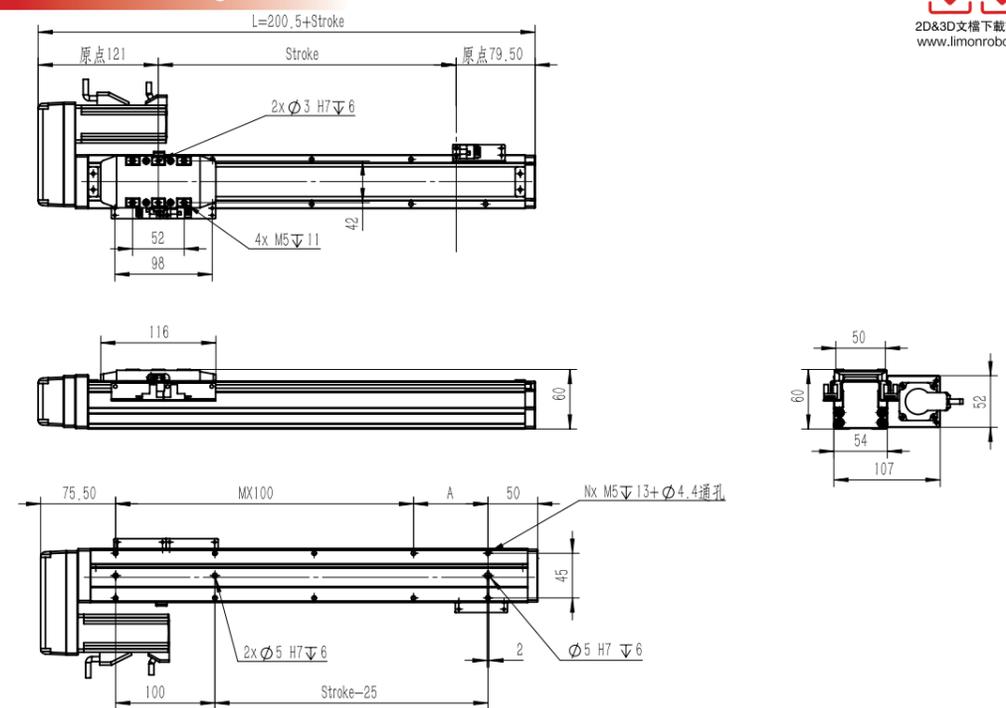


| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| L | 270.5 | 320.5 | 370.5 | 420.5 | 470.5 | 520.5 | 570.5 | 620.5 | 670.5 | 720.5 | 770.5 | 820.5 | 870.5 | 920.5 | 970.5 | 1020.5 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 | 525 | 575 | 625 | 675 | 725 | 775 |
| 重量 Weight (kg) | 2.23 | 2.42 | 2.62 | 2.82 | 3.01 | 3.21 | 3.41 | 3.6 | 3.8 | 4 | 4.19 | 4.39 | 4.59 | 4.78 | 4.98 | 5.18 |

GSC 50-ML 馬達左折安裝 Left Motor Mounting



2D&3D文檔下載請至
www.limonrobot.cn

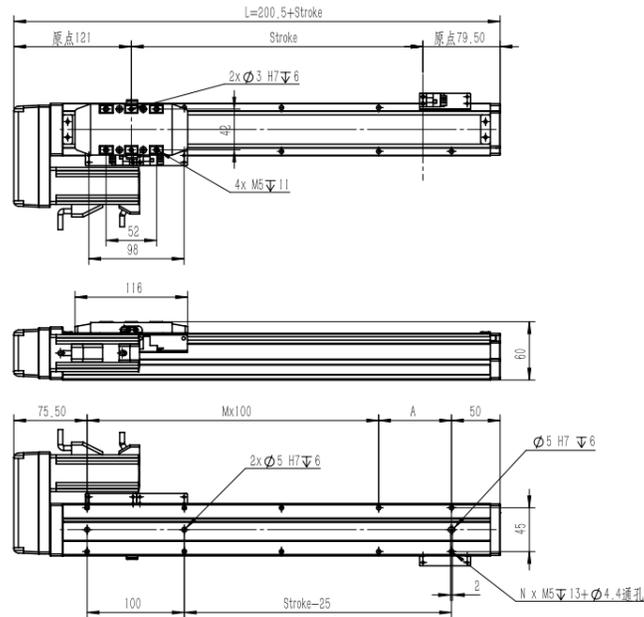


| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| L | 250.5 | 300.5 | 350.5 | 400.5 | 450.5 | 500.5 | 550.5 | 600.5 | 650.5 | 700.5 | 750.5 | 800.5 | 850.5 | 900.5 | 950.5 | 1000.5 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 | 525 | 575 | 625 | 675 | 725 | 775 |
| 重量 Weight (kg) | 2.4 | 2.59 | 2.79 | 2.99 | 3.18 | 3.38 | 3.58 | 3.77 | 3.97 | 4.17 | 4.36 | 4.56 | 4.76 | 4.95 | 5.15 | 5.35 |

GSC 50 導軌內嵌式滑台模組

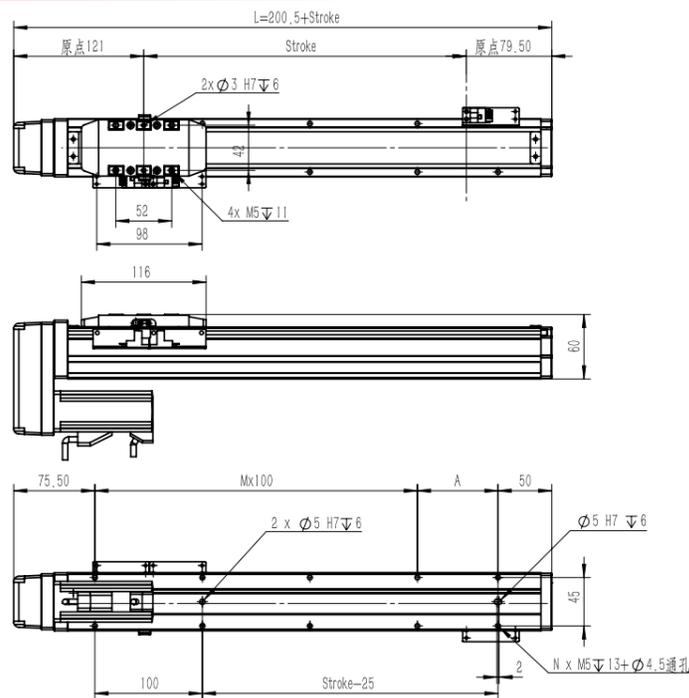
Inserted sliding platform of guide rail

GSC 50-MR 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 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| L | 250.5 | 300.5 | 350.5 | 400.5 | 450.5 | 500.5 | 550.5 | 600.5 | 650.5 | 700.5 | 750.5 | 800.5 | 850.5 | 900.5 | 950.5 | 1000.5 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 | 525 | 575 | 625 | 675 | 725 | 775 |
| 重量 Weight (kg) | 2.4 | 2.59 | 2.79 | 2.99 | 3.18 | 3.38 | 3.58 | 3.77 | 3.97 | 4.17 | 4.36 | 4.56 | 4.76 | 4.95 | 5.15 | 5.35 |

GSC 50-MD 馬達下折安裝 Down Motor Mounting



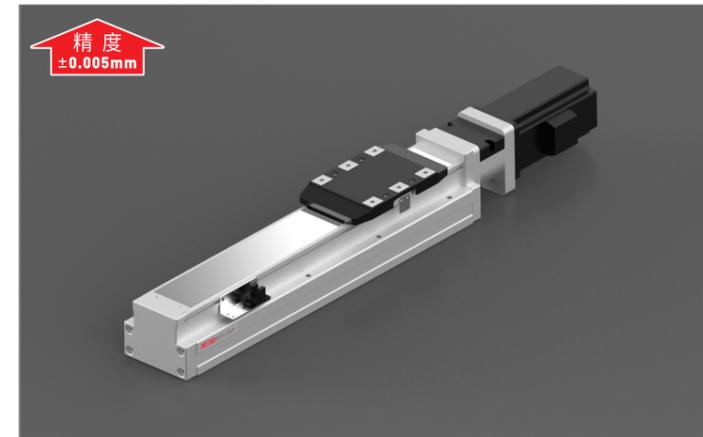
| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| L | 250.5 | 300.5 | 350.5 | 400.5 | 450.5 | 500.5 | 550.5 | 600.5 | 650.5 | 700.5 | 750.5 | 800.5 | 850.5 | 900.5 | 950.5 | 1000.5 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 | 525 | 575 | 625 | 675 | 725 | 775 |
| 重量 Weight (kg) | 2.4 | 2.59 | 2.79 | 2.99 | 3.18 | 3.38 | 3.58 | 3.77 | 3.97 | 4.17 | 4.36 | 4.56 | 4.76 | 4.95 | 5.15 | 5.35 |

導軌內嵌式滑台模組 GSC 80

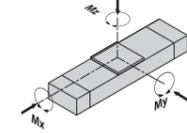
Inserted sliding platform of guide rail

訂購型號代碼 Code

| | | | | | | |
|---------------|----------------------|------------------|---|---|---|------------------------|
| GSC 80 | L10 | 500 | MS | M40 | P3 | A001 |
| 本體型號 Item NO. | 螺桿導程 Ball Screw Lead | 行程 Stroke | 馬達方向 Motor Mounting Position | 馬達廠牌、功率 Motor Brand, Power Output | 限位傳感器數量 Photoelectric Sensor | 特注式樣 Special Order No. |
| | 05 10 20 | 50-1050, 間隔Gap50 | MS: 馬達直接安裝 Straight Motor Mounting ML: 馬達左折安裝 Left Motor Mounting MR: 馬達右折安裝 Right Motor Mounting MD: 馬達下折安裝 Down Motor Mounting | M 三菱 Mitsubishi 20 200W 40 400W P 松下 Panasonic 20 200W 40 400W | P1: 1祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark/NoSensor | |



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

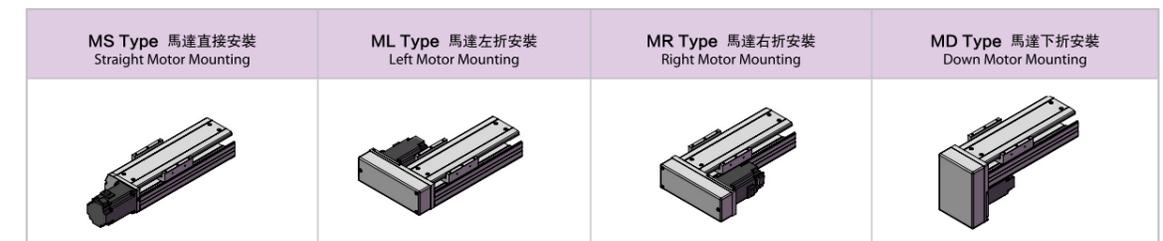


| Type | |
|------------|-----|
| M(x) (N·m) | 626 |
| M(y) (N·m) | 318 |
| M(z) (N·m) | 318 |

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| | | GSC 80 | | |
|------------------------------|------------------------------------|----------------------|-----|------|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.005 | | |
| | 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | 20 |
| | 最高速度 Maximum Speed (mm/s) | 250 | 500 | 1000 |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 50 | 30 |
| 垂直使用Vertical (kg) | | 15 | 8 | 3 |
| | 定格推力 Rated Thrust (N) | 683 | 341 | 174 |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 50-1050 mm/ 50 Pitch | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 200/400 | | |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | C7 Ø16 | | |
| | 聯軸器 Coupling (mm) | 11/14 | | |
| | 原點感應器 Home Sensor | PM-Y45(NPN) | | |

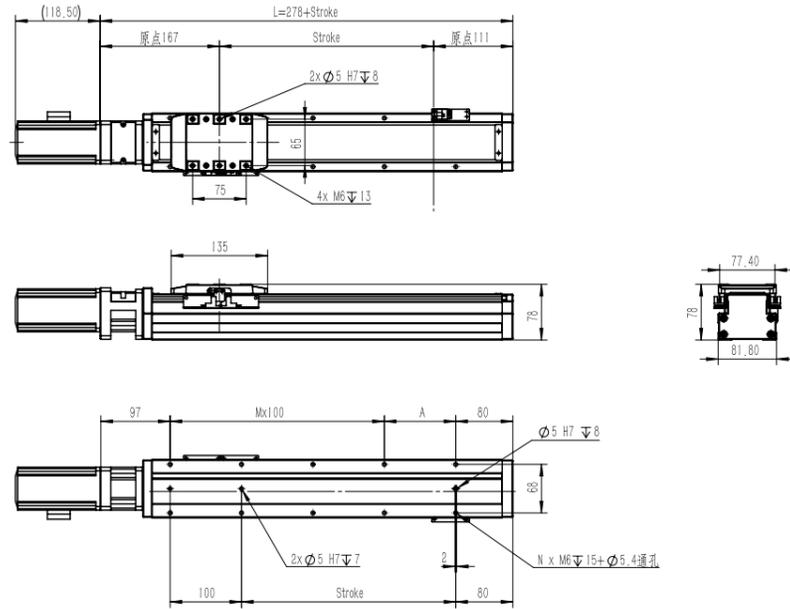
GSC 80 導軌內嵌式滑台模組

Inserted sliding platform of guide rail

GSC 80-MS 馬達直接安裝 Straight Motor Mounting



2D&3D文檔下載請至
www.limonrobot.cn

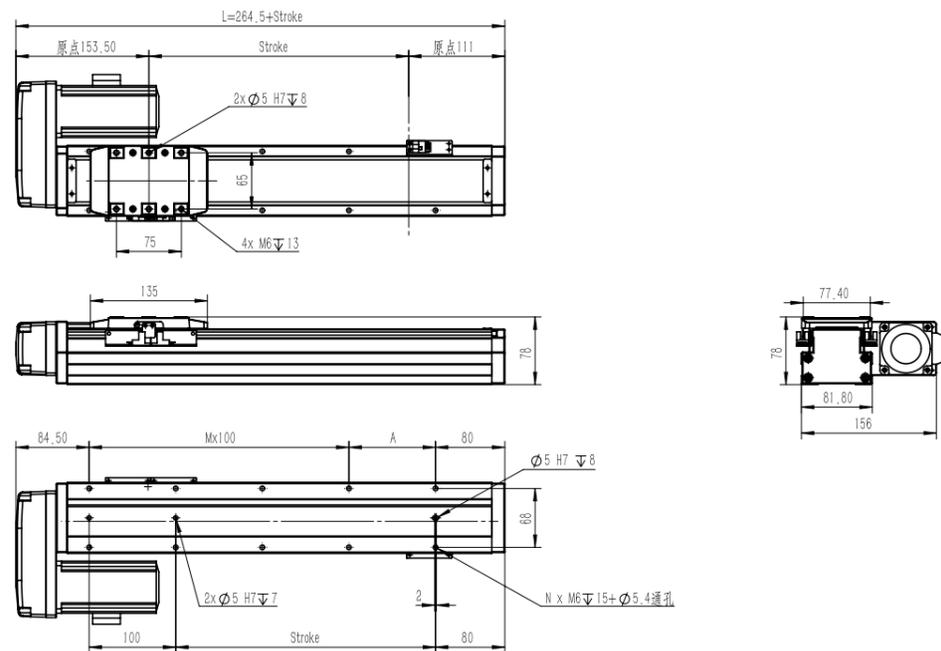


| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|----------------|------|------|------|------|------|-----|------|------|-----|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|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

GSC 80-ML 馬達左折安裝 Left Motor Mounting



2D&3D文檔下載請至
www.limonrobot.cn



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

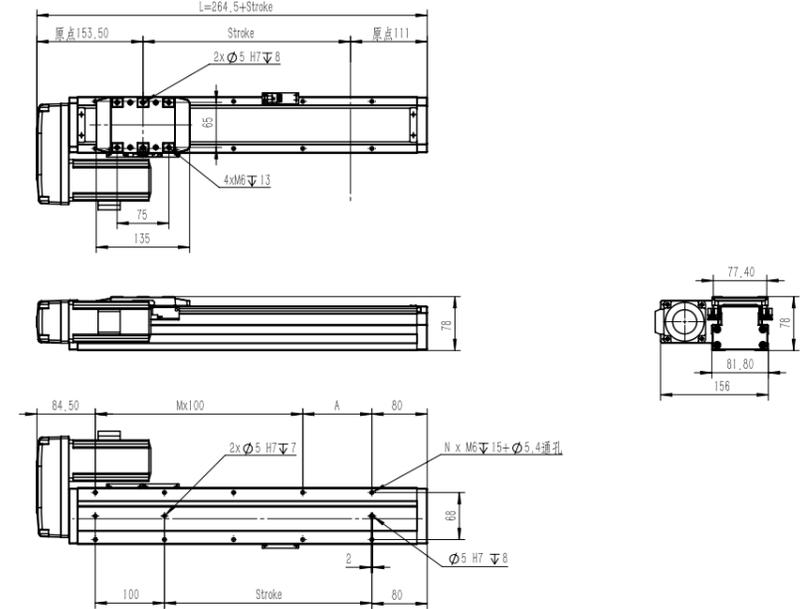
導軌內嵌式滑台模組 GSC 80

Inserted sliding platform of guide rail

GSC 80-MR 馬達右折安裝 Right Motor Mounting



2D&3D文檔下載請至
www.limonrobot.cn

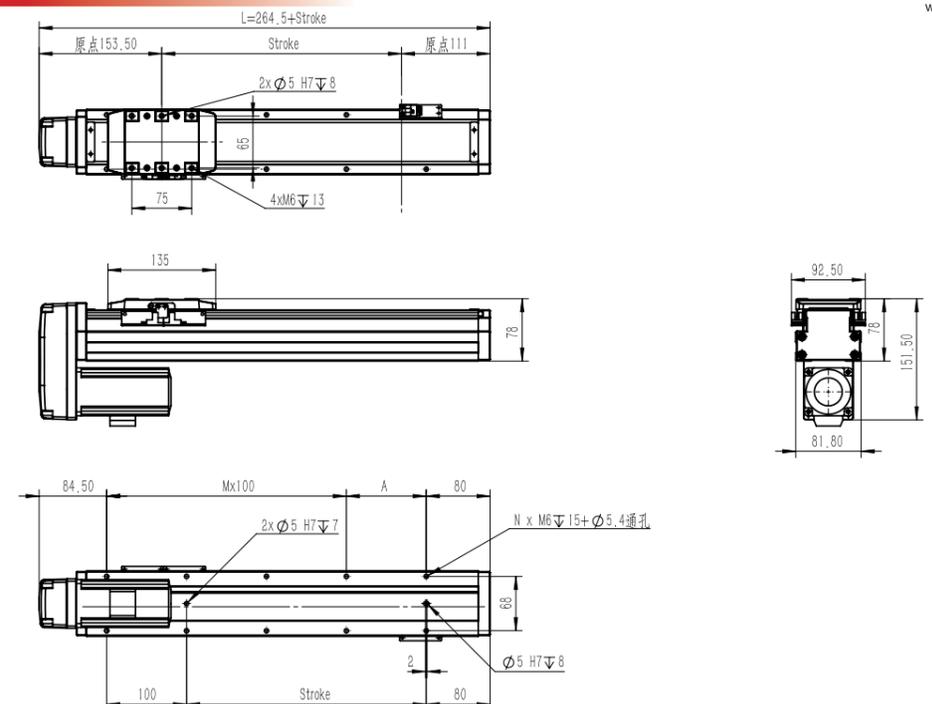


| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|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

GSC 80-MD 馬達下折安裝 Down Motor Mounting



2D&3D文檔下載請至
www.limonrobot.cn



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

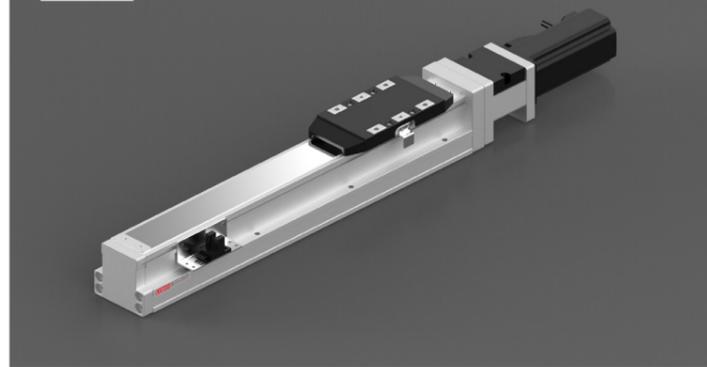
GSC 120 導軌內嵌式滑台模組

Inserted sliding platform of guide rail

訂購型號代碼 Code

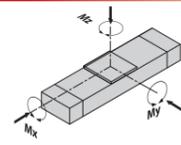
| | | | | | | |
|----------------|----------------------|------------------|---|---|--|------------------------|
| GSC 120 | L10 | 500 | MS | M40 | P3 | A001 |
| 本體型號 Item NO. | 螺桿導程 Ball Screw Lead | 行程 Stroke | 馬達方向 Motor Mounting Position | 馬達廠牌、功率 Motor Brand - Power Output | 限位傳感器數量 Photoelectric Sensor | 特注式樣 Special Order No. |
| | 05 10 20 32 | 50-1250, 間隔Gap50 | MS: 馬達直接安裝 Straight Motor Mounting ML: 馬達左折安裝 Left Motor Mounting MR: 馬達右折安裝 Right Motor Mounting MD: 馬達下折安裝 Down Motor Mounting | M 三菱 Mitsubishi 20 200W 40 400W P 松下 Panasonic 20 200W 40 400W | P1: 1祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark: NoSensor | |

精度
±0.005mm



最大動態力和力矩

Max Permissible Forces And Torques



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

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

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

馬達安裝方向 Motor Mounting Position Version

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

基本規格 Basic Specification

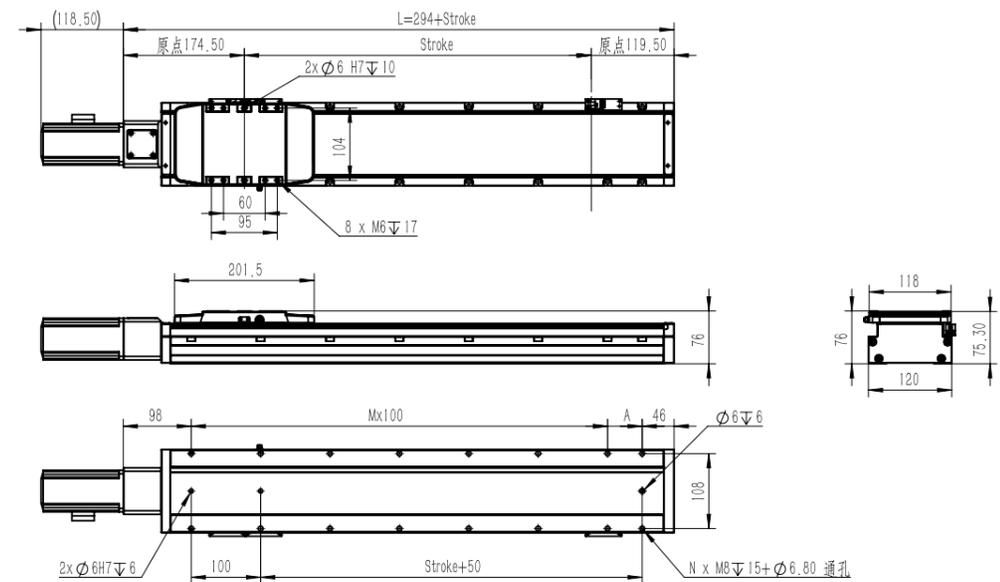
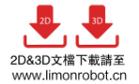
| | | GSC 120 | | | | |
|------------------------------|------------------------------------|----------------------|-----|------|------|----|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.005 | | | | |
| | 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | 20 | 32 | |
| | 最高速度 Maximum Speed (mm/s) | 250 | 500 | 1000 | 1600 | |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 110 | 88 | 40 | 30 |
| | | 垂直使用Vertical (kg) | 33 | 22 | 10 | 8 |
| 定額推力 Rated Thrust (N) | 1388 | 694 | 347 | 218 | | |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 50-1250 mm/ 50 Pitch | | | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 400 | | | | |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | C7 Ø16 | | | | |
| | 聯軸器 Coupling (mm) | 10 × 14 | | | | |
| | 原點感應器 Home Sensor | PM-Y45(NPN) | | | | |

導軌內嵌式滑台模組

Inserted sliding platform of guide rail

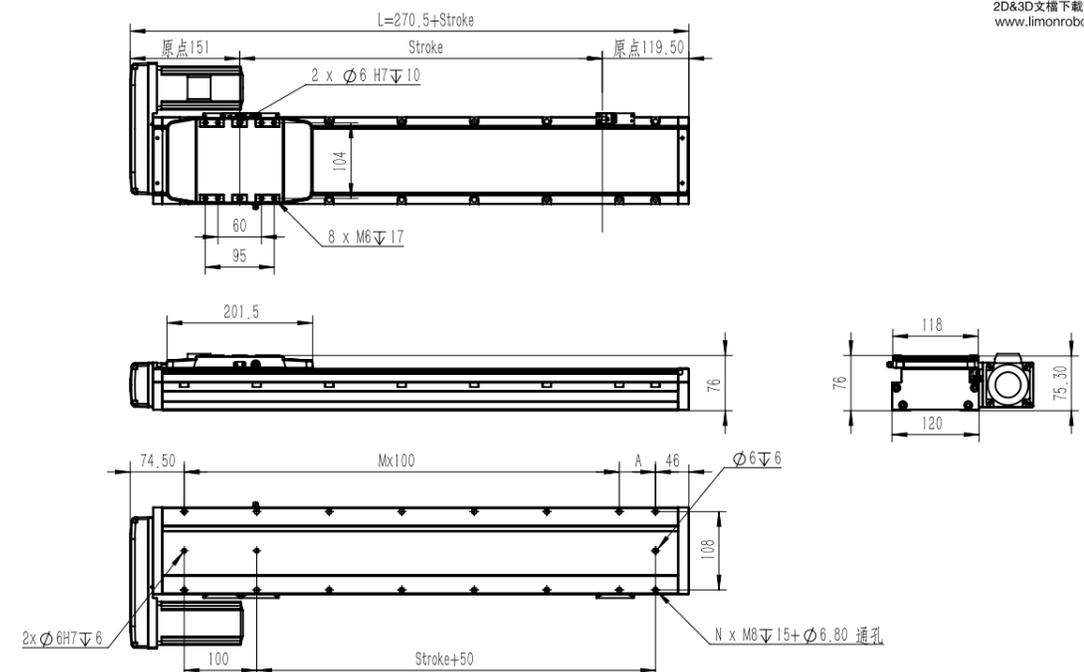
GSC 120

GSC 120-MS 馬達直接安裝 Straight Motor Mounting



| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---------------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|------|-------|------|-------|------|-------|------|-------|------|-------|
| L | 344 | 395 | 444 | 494 | 544 | 594 | 644 | 694 | 744 | 794 | 844 | 894 | 944 | 994 | 1044 | 1094 | 1144 | 1194 | 1244 | 1294 | 1344 | 1394 | 1444 | 1494 | 1544 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 |
| P | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 |
| 重量 Weight(kg) | 5.05 | 5.4 | 5.75 | 6.1 | 6.45 | 6.8 | 7.15 | 7.5 | 7.85 | 8.2 | 8.55 | 8.9 | 9.25 | 9.6 | 9.95 | 10.3 | 10.65 | 11 | 11.35 | 11.7 | 12.05 | 12.4 | 12.75 | 13.1 | 13.45 |

GSC 120-ML 馬達左折安裝 Left Motor Mounting

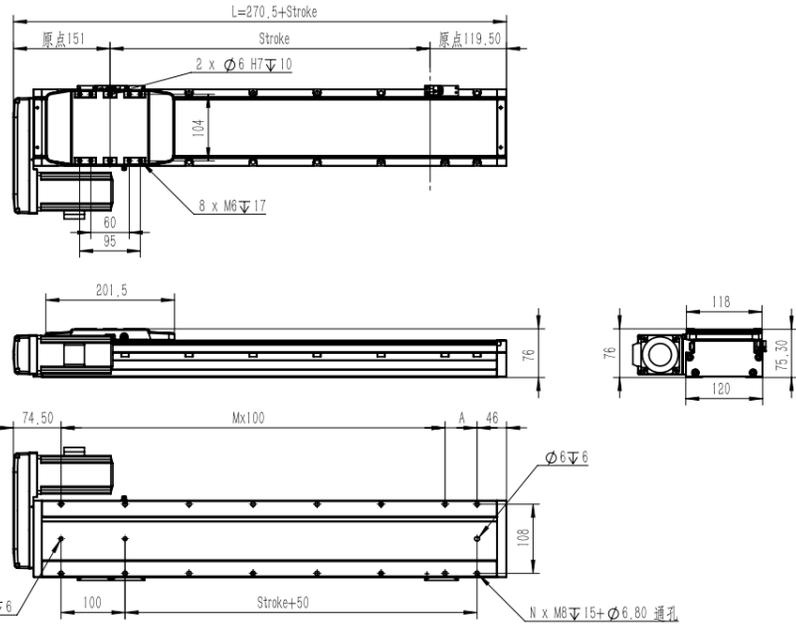


| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| L | 320.5 | 370.5 | 420.5 | 470.5 | 520.5 | 570.5 | 620.5 | 670.5 | 720.5 | 770.5 | 820.5 | 870.5 | 920.5 | 970.5 | 1020.5 | 1070.5 | 1120.5 | 1170.5 | 1220.5 | 1270.5 | 1320.5 | 1370.5 | 1420.5 | 1470.5 | 1520.5 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 |
| P | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 |
| 重量 Weight(kg) | 5.25 | 5.6 | 5.95 | 6.3 | 6.65 | 7 | 7.35 | 7.7 | 8.05 | 8.4 | 8.75 | 9.1 | 9.45 | 9.8 | 10.15 | 10.5 | 10.85 | 11.2 | 11.55 | 11.9 | 12.25 | 12.6 | 12.95 | 13.26 | 13.61 |

GSC 120 導軌內嵌式滑台模組

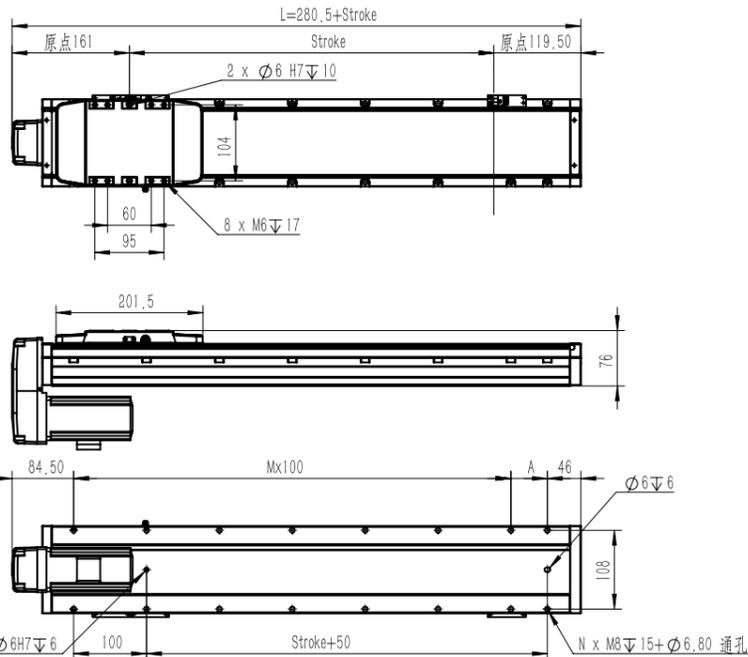
Inserted sliding platform of guide rail

GSC 120-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 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| L | 320.5 | 370.5 | 420.5 | 470.5 | 520.5 | 570.5 | 620.5 | 670.5 | 720.5 | 770.5 | 820.5 | 870.5 | 920.5 | 970.5 | 1020.5 | 1070.5 | 1120.5 | 1170.5 | 1220.5 | 1270.5 | 1320.5 | 1370.5 | 1420.5 | 1470.5 | 1520.5 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 |
| P | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 |
| 重量 Weight(kg) | 5.25 | 5.6 | 5.95 | 6.3 | 6.65 | 7 | 7.35 | 7.7 | 8.05 | 8.4 | 8.75 | 9.1 | 9.45 | 9.8 | 10.15 | 10.85 | 11.2 | 11.55 | 11.9 | 12.25 | 12.6 | 12.56 | 12.91 | 13.26 | 13.61 |

GSC 120-MD 馬達下折安裝 Down Motor Mounting

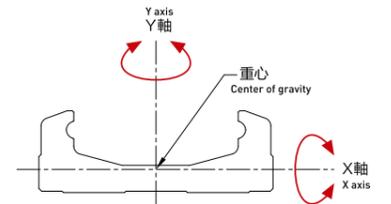
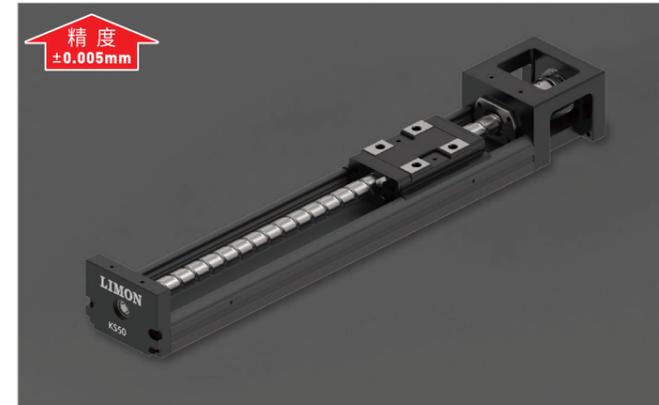


| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| L | 320.5 | 370.5 | 420.5 | 470.5 | 520.5 | 570.5 | 620.5 | 670.5 | 720.5 | 770.5 | 820.5 | 870.5 | 920.5 | 970.5 | 1020.5 | 1070.5 | 1120.5 | 1170.5 | 1220.5 | 1270.5 | 1320.5 | 1370.5 | 1420.5 | 1470.5 | 1520.5 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 |
| P | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 |
| 重量 Weight(kg) | 5.25 | 5.6 | 5.95 | 6.3 | 6.65 | 7 | 7.35 | 7.7 | 8.05 | 8.4 | 8.75 | 9.1 | 9.45 | 9.8 | 10.15 | 10.85 | 11.2 | 11.55 | 11.9 | 12.25 | 12.6 | 12.56 | 12.91 | 13.26 | 13.61 |

KS系列模組 KS series module KS 50

訂購型號代碼 Code

| | | | | | |
|------------------|----------------|---|--------------------------|---|--|
| KS 5002 | P - 200 | A | 2 - F0 | C | S0 |
| 本體型號 Item NO. | 螺桿行程 Travel | 精度等級 Accuracy Grade | 軌道長度mm Track Length | 滑座形式 Slide Types | 滑座數量 Slide Number |
| | 02 | P: 精密級 Precision Class C: 一般級 Normal Class | 150 200 250 300 | A: 標準型 Standard Type S: 輕載型 Light Load Type | 1 2 |
| | | | | 馬達連接法蘭 Motor Connection 注: 詳見P14-15. | 馬達連接法蘭 Motor Connection 注: 詳見P14-15. |
| | | | | 護蓋 Protecting Cover C: 鋁護套 Aluminum Cover B: 伸縮護套 Telescopic cover 无标记: 无护套 None: no cover | 極限開關 Limit Switch S0: 只有極限軌道 Only limit orbit S1: 松下PM-Y45 Panasonic PM-Y45 |



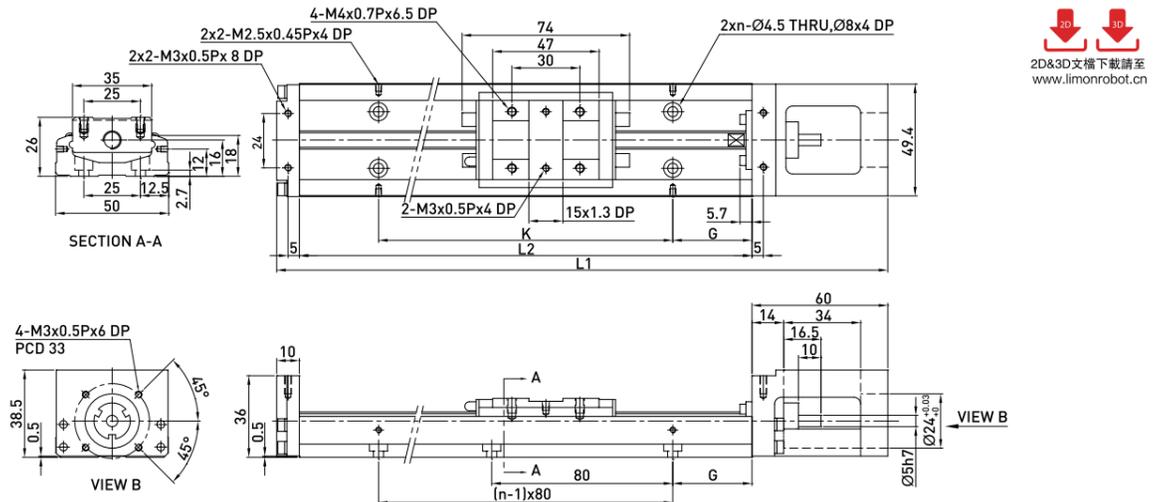
Ix: 延著X軸之慣性矩 Moment of inertia along the X-axis
Iy: 延著Y軸之慣性矩 Moment of inertia along the Y-axis

| 型號 | I _x | I _y |
|------|-----------------------|------------------------|
| KS50 | 9.6 x 10 ³ | 1.34 x 10 ⁵ |

基本規格 Basic Specification

| 型號 Code | 滾珠絲桿 Ball Screw | | | | 直線導軌 Linear Guide | | | | | | | | | | | | | | | |
|------------|---------------------------------------|-----------------|---|--|----------------------------------|-----------------------|------------------------------------|-------------------------|-------------------------|-------------------------|---------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---|---|
| | 公稱外徑 Nominal Outside Diameter (mm) | 導程 Lead (mm) | 基本動額定負荷 Basic Dynamic Rated Load (N) | 基本靜額定負荷 Basic Static Rated Load (N) | 容許靜力矩 Permissible Static Moment | | | | | | | | | | | | | | | |
| KS 5002 | P C | 8 2 | 2136 1813 | 3489 2910 | 俯仰 Pitching M _z (N·m) | | 偏擺 Deflection M _y (N·m) | | | | 滾動 Rolling M _x (N·m) | | | | | | | | | |
| | | | | | 滑座 A Slide Block A | 滑座 S Slide Block S | 滑座 A1 Slide Block A1 | 滑座 A2 Slide Block A2 | 滑座 S1 Slide Block S1 | 滑座 S2 Slide Block S2 | 滑座 A1 Slide Block A1 | 滑座 A2 Slide Block A2 | 滑座 S1 Slide Block S1 | 滑座 S2 Slide Block S2 | 滑座 A1 Slide Block A1 | 滑座 A2 Slide Block A2 | 滑座 S1 Slide Block S1 | 滑座 S2 Slide Block S2 | | |
| | | | | | 8007 | - | 12916 | / | 116 | 545 | / | / | 116 | 545 | / | / | 222 | 444 | / | / |

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

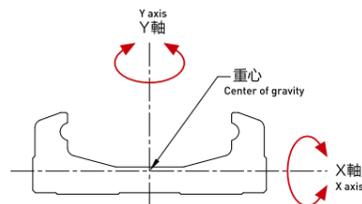


| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | K (mm) | n | 重量 (kg) | |
|-----------------|------------|-----------|-------|--------|--------|---|---------|-------|
| | | A1 滑座 | A2 滑座 | | | | A1 滑座 | A2 滑座 |
| 150 | 220 | 70 | - | 35 | 80 | 2 | 1 | - |
| 200 | 270 | 120 | 55 | 20 | 160 | 3 | 1.2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

KS 60 KS系列模組 KS series module

訂購型號代碼 Code

| | | | | | | | |
|------------------|---|--|--|----------------------|----------------------------|---|--|
| KS 6005 | P | - 200 | A | 2 | - F0 | C | S0 |
| 本體型號 Item NO. | 螺桿導程 Travel | 精度等級 Accuracy Grade | 軌道長度mm Track Length | 滑座數量 Slide Number | 馬達連接法蘭 Motor Connection | 護蓋 Protecting Cover | 極限開關 Limit Switch |
| 05 10 | P: 精密級 Precision Class C: 一般級 Normal Class | 150 200 300 400 500 600 | A: 標準型 Standard Type S: 輕載型 Light Load Type | 1 2 | 注: 詳見P14-15. | C: 鋁護套 Aluminum Cover B: 伸縮護套 Telescopic cover 无标记: 无护套 None: no cover | S0: 只有極限軌道 Only limit orbit S1: 松下PM-Y45 Panasonic PM-Y45 |



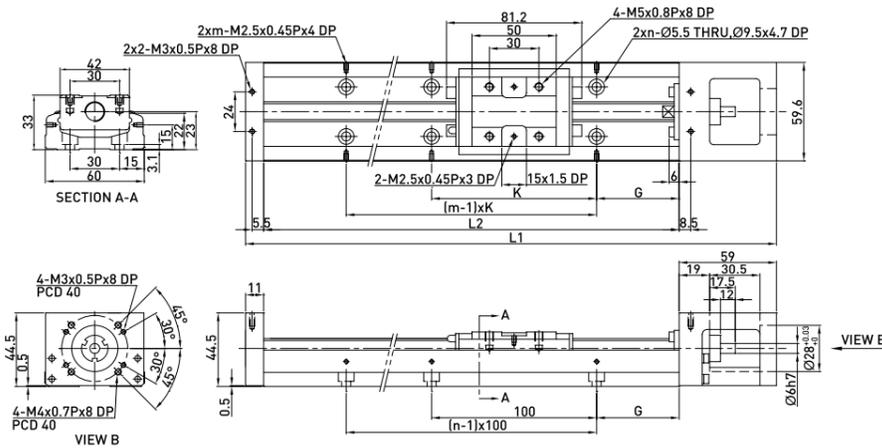
I_x : 延著X軸之慣性矩 Moment of inertia along the X-axis
 I_y : 延著Y軸之慣性矩 Moment of inertia along the Y-axis
 慣性矩 單位:mm⁴

| 型號 | I_x | I_y |
|------|---------------------|---------------------|
| KS60 | 2.056×10^4 | 2.802×10^3 |

基本規格 Basic Specification

| 型號 Code | 滾珠絲桿 Ball Screw | | 直線導軌 Linear Guide | | | | | | | | | | | | | | | | | | |
|------------|---------------------------------------|-----------------|---|--|---------------------------------|-------|------|---------------------------|-------|-----|-----|------------------------|-----|-----|-----|----|-----|-----|-----|-----|-----|
| | 公稱外徑 Nominal Outside Diameter (mm) | 導程 Lead (mm) | 基本動額定負荷 Basic Dynamic Rated Load (N) | 基本靜額定負荷 Basic Static Rated Load (N) | 容許靜力矩 Permissible Static Moment | | | | | | | | | | | | | | | | |
| | | | | | 俯仰 Pitching M_p (N·m) | | | 偏擺 Deflection M_v (N·m) | | | | 滾動 Rolling M_r (N·m) | | | | | | | | | |
| KS 6005 | P | 12 | 5 | 3744 | 6234 | 13230 | 7173 | 21462 | 11574 | 152 | 760 | 72 | 367 | 152 | 760 | 72 | 367 | 419 | 838 | 241 | 482 |
| KS 6010 | P | 12 | 10 | 2410 | 3743 | 13230 | 7173 | 21462 | 11574 | 152 | 760 | 72 | 367 | 152 | 760 | 72 | 367 | 419 | 838 | 241 | 482 |

| 型號 Code | 軌道長度 Length of Rail (mm) | 重複定位精度 (mm) Repetitive Accuracy | | 行走平行度 (mm) Traveling Parallelism | | 最大啟動扭力 (N·cm) Max. Driving Torque | |
|------------|-----------------------------|------------------------------------|--------|-------------------------------------|---|--------------------------------------|---|
| | | P | C | P | C | P | C |
| KS60 | 150 | ±0.003 | ±0.005 | 0.010 | / | 15 | 7 |
| | 200 | | | | | | |
| | 300 | | | | | | |
| | 400 | ±0.003 | ±0.005 | 0.015 | / | 15 | 7 |
| | 500 | | | | | | |
| | 600 | | | | | | |



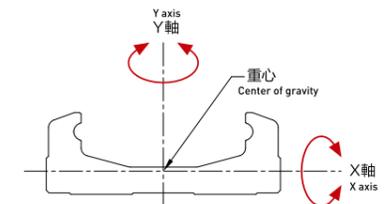
2D&3D文檔下載請至
www.limonrobot.cn

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

KS系列模組 KS series module KS 86

訂購型號代碼 Code

| | | | | | | | |
|------------------|---|--|--|----------------------|----------------------------|---|--|
| KS 8610 | P | - 200 | A | 2 | - F0 | C | S0 |
| 本體型號 Item NO. | 螺桿導程 Travel | 精度等級 Accuracy Grade | 軌道長度mm Track Length | 滑座數量 Slide Number | 馬達連接法蘭 Motor Connection | 護蓋 Protecting Cover | 極限開關 Limit Switch |
| 10 20 | P: 精密級 Precision Class C: 一般級 Normal Class | 340 440 540 640 740 940 | A: 標準型 Standard Type S: 輕載型 Light Load Type | 1 2 | 注: 詳見P14-15. | C: 鋁護套 Aluminum Cover B: 伸縮護套 Telescopic cover 无标记: 无护套 None: no cover | S0: 只有極限軌道 Only limit orbit S1: 松下PM-Y45 Panasonic PM-Y45 |



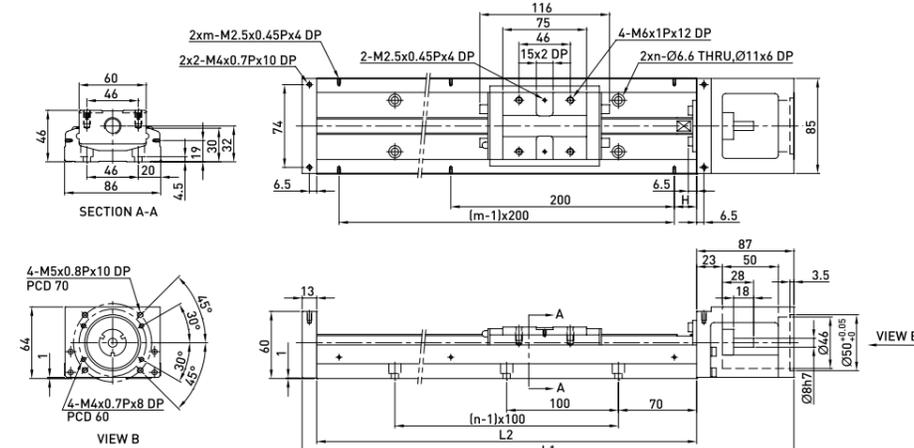
I_x : 延著X軸之慣性矩 Moment of inertia along the X-axis
 I_y : 延著Y軸之慣性矩 Moment of inertia along the Y-axis
 慣性矩 單位:mm⁴

| 型號 | I_x | I_y |
|------|---------------------|---------------------|
| KS86 | 7.445×10^4 | 1.134×10^4 |

基本規格 Basic Specification

| 型號 Code | 滾珠絲桿 Ball Screw | | 直線導軌 Linear Guide | | | | | | | | | | | | | | | | | | |
|------------|---------------------------------------|-----------------|---|--|---------------------------------|-------|-------|---------------------------|-------|-----|------|------------------------|------|-----|------|-----|------|------|------|-----|------|
| | 公稱外徑 Nominal Outside Diameter (mm) | 導程 Lead (mm) | 基本動額定負荷 Basic Dynamic Rated Load (N) | 基本靜額定負荷 Basic Static Rated Load (N) | 容許靜力矩 Permissible Static Moment | | | | | | | | | | | | | | | | |
| | | | | | 俯仰 Pitching M_p (N·m) | | | 偏擺 Deflection M_v (N·m) | | | | 滾動 Rolling M_r (N·m) | | | | | | | | | |
| KS 8610 | P | 15 | 10 | 7144 | 12642 | 31458 | 21051 | 50764 | 29475 | 622 | 3050 | 228 | 1309 | 622 | 3050 | 228 | 1309 | 1507 | 3014 | 847 | 1694 |
| KS 8620 | P | 15 | 20 | 4645 | 7655 | 31458 | 21051 | 50764 | 29475 | 622 | 3050 | 228 | 1309 | 622 | 3050 | 228 | 1309 | 1507 | 3014 | 847 | 1694 |

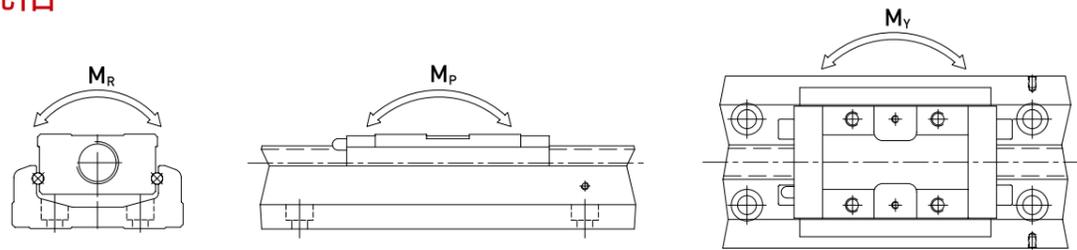
| 型號 Code | 軌道長度 Length of Rail (mm) | 重複定位精度 (mm) Repetitive Accuracy | | 行走平行度 (mm) Traveling Parallelism | | 最大啟動扭力 (N·cm) Max. Driving Torque | |
|------------|-----------------------------|------------------------------------|--------|-------------------------------------|---|--------------------------------------|----|
| | | P | C | P | C | P | C |
| KS 86 | 340 | ±0.003 | ±0.005 | 0.015 | / | 15 | 10 |
| | 440 | | | | | | |
| | 540 | | | | | | |
| | 640 | ±0.003 | ±0.005 | 0.020 | / | 17 | 10 |
| | 740 | | | | | | |
| | 940 | | | | | | |



2D&3D文檔下載請至
www.limonrobot.cn

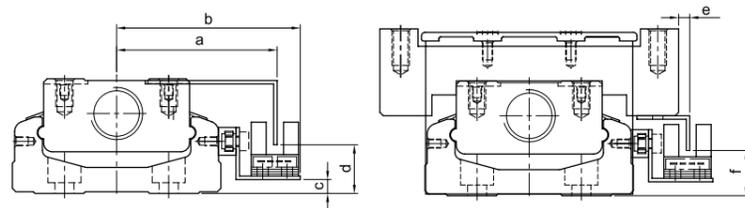
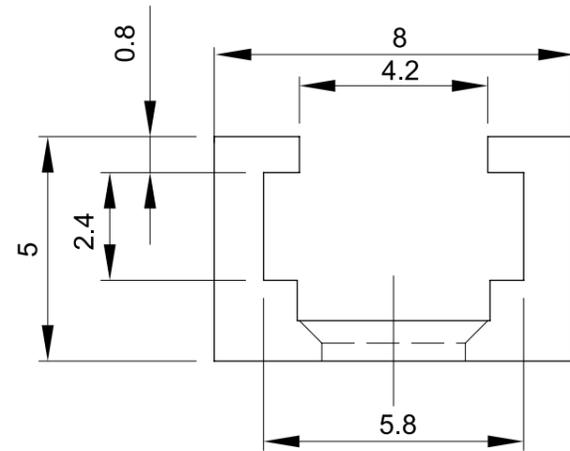
| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | H (mm) | n | m | 重量 (kg) | |
|-----------------|---------------|-----------|-------|--------|---|---|---------|-------|
| | | A1 滑座 | A2 滑座 | | | | A1 滑座 | A2 滑座 |
| 340 | 440 | 210 | 100 | 70 | 3 | 2 | 5.7 | 6.5 |
| 440 | 540 | 310 | 200 | 20 | 4 | 3 | 6.9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

負載規格



極限開關

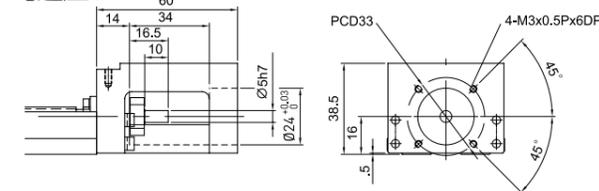
極限軌道



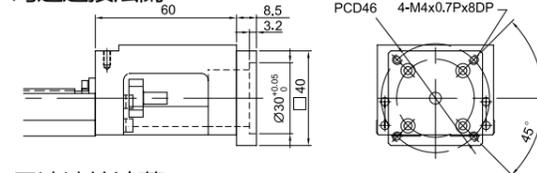
| 尺寸 | a | b | c | d | e | f |
|------|------|------|---|------|------|----|
| KS50 | 41.3 | 48 | 1 | 10.5 | 10.2 | 11 |
| KS60 | 46.2 | 52.8 | 4 | 14 | 3.2 | 13 |
| KS86 | 59 | 65.7 | 8 | 18 | 3 | 18 |

KS50

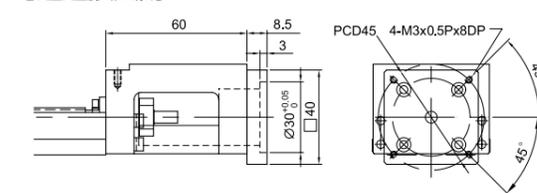
馬達座 F0



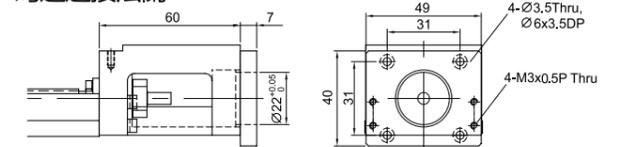
馬達連接法蘭 F1



馬達連接法蘭 F2

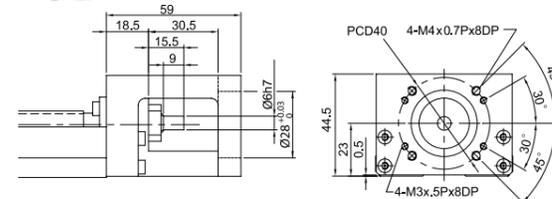


馬達連接法蘭 F3

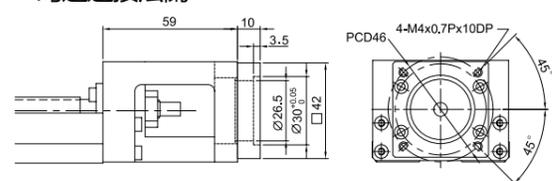


KS60

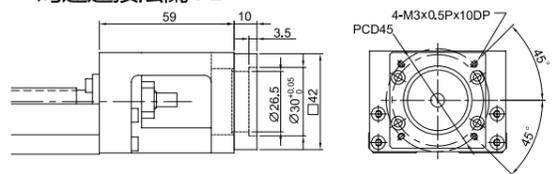
馬達座 F0



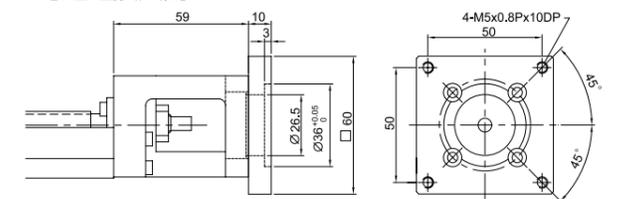
馬達連接法蘭 F1



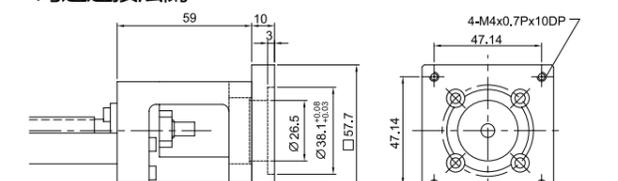
馬達連接法蘭 F2



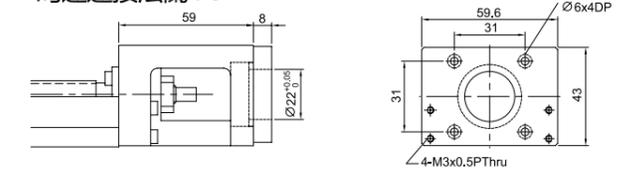
馬達連接法蘭 F3



馬達連接法蘭 F4



馬達連接法蘭 F5

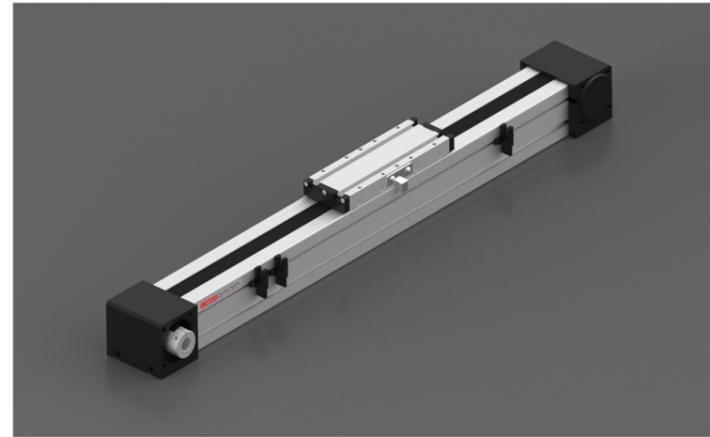


ITO 40/60/80/100 歐標半密式同步帶驅動型 Belt Driven Linear Actuator

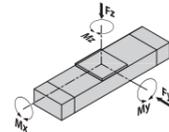
訂購型號代碼 Code

| | | | | | | | | |
|---------------|--------------------|--------------------------------|---------------------------------|--|------------------------|--------------------------------------|---------------------------------|---------------------------|
| 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 未標注: 標準滑塊 L: 加長滑塊 | 馬達方向 Motor Mounting Position | 輔助滑塊 Auxiliary Block 未標注: 標準滑塊 DB: 輔助滑塊 | 減速比 Reduction ratio | 馬達廠牌、功率 Motor Brand, Power Output | 限位傳感器數量 Photoelectric Sensor | 特注式樣 Special Order No. |
| 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P144.



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



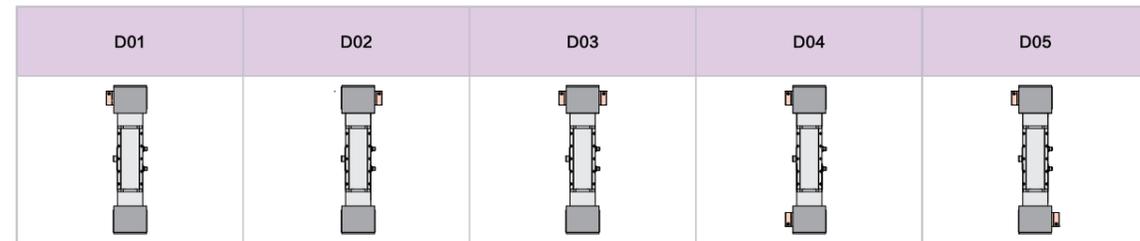
| 規格 Type | 40 | 60 | 60-L | 80 | 80-L | 100 | 100-L |
|--------------|-----|------|------|------|------|------|-------|
| ■ F(y) (N) | 993 | 2457 | 5235 | 3131 | 7277 | 4375 | 11675 |
| ■ F(z) (N) | 993 | 3375 | 5335 | 5120 | 7277 | 7860 | 11675 |
| ■ M(x) (N·m) | 6 | 22 | 40 | 75 | 75 | 115 | 136 |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

除了滿足最大負載和力矩外，還必須滿足以下公式：

All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

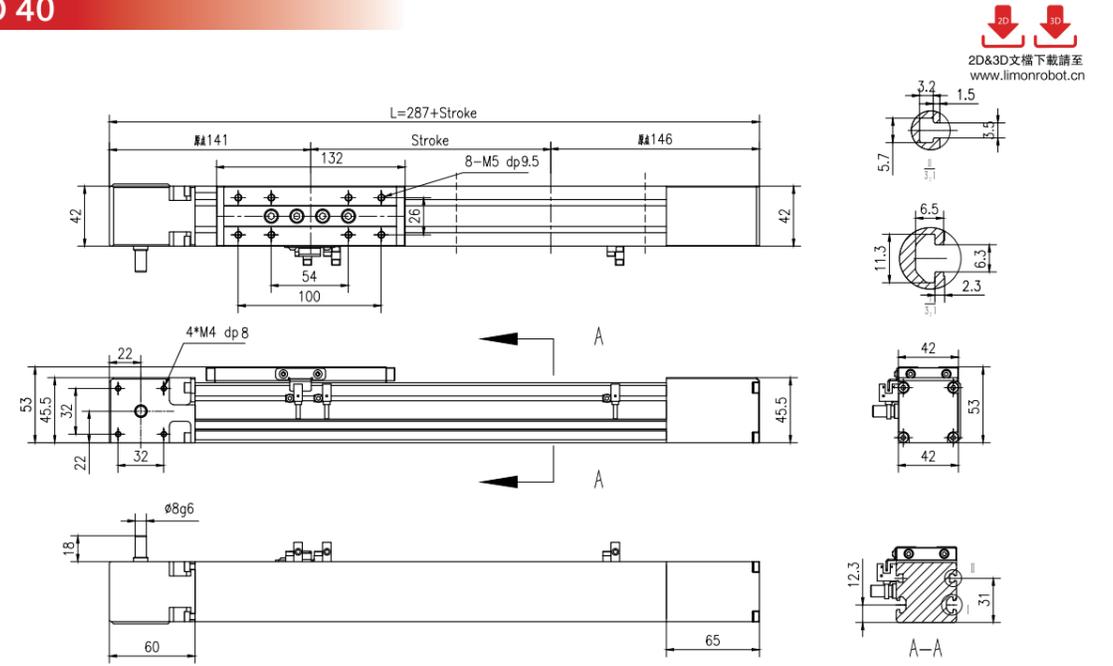
| ITO | | 40 | 60 | 60-L | 80 | 80-L | 100 | 100-L |
|------------------------------|--|---------------------|---------|---------------------|-----------|------|-----------|-------|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.05 | | | | | | |
| | 皮帶輪導程 Pulley Lead (mm) | 99 | 130 | | 176 | | 224 | |
| | 皮帶型號 Belt Type | 3M-10 | 5M-25 | | 8M-30 | | 8M-50 | |
| | 最高速度 Maximum Speed (mm/s) | 3000 | 5000 | | 5000 | | 5000 | |
| | 最大可搬重量 Maximum Payload | 10 | 30 | 45 | 50 | 75 | 80 | 120 |
| 基本規格 Basic Specification | 最大空載扭矩 Max. No-load Driving Torque (N·m) | 0.1 | 0.35 | 0.35 | 0.5 | 0.5 | 0.9 | 0.9 |
| | 最大扭矩 Max. Driving Torque (N·m) | 6 | 13.3 | 13.3 | 49.8 | 49.8 | 105.7 | 105.7 |
| | 標準行程 Stroke (mm) | 100-1500mm/100pitch | | 100-4000mm/100pitch | | | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 100 | 200/400 | | 400/750 | | 750/1000 | |
| 高剛性直線滑軌 Linear Guide | 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.

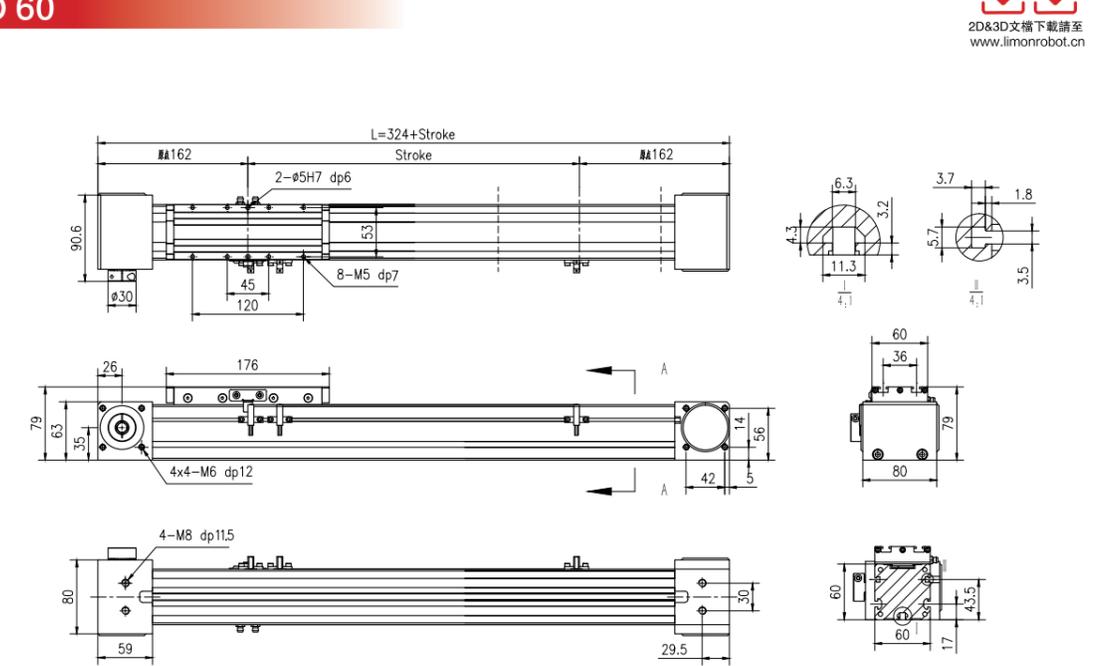
歐標半密式同步帶驅動型 ITO 40/60/80/100 Belt Driven Linear Actuator

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

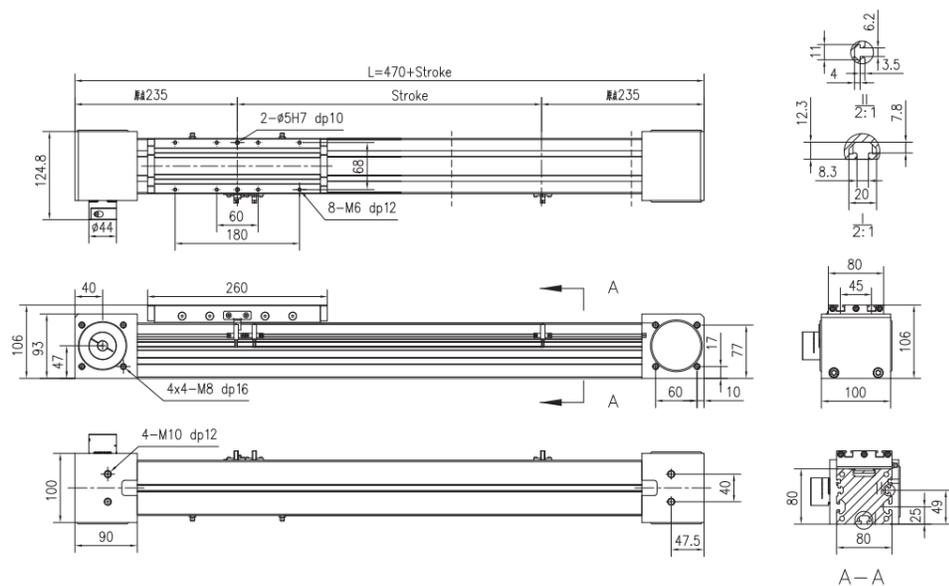


| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

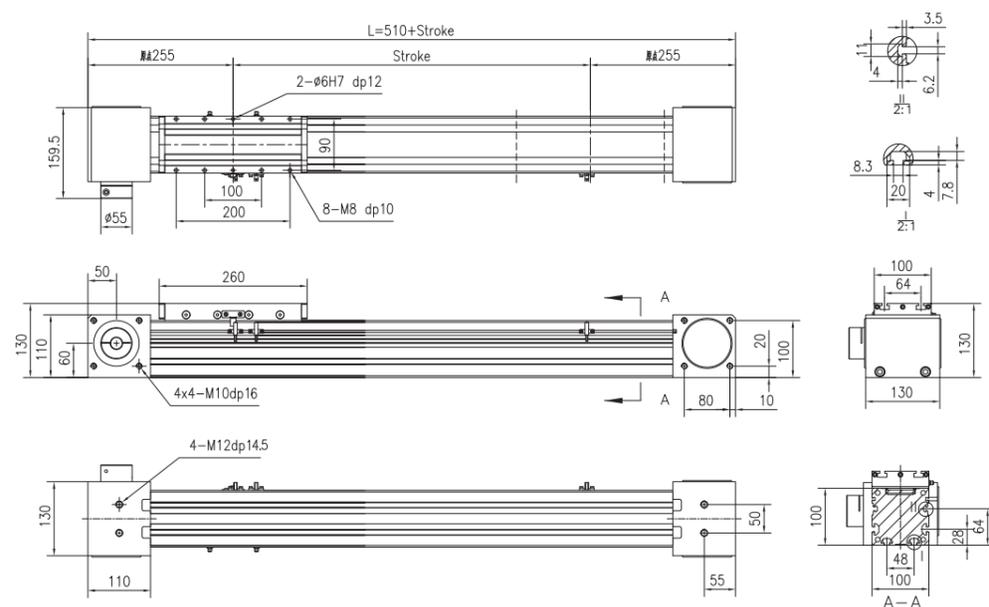
2D&3D文檔下載請至
www.limonrobot.cn



| 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) | 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

2D&3D文檔下載請至
www.limonrobot.cn

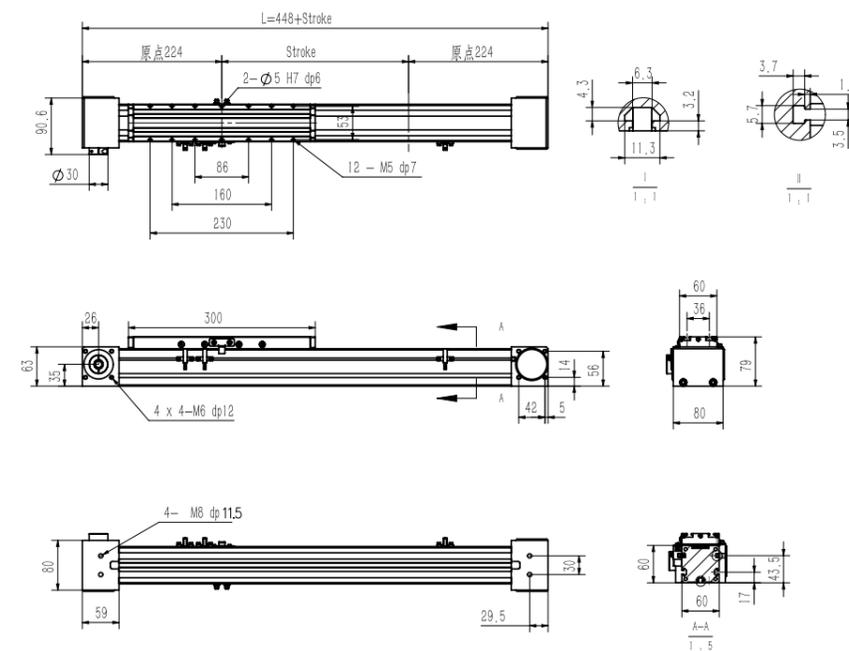


| 行程Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

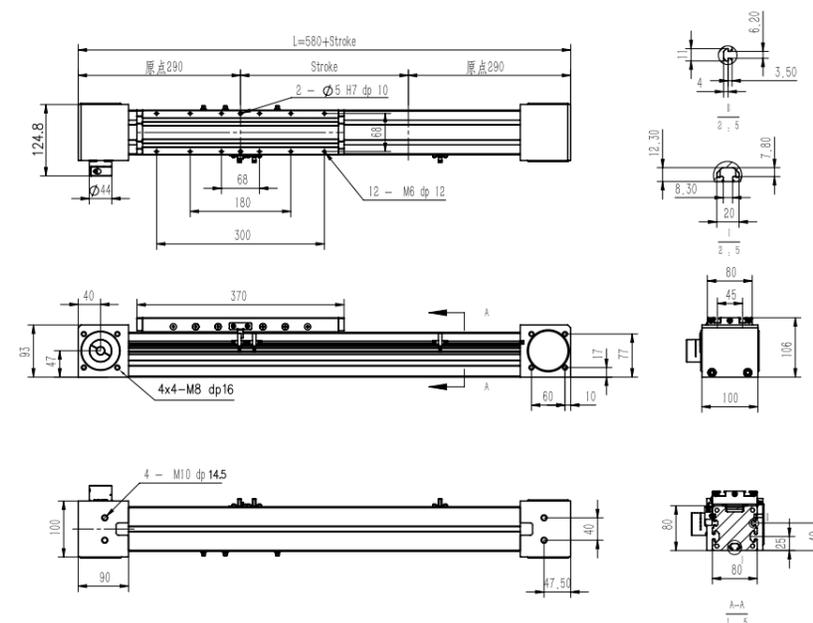
2D&3D文檔下載請至
www.limonrobot.cn



| 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 | 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

2D&3D文檔下載請至
www.limonrobot.cn

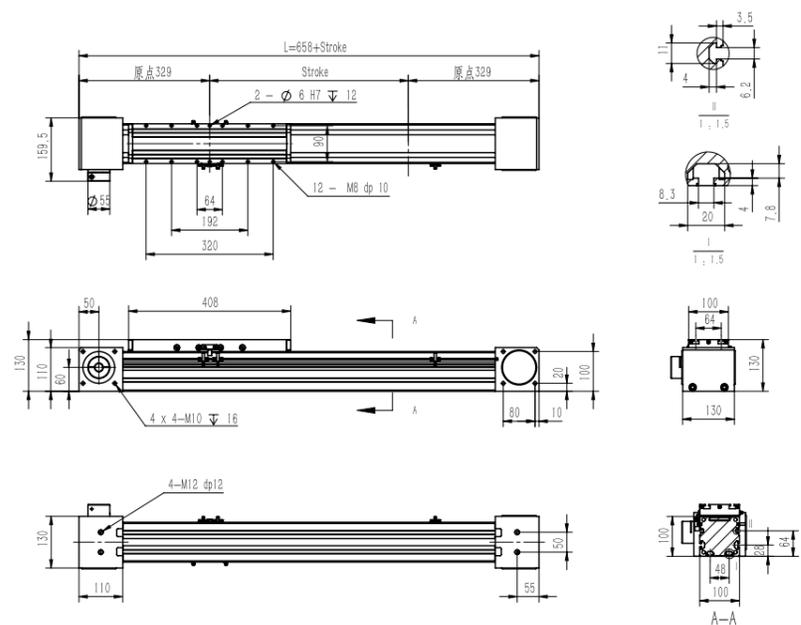


| 行程Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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



| 行程Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L | 758 | 858 | 958 | 1058 | 1158 | 1258 | 1358 | 1458 | 1558 | 1658 | 1758 | 1858 | 1958 | 2058 | 2158 | 2258 | 2358 | 2458 | 2558 | 2658 |
| 重量 Weight (kg) | 16.5 | 17.8 | 19.1 | 20.4 | 21.7 | 23 | 24.3 | 25.6 | 26.9 | 28.2 | 29.5 | 30.8 | 32.1 | 33.4 | 34.7 | 36 | 37.3 | 38.6 | 39.9 | 41.2 |
| 行程Stroke (mm) | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 |
| L | 2758 | 2858 | 2958 | 3058 | 3158 | 3258 | 3358 | 3458 | 3558 | 3658 | 3758 | 3858 | 3958 | 4058 | 4158 | 4258 | 4358 | 4458 | 4558 | 4658 |
| 重量 Weight (kg) | 42.5 | 43.8 | 45.1 | 46.4 | 47.7 | 49 | 50.3 | 51.6 | 52.9 | 54.2 | 55.5 | 56.8 | 58.1 | 59.4 | 60.7 | 62 | 63.3 | 64.6 | 65.9 | 67.2 |

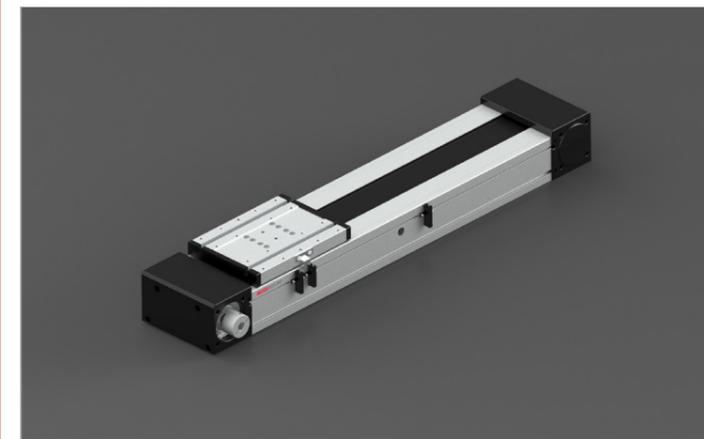
歐標半密式同步帶驅動型 ITO 160

Belt Driven Linear Actuator

訂購型號代碼 Code

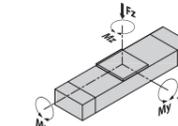
| | | | | | | | | |
|---------------|--------------------|--------------------------------|--|---|--|--|--|---------------------------|
| ITO160 | 500 | L | D01 | DB <small>注</small> | G5 | M40 | P3 | A001 |
| 本體型號 Item NO. | 行程 Stroke | 是否加長滑塊 未標注: 標準滑塊 L: 加長滑塊 | 馬達方向 Motor Mounting Position | 輔助滑塊 Auxiliary Block 未標注: 單滑塊 DB: 輔助滑塊 | 減速比 Reduction ratio | 馬達廠牌、功率 Motor Brand, Power Output | 限位傳感器數量 Photoelectric Sensor | 特注式樣 Special Order No. |
| ITO160 | 100-4000, 間隔Gap100 | | D01 D02 D03 D04 D05 D06 | | G3 1:3 G4 1:4 G5 1:5 G7 1:7 G10 1:10 <small>未標記: 無減速比</small> | 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枚 1PC P2: 2枚 2PCS P3: 3枚 3PCS <small>未標記: 無 No Mark: No Sensor</small> | |

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩

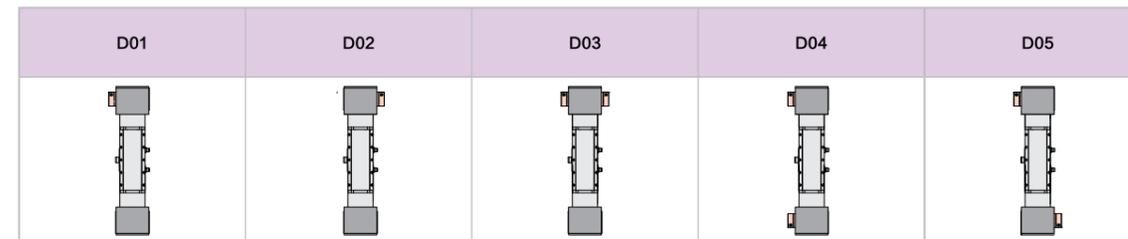
Max Permissible Forces And Torques



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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

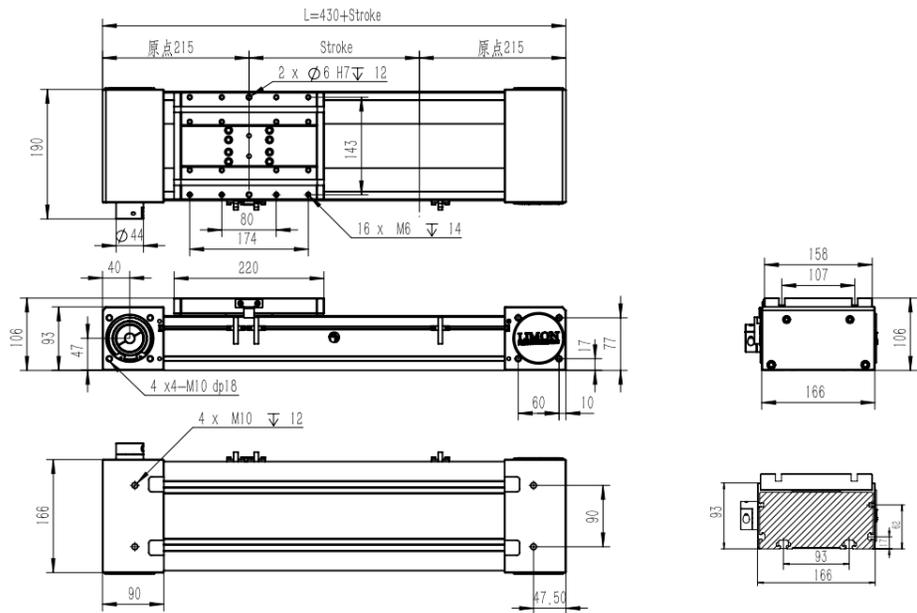
| ITO | | 160 | |
|--------------------------------|---|------------------------|-----|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.05 | |
| | 皮帶輪導程 Pulley Lead (mm) | 176 | |
| | 皮帶型號 Belt Type | 8M-70 | |
| | 最高速度 Maximum Speed (mm/s) | 5000 | |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 160 |
| | | 垂直使用 Vertical (kg) | 120 |
| | 最大空載扭矩 Max. No-load Driving Torque (N·m) | 1.2 | |
| 最大扭矩 Max. Driving Torque (N·m) | 112.7 | | |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 100-4000mm / 100 Pitch | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 750W-1000W | |
| | 高剛性直線滑軌 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 relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

ITO 160 歐標半密式同步帶驅動型

Belt Driven Linear Actuator

ITO 160



| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 |

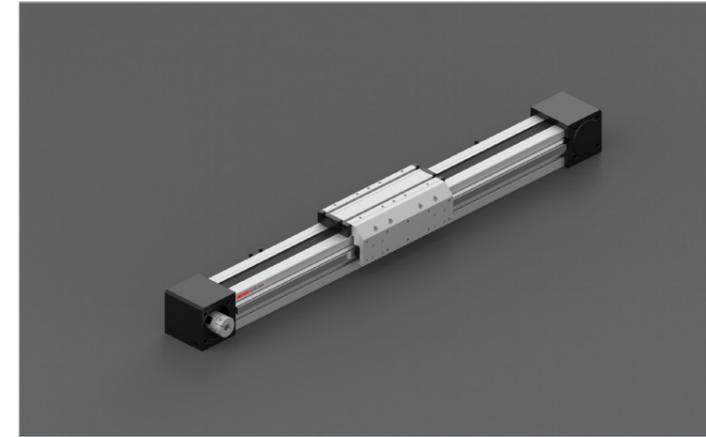
歐標半密式同步帶驅動側軌加強型 HTO 80/100

Belt Driven Linear Actuator

訂購型號代碼 Code

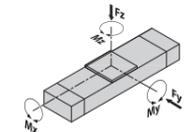
| | | | | | | | | |
|---------------|-------------------|---------------------|---|---------------------|--|--|--|-------------|
| HTO80 | 500 | L | D01 | DB | G5 | M40 | P3 | A001 |
| 本體型號 Item NO. | 行程 Stroke | 是否加長滑塊 | 馬達方向 | 輔助滑塊 | 減速比 | 馬達廠牌、功率 | 限位傳感器數量 | 特注式樣 |
| HTO80 | 100-4000,間隔Gap100 | 未標注: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 | |

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩

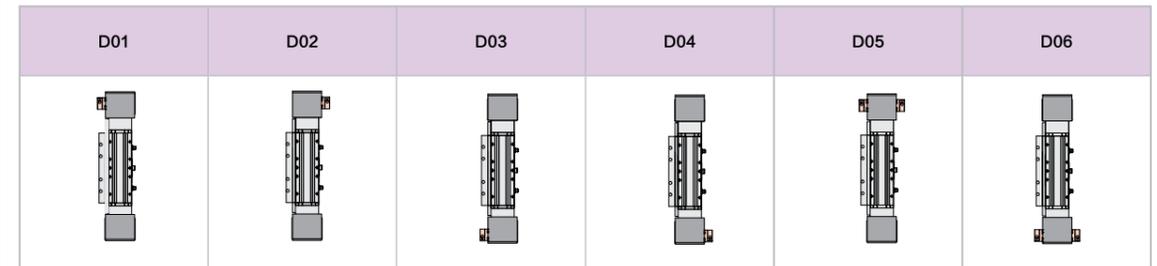
Max Permissible Forces And Torques



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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| 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 | |
| | 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) | | | | |

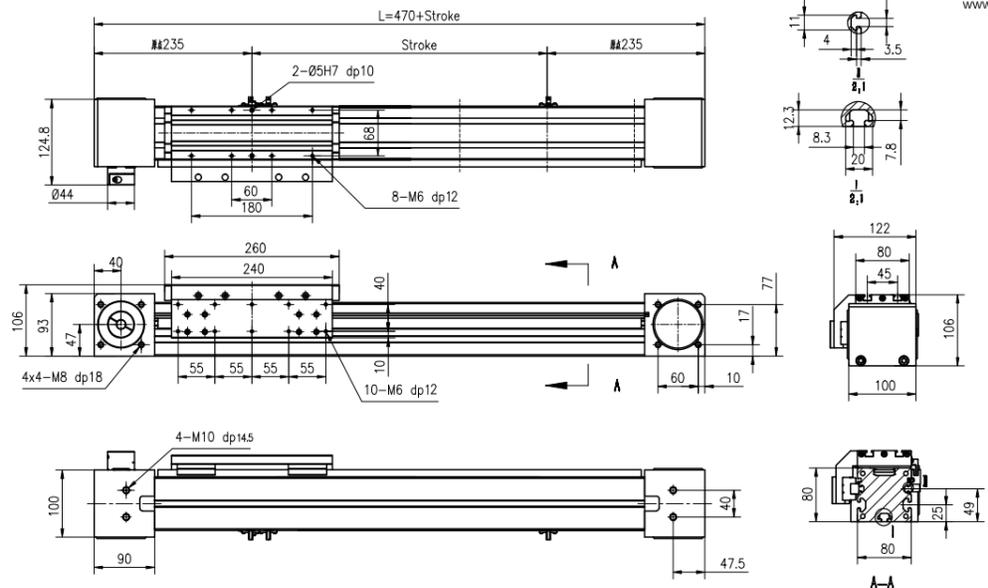
#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。

#Note1: Data changes relevently according to different torque and accelarated 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

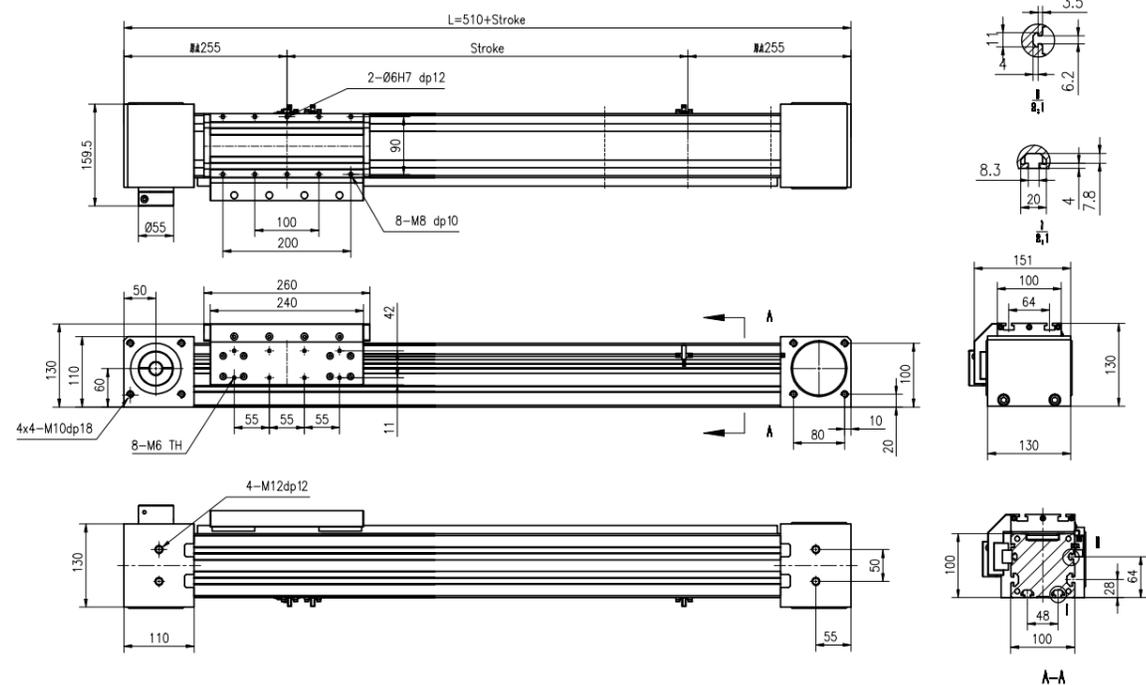
Belt Driven Linear Actuator

HTO 80



| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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

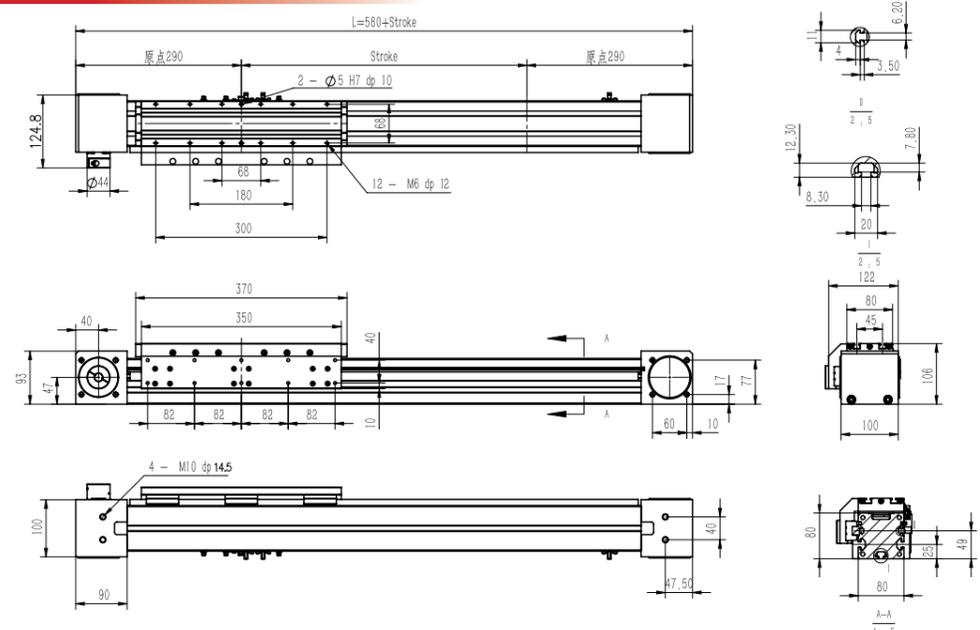


| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 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 |

歐標半密式同步帶驅動側軌加強型 HTO 80/100

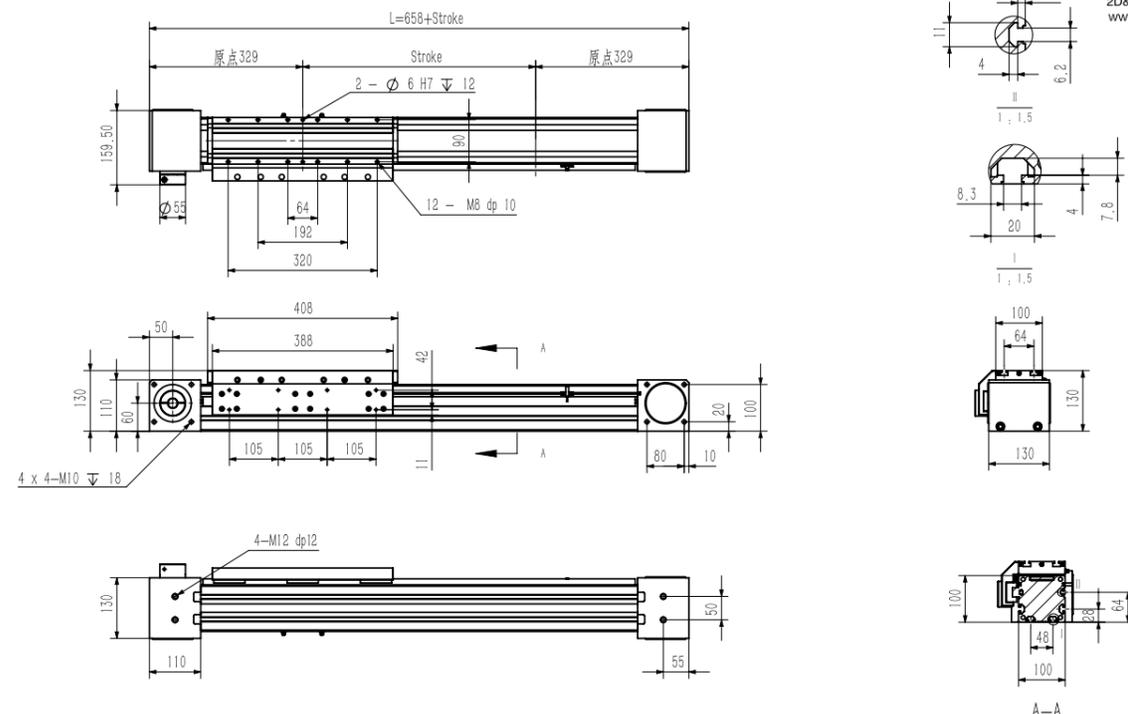
Belt Driven Linear Actuator

HTO 80-L



| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
| L | 680 | 780 | 880 | 980 | 1080 | 1180 | 1280 | 1380 | 1480 | 1580 | 1680 | 1780 | 1880 | 1980 | 2080 | 2180 | 2280 | 2380 | 2480 | 2580 |
| 重量 Weight (kg) | 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



| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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

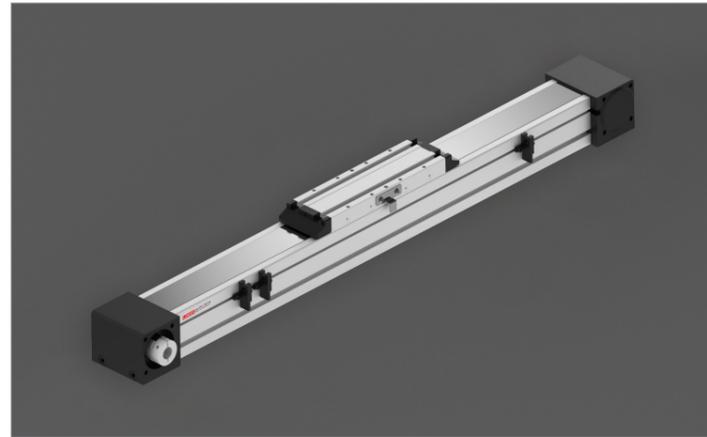
歐標全密式同步帶驅動型 ITC 60/80/100

Belt Driven Linear Actuator

訂購型號代碼 Code

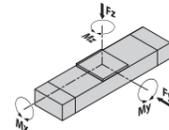
| | | | | | | | | |
|---------------|--------------------|----------------------|------------------------------|----------------------------|---|--|---|------------------------|
| ITC60 | 500 | L | D01 | DB <small>注</small> | G5 | M40 | P3 | A001 |
| 本體型號 Item NO. | 行程 Stroke | 是否加長滑塊 | 馬達方向 Motor Mounting 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P144.



最大動態力和力矩

Max Permissible Forces And Torques

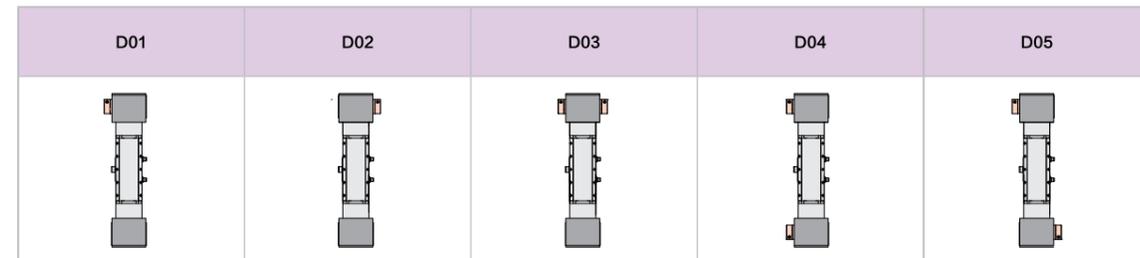


| 規格 Type | 60 | 60L | 80 | 80L | 100 | 100L |
|-------------|------|------|------|------|------|-------|
| ■ F(y) (N) | 2457 | 5235 | 3131 | 7277 | 4375 | 11675 |
| ■ F(z) (N) | 3375 | 5335 | 5120 | 7277 | 7860 | 11675 |
| ■ M(x)(N·m) | 22 | 40 | 75 | 75 | 115 | 135 |
| ■ M(y)(N·m) | 78 | 231 | 210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

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

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

馬達安裝方向 Motor Mounting Position Version



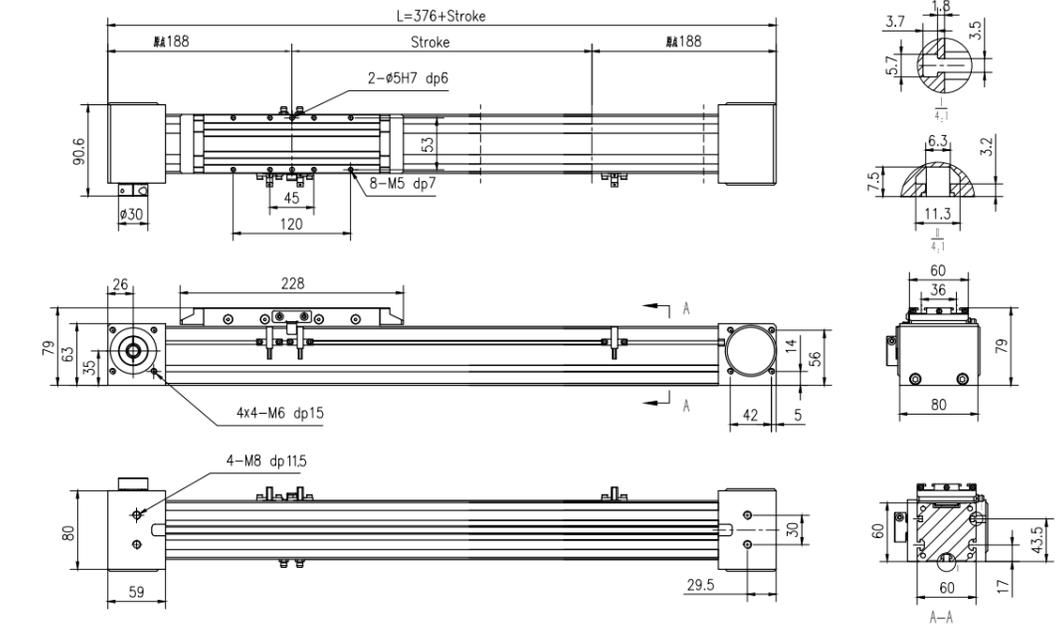
基本規格 Basic Specification

| ITC | | 60 | 60L | 80 | 80L | 100 | 100L | |
|--------------------------------|---|----------------------|------|------|------------|-------|------|------------|
| 技術參數 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 |
| | 最大空載扭距 Max. No-load Driving Torque (N·m) | 0.35 | 0.35 | 0.5 | 0.5 | 0.9 | 0.9 | |
| 最大扭距 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。

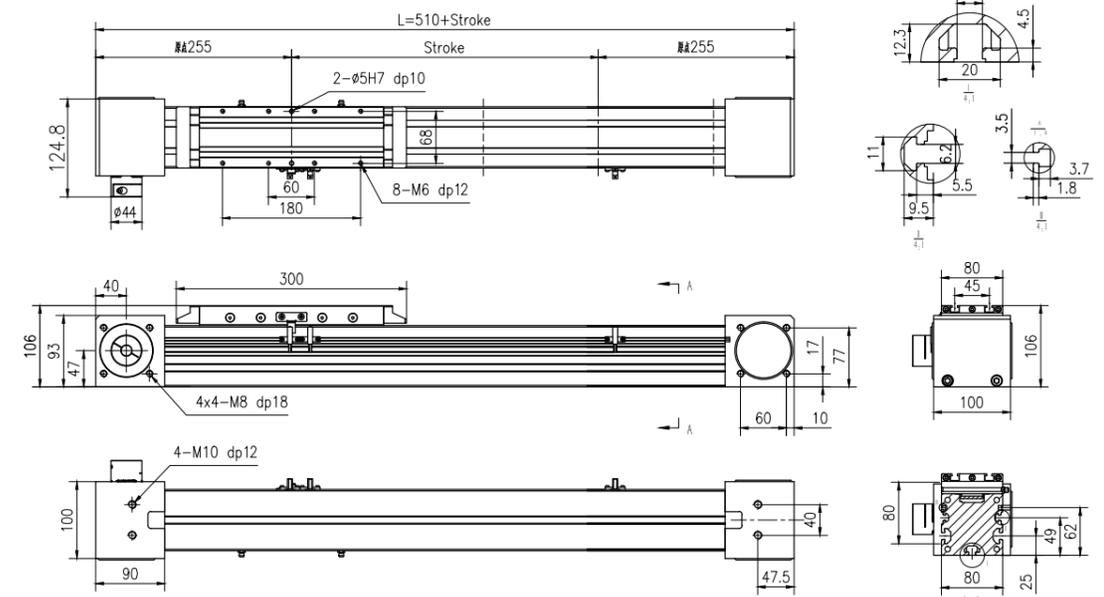
#Note1: Date changes relevently according to different torque and accelerated speed. Please refer to the LIMON calculate software.

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



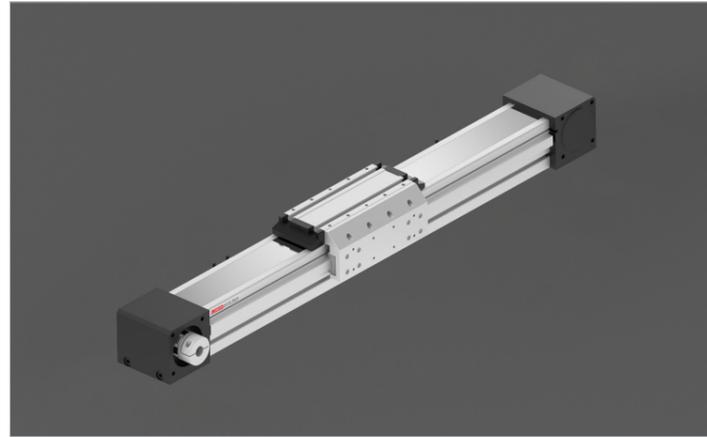
| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

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

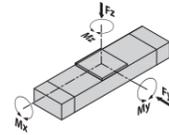
訂購型號代碼 Code

| | | | | | | | | |
|---------------|--------------------|----------------------|------------------------------|----------------------------|---|---|---|------------------------|
| 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 | 未標注: 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P144.



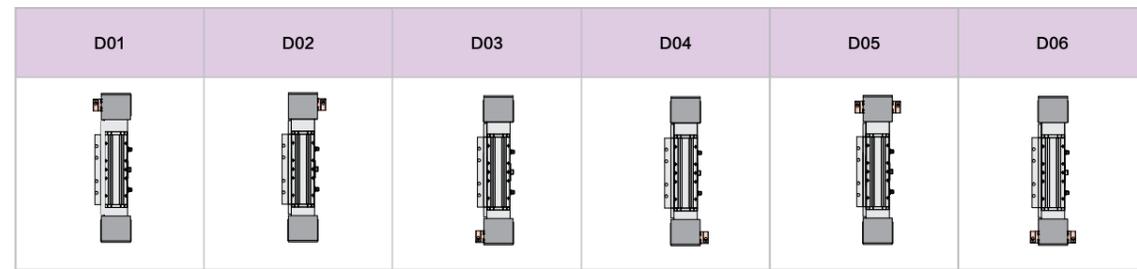
最大動態力和力矩 Max Permissible Forces And Torques



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

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

馬達安裝方向 Motor Mounting Position Version



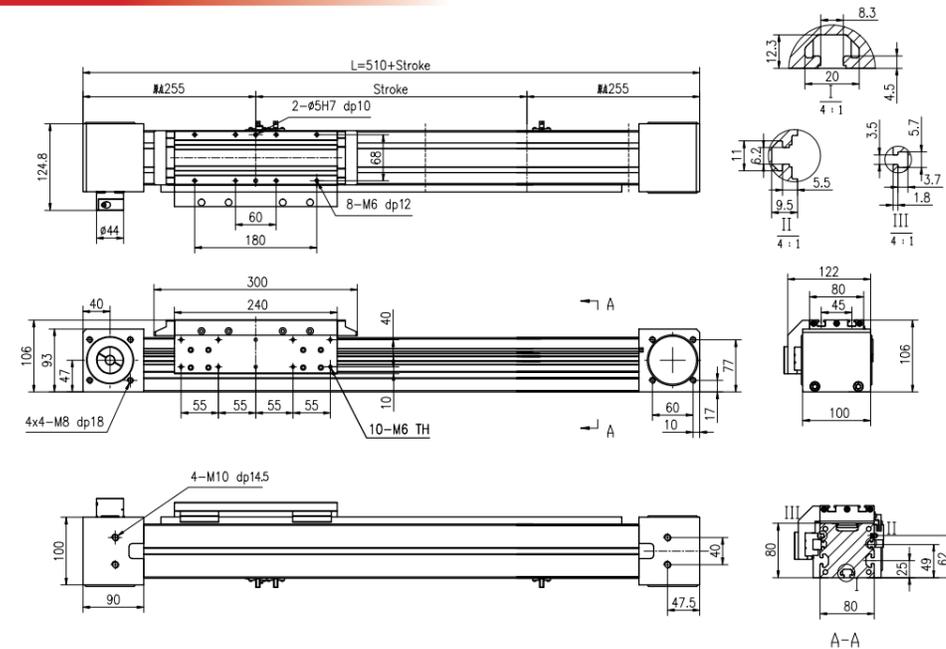
基本規格 Basic Specification

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

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

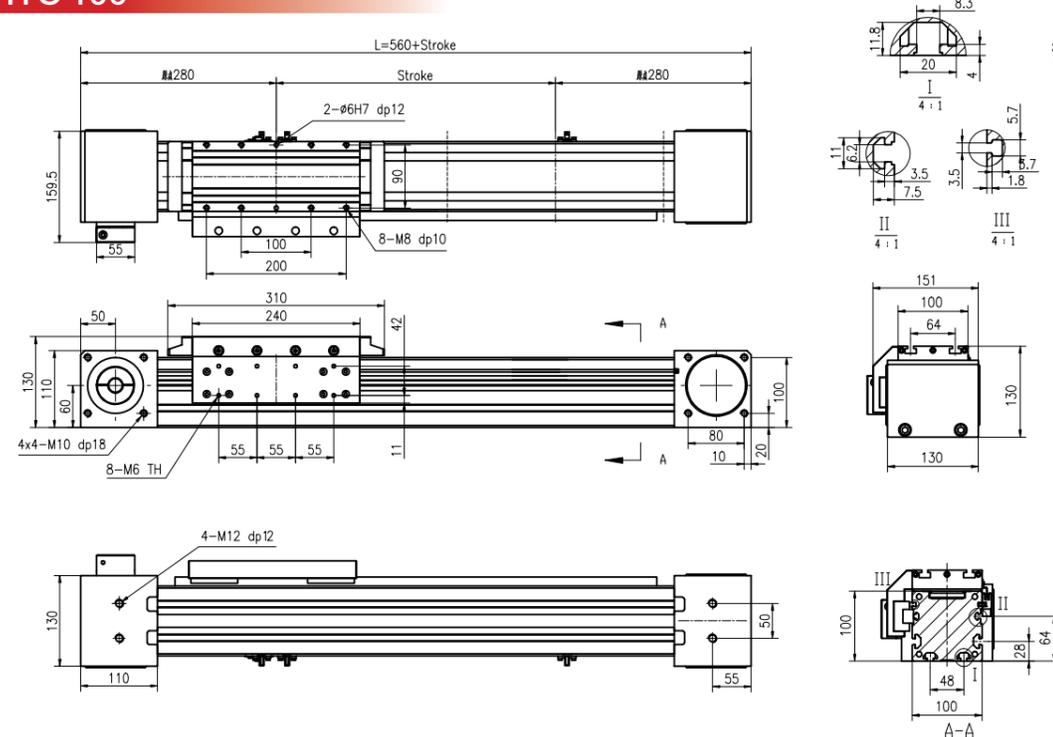
HTC 80/100 歐標全密式同步帶驅動側軌加強型 Belt Driven Linear Actuator

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 |

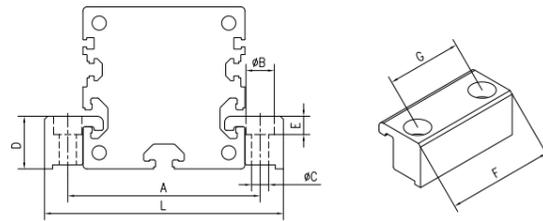
HTC 100



| 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 |

ITO/ HTO / ITC / HTC 安裝附件 Accessories

安裝塊尺寸圖 Dimensional Drawing of Jointing Block



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

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

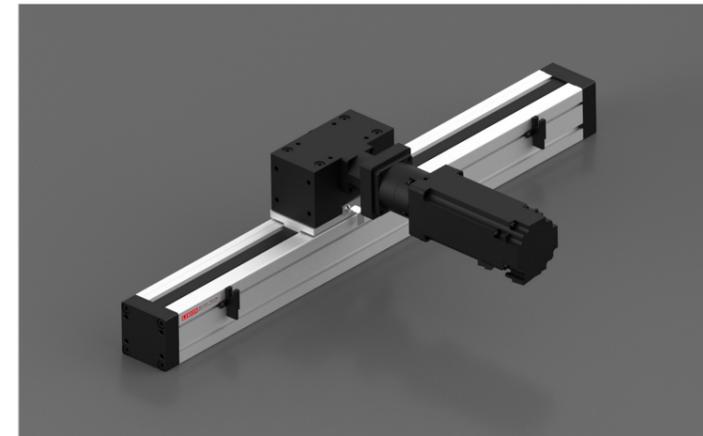
歐標Z軸提升專用型 ITZ 60

Belt Driven Linear Actuator

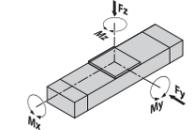
訂購型號代碼 Code

| | | | | | | | |
|---------------|-------------------|------------------------------|--|--|---|---|------------------------|
| ITZ60 | 500 | D01 | DB <small>注</small> | G5 | M40 | P3 | A001 |
| 本體型號 Item NO. | 行程 Stroke | 馬達方向 Motor Mounting Position | 輔助滑塊 Auxiliary Block 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P144.



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

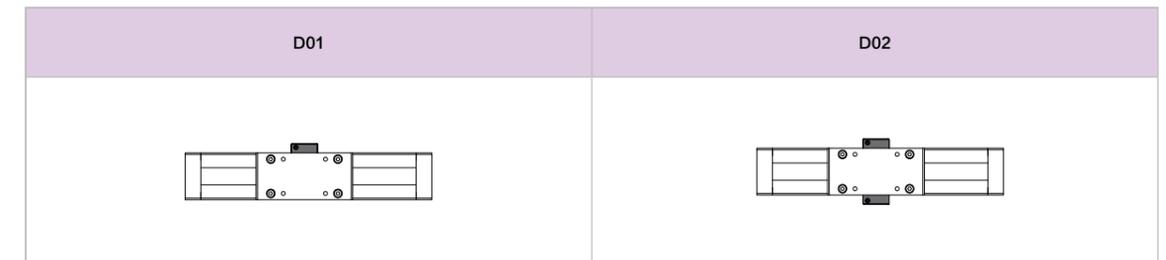


| 規格 Type | 60 |
|------------|------|
| F(y) (N) | 999 |
| F(z) (N) | 2684 |
| M(x) (N·m) | 20 |
| M(y) (N·m) | 61 |
| M(z) (N·m) | 61 |

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| ITZ | | 60 |
|------------------------------|---|------------|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.05 |
| | 皮帶輪導程 Pulley Lead (mm) | 130 |
| | 皮帶型號 Belt Type | 5M-25 |
| | 最高速度 Maximum Speed (mm/s) | 1500 |
| | 最大可搬重量 ^{#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) | |

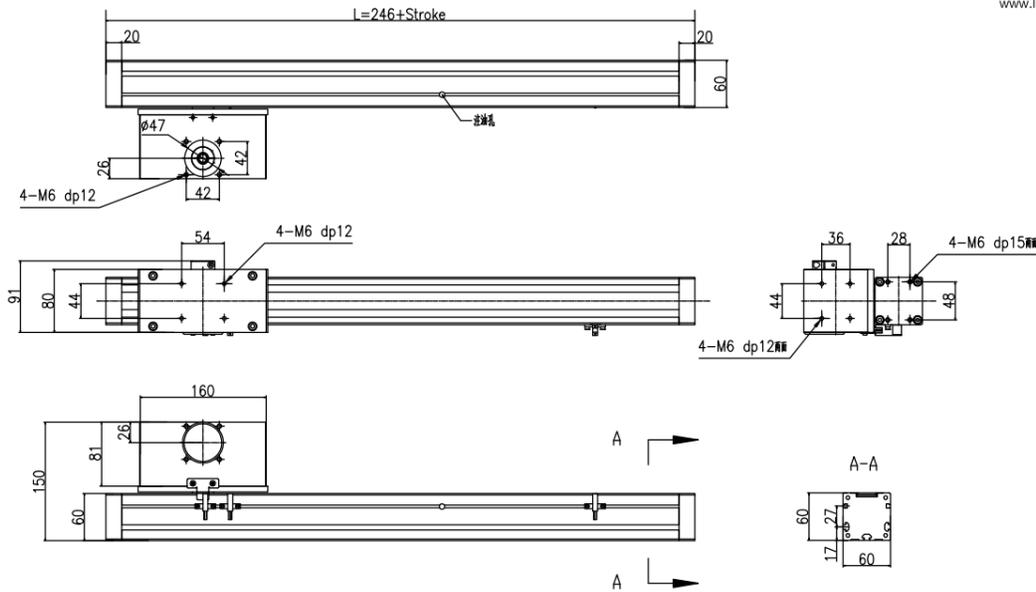
#注1: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。

#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

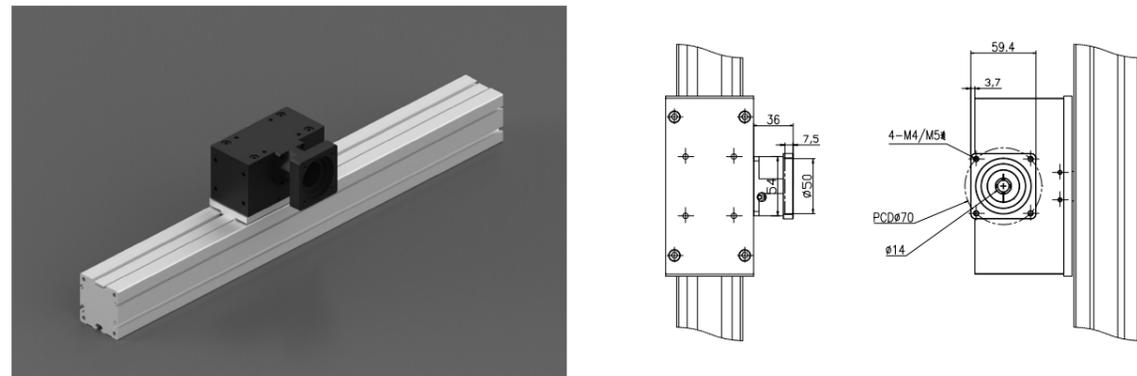
Belt Driven Linear Actuator

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: 上表尺寸只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註。
Note 2: This is optional accessory, please remark if needed.

亞標半密式螺桿驅動型 YSO 100

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

| YSO100 | L10 | 500 | 2P | MS | DB | M40 | P3 | A001 |
|---------------|----------------------|-------------------|-------------------------|---|----------------------|--|--|------------------------|
| 本體型號 Item NO. | 螺桿導程 Ball Screw Lead | 行程 Stroke | 直線導軌滑塊數量 Block Quantity | 馬達方向 Motor Mounting Position | 輔助滑塊 Auxiliary Block | 馬達廠牌、功率 Motor Brand、Power Output | 限位傳感器數量 Photoelectric Sensor | 特注式樣 Special Order No. |
| | 05 10 16 20 | 100-1050, 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P144.



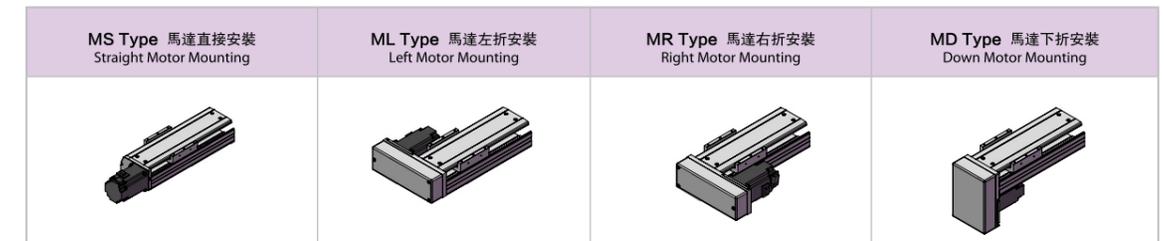
最大動態力和力矩

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



基本規格 Basic Specification

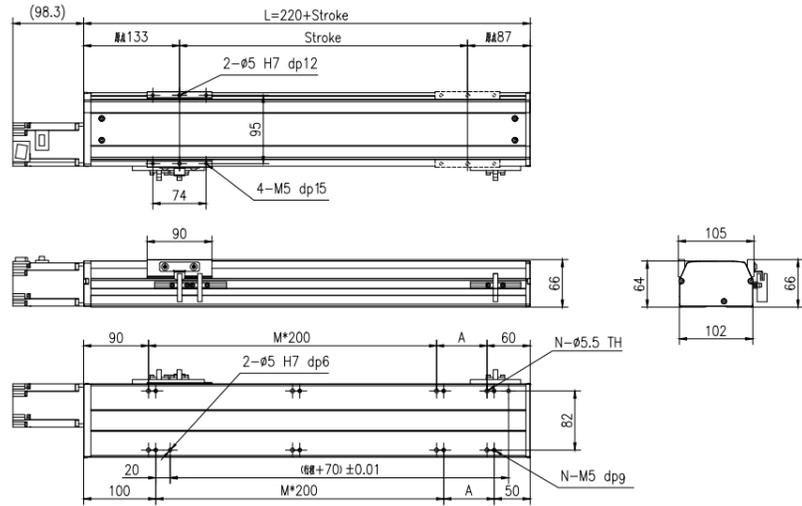
| YSO100 | 1P(導軌滑塊數量) Block Quantity | | | | 2P(導軌滑塊數量)Block quantity | | | |
|--|---------------------------------|--------|------|-----|--------------------------|------|------|-----|
| | 位置重複精度 Repetitive Accuracy (mm) | ±0.005 | | | | | | |
| 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | 16 | 20 | 5 | 10 | 16 | 20 |
| 最高速度 Maximum Speed (mm/s) | *注1*Note1 | | | | | | | |
| 最大可搬重量 Maximum Payload | *注2*Note2 水平使用Horizontal (kg) | | | | 垂直使用Vertical (kg) | | | |
| | 40 | 24 | 18 | 14 | 50 | 30 | 22 | 18 |
| 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 relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

YSO 100 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

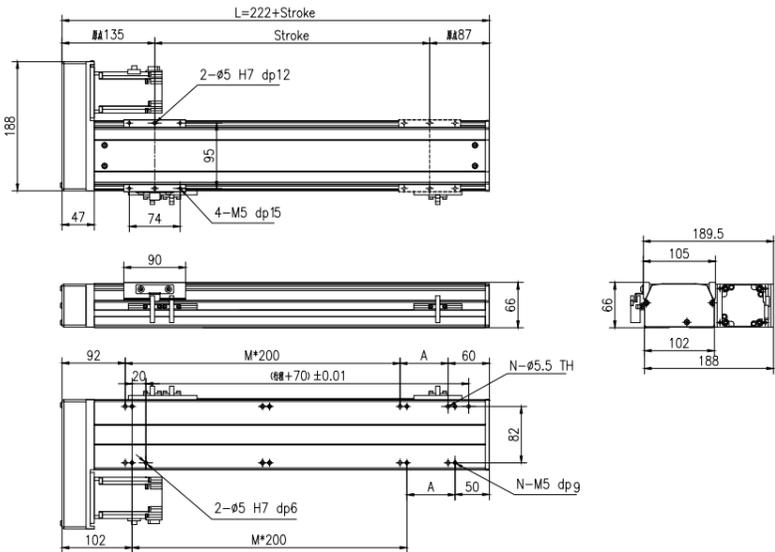
YSO100-1P-MS 馬達直接安裝 Straight Motor Mounting



| 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 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 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 | 1000 | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 16 | 800 | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 10 | 500 | | | | | | | | | | | | | | | | | | |
| | 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。
#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



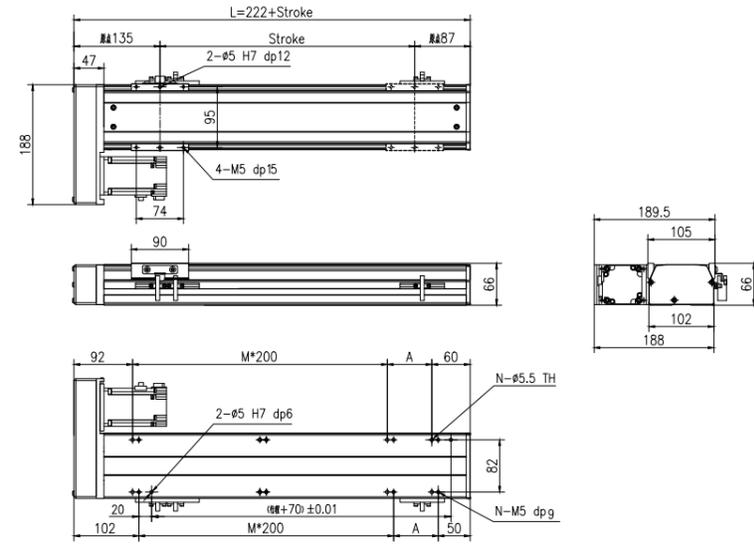
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|-------------------------------|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| 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 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 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 | 1000 | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 16 | 800 | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 10 | 500 | | | | | | | | | | | | | | | | | | |
| | 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。
#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

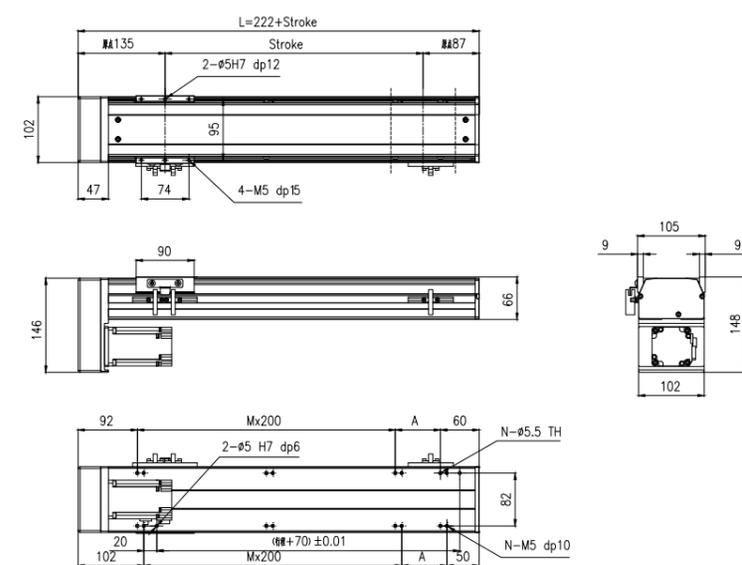
YSO100-1P-MR 馬達右折安裝 Right Motor Mounting



| 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 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 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 | 1000 | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 16 | 800 | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 10 | 500 | | | | | | | | | | | | | | | | | | |
| | 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。
#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 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 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 | 1000 | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 16 | 800 | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 10 | 500 | | | | | | | | | | | | | | | | | | |
| | 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。
#Note:When the stroke is more than 700mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

YSO 110 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

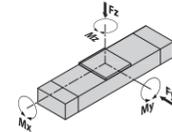
| | | | | | | | | |
|---------------|----------------------|-------------------|-------------------------|---|----------------------|---|--|------------------------|
| YSO110 | L10 | 500 | 4P | MS | DB 注 | M40 | P3 | A001 |
| 本體型號 Item NO. | 螺桿導程 Ball Screw Lead | 行程 Stroke | 直線導軌滑塊數量 Block Quantity | 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 | 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 1PC P2: 2 2PCS P3: 3 3PCS 未標記: 無 NoMark/NoSensor | |

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩

Max Permissible Forces And Torques

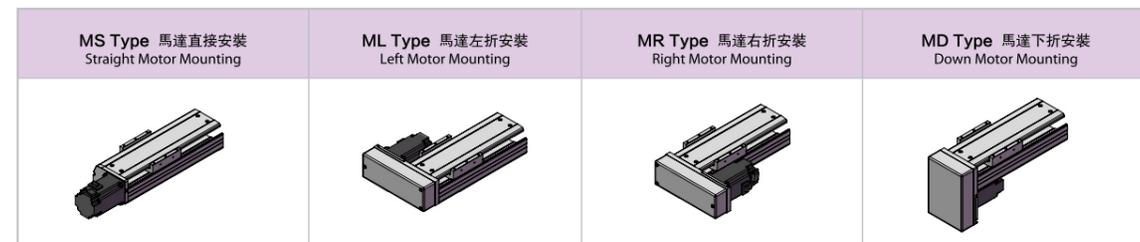


| Type | | 4P |
|--------------|--|------|
| ■ F(y) (N) | | 3427 |
| ■ F(z) (N) | | 3427 |
| ■ M(x) (N·m) | | 98 |
| ■ M(y) (N·m) | | 40 |
| ■ M(z) (N·m) | | 176 |

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| YSO110 | | 4P(導軌滑塊數量) Block Quantity | | | | |
|--------------------------------|---|---------------------------|------|------|-----|----|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.005 | | | | |
| | 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | 16 | 20 | |
| | 最高速度 Maximum Speed (mm/s) | *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 | | | | |
| | 主機截面最大外形 Max Outline of Main Engine's Cross Section (mm) | 105 × 70 | | | | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | | | | |

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

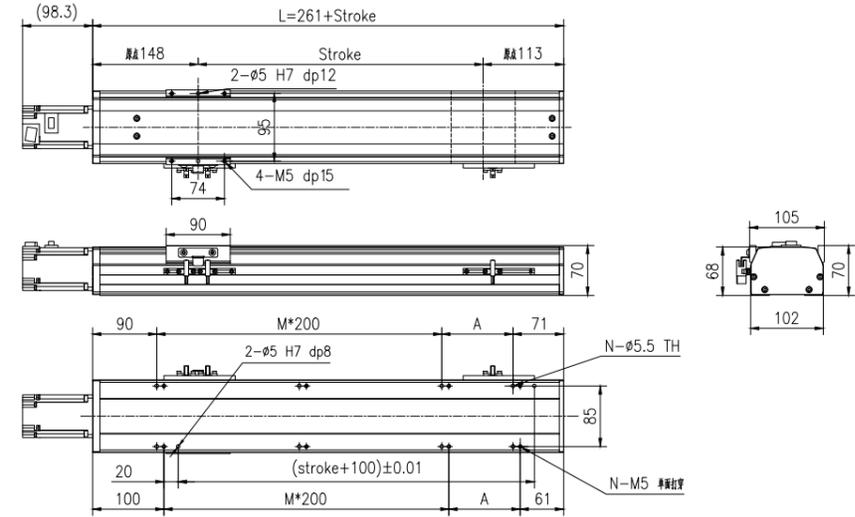
亞標半密式螺桿驅動型 YSO 110

Ball Screw Driven Linear Actuator

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



2D&3D文檔下載請至
www.limonrobot.cn



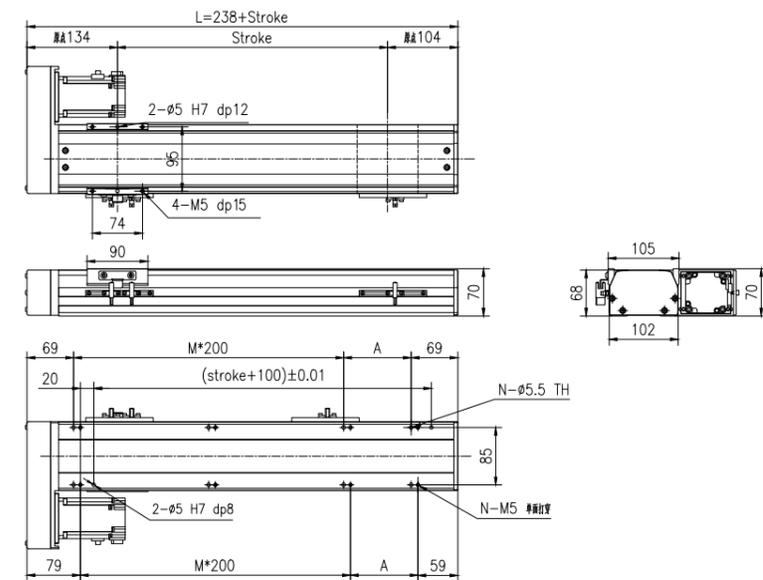
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | |
|----------------------------|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|------|------|-------|------|-------|--|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

注: 行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#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



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

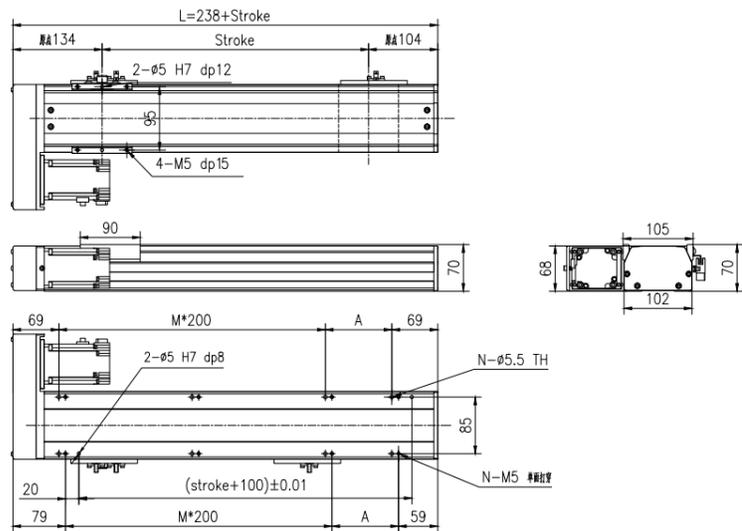
注: 行程超過700mm時，根據動作區域不同，可能會出現滾珠絲杆的共振情況，應參考上表所示的最高速度。
#Note: When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO 110 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSO110-4P-MR 馬達右折安裝 Right Motor Mounting

2D&3D文檔下載請至
www.limonrobot.cn

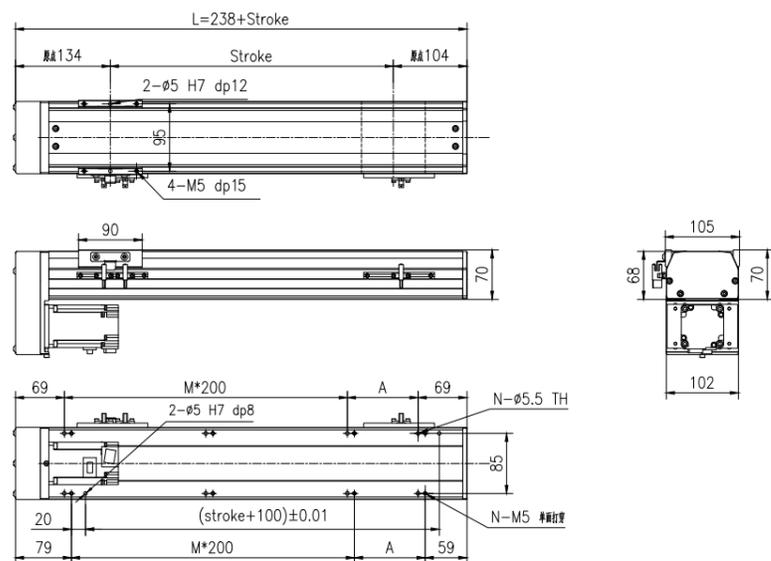


| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | |
|-------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|-------|------|-------|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

YSO110-4P-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 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | |
|-------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|-------|------|-------|
| L | 338 | 388 | 438 | 488 | 538 | 588 | 638 | 688 | 738 | 788 | 838 | 888 | 938 | 988 | 1038 | 1088 | 1138 | 1188 | 1238 | 1288 | |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | |
| 重量 Weight (kg) | 4.3 | 4.7 | 5.1 | 5.5 | 5.9 | 6.3 | 6.6 | 7 | 7.4 | 7.8 | 8.2 | 8.6 | 9 | 9.4 | 9.8 | 10.2 | 10.6 | 11 | 11.4 | 11.8 | |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 20 | | | | | | | | | | | | | | | | 1000 | 800 | 650 | 500 | 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.

亞標半密式螺桿驅動型 YSO 135

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

| | | | | | | | | |
|---------------|----------------------|-------------------|-------------------------|---|----------------------|---|--|------------------------|
| YSO135 | L10 | 500 | 2P | MS | DB | M40 | P3 | A001 |
| 本體型號 Item NO. | 螺桿導程 Ball Screw Lead | 行程 Stroke | 直線導軌滑塊數量 Block Quantity | 馬達方向 Motor Mounting Position | 輔助滑塊 Auxiliary Block | 馬達廠牌、功率 Motor Brand, Power Output | 限位傳感器數量 Photoelectric Sensor | 特注式樣 Special Order No. |
| | 05 | 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 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P144.

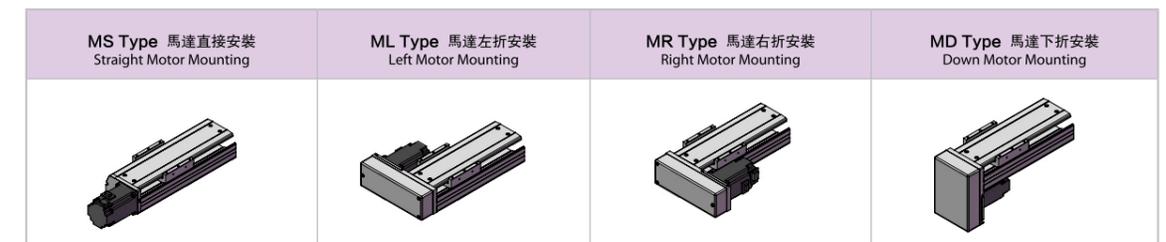


最大動態力和力矩 Max Permissible Forces And Torques

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

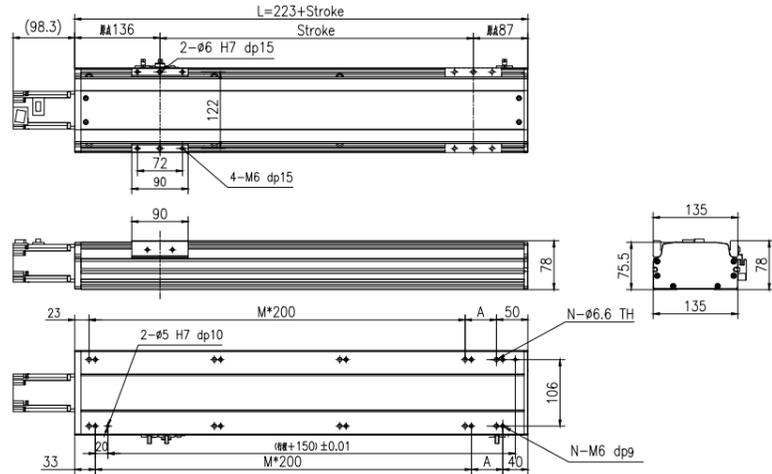
| 技術參數 | YSO135 | 2P(導軌滑塊數量) Block Quantity | | | | 4P(導軌滑塊數量) Block quantity | | | |
|--|--------|---------------------------|------|-----|------|---------------------------|------|-----|------|
| | | 5 | 10 | 16 | 20 | 5 | 10 | 16 | 20 |
| 位置重複精度 Repetitive Accuracy (mm) | | ±0.005 | | | | | | | |
| 螺桿導程 Ball Screw Lead (mm) | | 5 | | | | | | | |
| 最高速度 Maximum Speed (mm/s) | | 250 | 500 | 800 | 1000 | 250 | 500 | 800 | 1000 |
| 最大可搬重量 Maximum Payload | | 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：行程超過900mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2：測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note 2: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

YSO 135 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

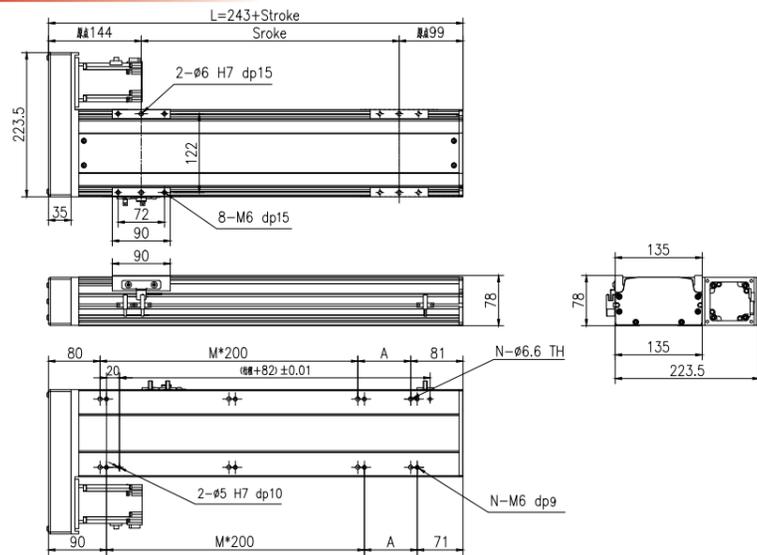
YSO135-2P-MS 馬達直接安裝 Straight Motor Mounting



| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|-------------|-------------|-------------|-------------|------|------|
| L | 323 | 373 | 423 | 473 | 523 | 573 | 623 | 673 | 723 | 773 | 823 | 873 | 923 | 973 | 1023 | 1073 | 1123 | 1173 | 1223 | 1273 | 1323 | 1373 | 1423 | 1473 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| 重量 Weight (kg) | 6.0 | 6.4 | 6.9 | 7.4 | 7.9 | 8.3 | 8.8 | 9.3 | 9.8 | 10.2 | 10.7 | 11.2 | 11.7 | 12.1 | 12.6 | 13.0 | 13.6 | 14.0 | 14.5 | 15.0 | 15.5 | 15.9 | 16.4 | 16.9 |
| 最高速度 Max speed (mm/sec) | | | | | | | | | | | | | | | | | | | 1000 | 800 | 640 | 500 | 450 | |
| | | | | | | | | | | | | | | | | | | | 導程 Pitch 20 | 導程 Pitch 16 | 導程 Pitch 10 | 導程 Pitch 05 | | |

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

YSO135-2P-ML 馬達左折安裝 Left Motor Mounting



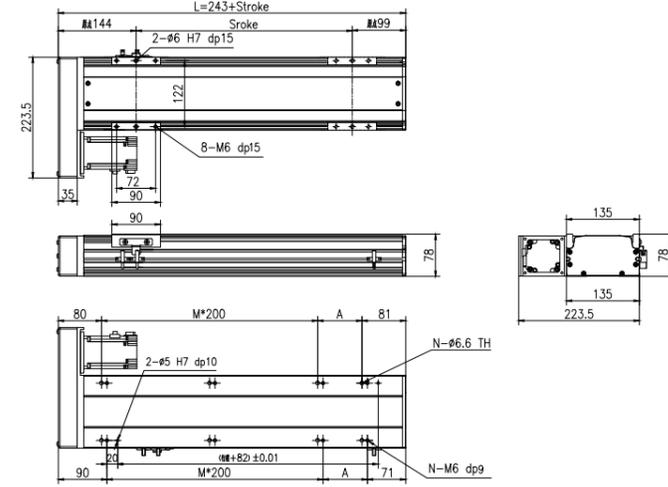
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|-------------|-------------|-------------|-------------|------|------|
| L | 343 | 393 | 443 | 493 | 543 | 593 | 643 | 693 | 743 | 793 | 843 | 893 | 943 | 993 | 1043 | 1093 | 1143 | 1193 | 1243 | 1293 | 1343 | 1393 | 1443 | 1493 |
| A | 182 | 32 | 82 | 132 | 182 | 32 | 82 | 132 | 182 | 32 | 82 | 132 | 182 | 32 | 82 | 132 | 182 | 32 | 82 | 132 | 182 | 32 | 82 | 132 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 |
| 重量 Weight (kg) | 7.0 | 7.4 | 7.9 | 8.4 | 8.9 | 9.3 | 9.8 | 10.3 | 10.8 | 11.2 | 11.7 | 12.2 | 12.7 | 13.1 | 13.6 | 14.1 | 14.6 | 15.0 | 15.5 | 16.0 | 16.5 | 16.9 | 17.4 | 17.9 |
| 最高速度 Max speed (mm/sec) | | | | | | | | | | | | | | | | | | | 1000 | 800 | 640 | 520 | 400 | 360 |
| | | | | | | | | | | | | | | | | | | | 導程 Pitch 20 | 導程 Pitch 16 | 導程 Pitch 10 | 導程 Pitch 05 | | |

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

亞標半密式螺桿驅動型 YSO 135

Ball Screw Driven Linear Actuator

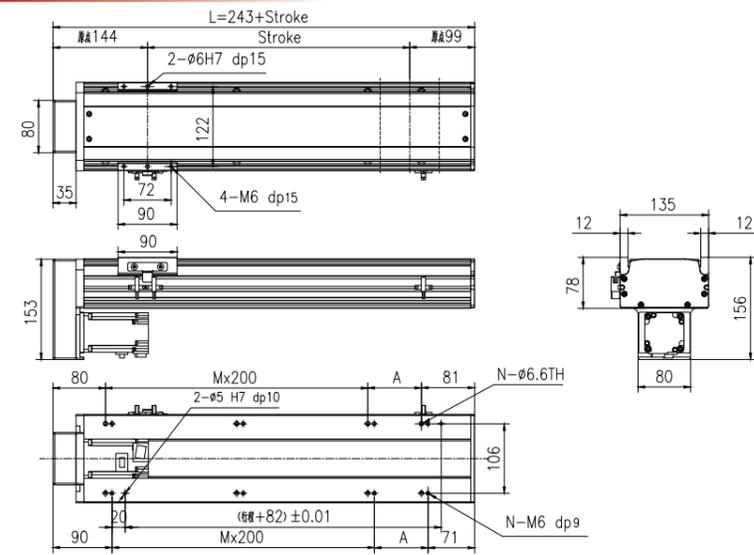
YSO135-2P-MR 馬達右折安裝 Right Motor Mounting



| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|-------------|-------------|-------------|-------------|------|------|
| L | 343 | 393 | 443 | 493 | 543 | 593 | 643 | 693 | 743 | 793 | 843 | 893 | 943 | 993 | 1043 | 1093 | 1143 | 1193 | 1243 | 1293 | 1343 | 1393 | 1443 | 1493 |
| A | 182 | 32 | 82 | 132 | 182 | 32 | 82 | 132 | 182 | 32 | 82 | 132 | 182 | 32 | 82 | 132 | 182 | 32 | 82 | 132 | 182 | 32 | 82 | 132 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 |
| 重量 Weight (kg) | 7.0 | 7.4 | 7.9 | 8.4 | 8.9 | 9.3 | 9.8 | 10.3 | 10.8 | 11.2 | 11.7 | 12.2 | 12.7 | 13.1 | 13.6 | 14.1 | 14.6 | 15.0 | 15.5 | 16.0 | 16.5 | 16.9 | 17.4 | 17.9 |
| 最高速度 Max speed (mm/sec) | | | | | | | | | | | | | | | | | | | 1000 | 800 | 640 | 520 | 400 | 360 |
| | | | | | | | | | | | | | | | | | | | 導程 Pitch 20 | 導程 Pitch 16 | 導程 Pitch 10 | 導程 Pitch 05 | | |

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

YSO135-2P-MD 馬達下折安裝 Down Motor Mounting



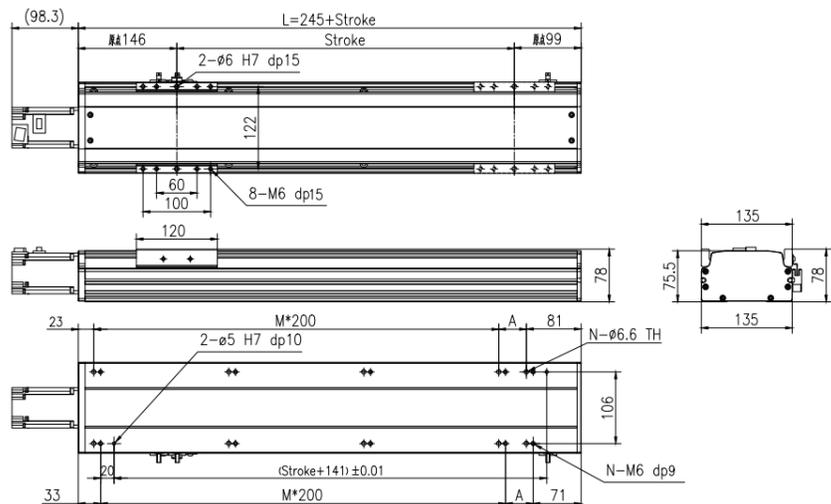
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|-------------|-------------|-------------|-------------|------|------|
| L | 343 | 393 | 443 | 493 | 543 | 593 | 643 | 693 | 743 | 793 | 843 | 893 | 943 | 993 | 1043 | 1093 | 1143 | 1193 | 1243 | 1293 | 1343 | 1393 | 1443 | 1493 |
| A | 182 | 32 | 82 | 132 | 182 | 32 | 82 | 132 | 182 | 32 | 82 | 132 | 182 | 32 | 82 | 132 | 182 | 32 | 82 | 132 | 182 | 32 | 82 | 132 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 |
| 重量 Weight (kg) | 7.0 | 7.4 | 7.9 | 8.4 | 8.9 | 9.3 | 9.8 | 10.3 | 10.8 | 11.2 | 11.7 | 12.2 | 12.7 | 13.1 | 13.6 | 14.1 | 14.6 | 15.0 | 15.5 | 16.0 | 16.5 | 16.9 | 17.4 | 17.9 |
| 最高速度 Max speed (mm/sec) | | | | | | | | | | | | | | | | | | | 1000 | 800 | 640 | 520 | 400 | 360 |
| | | | | | | | | | | | | | | | | | | | 導程 Pitch 20 | 導程 Pitch 16 | 導程 Pitch 10 | 導程 Pitch 05 | | |

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

YSO 135 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

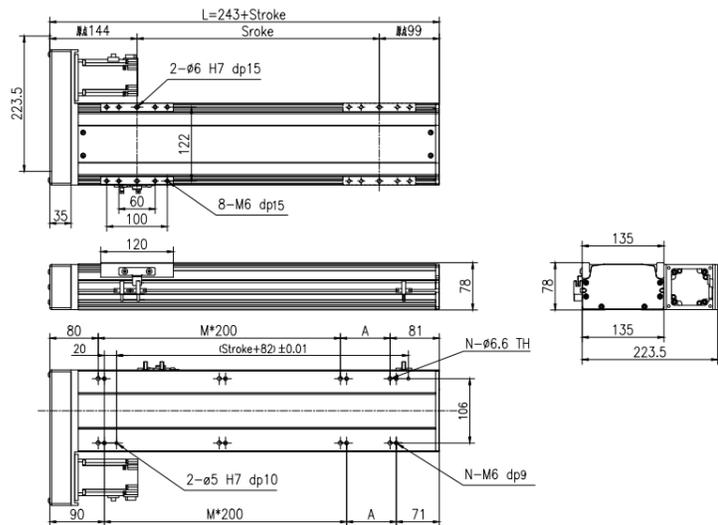
YSO135-4P-MS 馬達直接安裝 StRight Motor Mounting



| 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 | 6 | 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 | | | | | | | | | | 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.

YSO135-4P-ML 馬達左折安裝 Left Motor Mounting



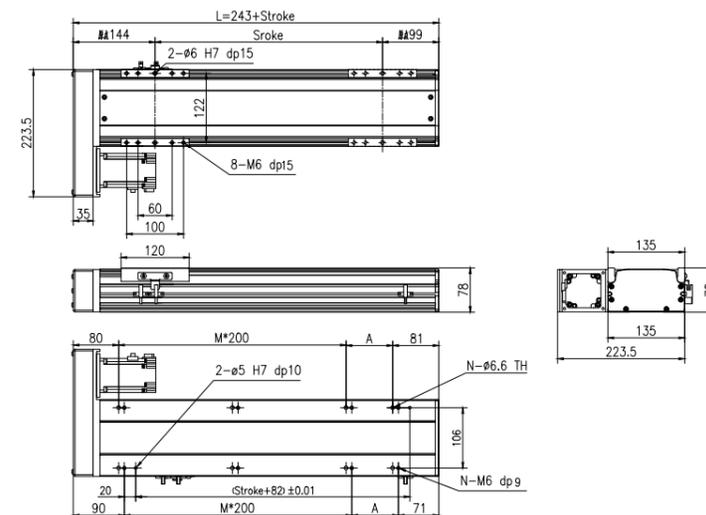
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | | | | | | | | | | | | | | | | |
|-------------------------|-------------------|-----|-----|-----|-----|-----|------|------|------|------|------------------|------|------|------|------|------|------|------|------|------|------------------|------|------|------|--|--|--|--|--|--|------------------|--|--|--|--|--|--|--|--|--|
| 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 | 6 | 6 | 6 | 6 | | | | | | | | | | | | | | | | |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | | | | | | | | | | | | | | | | |
| 重量 Weight (kg) | 7.2 | 7.6 | 8.1 | 8.6 | 9.1 | 9.5 | 10.0 | 10.5 | 11.0 | 11.4 | 11.9 | 12.4 | 12.9 | 13.3 | 13.8 | 14.3 | 14.8 | 15.2 | 15.7 | 16.2 | 16.7 | 17.1 | 17.6 | 18.1 | | | | | | | | | | | | | | | | |
| 最高速度 Max speed (mm/sec) | 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.

亞標半密式螺桿驅動型 YSO 135

Ball Screw Driven Linear Actuator

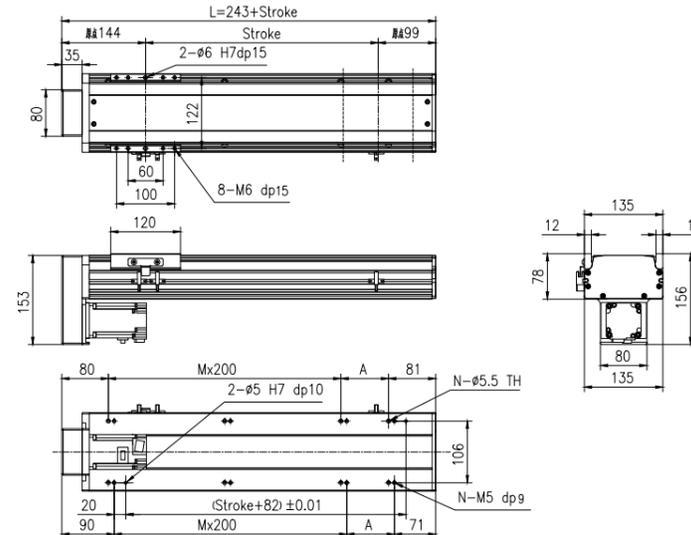
YSO135-4P-MR 馬達右折安裝 Right Motor Mounting



| 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 | 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 | 6 | 6 | 6 | 6 | | | | | | | | | | | | | | | | |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | | | | | | | | | | | | | | | | |
| 重量 Weight (kg) | 7.2 | 7.6 | 8.1 | 8.6 | 9.1 | 9.5 | 10.0 | 10.5 | 11.0 | 11.4 | 11.9 | 12.4 | 12.9 | 13.3 | 13.8 | 14.3 | 14.8 | 15.2 | 15.7 | 16.2 | 16.7 | 17.1 | 17.6 | 18.1 | | | | | | | | | | | | | | | | |
| 最高速度 Max speed (mm/sec) | 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.

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 | 6 | 6 | 6 | 6 | | | | | | | | | | | | | | | | |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | | | | | | | | | | | | | | | | |
| 重量 Weight (kg) | 7.2 | 7.6 | 8.1 | 8.6 | 9.1 | 9.5 | 10.0 | 10.5 | 11.0 | 11.4 | 11.9 | 12.4 | 12.9 | 13.3 | 13.8 | 14.3 | 14.8 | 15.2 | 15.7 | 16.2 | 16.7 | 17.1 | 17.6 | 18.1 | | | | | | | | | | | | | | | | |
| 最高速度 Max speed (mm/sec) | 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.

YSO 170 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

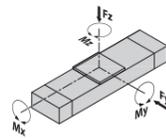
| | | | | | | | | |
|---------------|----------------------|-------------------|-------------------------|---|----------------------------|--|---|------------------------|
| YSO170 | L10 | 500 | 4P | MS | DB <small>注</small> | M40 | P3 | A001 |
| 本體型號 Item NO. | 螺桿導程 Ball Screw Lead | 行程 Stroke | 直線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

注: 輔助滑塊選項相關參數參見樣本P144.



最大動態力和力矩

Max Permissible Forces And Torques



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

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

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

馬達安裝方向 Motor Mounting Position Version

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

基本規格 Basic Specification

| YSO170 | | 4P(導軌滑塊數量) Block Quantity | | | | |
|--------------------------------|---|---------------------------|------|------|-----|----|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.005 | | | | |
| | 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | 20 | 40 | |
| | 最高速度 Maximum Speed (mm/s) | *注1>Note1 | | | | |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 120 | 100 | 85 | 60 |
| | | 垂直使用Vertical (kg) | 60 | 50 | 35 | 20 |
| | 定額推力 Rated Thrust (N) | 2563 | 1281 | 640 | 320 | |
| | 最大空載扭距 Max. No-load Driving Torque (N·m) | 0.1 | 0.12 | 0.16 | 0.2 | |
| 最大扭距 Max. Driving Torque (N·m) | 10.9 | 12.5 | 14 | 16 | | |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 100-1250 mm/ 50 Pitch | | | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 400 / 750 | | | | |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | ø20 / ø25 | | | | |
| | 高剛性直線滑軌 Linear Guide (mm) | 20# × 2 PCS | | | | |
| | 主機版面最大外形 Max Outline of Main Engine's Cross Section (mm) | 170 × 97 | | | | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | | | | |

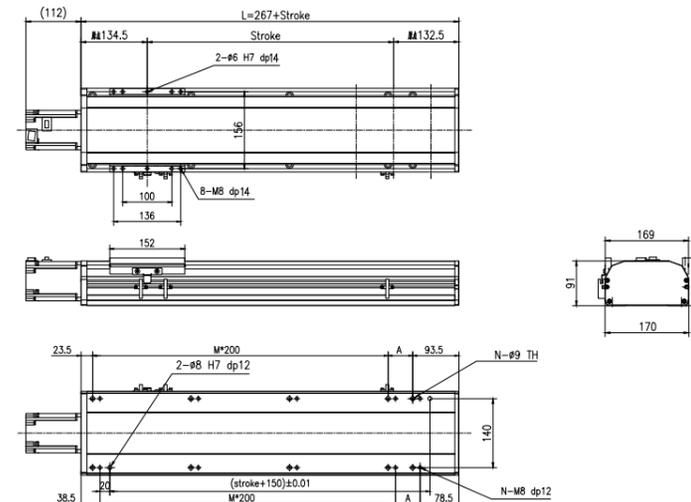
#注1: 行程超過850mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note 2: Date changes relevantly according to different torque and accelerated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

亞標半密式螺桿驅動型 YSO 170

Ball Screw Driven Linear Actuator

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

2D&3D文檔下載請至
www.limonrobot.cn

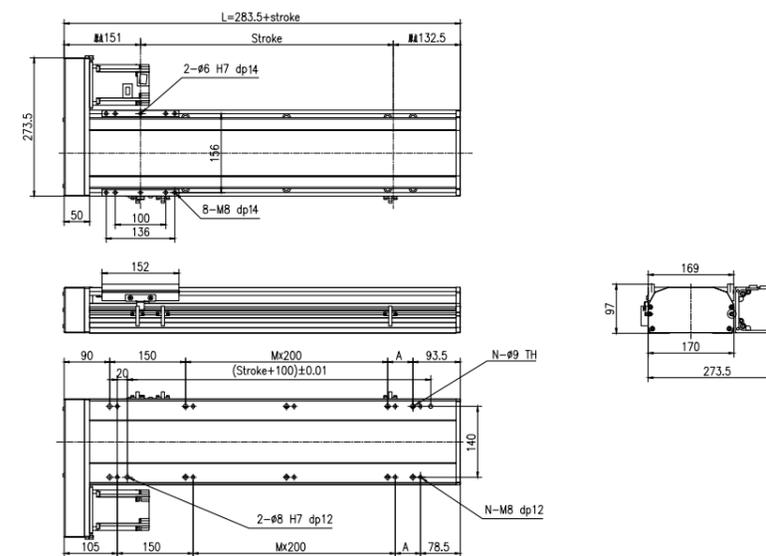


| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|----------------------------|-------------|------|------|------|-----|------|------|------|------|-----|------|------|------|------|------|------|------|------|-------|------|-------|------|------|------|
| L | 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 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| 重量 Weight (kg) | 11.8 | 12.6 | 13.4 | 14.2 | 15 | 15.7 | 16.5 | 17.3 | 18.2 | 19 | 19.8 | 20.6 | 21.4 | 22.2 | 23 | 23.8 | 24.6 | 25.4 | 26.2 | 27 | 27.8 | 28.6 | 29.4 | 30.2 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 40 | 2000 | | | | | | | | | | | | | | | | 1600 | 1500 | 1000 | 900 | | | |
| | 導程 Pitch 20 | 1000 | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | | | |
| | 導程 Pitch 10 | 500 | | | | | | | | | | | | | | | | 400 | 325 | 250 | 225 | | | |
| | 導程 Pitch 05 | 250 | | | | | | | | | | | | | | | | 200 | 162.5 | 125 | 112.5 | | | |

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

YSO170-4P-ML 馬達左折安裝 Left Motor Mounting

2D&3D文檔下載請至
www.limonrobot.cn



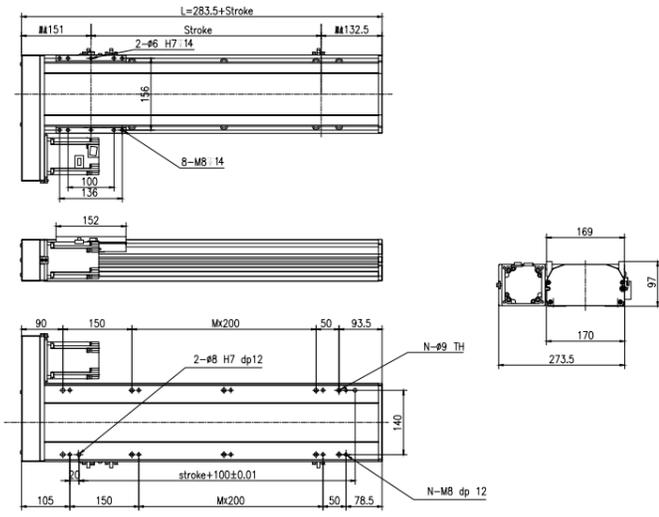
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|----------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| L | 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 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 |
| M | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| 重量 Weight (kg) | 11.8 | 12.6 | 13.4 | 14.2 | 14.9 | 15.7 | 16.5 | 17.3 | 18.0 | 18.8 | 19.6 | 20.4 | 21.1 | 21.9 | 22.7 | 23.5 | 24.2 | 25.0 | 25.8 | 26.6 | 27.4 | 28.2 | 29.0 | 29.8 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 40 | 2000 | | | | | | | | | | | | | | | | 1600 | 1500 | 1000 | 900 | | | |
| | 導程 Pitch 20 | 1000 | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | | | |
| | 導程 Pitch 10 | 500 | | | | | | | | | | | | | | | | 400 | 325 | 250 | 225 | | | |
| | 導程 Pitch 05 | 250 | | | | | | | | | | | | | | | | 200 | 162.5 | 125 | 112.5 | | | |

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

YSO 170 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

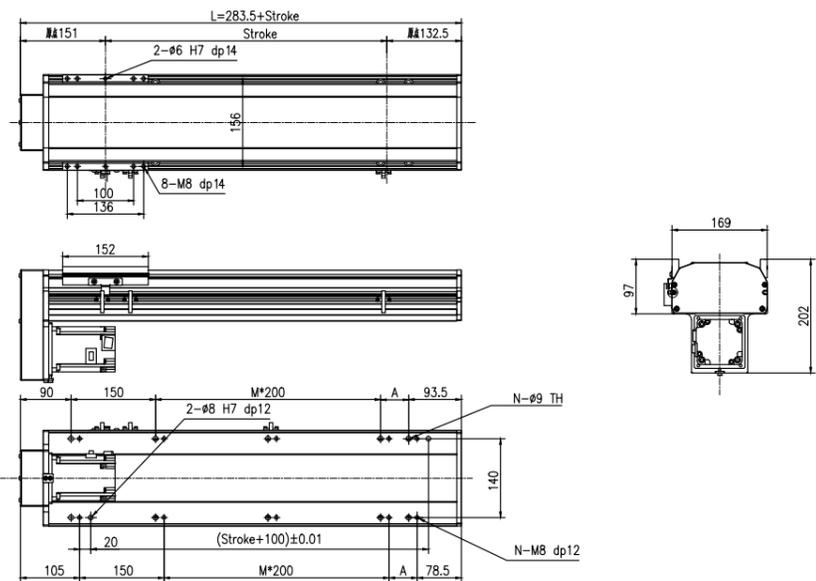
YSO170-4P-MR
馬達右折安裝 Right Motor Mounting



| 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 | 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) | 導程 Pitch 40 2000 | | | | | | | | | | 1600 | | | | | | | | | | 1500 | | | | | | | | | | 1000 | | | | | | | | | | 900 | | | | | | | | | |
| | 導程 Pitch 20 1000 | | | | | | | | | | 800 | | | | | | | | | | 650 | | | | | | | | | | 500 | | | | | | | | | | 450 | | | | | | | | | |
| | 導程 Pitch 10 500 | | | | | | | | | | 400 | | | | | | | | | | 325 | | | | | | | | | | 250 | | | | | | | | | | 225 | | | | | | | | | |
| | 導程 Pitch 05 250 | | | | | | | | | | 200 | | | | | | | | | | 162.5 | | | | | | | | | | 125 | | | | | | | | | | 112.5 | | | | | | | | | |

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

YSO170-4P-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 | 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) | 導程 Pitch 40 2000 | | | | | | | | | | 1600 | | | | | | | | | | 1500 | | | | | | | | | | 1000 | | | | | | | | | | 900 | | | | | | | | | |
| | 導程 Pitch 20 1000 | | | | | | | | | | 800 | | | | | | | | | | 650 | | | | | | | | | | 500 | | | | | | | | | | 450 | | | | | | | | | |
| | 導程 Pitch 10 500 | | | | | | | | | | 400 | | | | | | | | | | 325 | | | | | | | | | | 250 | | | | | | | | | | 225 | | | | | | | | | |
| | 導程 Pitch 05 250 | | | | | | | | | | 200 | | | | | | | | | | 162.5 | | | | | | | | | | 125 | | | | | | | | | | 112.5 | | | | | | | | | |

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

亞標半密式螺桿驅動型 YSO 220

Ball Screw Driven Linear Actuator

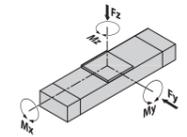
訂購型號代碼 Code

| | | | | | | | | |
|---------------|----------------------|-------------------|-------------------------|---|----------------------|---|---|------------------------|
| YSO220 | L10 | 500 | 4P | MS | DB | M75 | P3 | A001 |
| 本體型號 Item NO. | 螺桿導程 Ball Screw Lead | 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 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P144.



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



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

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

馬達安裝方向 Motor Mounting Position Version

| 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

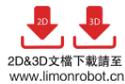
| YSO220 | | 4P(導軌滑塊數量) Block Quantity | | | | |
|--------------------------------|---|---------------------------|------|------|-----|----|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.005 | | | | |
| | 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | 25 | 40 | |
| | 最高速度 Maximum Speed (mm/s) | *注1*Note1 | | | | |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 160 | 160 | 140 | 80 |
| | | 垂直使用Vertical (kg) | 80 | 70 | 45 | 30 |
| | 定格推力 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) | 100-1500 mm/ 50 Pitch | | | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 750 | | | | |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | Ø25 / Ø32 | | | | |
| | 高剛性直線滑軌 Linear Guide (mm) | 25# × 2 PCS | | | | |
| | 主機截面最大外形 Max Outline of Main Engine's Cross Section (mm) | 230 × 97 | | | | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | | | | |

#注1: 行程超過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.

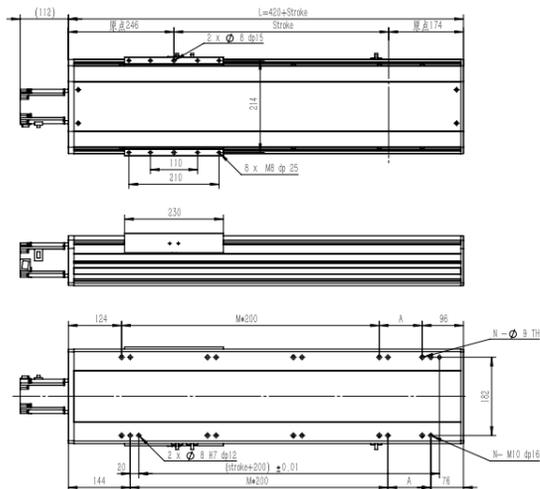
YSO 220 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSO220-MS 馬達直接安裝 Straight Motor Mounting



2D&3D文檔下載請至
www.limonrobot.cn



注: 1. 未標出公差者均按
2. 未標出倒角者均為0.5
3. * 為標出尺寸
4. 產品圖樣 1/2

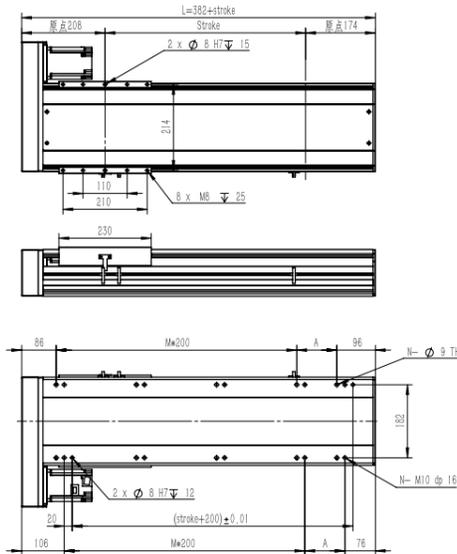
| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | | |
|-------------------------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|--|-----|--|
| L | 470 | 520 | 570 | 620 | 670 | 720 | 770 | 820 | 870 | 920 | 970 | 1020 | 1070 | 1120 | 1170 | 1220 | 1270 | 1320 | 1370 | 1420 | 1470 | 1520 | 1570 | 1620 | 1670 | 1720 | 1770 | 1820 | 1870 | 1920 | | | | |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | | | | |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | | | | |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | | | | |
| 重量 Weight (kg) | 25.4 | 26.9 | 28.3 | 29.8 | 31.2 | 32.7 | 34.2 | 36.6 | 37.1 | 38.5 | 40 | 41.5 | 42.9 | 44.4 | 45.8 | 47.3 | 48.8 | 50.2 | 51.7 | 53.1 | 54.6 | 56.1 | 57.5 | 59 | 60.4 | 61.9 | 63.4 | 64.8 | 66.3 | 67.7 | | | | |
| 最高速度 Max speed (mm/sec) | | | | | | | | | | | | | | | | | | | 2000 | | 1800 | | 1600 | | 1400 | | 1200 | | 1000 | | 800 | | 600 | |
| 導程 Pitch 40 | | | | | | | | | | | | | | | | | | | 1250 | | 875 | | 750 | | 625 | | 500 | | 250 | | 200 | | | |
| 導程 Pitch 25 | | | | | | | | | | | | | | | | | | | 500 | | 350 | | 300 | | 250 | | 200 | | | | | | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | | | 250 | | 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



2D&3D文檔下載請至
www.limonrobot.cn



| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 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 | | | | | | | | | | | | | | | | | | | 1250 | | 875 | | 750 | | 625 | | 500 | | 250 | | 200 | | | |
| 導程 Pitch 25 | | | | | | | | | | | | | | | | | | | 500 | | 350 | | 300 | | 250 | | 200 | | | | | | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | | | 250 | | 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.

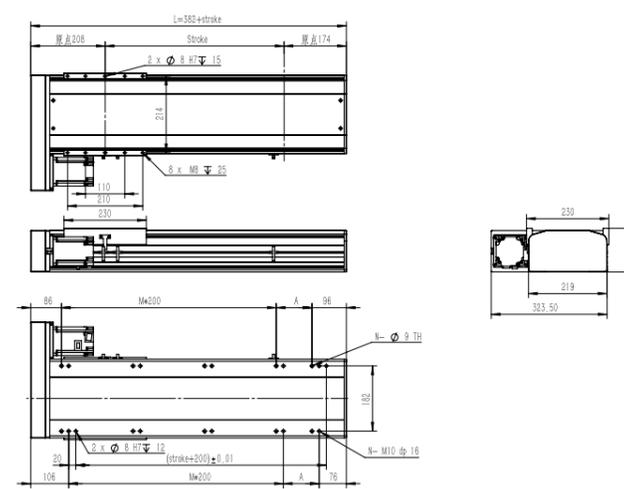
YSO 220 亞標半密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSO220-MR 馬達右折安裝 Right Motor Mounting



2D&3D文檔下載請至
www.limonrobot.cn



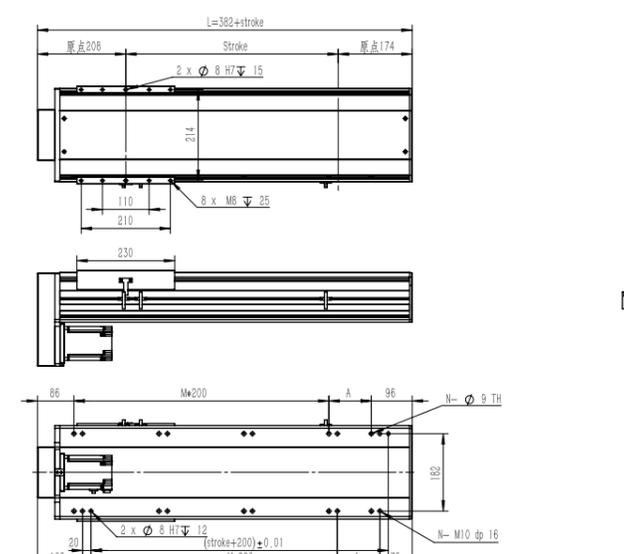
| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | | |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|--|-----|--|
| 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 | | | | | | | | | | | | | | | | | | | 1250 | | 875 | | 750 | | 625 | | 500 | | 250 | | 200 | | | |
| 導程 Pitch 25 | | | | | | | | | | | | | | | | | | | 500 | | 350 | | 300 | | 250 | | 200 | | | | | | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | | | 250 | | 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



2D&3D文檔下載請至
www.limonrobot.cn



| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 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 | | | | | | | | | | | | | | | | | | | 1250 | | 875 | | 750 | | 625 | | 500 | | 250 | | 200 | | | |
| 導程 Pitch 25 | | | | | | | | | | | | | | | | | | | 500 | | 350 | | 300 | | 250 | | 200 | | | | | | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | | | 250 | | 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

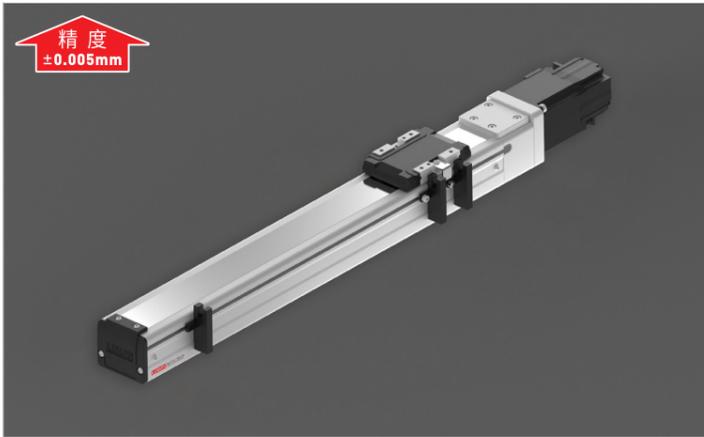
亞標全密式螺桿驅動型 YSC 50

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

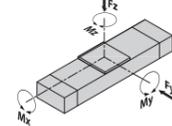
| | | | | | | | |
|---------------|----------------------|------------------|---|----------------------------|--|--|------------------------|
| YSC50 | L10 | 500 | MS | DB <small>注</small> | M10 | P3 | A001 |
| 本體型號 Item NO. | 螺桿導程 Ball Screw Lead | 行程 Stroke | 馬達方向 Motor Mounting Position | 輔助滑塊 Auxiliary Block | 馬達廠牌、功率 Motor Brand - Power Output | 限位傳感器數量 Photoelectric Sensor | 特注式樣 Special Order No. |
| | 05 10 | 100-600, 間隔Gap50 | MS: 馬達直接安裝 Straight Motor Mounting ML: 馬達左折安裝 Left Motor Mounting MR: 馬達右折安裝 Right Motor Mounting MD: 馬達下折安裝 Down Motor Mounting | 未填寫: 單滑塊 DB: 輔助滑塊 | M 三菱 Mitsubishi 10 100W P 松下 Panasonic 20 - Y 安川 Yaskawa 40 - D 台達 Delta 75 - 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P144.



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 |
|---|---------------------------------------|--|---------------------------------------|
| | | | |

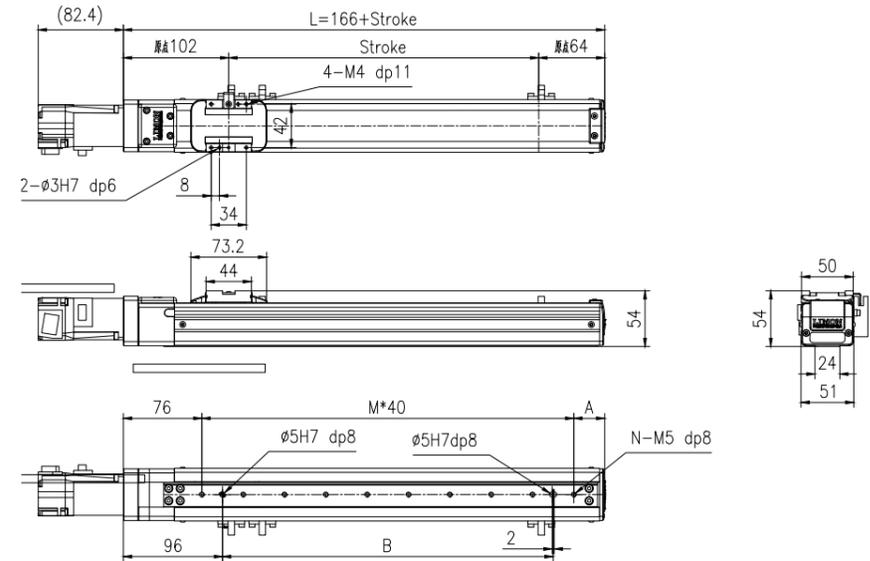
基本規格 Basic Specification

| YSC50 | | 50 | | |
|--------------------------------|---|--------------------------|-----|-----|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.005 | | |
| | 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | |
| | 最高速度 Maximum Speed (mm/s) | 250 | 500 | |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 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。

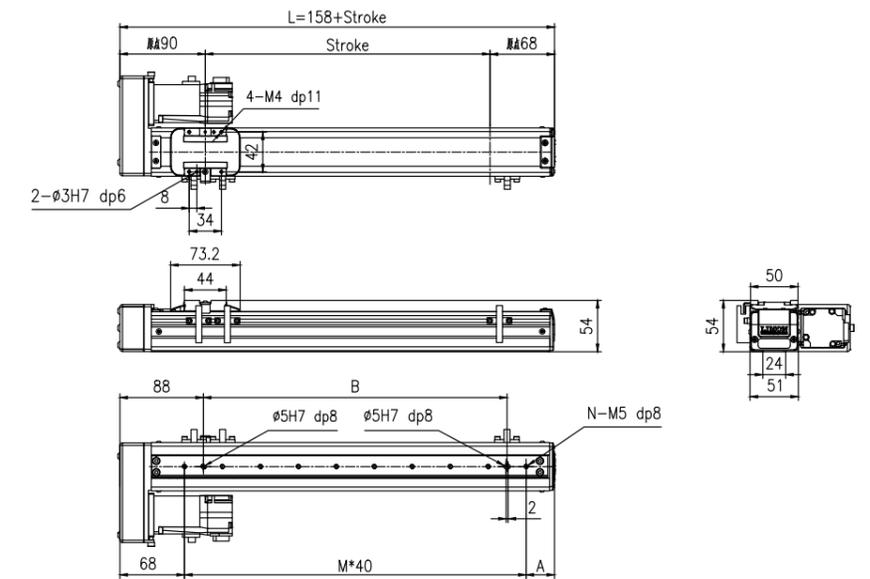
#Note: Data changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

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



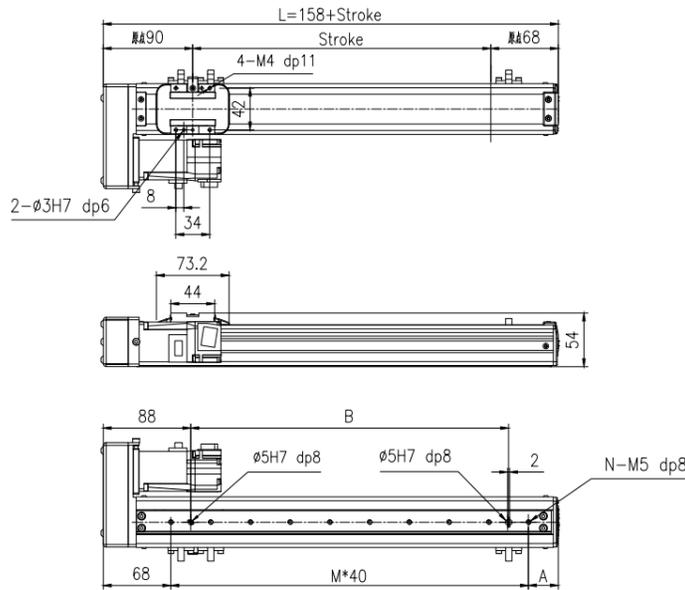
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|----------------------------|------------------|-----|-----|-----|-----|-----|------------------|-----|-----|-----|-----|
| L | 258 | 308 | 358 | 408 | 458 | 508 | 558 | 608 | 658 | 708 | 758 |
| A | 30 | 40 | 50 | 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

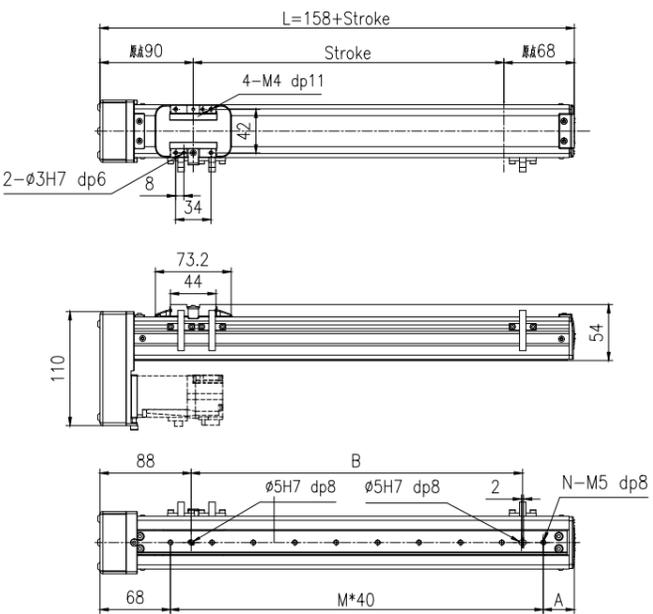
2D&3D文檔下載請至
www.limonrobot.cn



| 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

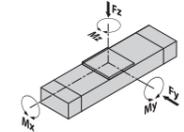
訂購型號代碼 Code

| | | | | | | | |
|---------------|-------------------------|------------------|---|----------------------------|--|--|---------------------------|
| 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: 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/NoSensor | |

注: 輔助滑塊選項相關參數參見樣本P144.



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



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

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

馬達安裝方向 Motor Mounting Position Version

| 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) | ±0.005 | | |
| | 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | |
| | 最高速度 Maximum Speed (mm/s) | 250 | 500 | |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 30 | 15 |
| | | 垂直使用Vertical (kg) | 10 | 5 |
| | 定額推力 Rated Thrust (N) | 341 | 170 | |
| 基本規格 Basic Specification | 最大空載扭矩 Max.No-load Driving Torque (N·m) | 0.05 | 0.1 | |
| | 最大扭矩 Max. Driving Torque (N·m) | 3 | 5 | |
| | 標準行程 Stroke (mm) | 100-600 mm/ 50 Pitch | | |
| AC伺服馬達容量 AC Servo Motor Output (W) | 100 | | | |
| 滾珠螺桿外徑 Ball Screw Diameter (mm) | Ø12 | | | |
| 高剛性直線滑軌 Linear Guide (mm) | 寬型 Wide type 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) | | | |

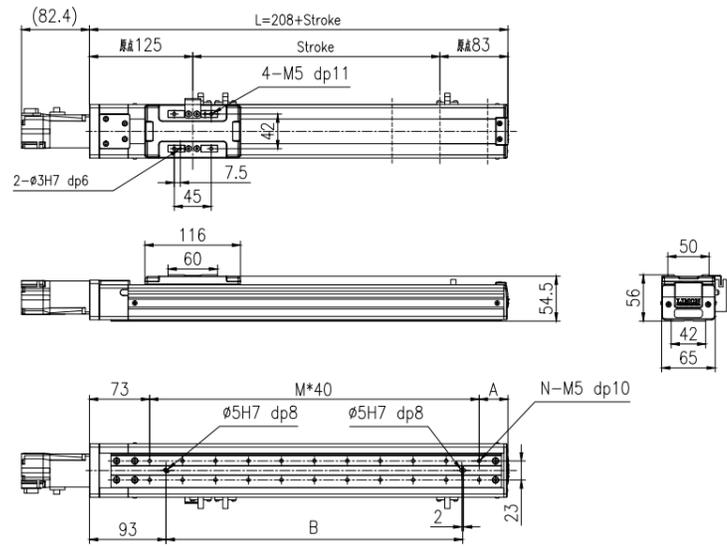
#注: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。
#Note: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

YSC 65 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSC65-MS 馬達直接安裝 Straight Motor Mounting

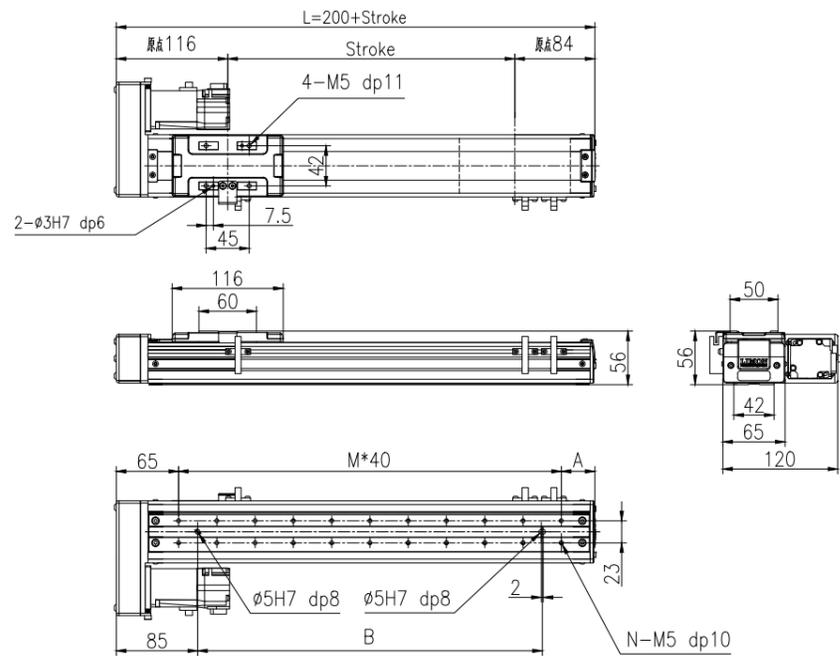
2D&3D文檔下載請至
www.limonrobot.cn



| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|----------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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 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



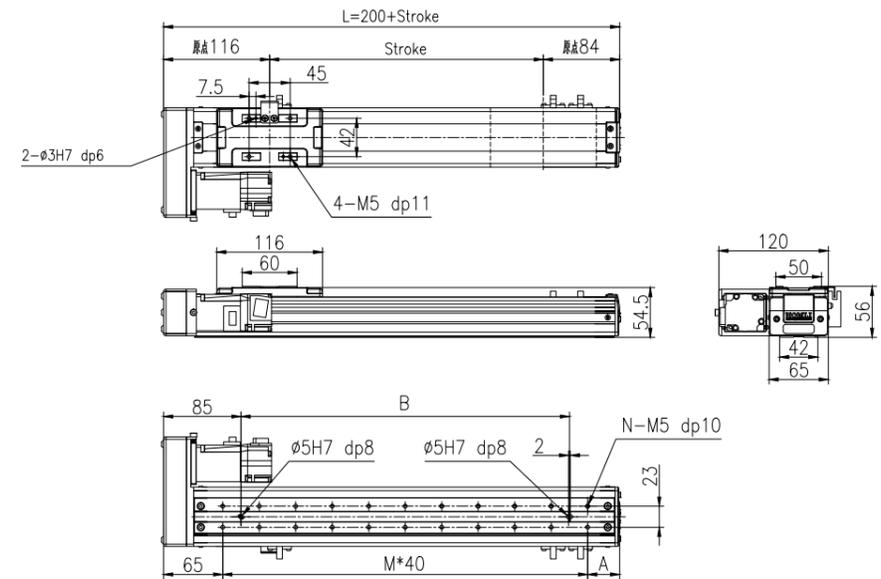
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|----------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| A | 35 | 45 | 55 | 25 | 35 | 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 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

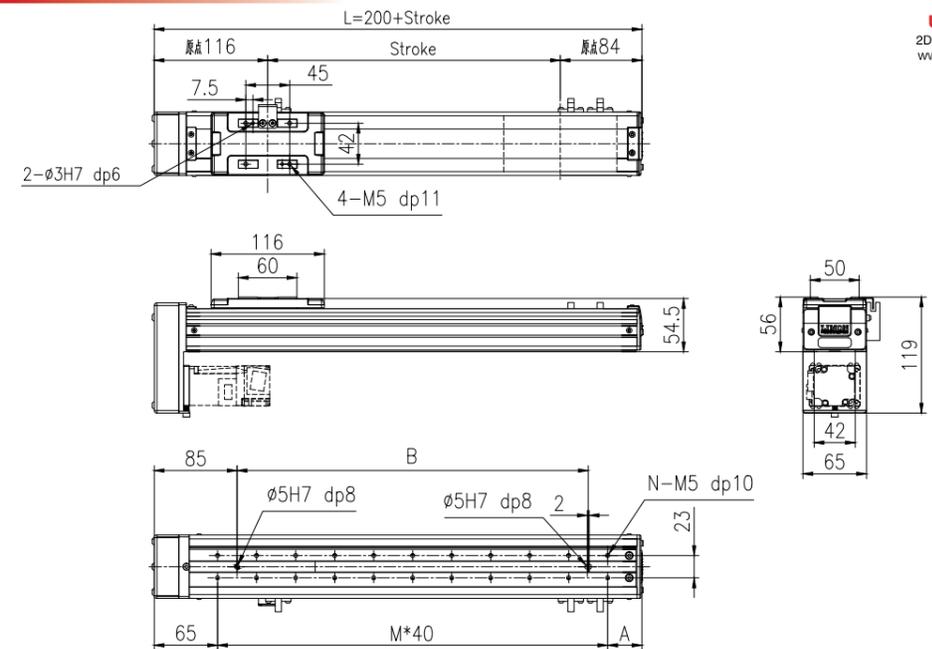
2D&3D文檔下載請至
www.limonrobot.cn



| 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 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 導程Pitch5 | | | | | | | | | | 250 |

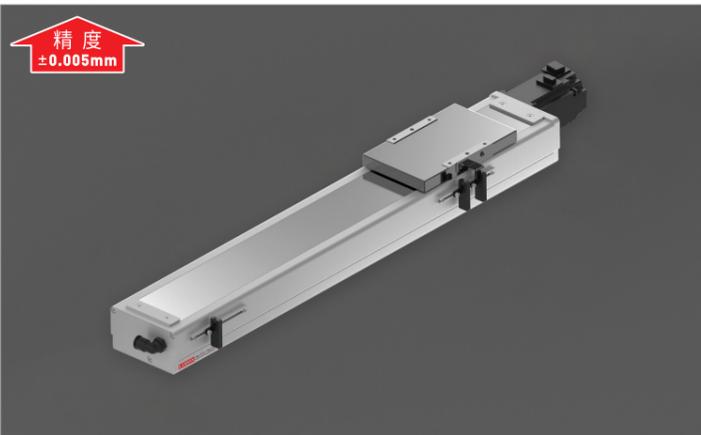
YSC 100 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

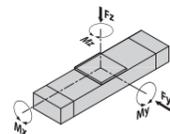
| | | | | | | | | |
|---------------|----------------------|-------------------|-------------------------|---|----------------------------|--|---|------------------------|
| YSC100 | L10 | 500 | 1P | MS | DB <small>注</small> | M40 | P3 | A001 |
| 本體型號 Item NO. | 螺桿導程 Ball Screw Lead | 行程 Stroke | 直線導軌滑塊數量 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, 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P144.



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) | ±0.005 | | | | | | | |
| 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | 16 | 20 | 5 | 10 | 16 | 20 | |
| 最高速度 Maximum Speed (mm/s) | *注1>Note1 | | | | | | | | |
| 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 40 | 24 | 18 | 14 | 50 | 30 | 22 | 18 |
| | 垂直使用Vertical (kg) | 14 | 13 | 11 | 5 | 18 | 16 | 14 | 6 |
| 定額推力 Rated Thrust (N) | 341 | 170 | 106 | 85 | 341 | 170 | 106 | 85 | |
| 最大空載扭矩 Max. No-load Driving Torque (N·m) | 0.1 | 0.12 | 0.16 | 0.2 | 0.1 | 0.12 | 0.16 | 0.2 | |
| 最大扭矩 Max. Driving Torque (N·m) | 10.9 | 12.5 | 14 | 16 | 10.9 | 12.5 | 14 | 16 | |
| 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.

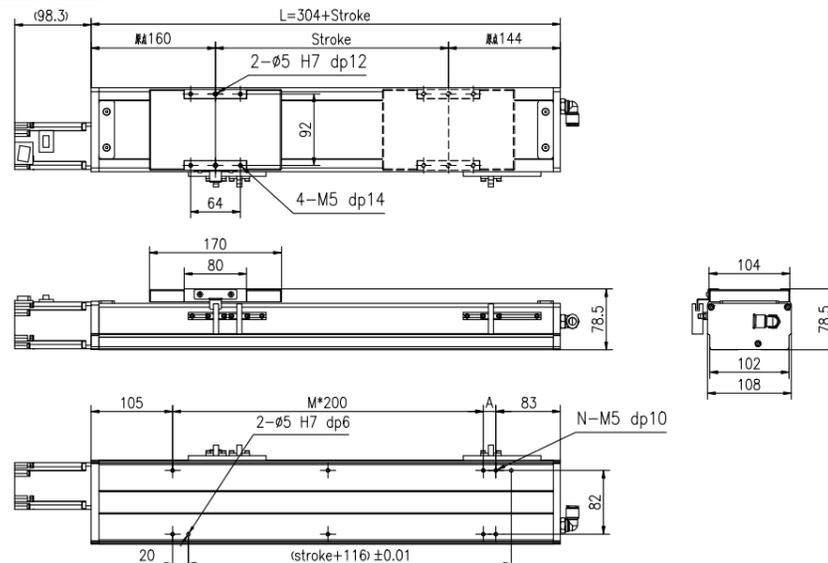
亞標全密式螺桿驅動型 YSC 100

Ball Screw Driven Linear Actuator

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



2D&3D文檔下載請至
www.limonrobot.cn



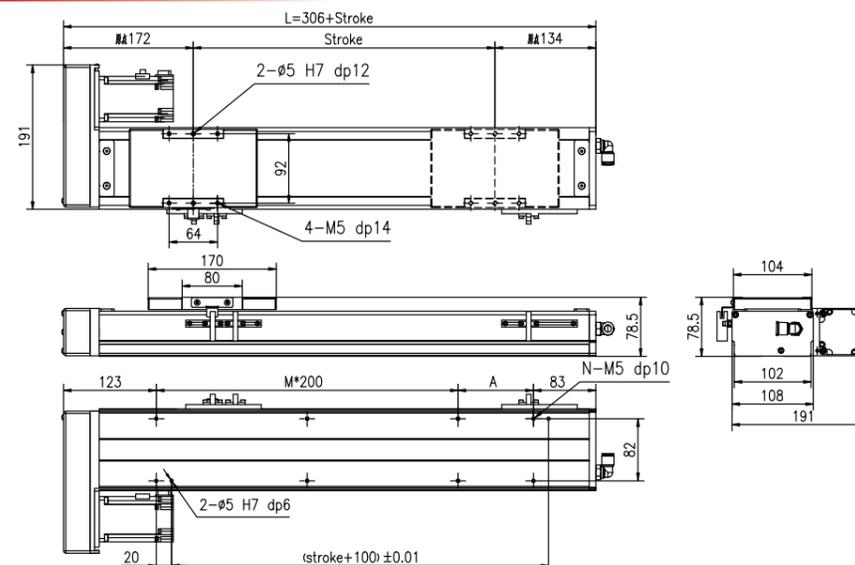
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|----------------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|------|------|------|------|------|------|------|------|
| L | 404 | 454 | 504 | 554 | 604 | 654 | 704 | 754 | 804 | 854 | 904 | 954 | 1004 | 1054 | 1104 | 1154 | 1204 | 1254 | 1304 | 1354 |
| A | 16 | 66 | 116 | 166 | 216 | 266 | 316 | 366 | 416 | 466 | 516 | 566 | 616 | 666 | 716 | 766 | 816 | 866 | 916 | 966 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 14 | 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 20 800 | | | | | | | | | | 導程 Pitch 16 640 | | | | | | | | | |
| | 導程 Pitch 10 500 | | | | | | | | | | 導程 Pitch 10 400 | | | | | | | | | |
| | 導程 Pitch 05 250 | | | | | | | | | | 導程 Pitch 05 200 | | | | | | | | | |

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



2D&3D文檔下載請至
www.limonrobot.cn



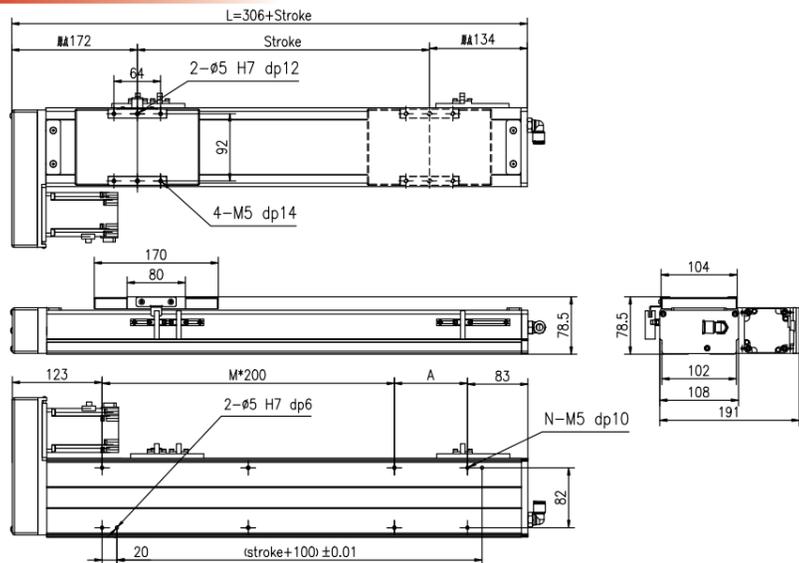
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|----------------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|------|------|------|------|------|------|------|------|
| 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 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 14 | 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 10 500 | | | | | | | | | | 導程 Pitch 10 400 | | | | | | | | | |
| | 導程 Pitch 05 250 | | | | | | | | | | 導程 Pitch 05 200 | | | | | | | | | |

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

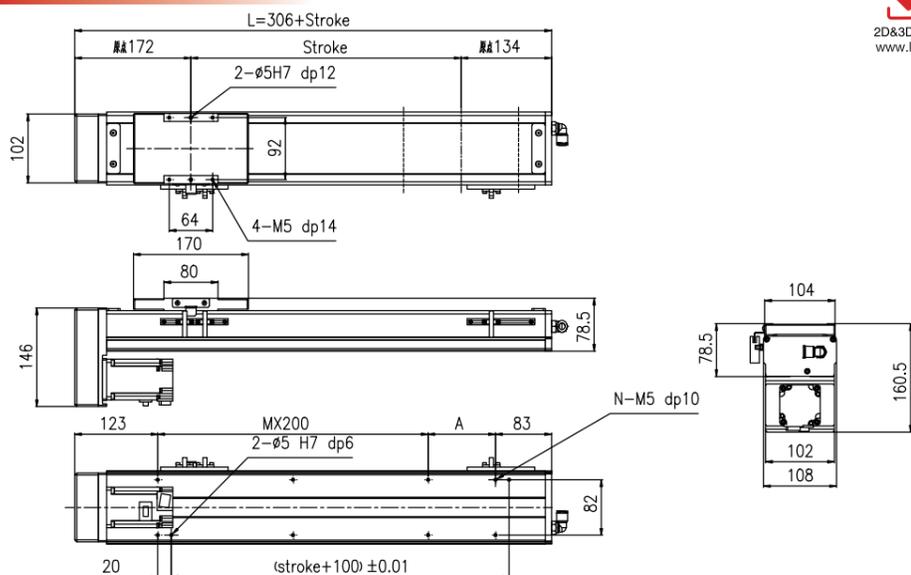
YSC100-1P/2P-MR
馬達右折安裝 Right Motor Mounting



| 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 | | | | | | | | | | | | | | | | 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。
#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 | | | | | | | | | | | | | | | | 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。
#Note1:When the stroke is more than 700mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

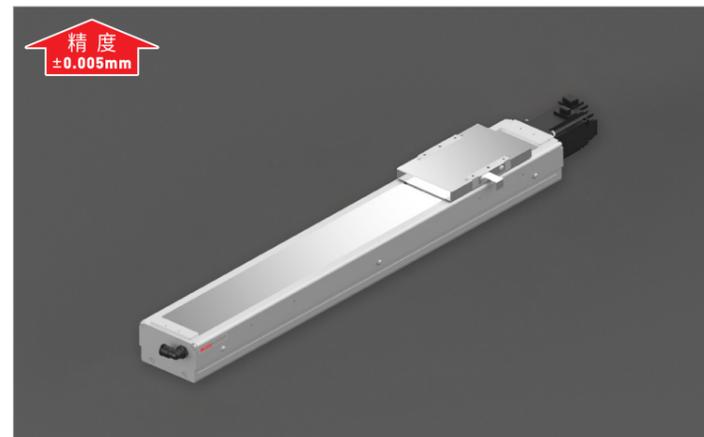
亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator YSC 110

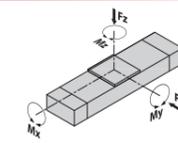
訂購型號代碼 Code

| | | | | | | | | |
|---------------|----------------------|-------------------|-------------------------|---|----------------------|---|--|------------------------|
| YSC110 | L10 | 500 | 4P | MS | DB 注 | 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 | 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 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P144.



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

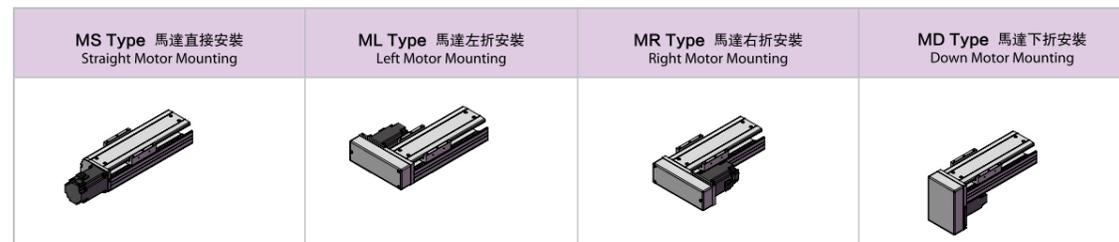


| Type | 4P |
|--------------|------|
| ■ F(y) (N) | 3427 |
| ■ F(z) (N) | 3427 |
| ■ M(x) (N·m) | 98 |
| ■ M(y) (N·m) | 40 |
| ■ M(z) (N·m) | 176 |

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

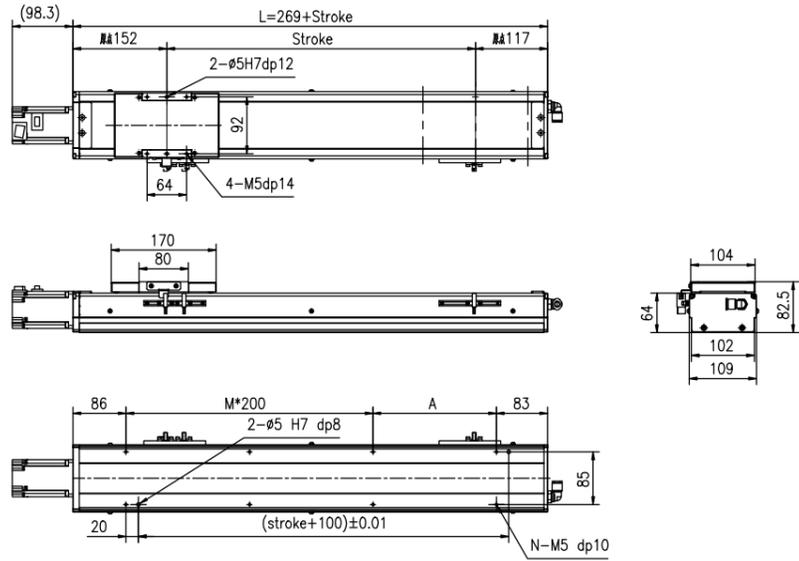
| 技術參數 | YSC | 4P (導軌滑塊數量) Block Quantity | | | |
|--|---------|----------------------------|------|------|------|
| | | 5 | 10 | 16 | 20 |
| 位置重複精度 Repetitive Accuracy (mm) | | ±0.005 | | | |
| 螺桿導程 Ball Screw Lead (mm) | | 5 | 10 | 16 | 20 |
| 最高速度 Maximum Speed (mm/s) | | 250 | 500 | 800 | 1000 |
| 最大可搬重量 Maximum Payload | *注*Note | 50 | 30 | 22 | 18 |
| | | 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 |
| 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#×2PCS | | | |
| 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：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

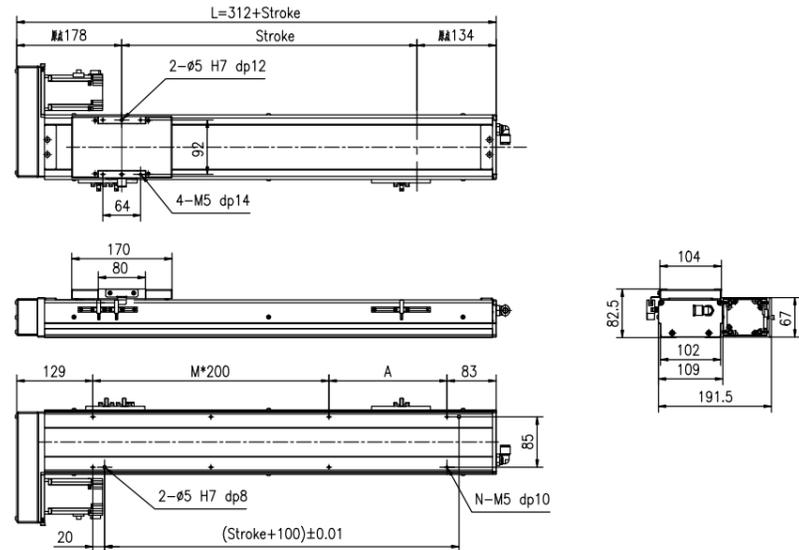
YSC110-MS 馬達直接安裝 Straight Motor Mounting



| 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 | | | | | | | | | | | | | | | | | 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：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



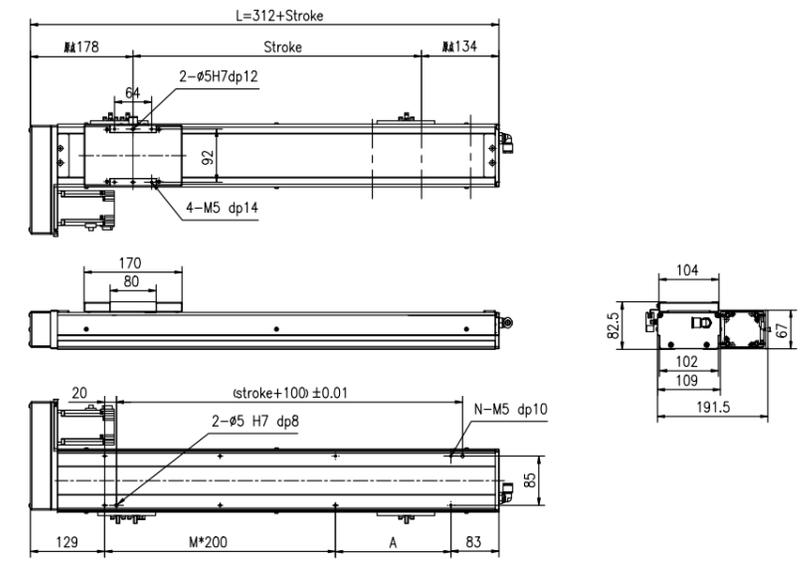
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | |
|-------------------------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|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

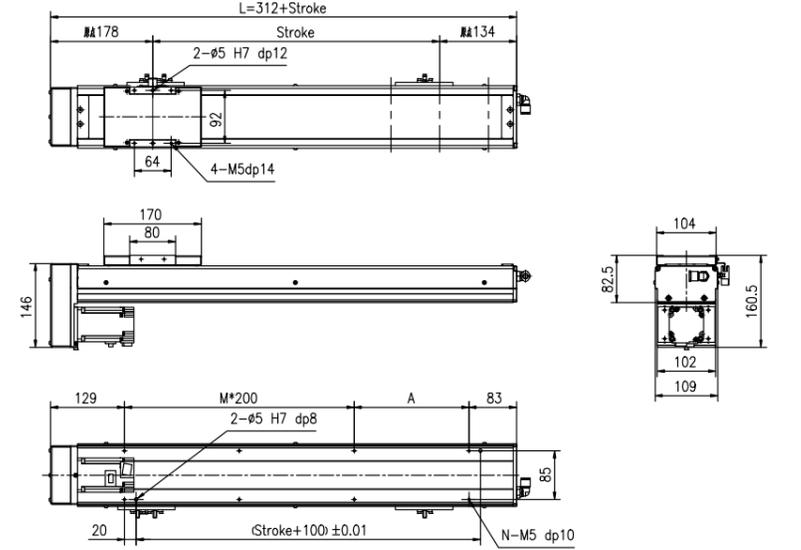
YSC110-MR 馬達右折安裝 Right Motor Mounting



| 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 | | | | | | | | | | | | | | | | | 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：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 | | | | | | | | | | | | | | | | | 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：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.

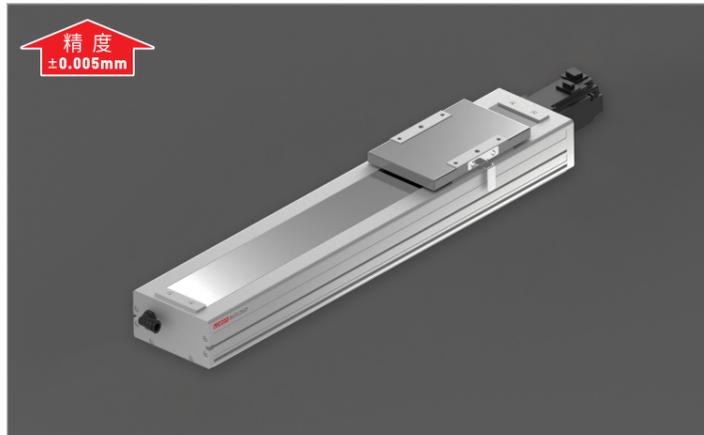
YSC 135 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

訂購型號代碼 Code

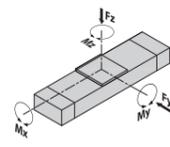
| | | | | | | | | |
|---------------|----------------------|----------------------------------|-------------------------|---|----------------------|---|--|------------------------|
| YSC135 | L10 | 500 | 4P | MS | DB | M40 | P3 | A001 |
| 本體型號 Item NO. | 螺桿導程 Ball Screw Lead | 行程 Stroke 100-1250 間隔Gap50 | 直線導軌滑塊數量 Block Quantity | 馬達方向 Motor Mounting Position | 輔助滑塊 Auxiliary Block | 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 | | 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 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P144.



最大動態力和力矩

Max Permissible Forces And Torques



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

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

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

馬達安裝方向 Motor Mounting Position Version

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

基本規格 Basic Specification

| YSC135 | | 4P(導軌滑塊數量) Block Quantity | | | | |
|--------------------------------|--|-----------------------------|------|------|------|----|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.005 | | | | |
| | 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | 16 | 20 | |
| | 最高速度 Maximum Speed (mm/s) | *注1*Note1: 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 | | | | |
| | 高剛性直線導軌 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) | | | | | |

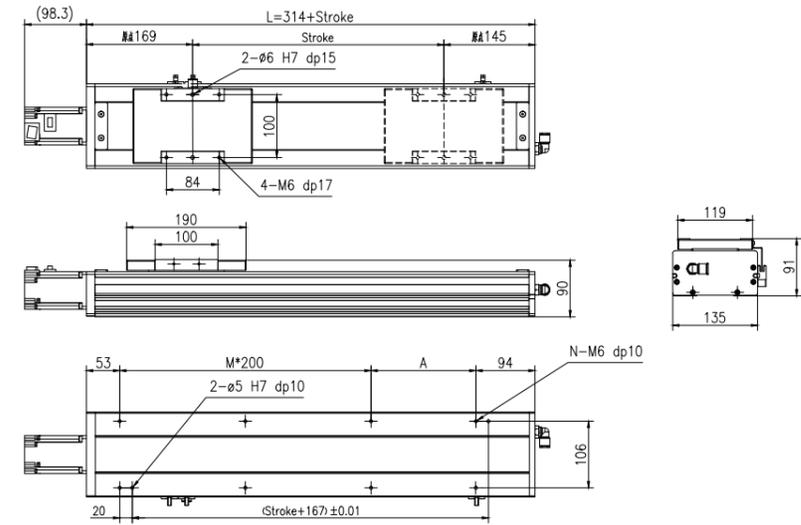
#注1: 行程超過900mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note 2: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

YSC 135

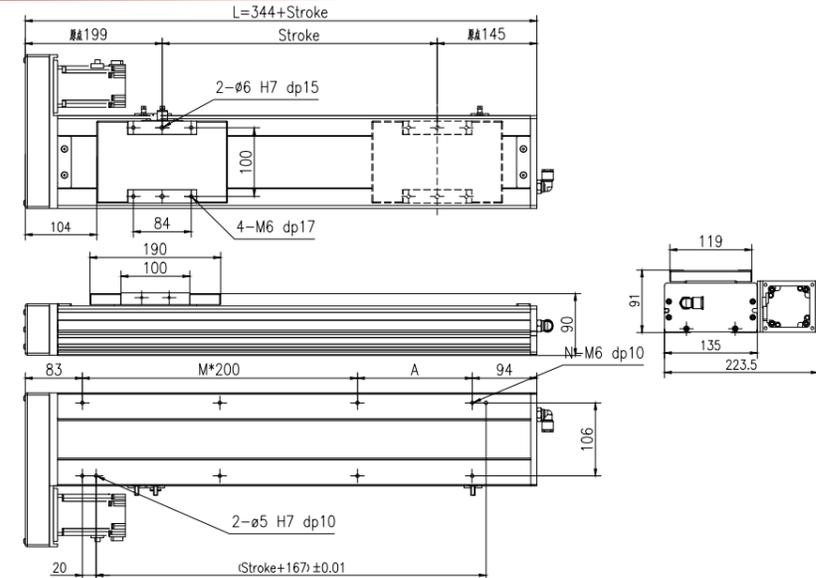
YSC135-4P-MS 馬達直接安裝 Straight Motor Mounting



| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|-------------------------------|-------------|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L | 414 | 464 | 514 | 564 | 614 | 664 | 714 | 764 | 814 | 864 | 914 | 964 | 1014 | 1064 | 1114 | 1164 | 1214 | 1264 | 1314 | 1364 | 1414 | 1464 | 1514 | 1564 |
| A | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 |
| M | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 |
| N | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 |
| 重量 Weight (kg) | 7.6 | 8.1 | 8.6 | 9.0 | 9.5 | 10.0 | 10.5 | 10.9 | 11.4 | 11.9 | 12.4 | 12.8 | 13.3 | 13.8 | 14.3 | 14.7 | 15.2 | 15.7 | 16.2 | 16.6 | 17.1 | 17.6 | 18.1 | 18.5 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 20 | 1000 | | | | | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 16 | 800 | | | | | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 10 | 500 | | | | | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 05 | 250 | | | | | | | | | | | | | | | | | | | | | | |

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

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



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

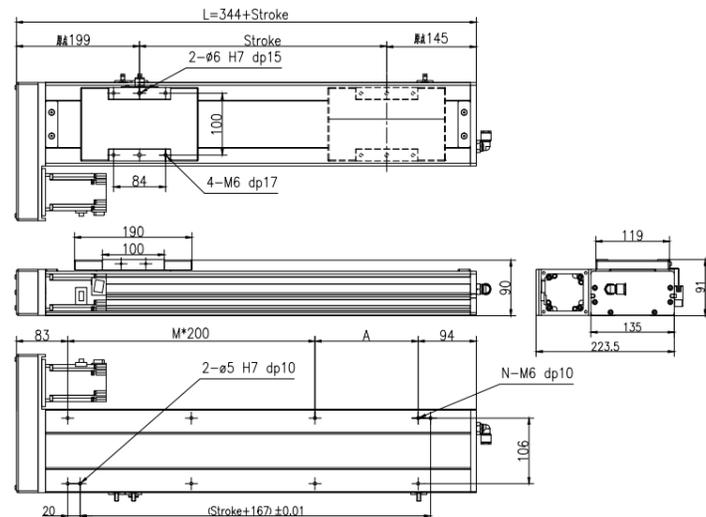
#注1: 行程超過900mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2: 此表格對應數據為Ø20螺桿的危險速度，Ø16螺桿參照YSO100(P19頁)。
#Note2: This sheet's data is dangerous speed of ball screw Ø20. Data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

YSC 135 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

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

2D&3D文檔下載請至
www.limonrobot.cn

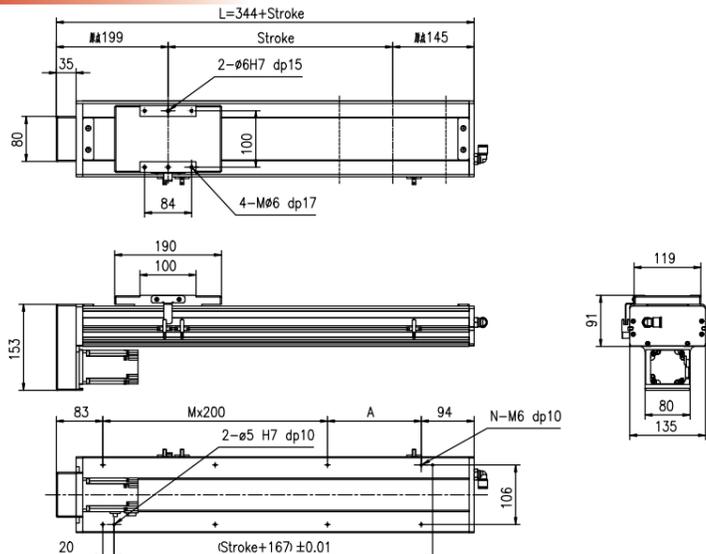


| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | | | | | | |
|-------------------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-------|-----|-------|
| 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) | | | | | | | | | | | | | | | | | | | 1000 | 800 | 640 | 520 | 400 | 360 | 250 | 225 | 200 | 162.5 | 125 | 112.5 |

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

YSC135-4P-MD
馬達下折安裝 Down Motor Mounting

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) | | | | | | | | | | | | | | | | | | | 1000 | 800 | 640 | 520 | 400 | 360 | 250 | 225 | 200 | 162.5 | 125 | 112.5 |

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

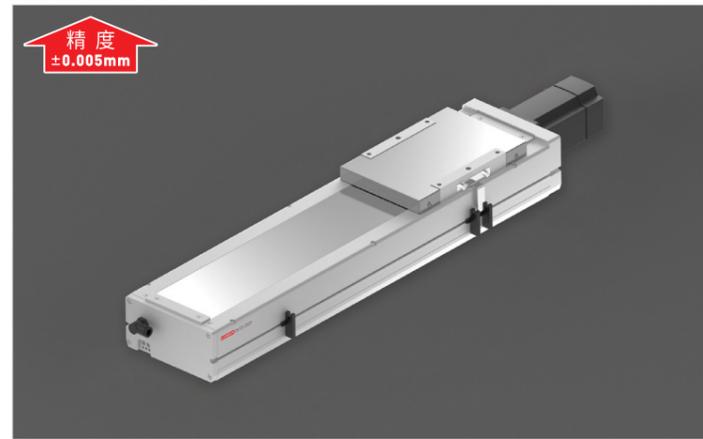
YSC 170 亞標全密式螺桿驅動型

Ball Screw Driven Linear Actuator

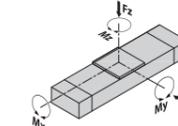
訂購型號代碼 Code

| | | | | | | | | |
|---------------|----------------------|-------------------|-------------------------|---|----------------------|--|--|------------------------|
| YSC170 | L10 | 500 | 4P | MS | DB | M40 | P3 | A001 |
| 本體型號 Item NO. | 螺桿導程 Ball Screw Lead | 行程 Stroke | 直線導軌滑塊數量 Block Quantity | 馬達方向 Motor Mounting Position | 輔助滑塊 Auxiliary Block | 馬達廠牌、功率 Motor Brand, Power Output | 限位傳感器數量 Photoelectric Sensor | 特注式樣 Special Order No. |
| | 05 10 20 40 | 100-1250, 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 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P144.



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



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

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

馬達安裝方向 Motor Mounting Position Version

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

基本規格 Basic Specification

| 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) | ±0.005 | | | | |
| | 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | 20 | 40 | |
| | 最高速度 Maximum Speed (mm/s) | 250 | 500 | 1000 | 2000 | |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 120 | 100 | 85 | 60 |
| | | 垂直使用Vertical (kg) | 60 | 50 | 35 | 20 |
| | 定額推力 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) | | | | | |

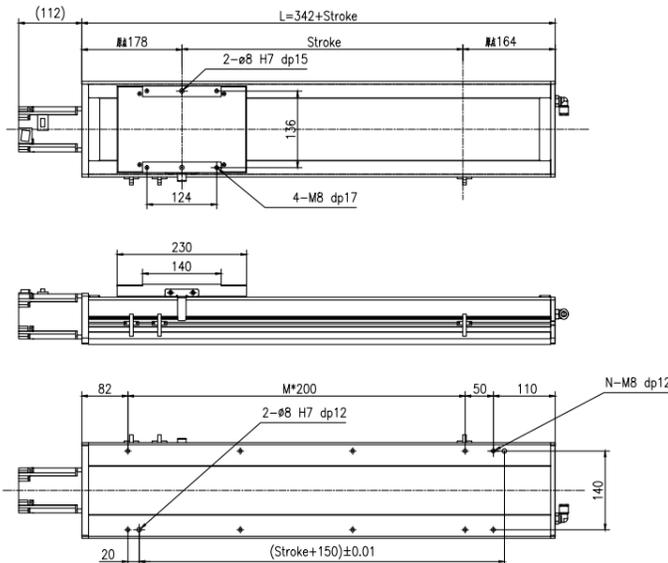
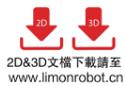
#注1: 行程超過850mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。
#Note 2: Date changes relevently according to different torque and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

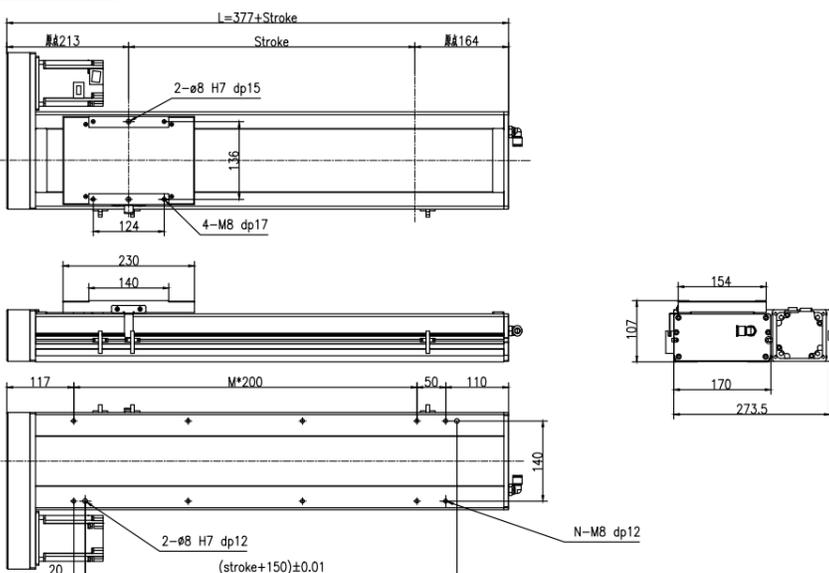


| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|------|
| 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) | | | | | | | | | | | | | | | | | | 2000 | 1500 | 1000 | 900 | | | |
| 導程 Pitch 40 | | | | | | | | | | | | | | | | | | 2000 | 1500 | 1000 | 900 | | | |
| 導程 Pitch 20 | | | | | | | | | | | | | | | | | | 1000 | 650 | 500 | 450 | | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | | 500 | 325 | 250 | 225 | | | |
| 導程 Pitch 05 | | | | | | | | | | | | | | | | | | 250 | 162.5 | 125 | 112.5 | | | |

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

YSC170-4P-ML

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 | 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) | | | | | | | | | | | | | | | | | | 2000 | 1500 | 1000 | 900 | | | |
| 導程 Pitch 40 | | | | | | | | | | | | | | | | | | 2000 | 1500 | 1000 | 900 | | | |
| 導程 Pitch 20 | | | | | | | | | | | | | | | | | | 1000 | 650 | 500 | 450 | | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | | 500 | 325 | 250 | 225 | | | |
| 導程 Pitch 05 | | | | | | | | | | | | | | | | | | 250 | 162.5 | 125 | 112.5 | | | |

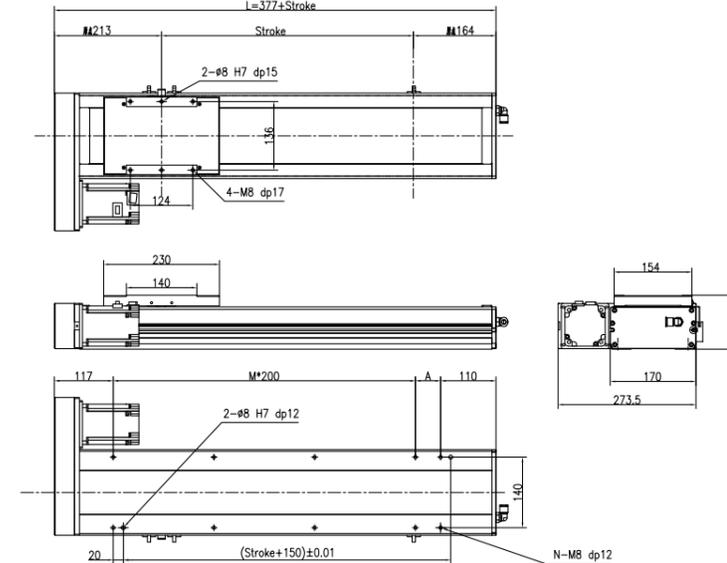
#注1: 行程超過850mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

亞標全密式螺桿驅動型 YSC 170

Ball Screw Driven Linear Actuator

YSC170-4P-MR

馬達右折安裝 Right Motor Mounting

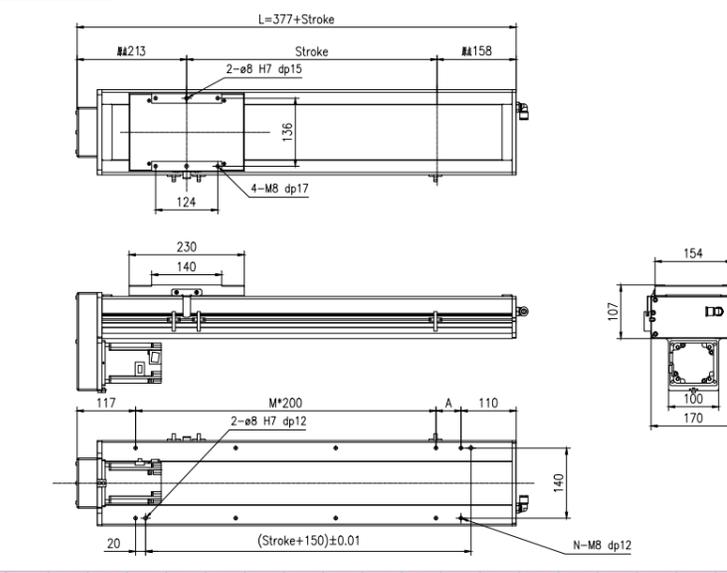


| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|------|
| L | 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) | | | | | | | | | | | | | | | | | | 2000 | 1500 | 1000 | 900 | | | |
| 導程 Pitch 40 | | | | | | | | | | | | | | | | | | 2000 | 1500 | 1000 | 900 | | | |
| 導程 Pitch 20 | | | | | | | | | | | | | | | | | | 1000 | 650 | 500 | 450 | | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | | 500 | 325 | 250 | 225 | | | |
| 導程 Pitch 05 | | | | | | | | | | | | | | | | | | 250 | 162.5 | 125 | 112.5 | | | |

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

YSC170-4P-MD

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 | 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) | | | | | | | | | | | | | | | | | | 2000 | 1500 | 1000 | 900 | | | |
| 導程 Pitch 40 | | | | | | | | | | | | | | | | | | 2000 | 1500 | 1000 | 900 | | | |
| 導程 Pitch 20 | | | | | | | | | | | | | | | | | | 1000 | 650 | 500 | 450 | | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | | 500 | 325 | 250 | 225 | | | |
| 導程 Pitch 05 | | | | | | | | | | | | | | | | | | 250 | 162.5 | 125 | 112.5 | | | |

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

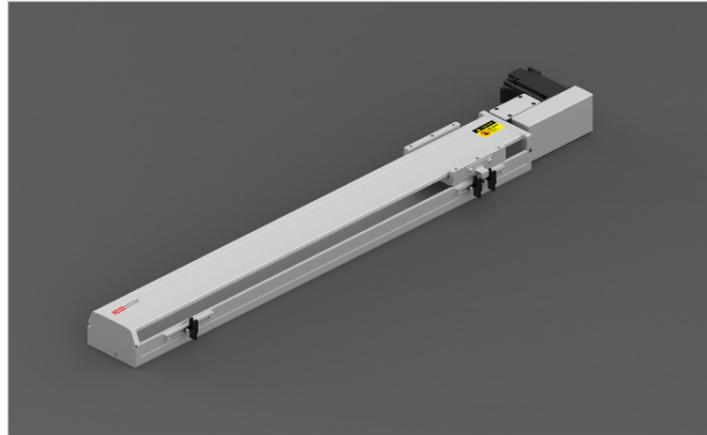
YTO100 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

訂購型號代碼 Code

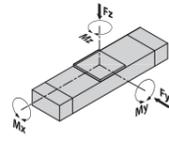
YTO100 - 500 - 2P - D01 - DB - M40 - P3 - A001

| | | | | | | | |
|----------------------|--|--------------------------------------|--|---|--|--|-------------------------------|
| 本體型號 Item NO. | 行程 Stroke 100-1550, 間隔Gap50 | 直線導軌滑塊數量 Block Quantity 2P | 馬達方向 Motor Mounting Position D01 D02 D03 D04 D05 D06 D07 D08 D09 | 輔助滑塊 Auxiliary Block 未填寫: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. |
|----------------------|--|--------------------------------------|--|---|--|--|-------------------------------|

注: 輔助滑塊選項相關參數參見樣本P144.



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

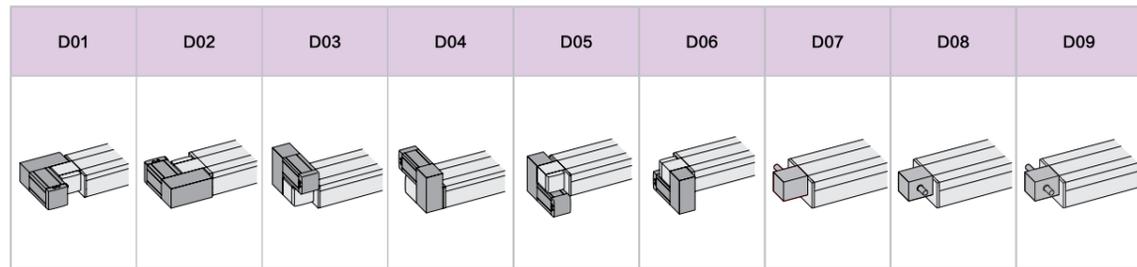


| Type | 2P |
|--------------|------|
| ■ F(y) (N) | 2571 |
| ■ F(z) (N) | 3060 |
| ■ M(x) (N·m) | 30 |
| ■ M(y) (N·m) | 30 |
| ■ M(z) (N·m) | 30 |

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| YTO100 | | 2P(導軌滑塊數量) Block Quantity |
|---|--|---|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ± 0.05 |
| | 皮帶輪導程 Pulley Lead (mm) | 80 /40 #注2#Note2 |
| | 皮帶型號 Belt Type | 5M-15 |
| | 最高速度 Maximum Speed (mm/s) | 2000 |
| | 最大可搬重量 #注1 #Note1 Maximum Payload | 水平使用Horizontal (kg) 12 垂直使用Vertical (kg) 6 |
| | 最大空載扭矩 Max. No-load Driving Torque (N·m) | 0.3 |
| 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) | 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) | |

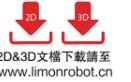
#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。

#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。

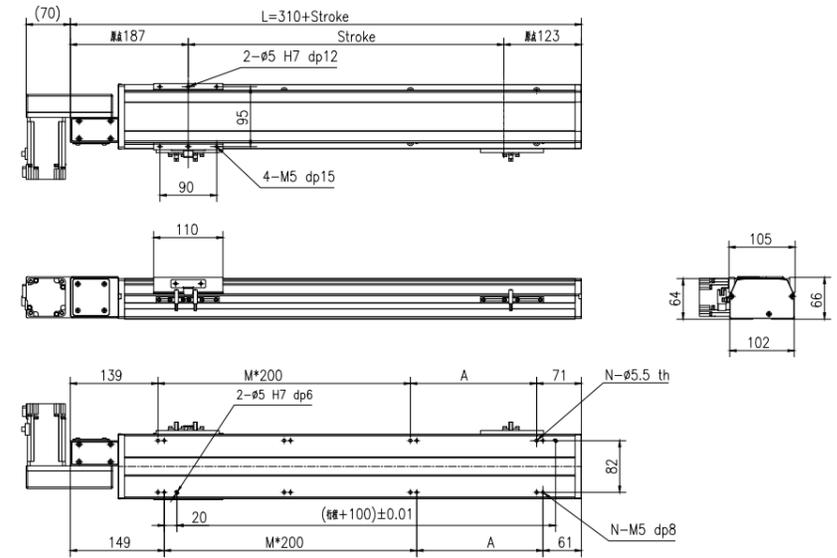
Note 2: Pulley's original lead is 80mm, which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

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



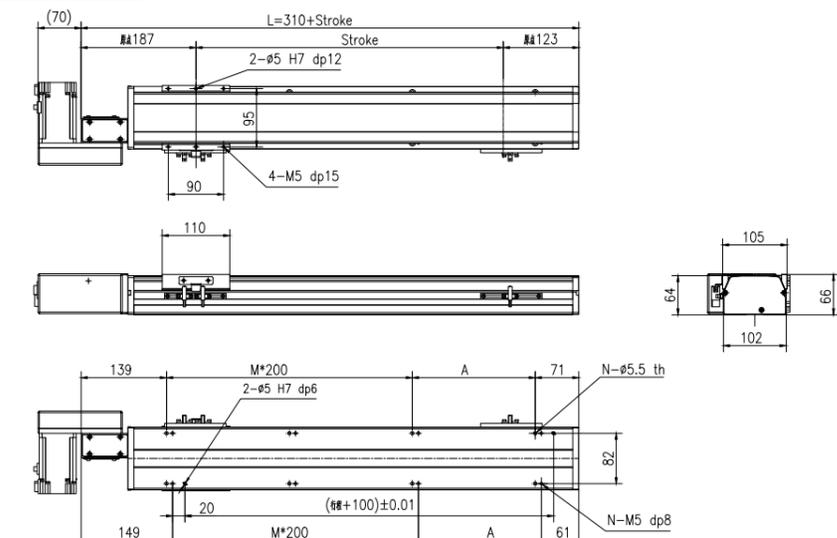
2D&3D文檔下載請至
www.limonrobot.cn

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

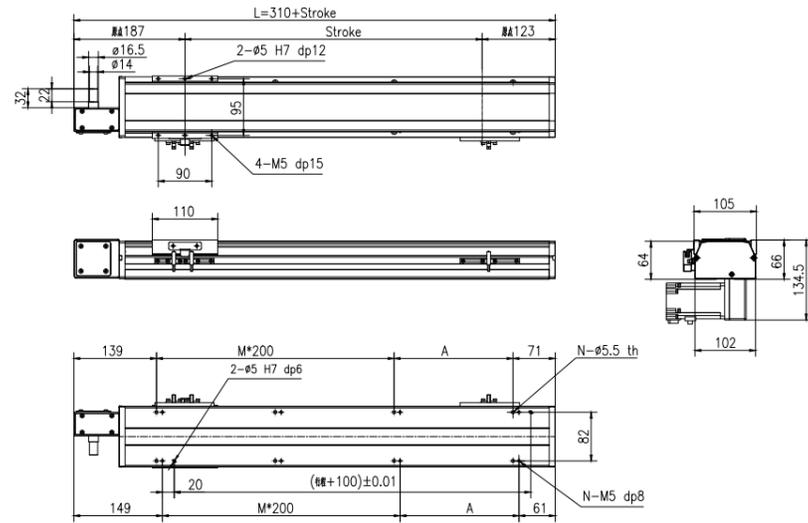


| | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| L | 410 | 460 | 510 | 560 | 610 | 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-D07

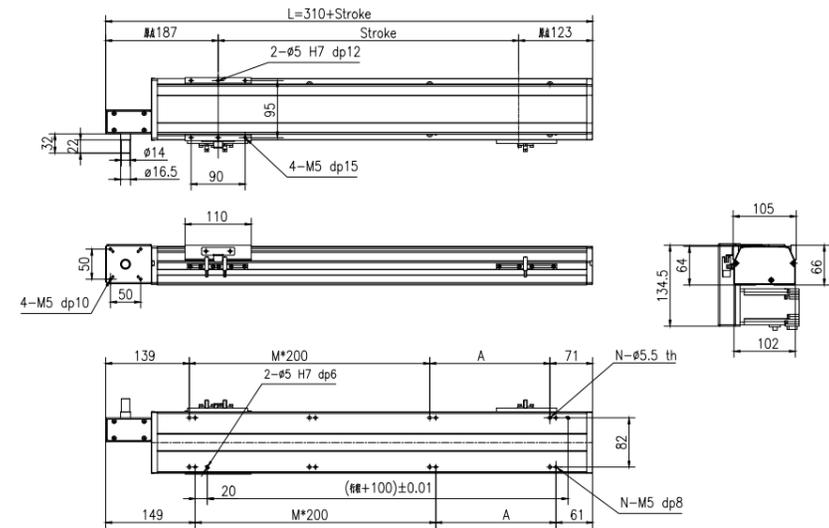
2D&3D文檔下載請至
www.limonrobot.cn



| | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| 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

2D&3D文檔下載請至
www.limonrobot.cn

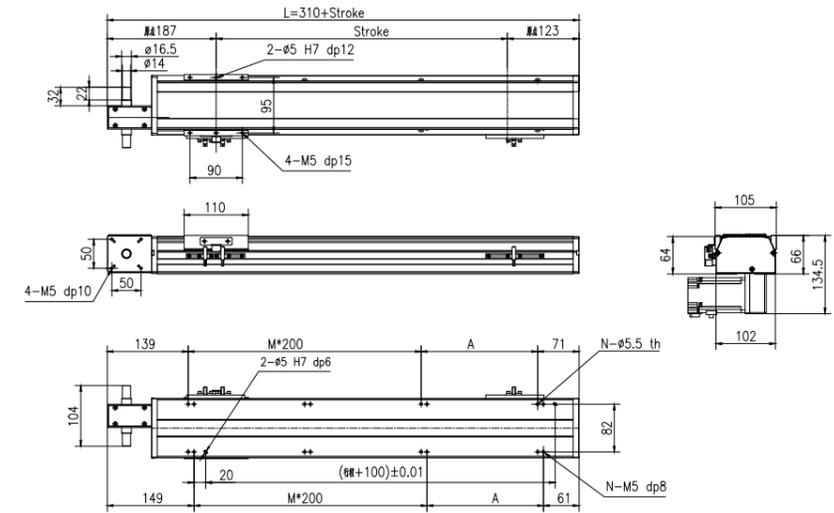


| | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| L | 410 | 460 | 510 | 560 | 610 | 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

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 |
| 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

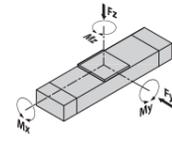
訂購型號代碼 Code

| | | | | | | | | | | | | | | |
|---------------|---|-----------------------------------|---|----------------------------------|---|--|---|---|---|---|---|--|---|---------------------------|
| 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 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P144.



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

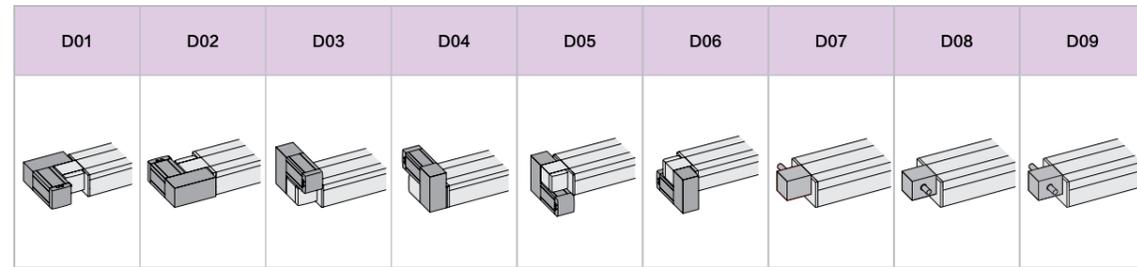


| Type | 4P |
|-------------|------|
| ■F(y) (N) | 3427 |
| ■F(z) (N) | 3427 |
| ■M(x) (N·m) | 98 |
| ■M(y) (N·m) | 40 |
| ■M(z) (N·m) | 176 |

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| YTO110 | | 4P(導軌滑塊數量) Block Quantity |
|--------------------------------|--|--|
| 技術參數 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 |
| 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) | 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。

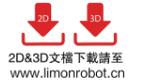
#Note1: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

#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。

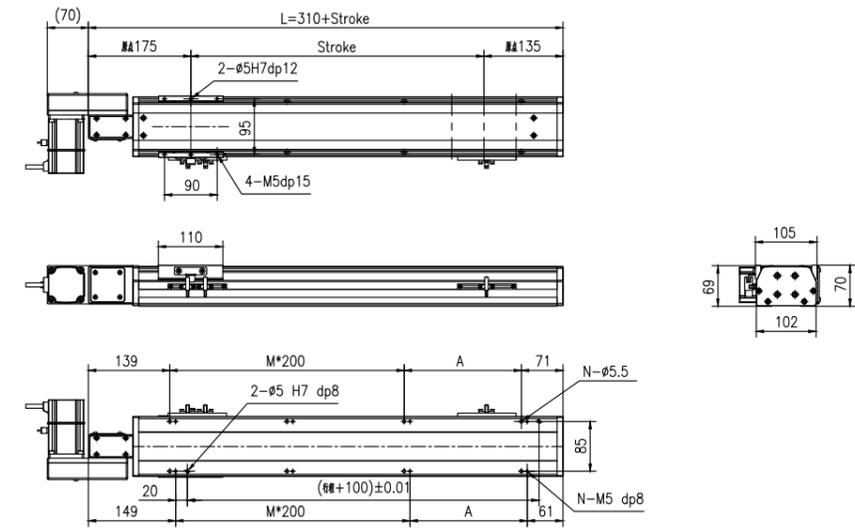
Note 2: Pulley's original lead is 80mm, which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

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

YTO110-4P-D01



2D&3D文檔下載請至
www.limonrobot.cn

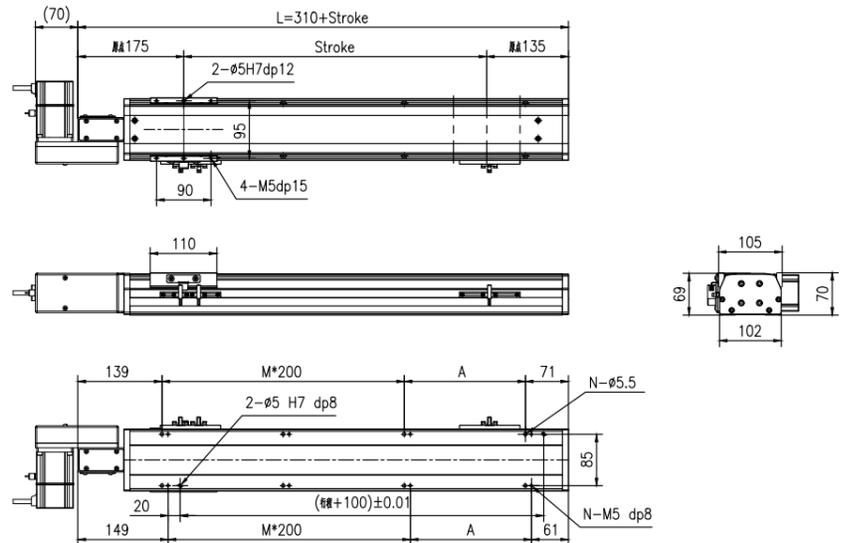


| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L | 410 | 460 | 510 | 560 | 610 | 660 | 710 | 760 | 810 | 860 | 910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

YTO110-4P-D02



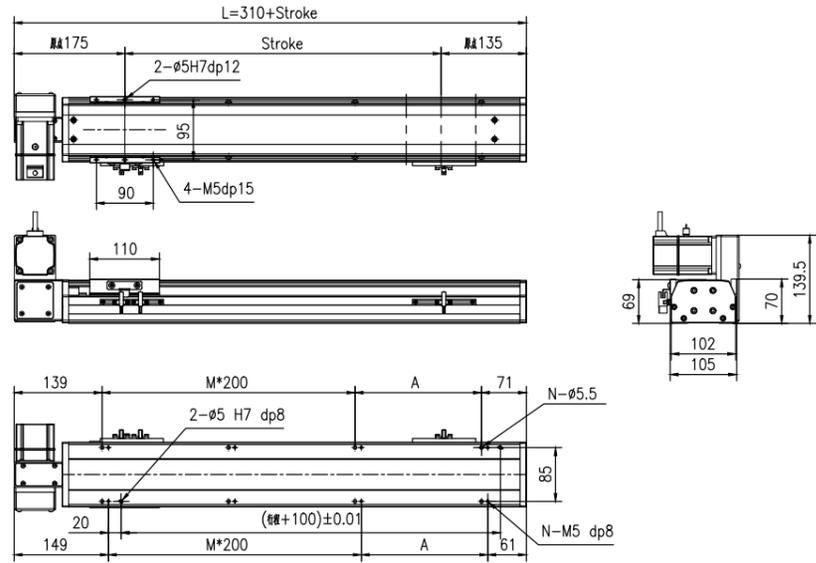
2D&3D文檔下載請至
www.limonrobot.cn



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

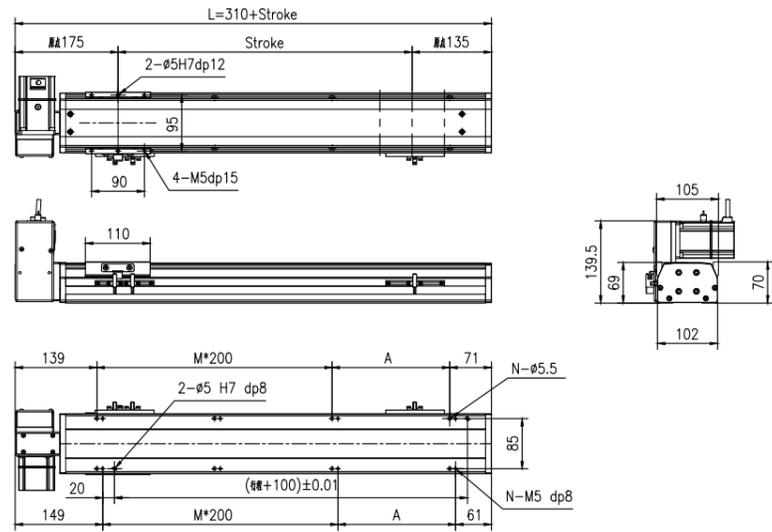
YTO110 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO110-4P-D03



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

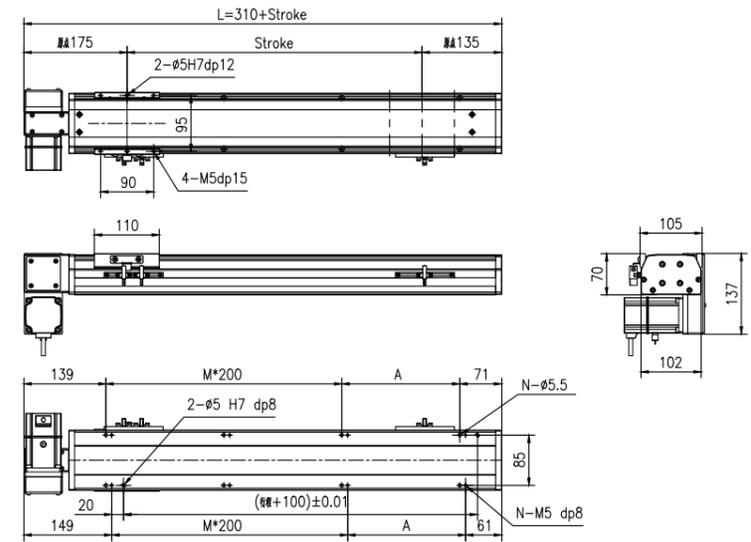
YTO110-4P-D04



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

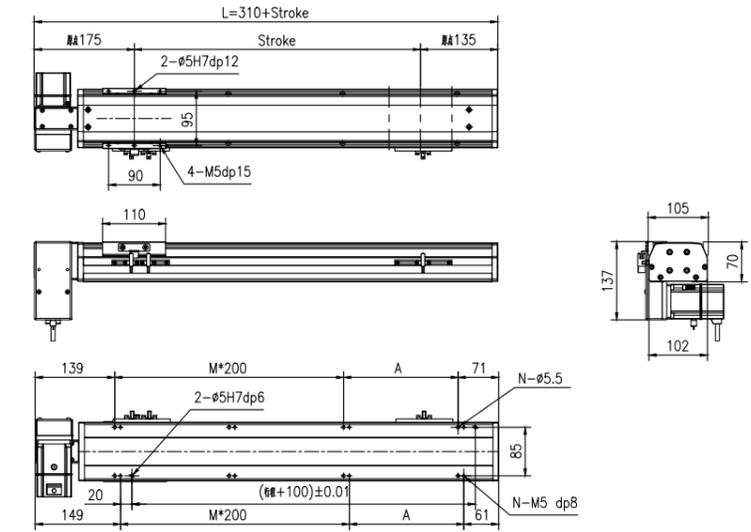
亞標半密式同步帶驅動型 YTO110 Belt Driven Linear Actuator

YTO110-4P-D05



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

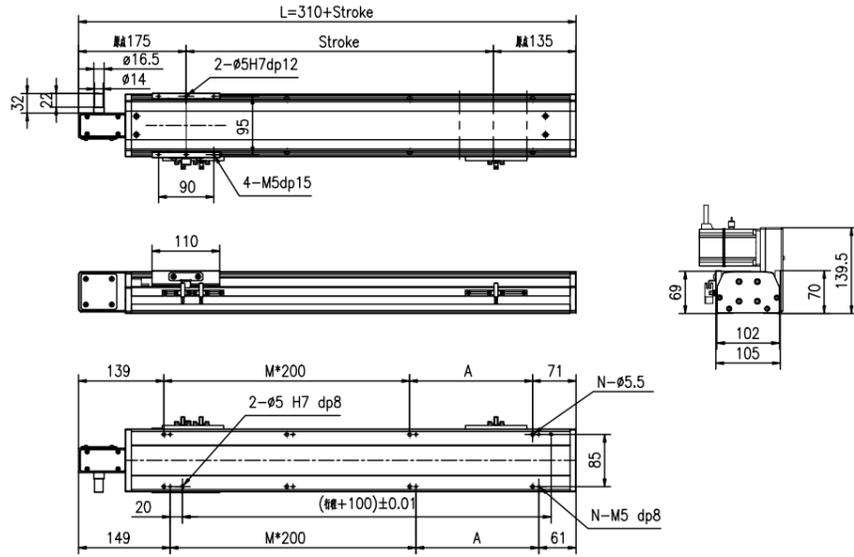
YTO110-4P-D06



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

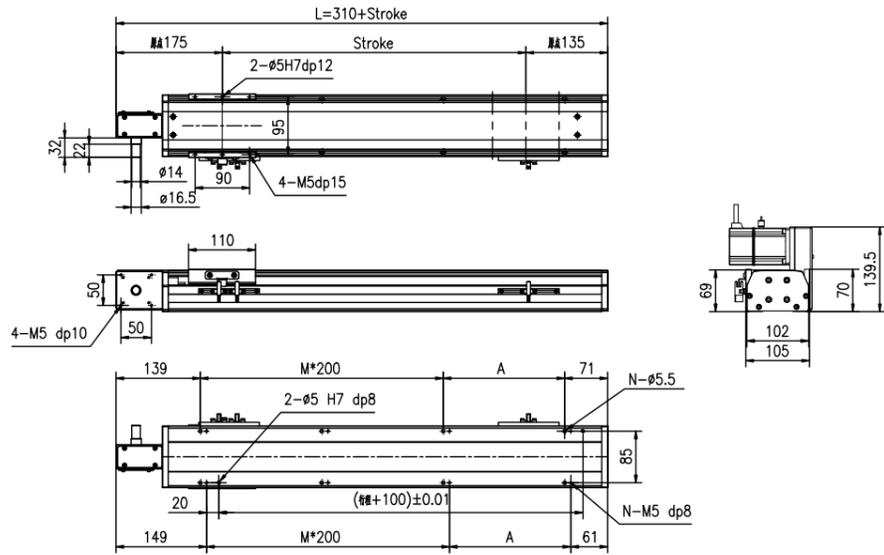
YTO110 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO110-4P-D07



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

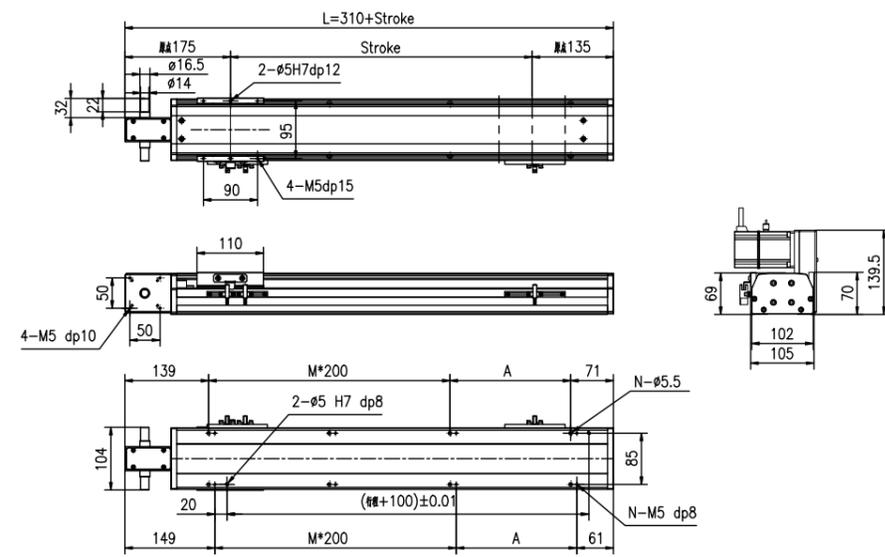
YTO110-4P-D08



| | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 |

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

YTO110-4P-D09



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

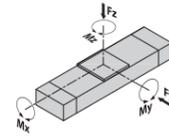
訂購型號代碼 Code

| | | | | | | | |
|---------------|-----------------------------------|----------------------------------|---|---|---|--|---------------------------|
| YTO135 | 500 | 4P | D01 | DB <small>注</small> | M40 | P3 | A001 |
| 本體型號 Item NO. | 行程 Stroke 100-4000 間隔Gap100 | 直線導軌滑塊數量 Block Quantity 4P | 馬達方向 Motor Mounting Positon | 輔助滑塊 Auxiliary Block 未填寫:單滑塊 DB:輔助滑塊 | 馬達廠牌、功率 Motor Brand - Power Output | 限位傳感器數量 Photoelectric Sensor | 特注式樣 Special Order No. |
| | | | 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 No Mark: No Sensor | |

注: 輔助滑塊選項相關參數參見樣本P144.



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

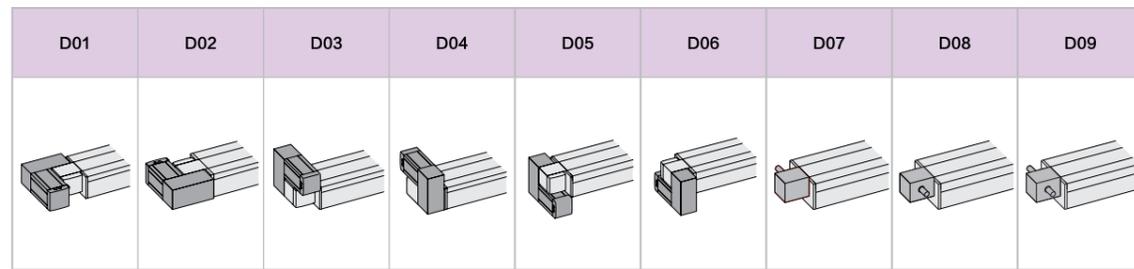


| Type | 4P |
|--------------|------|
| ■ F(y) (N) | 5370 |
| ■ F(z) (N) | 5370 |
| ■ M(x) (N·m) | 142 |
| ■ M(y) (N·m) | 104 |
| ■ M(z) (N·m) | 346 |

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



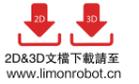
基本規格 Basic Specification

| 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 |
| 主機截面最大外形 Max Outline of Main Engine's Cross Section (mm) | 135 × 93 | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | |

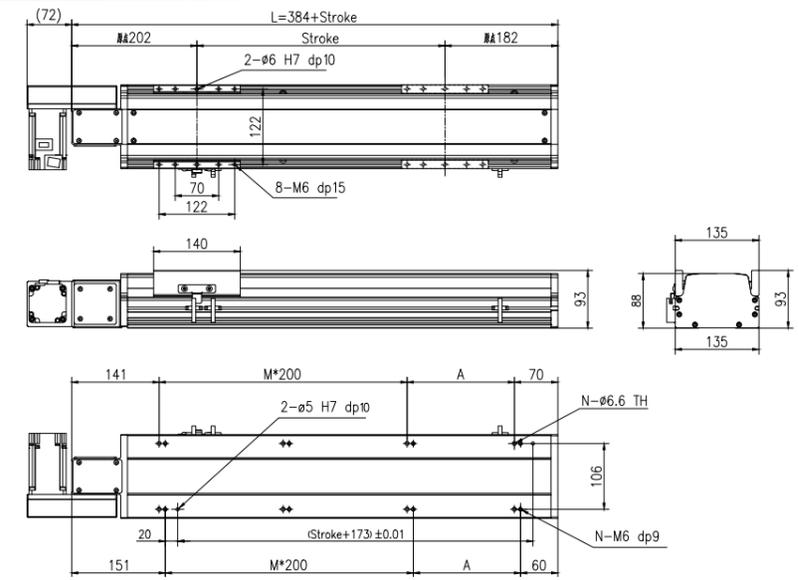
#注1: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。
#Note1: Data changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.
#注2: 皮帶輪原始導程為110mm, 標準品默認附減速機構, 減速後導程為50mm。
Note 2: Pulley's original lead is 110mm, which standard type is equipped with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



2D&3D文檔下載請至
www.limonrobot.cn

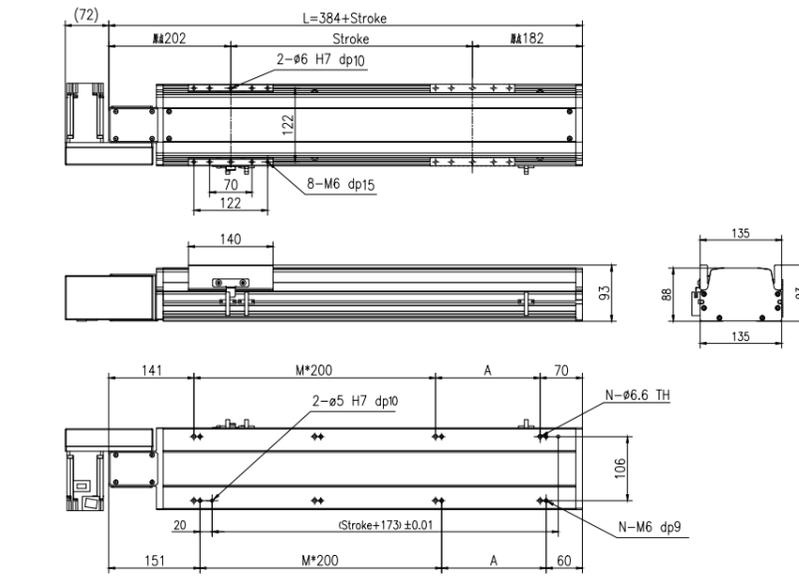


| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

YTO135-4P-D02



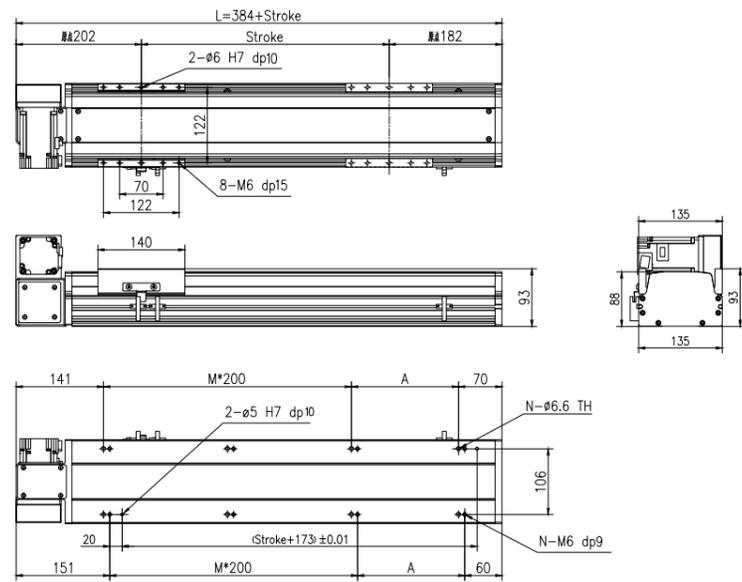
2D&3D文檔下載請至
www.limonrobot.cn



| 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 | 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 |

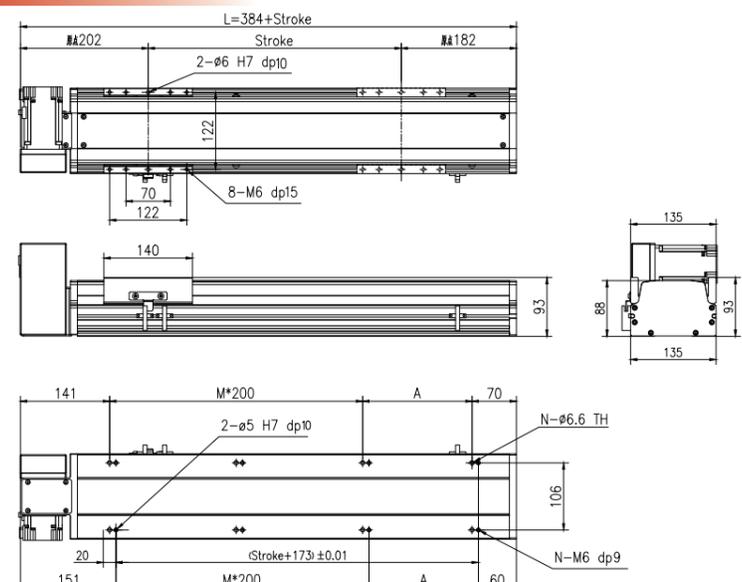
YTO135 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO135-4P-D03



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

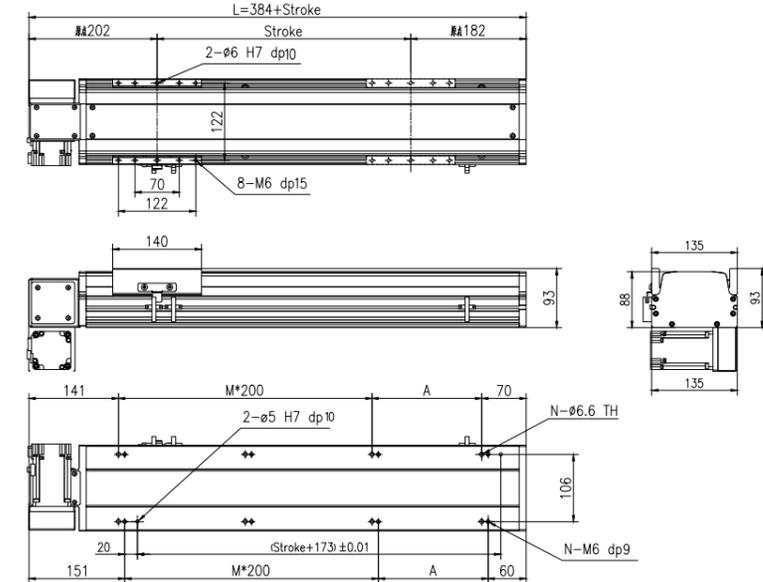
YTO135-4P-D04



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

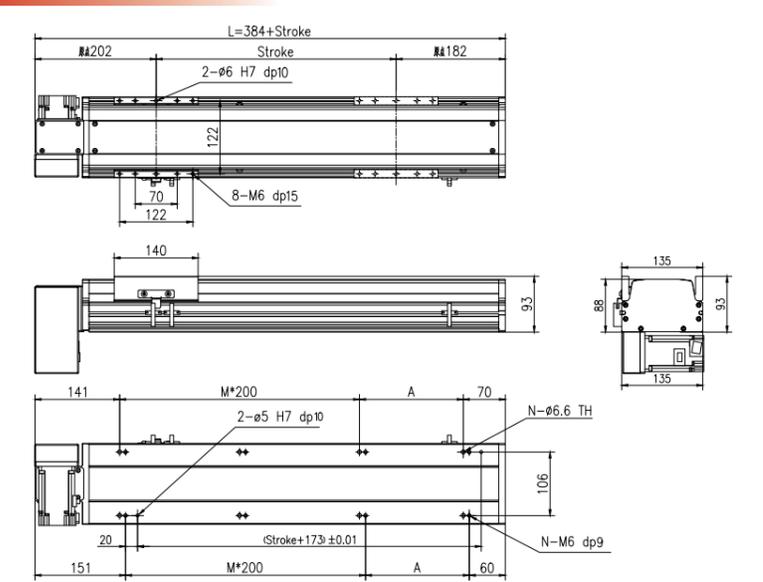
亞標半密式同步帶驅動型 YTO135 Belt Driven Linear Actuator

YTO135-4P-D05



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

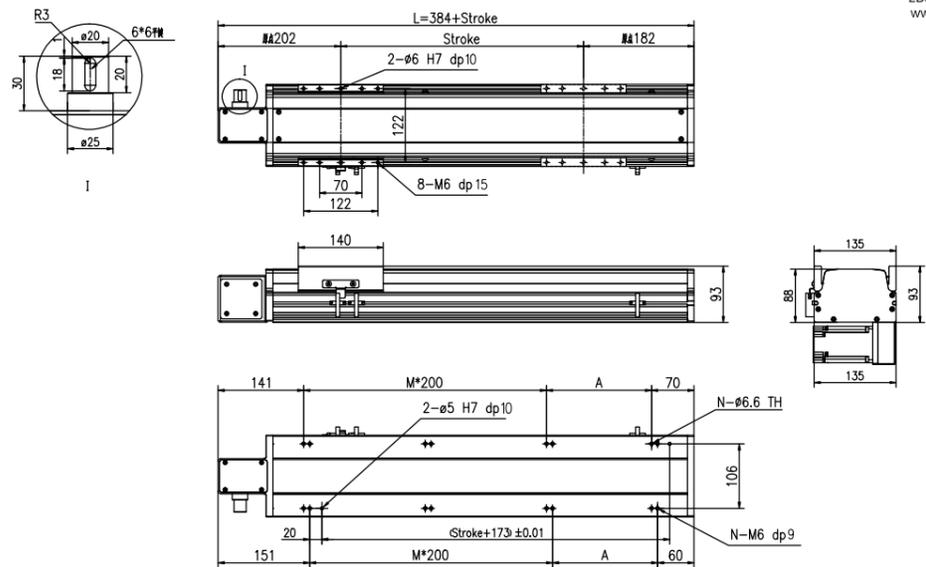
YTO135-4P-D06



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

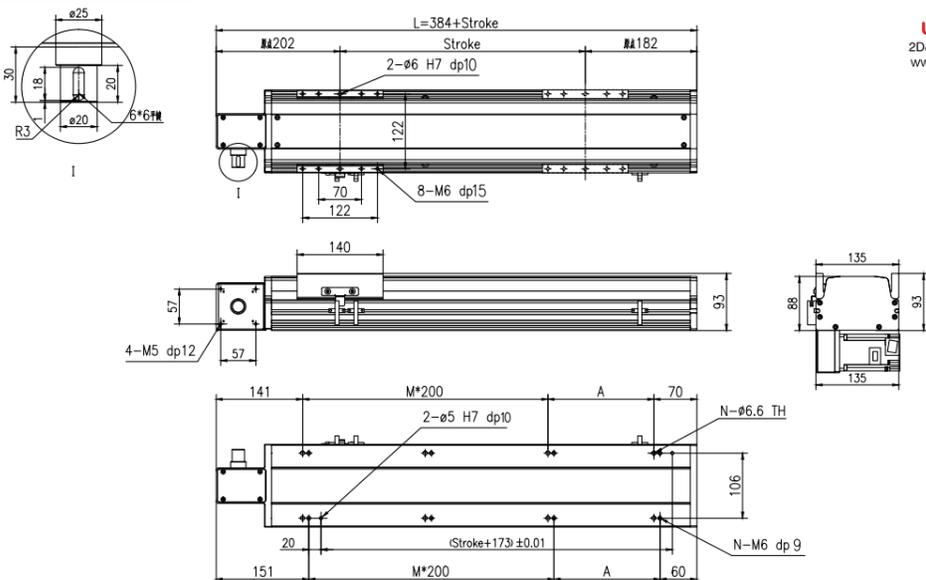
YTO135 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO135-4P-D07



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

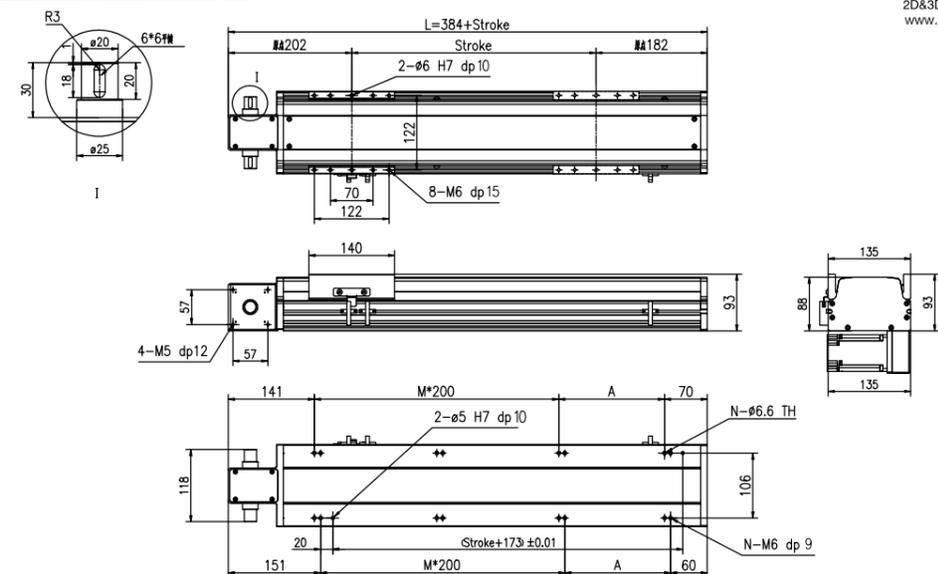
YTO135-4P-D08



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

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

YTO135-4P-D09



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

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

訂購型號代碼 Code

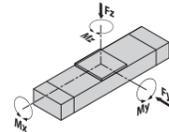
| | | | | | | | |
|----------------|------------|-----------|------------|----------------------------|------------|-----------|-------------|
| YTO135M | 500 | 4P | D01 | DB <small>注</small> | M40 | P3 | A001 |
|----------------|------------|-----------|------------|----------------------------|------------|-----------|-------------|

| | | | | | | | |
|---------------|------------------------------|----------------------------|--|---------------------------------------|--|---|------------------------|
| 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: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. |
|---------------|------------------------------|----------------------------|--|---------------------------------------|--|---|------------------------|

注: 輔助滑塊選項相關參數參見樣本P144.



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

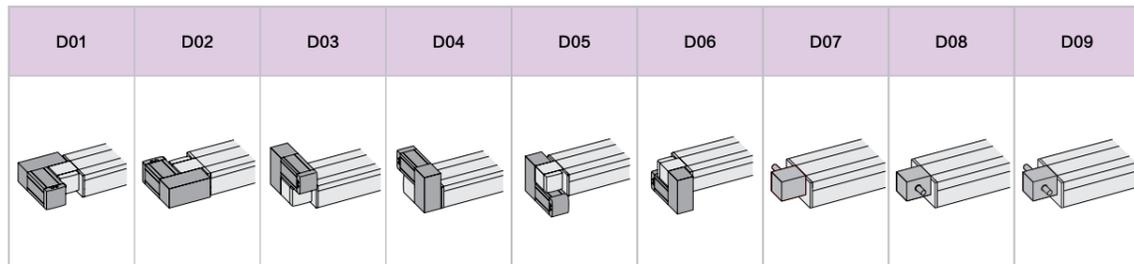


| Type | 4P |
|------------|------|
| F(y) (N) | 5370 |
| F(z) (N) | 5370 |
| M(x) (N·m) | 142 |
| M(y) (N·m) | 104 |
| M(z) (N·m) | 346 |

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| YTO135M | | 4P(導軌滑塊數量) Block Quantity | |
|--|---|---------------------------|----|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.05 | |
| | 皮帶輪導程 Pulley Lead (mm) | 110 / 50 #注2#Note2 | |
| | 皮帶型號 Belt type | 5M-25 | |
| | 最高速度 Maximum Speed (mm/s) | 3000 | |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 40 |
| | | 垂直使用Vertical (kg) | 12 |
| 最大空載扭矩 Max. No-load Driving Torque (N·m) | | 0.3 | |
| | 最大扭矩 Max. Driving Torque (N·m) | 6 | |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 100-2000 mm/ 100 Pitch | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 400 | |
| | 高剛性直線滑軌 Linear Guide (mm) | 15# × 2 PCS | |
| | 主機截面最大外形 Max Outline of Main Engine's Cross Section (mm) | 135 × 78 | |
| 原點感應器 Home Sensor | | EE-SX672(NPN) | |

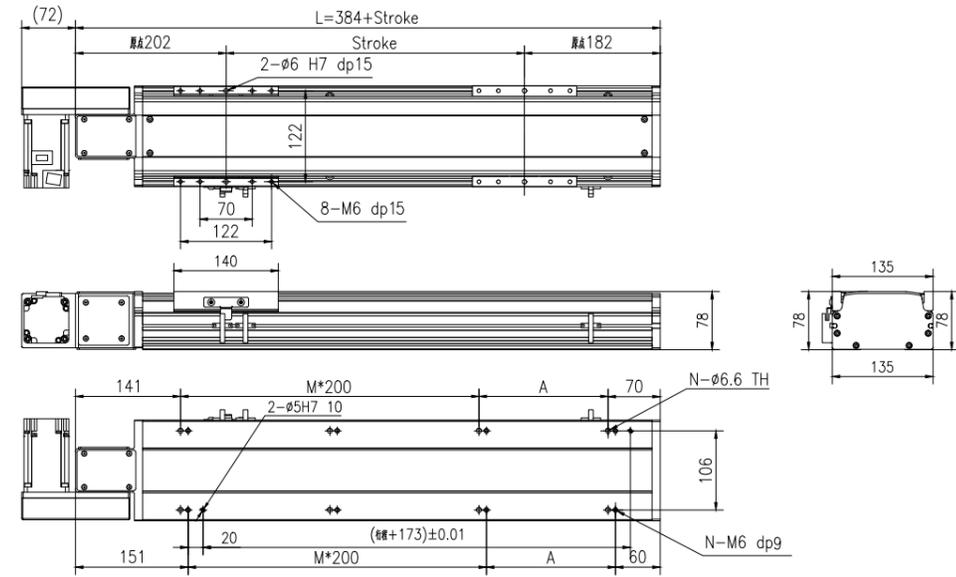
#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note1: Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.
#注2: 皮帶輪原始導程為110mm，標準品默認附減速機構，減速後導程為50mm。
Note 2:Pulley's original lead is 110mm,which standard type is equipped with reduction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

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



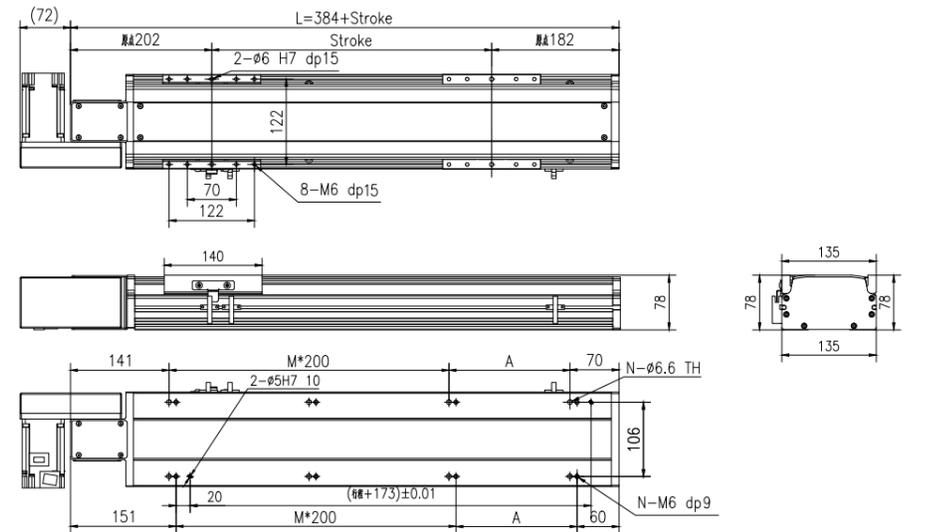
2D&3D文檔下載請至
www.limonrobot.cn

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 | 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 | 24 | 24 | 24 | 24 | 24 | |
| 重量 Weight (kg) | 15.6 | 16.1 | 16.5 | 17.0 | 17.5 | 18.0 | 18.4 | 18.9 | 19.4 | 19.9 | 20.3 | 20.8 | 21.3 | 21.8 | 22.2 | 22.7 | 23.2 | 23.7 | 24.1 | |

YTO135M-4P-D02

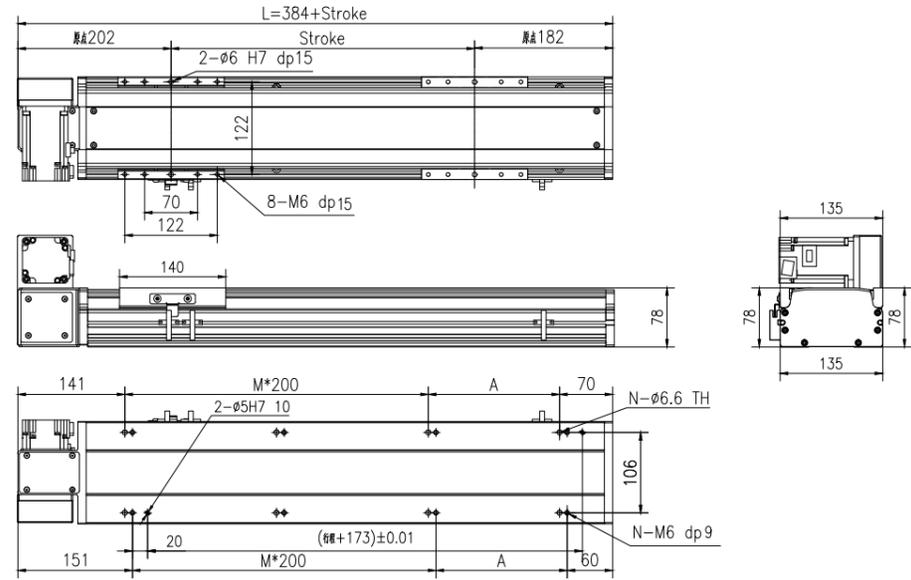


| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 | 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 | 24 | 24 | 24 | 24 | 24 | |
| 重量 Weight (kg) | 15.6 | 16.1 | 16.5 | 17.0 | 17.5 | 18.0 | 18.4 | 18.9 | 19.4 | 19.9 | 20.3 | 20.8 | 21.3 | 21.8 | 22.2 | 22.7 | 23.2 | 23.7 | 24.1 | |

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

YTO135M-4P-D03

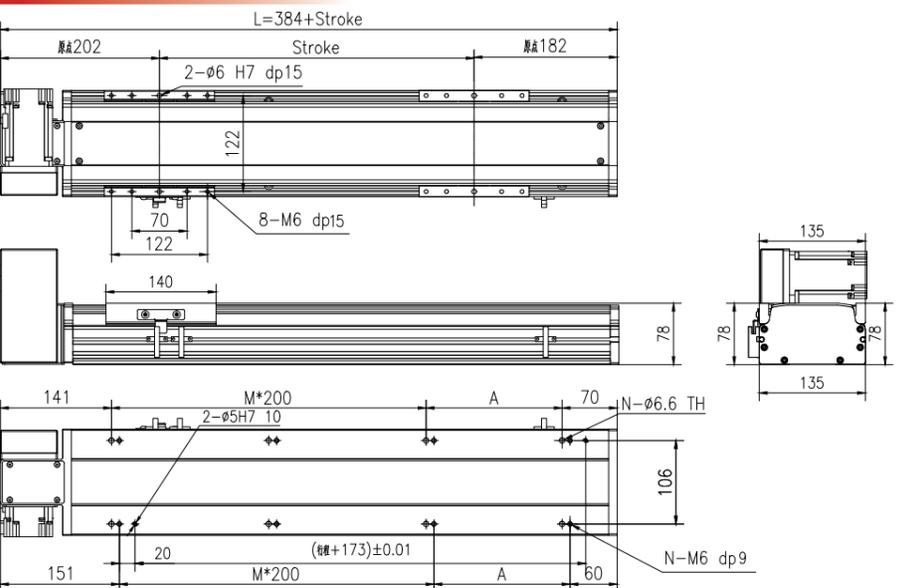
2D&3D文檔下載請至
www.limonrobot.cn



| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
| 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 | 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 | 23 |
| M | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 |
| N | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 22 | 22 | 22 | 22 | 24 | 24 | 24 | 24 | 24 |
| 重量 Weight (kg) | 15.6 | 16.1 | 16.5 | 17.0 | 17.5 | 18.0 | 18.4 | 18.9 | 19.4 | 19.9 | 20.3 | 20.8 | 21.3 | 21.8 | 22.2 | 22.7 | 23.2 | 23.7 | 24.1 | |

YTO135M-4P-D04

2D&3D文檔下載請至
www.limonrobot.cn

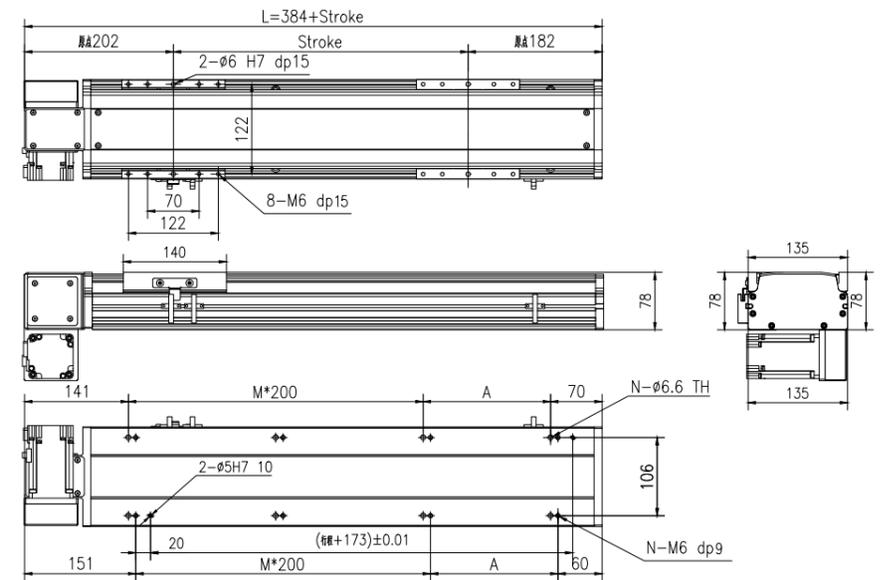


| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
| 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 | 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 | 23 |
| M | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 |
| N | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 22 | 22 | 22 | 22 | 24 | 24 | 24 | 24 | 24 |
| 重量 Weight (kg) | 15.6 | 16.1 | 16.5 | 17.0 | 17.5 | 18.0 | 18.4 | 18.9 | 19.4 | 19.9 | 20.3 | 20.8 | 21.3 | 21.8 | 22.2 | 22.7 | 23.2 | 23.7 | 24.1 | |

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

YTO135M-4P-D05

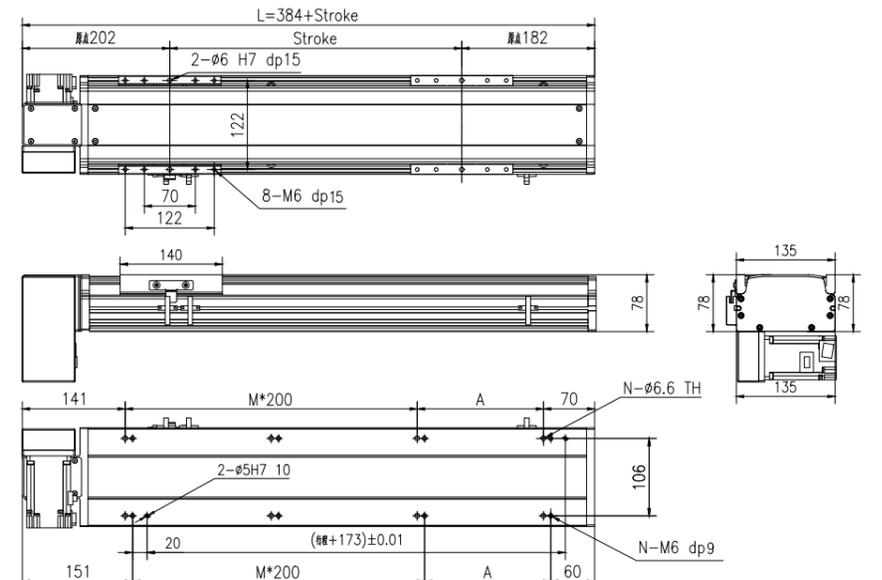
2D&3D文檔下載請至
www.limonrobot.cn



| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
| 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 | 23 |
| M | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 |
| N | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 22 | 22 | 22 | 22 | 24 | 24 | 24 | 24 | 24 |
| 重量 Weight (kg) | 15.6 | 16.1 | 16.5 | 17.0 | 17.5 | 18.0 | 18.4 | 18.9 | 19.4 | 19.9 | 20.3 | 20.8 | 21.3 | 21.8 | 22.2 | 22.7 | 23.2 | 23.7 | 24.1 | |

YTO135M-4P-D06

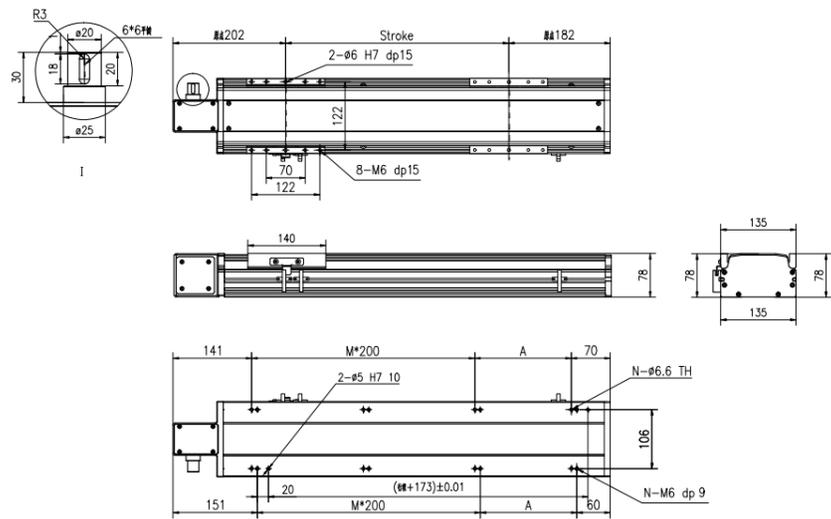
2D&3D文檔下載請至
www.limonrobot.cn



| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
| 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 | 23 |
| M | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 |
| N | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 22 | 22 | 22 | 22 | 24 | 24 | 24 | 24 | 24 |
| 重量 Weight (kg) | 15.6 | 16.1 | 16.5 | 17.0 | 17.5 | 18.0 | 18.4 | 18.9 | 19.4 | 19.9 | 20.3 | 20.8 | 21.3 | 21.8 | 22.2 | 22.7 | 23.2 | 23.7 | 24.1 | |

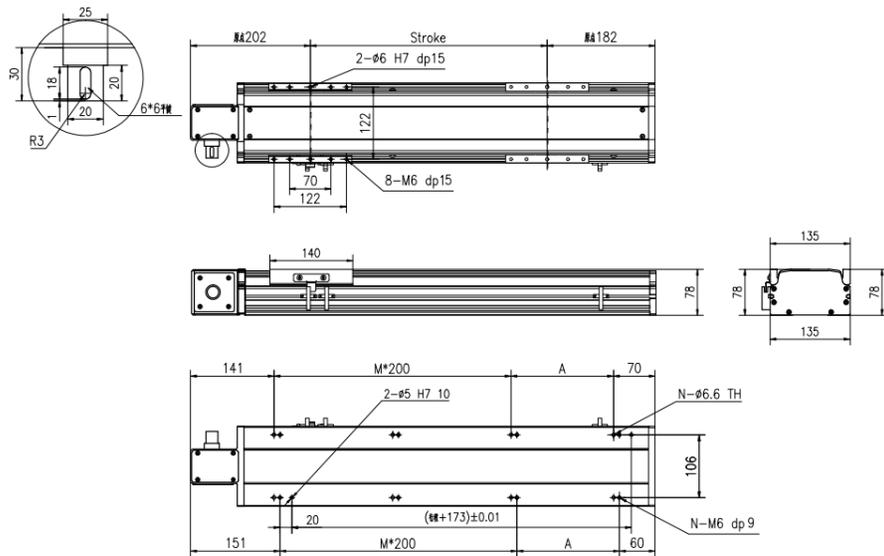
YTO135M 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

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 | 10 | 10 | 10 | 10 | 10 | |
| N | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 22 | 22 | 22 | 24 | 24 | 24 | 24 | 24 | |
| 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 | |

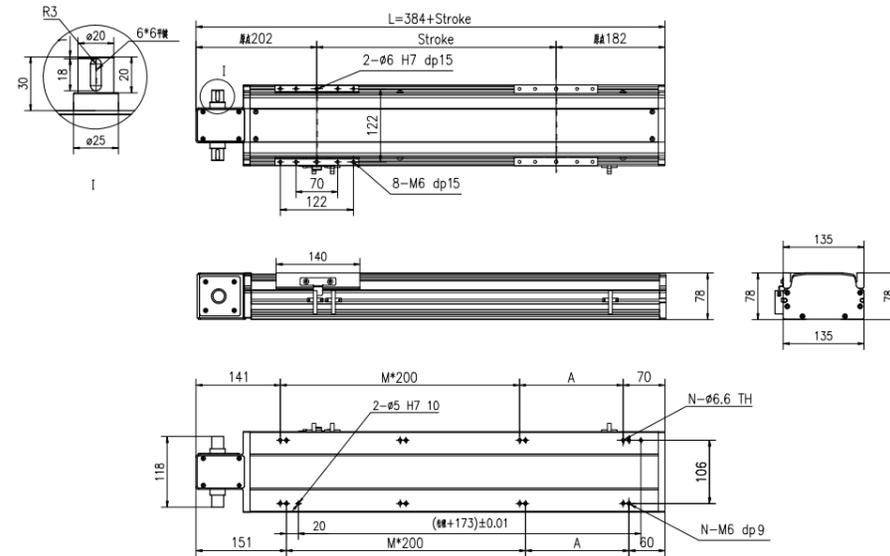
YTO135M-4P-D08



| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 | 10 | 10 | 10 | 10 | 10 | |
| N | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 22 | 22 | 22 | 24 | 24 | 24 | 24 | 24 | |
| 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 | 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 | 10 | 10 | 10 | 10 | 10 | |
| N | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 22 | 22 | 22 | 24 | 24 | 24 | 24 | 24 | |
| 重量 Weight (kg) | 15.6 | 16.1 | 16.5 | 17.0 | 17.5 | 18.0 | 18.4 | 18.9 | 19.4 | 19.9 | 20.3 | 20.8 | 21.3 | 21.8 | 22.2 | 22.7 | 23.2 | 23.7 | 24.1 | |

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

訂購型號代碼 Code

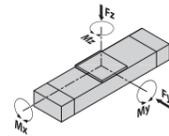
YTO170 - 500 - 4P - D01 - DB - M40 - P3 - A001

| | | | | | | | |
|---------------|--------------------------------|-------------------------------|---|---|---|---|------------------------|
| 本體型號 Item NO. | 行程 Stroke 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P144。



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

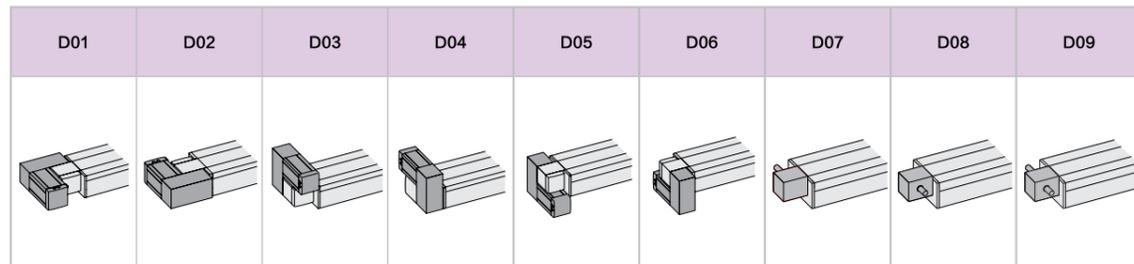


| Type | 4P |
|--------------|------|
| ■ F(y) (N) | 7463 |
| ■ F(z) (N) | 7463 |
| ■ M(x) (N·m) | 339 |
| ■ M(y) (N·m) | 178 |
| ■ M(z) (N·m) | 742 |

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| YTO 170 | | 4P(導軌滑塊數量) Block Quantity |
|--|--|--|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.05 |
| | 皮帶輪導程 Pulley Lead (mm) | 100 / 40 #注2#Note2 |
| | 皮帶型號 Belt type | 5M-30 |
| | 最高速度 Maximum Speed (mm/s) | 2400 |
| | 最大可搬重量 Maximum Payload | 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) | |

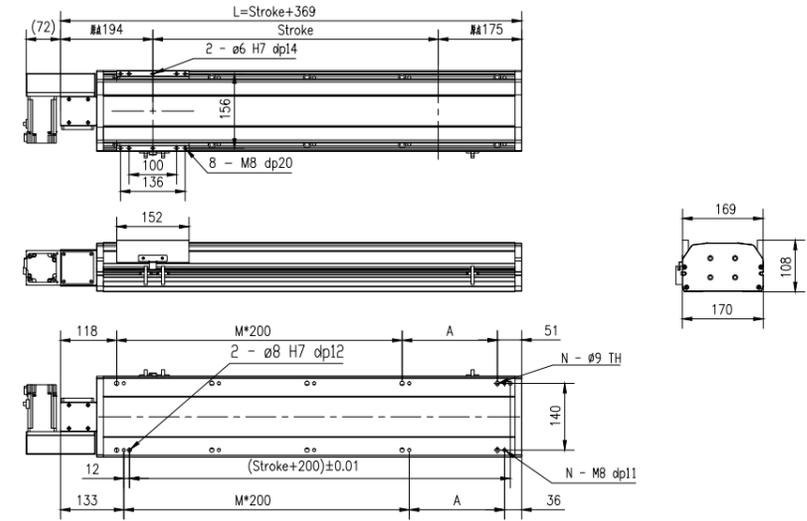
#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note1: Data changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.
#注2: 皮帶輪原始導程為100mm，標準品默認附減速機構，減速後導程為40mm。
#Note 2: Pulley's original lead is 100mm, which standard type is equipped with reduction 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



2D&3D文檔下載請至
www.limonrobot.cn

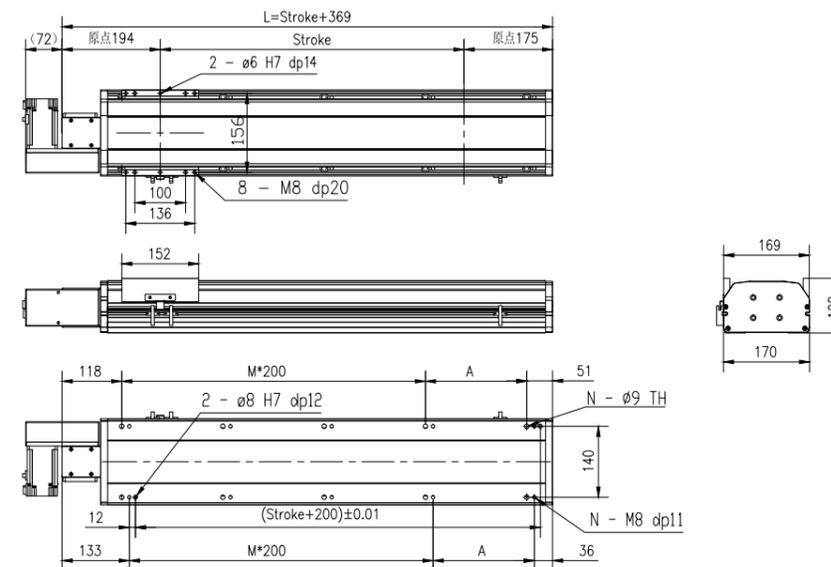


| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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



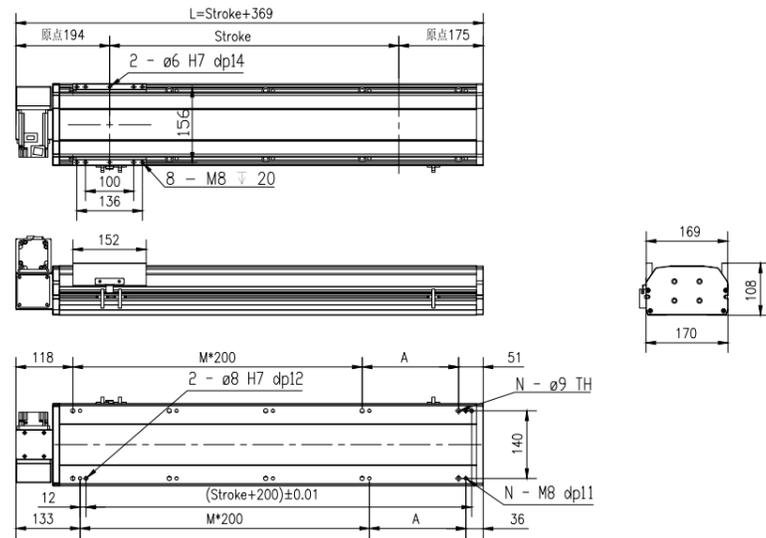
2D&3D文檔下載請至
www.limonrobot.cn



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

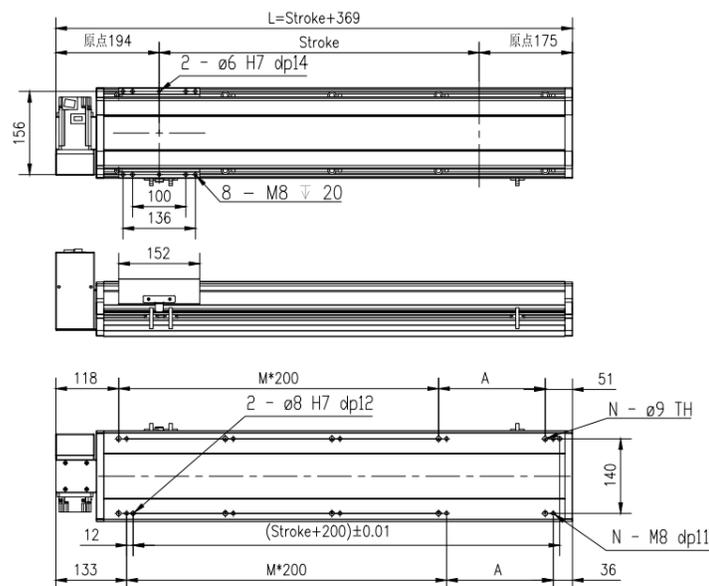
YTO 170 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO170-4P-D03



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

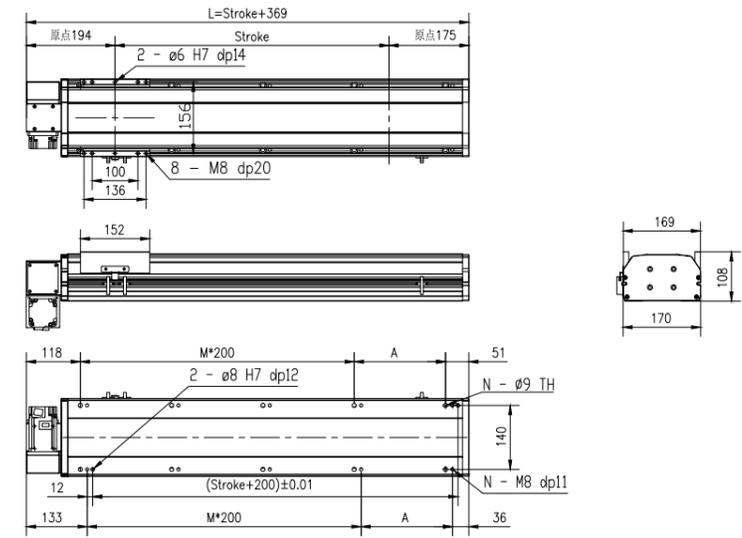
YTO170-4P-D04



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

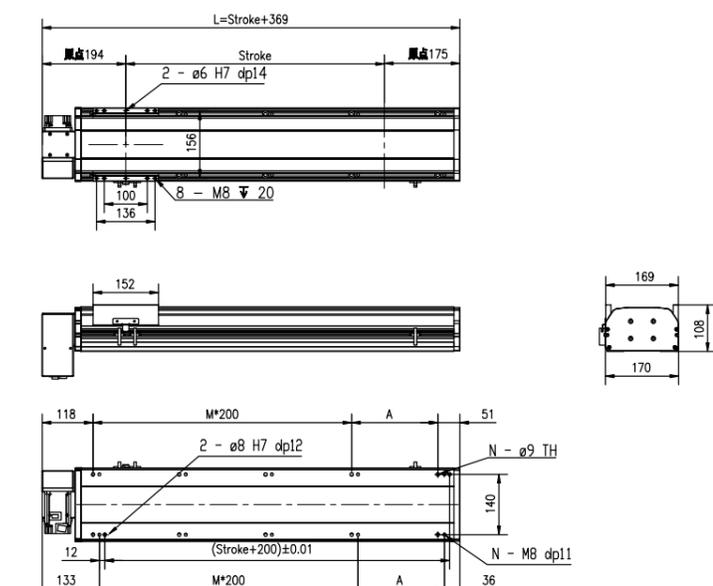
亞標半密式同步帶驅動型 YTO 170 Belt Driven Linear Actuator

YTO170-4P-D05



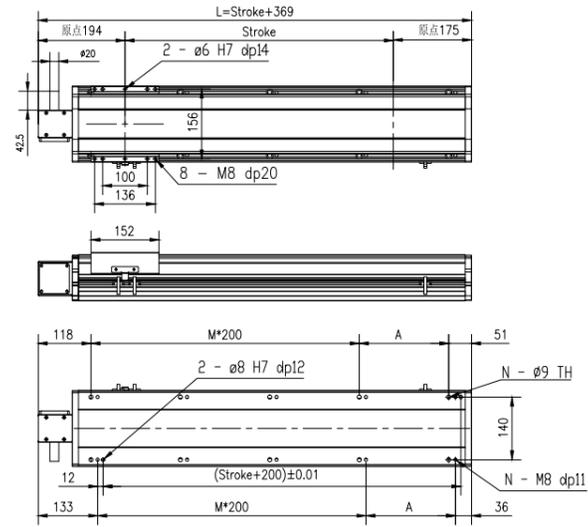
| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300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

YTO170-4P-D06



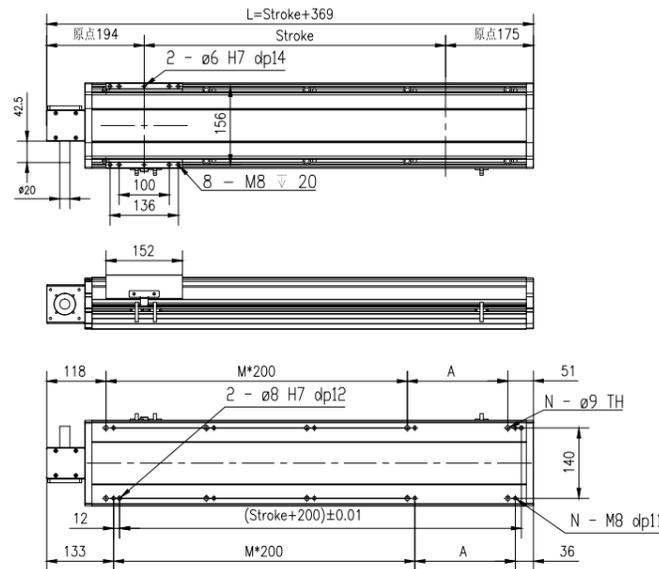
| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300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

YTO170-4P-D07



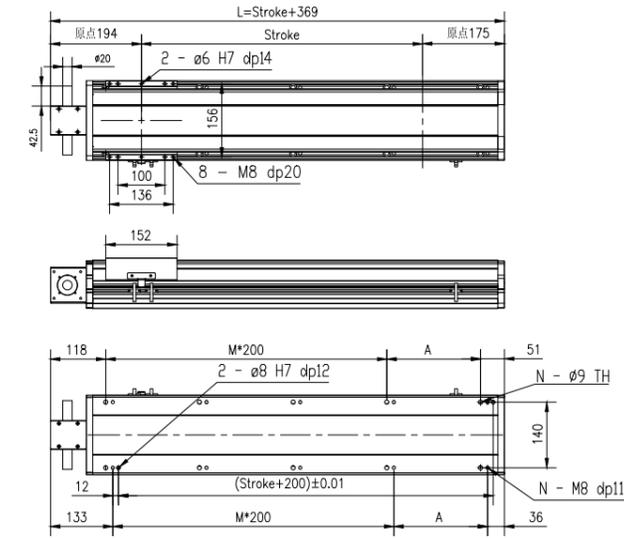
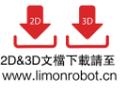
| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

YTO170-4P-D08



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

YTO170-4P-D09



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

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

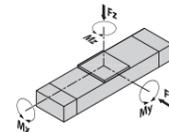
訂購型號代碼 Code

| | | | | | | | |
|---------------|--------------------------------|-------------------------------|---|--|---|--|------------------------|
| YTO220 | 500 | 4P | D01 | DB <small>注</small> | M75 | P3 | A001 |
| 本體型號 Item NO. | 行程 Stroke 100-4050, 間隔Gap50 | 直線導軌滑塊數量 Block Quantity 4P | 馬達方向 Motor Mounting Position D01 D02 D03 D04 D05 D06 D07 D08 D09 | 輔助滑塊 Auxiliary Block 未填寫: 單滑塊 DB: 輔助滑塊 | 馬達廠牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 - Y 安川 Yaskawa 40 - D 台達 Delta 75 750W 1K - | 限位傳感器數量 Photoelectric Sensor P1: 1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P144.



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

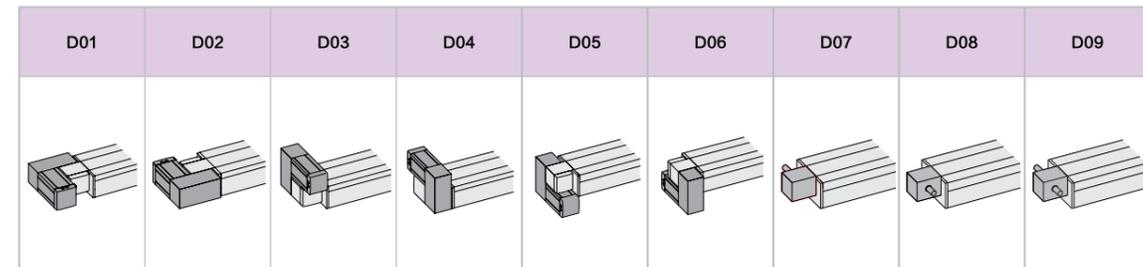


| Type | 4P |
|--------------|---------|
| ■ F(y) (N) | 10333.3 |
| ■ F(z) (N) | 10333.3 |
| ■ M(x) (N·m) | 2052 |
| ■ M(y) (N·m) | 2052 |
| ■ M(z) (N·m) | 1810 |

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| YTO 220 | | 4P(導軌滑塊數量) Block Quantity |
|--|--|--|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.05 |
| | 皮帶輪導程 Pulley Lead (mm) | 100 / 40 #注2#Note2 |
| | 皮帶型號 Belt type | 5M-50 |
| | 最高速度 Maximum Speed (mm/s) | 2400 |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) 90 垂直使用Vertical (kg) 40 |
| 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) | 100-4050 mm/ 100 Pitch |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 750 |
| | 高剛性直線滑軌 Linear Guide (mm) | 25# × 2 PCS |
| 皮帶寬度 Belt Width | 50 | |
| 主機載面最大外形 Max Outline of Main Engine's Cross Section (mm) | 230 × 134 | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | |

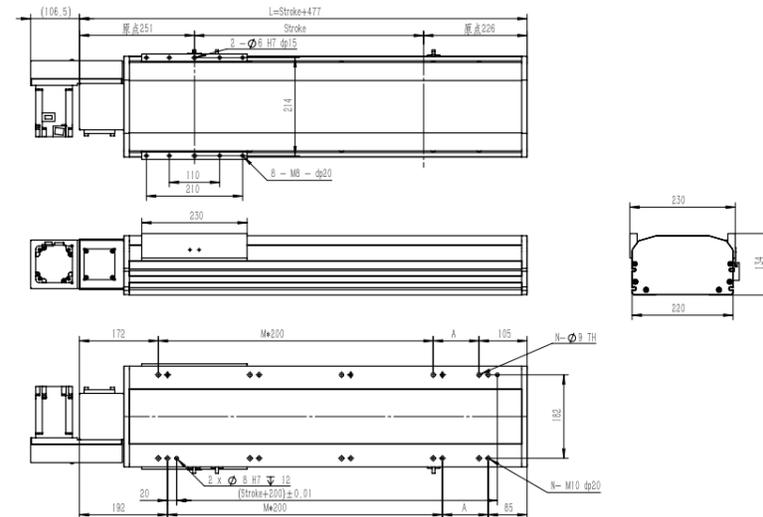
#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note1: Data changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.
#注2: 皮帶輪原始導程為100mm，標準品默認附減速機構，減速後導程為40mm。
#Note 2: Pulley's original lead is 100mm, which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

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

YTO220-D01



2D&3D文檔下載請至
www.limonrobot.cn

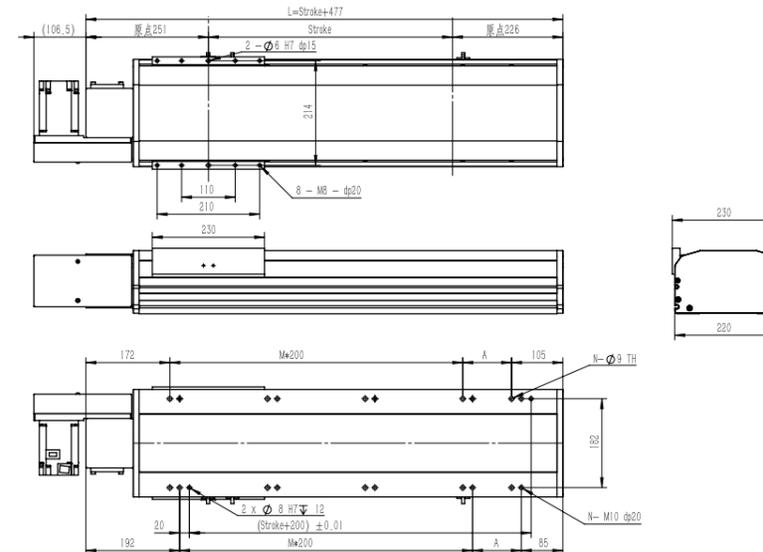


| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------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

YTO220-D02



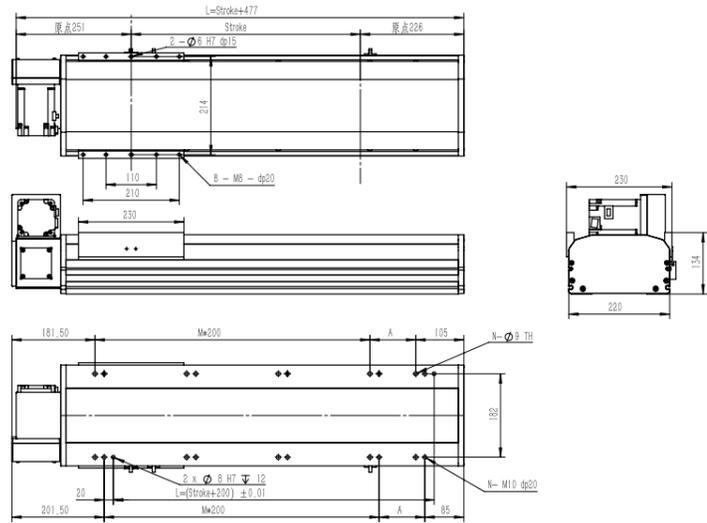
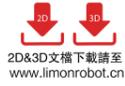
2D&3D文檔下載請至
www.limonrobot.cn



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

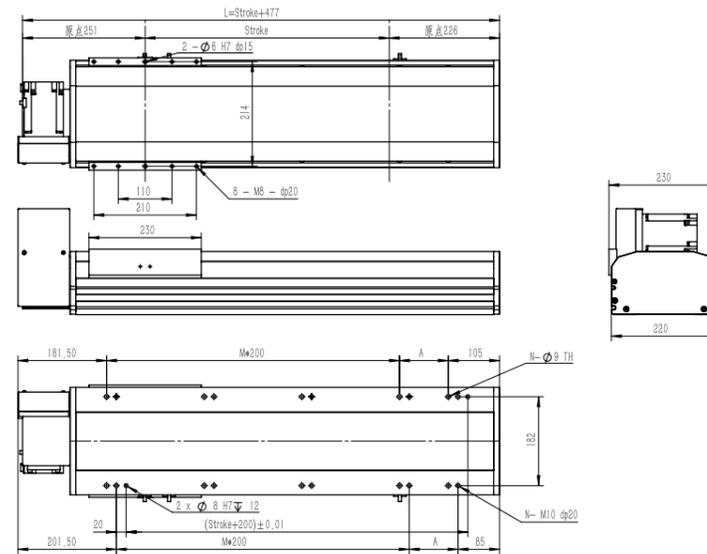
YTO 220 亞標半密式同步帶驅動型 Belt Driven Linear Actuator

YTO220-D03



| 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 | 3 | 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 | 14 | 15 | 15 | 15 | 15 | 16 | |
| N | 20 | 22 | 22 | 22 | 22 | 24 | 24 | 24 | 24 | 26 | 26 | 26 | 26 | 28 | 28 | 28 | 28 | 30 | 30 | 30 | 30 | 32 | 32 | 32 | 32 | 34 | 34 | 34 | 34 | 36 | |
| 重量 Weight(kg) | 66 | 67.2 | 68.4 | 69.6 | 70.8 | 72 | 73.2 | 74.4 | 75.6 | 76.8 | 78 | 79.2 | 80.4 | 81.6 | 82.8 | 84 | 85.2 | 86.4 | 87.6 | 88.8 | 90 | 91.2 | 92.4 | 93.6 | 94.8 | 96 | 97.2 | 98.4 | 99.6 | 100.8 | |

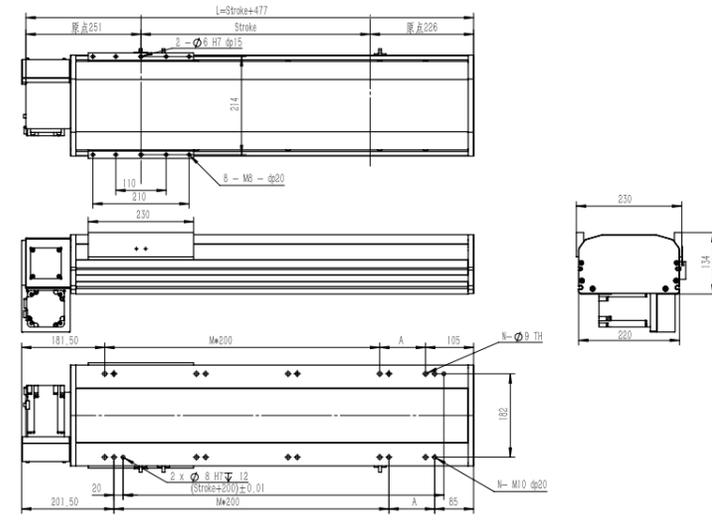
YTO220-D04



| 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 | 3 | 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 | 14 | 15 | 15 | 15 | 15 | 16 | |
| N | 20 | 22 | 22 | 22 | 22 | 24 | 24 | 24 | 24 | 26 | 26 | 26 | 26 | 28 | 28 | 28 | 28 | 30 | 30 | 30 | 30 | 32 | 32 | 32 | 32 | 34 | 34 | 34 | 34 | 36 | |
| 重量 Weight(kg) | 66 | 67.2 | 68.4 | 69.6 | 70.8 | 72 | 73.2 | 74.4 | 75.6 | 76.8 | 78 | 79.2 | 80.4 | 81.6 | 82.8 | 84 | 85.2 | 86.4 | 87.6 | 88.8 | 90 | 91.2 | 92.4 | 93.6 | 94.8 | 96 | 97.2 | 98.4 | 99.6 | 100.8 | |

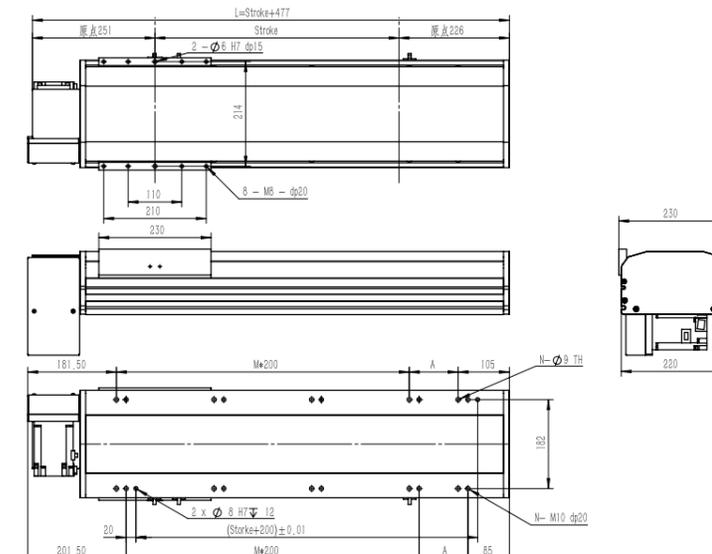
亞標半密式同步帶驅動型 YTO 220 Belt Driven Linear Actuator

YTO220-D05



| 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 | 3 | 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 | 14 | 15 | 15 | 15 | 15 | 16 | |
| N | 20 | 22 | 22 | 22 | 22 | 24 | 24 | 24 | 24 | 26 | 26 | 26 | 26 | 28 | 28 | 28 | 28 | 30 | 30 | 30 | 30 | 32 | 32 | 32 | 32 | 34 | 34 | 34 | 34 | 36 | |
| 重量 Weight(kg) | 66 | 67.2 | 68.4 | 69.6 | 70.8 | 72 | 73.2 | 74.4 | 75.6 | 76.8 | 78 | 79.2 | 80.4 | 81.6 | 82.8 | 84 | 85.2 | 86.4 | 87.6 | 88.8 | 90 | 91.2 | 92.4 | 93.6 | 94.8 | 96 | 97.2 | 98.4 | 99.6 | 100.8 | |

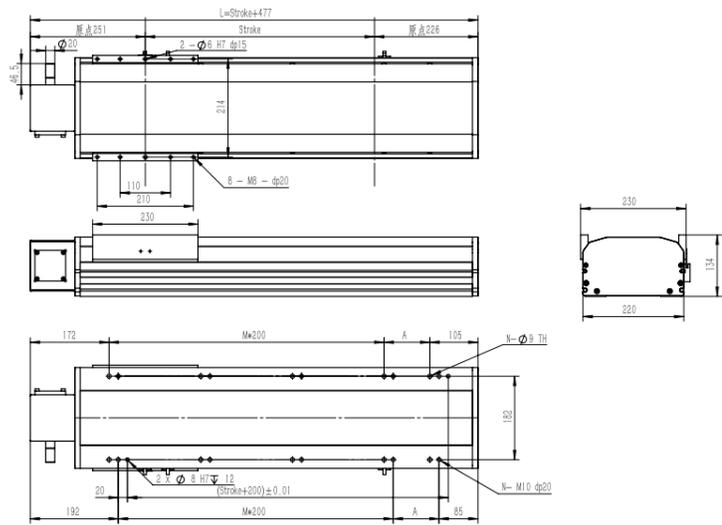
YTO220-D06



| 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 | 3 | 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</ | | | | | | | | | | | | | | | | | | | | | |

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

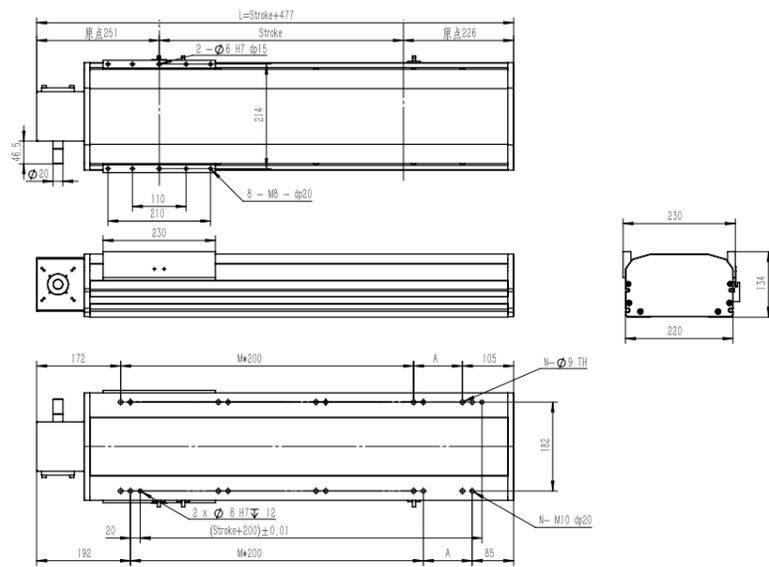
YTO220-D07



2D&3D文檔下載請至
www.limonrobot.cn

| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 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 | 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 |
| 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

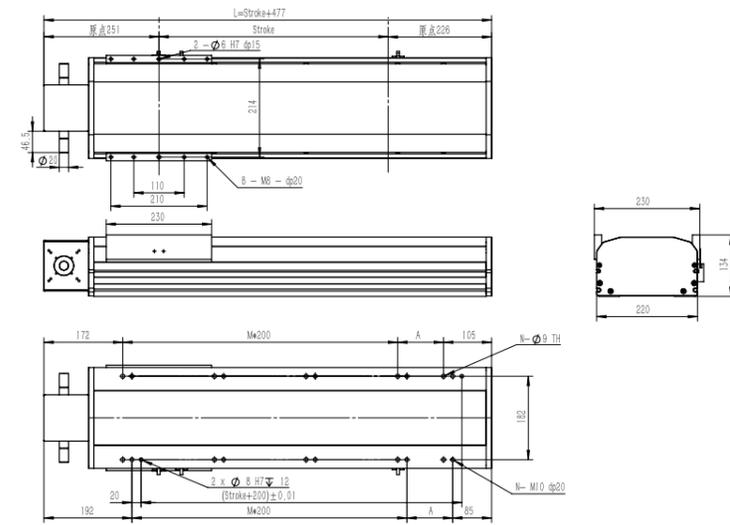


2D&3D文檔下載請至
www.limonrobot.cn

| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 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 | 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 |
| 重量 Weight(kg) | 66 | 67.2 | 68.4 | 69.6 | 70.8 | 72 | 73.2 | 74.4 | 75.6 | 76.8 | 78 | 79.2 | 80.4 | 81.6 | 82.8 | 84 | 85.2 | 86.4 | 87.6 | 88.8 | 90 | 91.2 | 92.4 | 93.6 | 94.8 | 96 | 97.2 | 98.4 | 99.6 | 100.8 | |

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

YTO220-D09



2D&3D文檔下載請至
www.limonrobot.cn

| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 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 | 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 |
| 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 | |

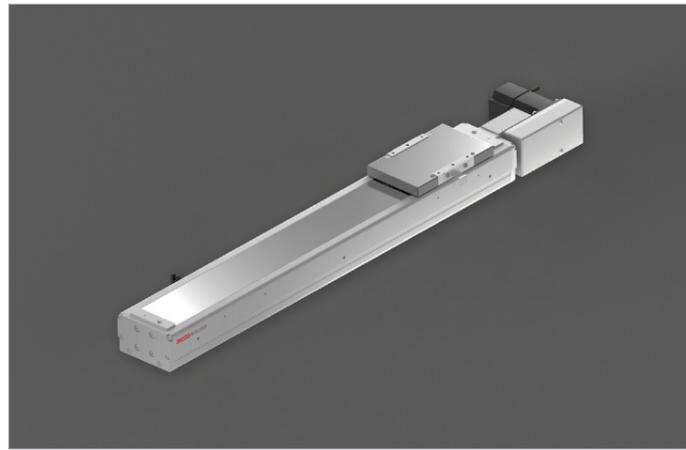
YTC110 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

訂購型號代碼 Code

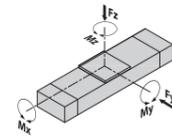
YTC110 - 500 - 4P - D01 - DB - M40 - P3 - A001

| | | | | | | | |
|----------------------|--|--------------------------------------|--|---|---|---|-------------------------------|
| 本體型號 Item NO. | 行程 Stroke 100-1500, 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. |
|----------------------|--|--------------------------------------|--|---|---|---|-------------------------------|

注: 輔助滑塊選項相關參數參見樣本P144.



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

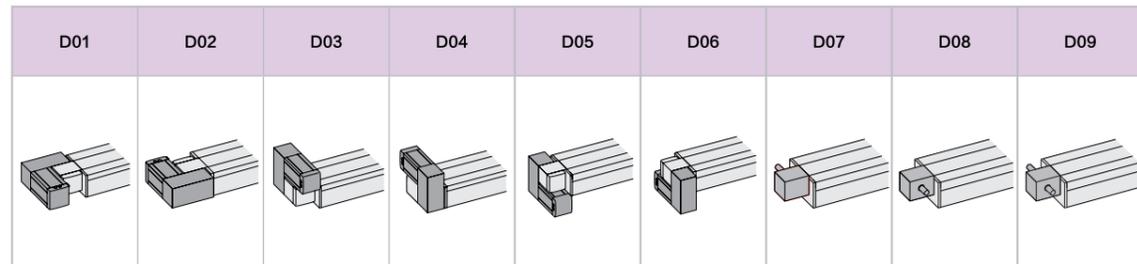


| Type | | 4P |
|------------|--|------|
| F(y) (N) | | 3427 |
| F(z) (N) | | 3427 |
| M(x) (N·m) | | 98 |
| M(y) (N·m) | | 40 |
| M(z) (N·m) | | 176 |

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| YTC110 | | 4P(導軌滑塊數量) Block Quantity |
|--|--|--|
| 技術參數 Technical Parameters | 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 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) | 100-1500 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 |
| 主機版面最大外形 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。

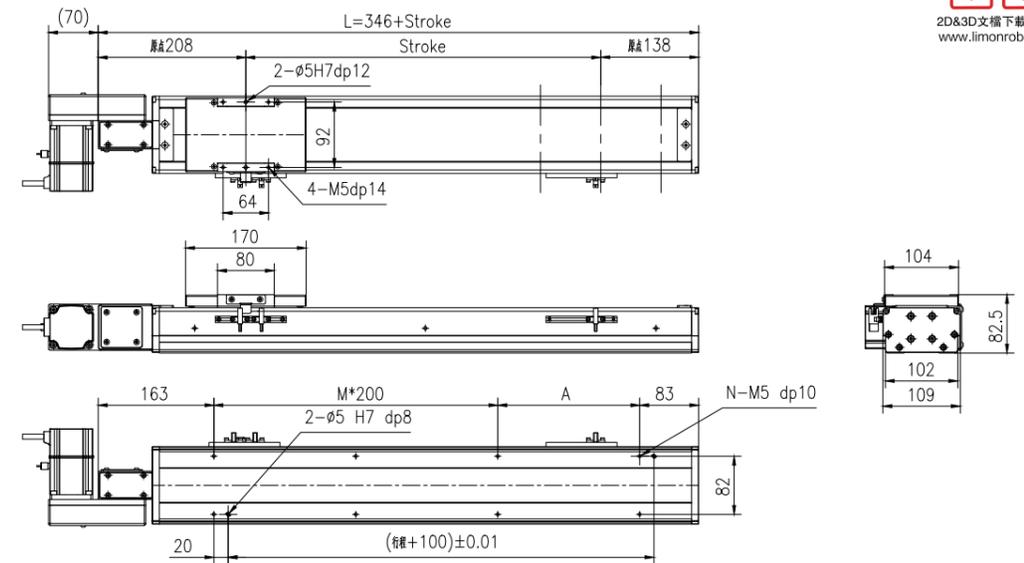
#Note1: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

#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.

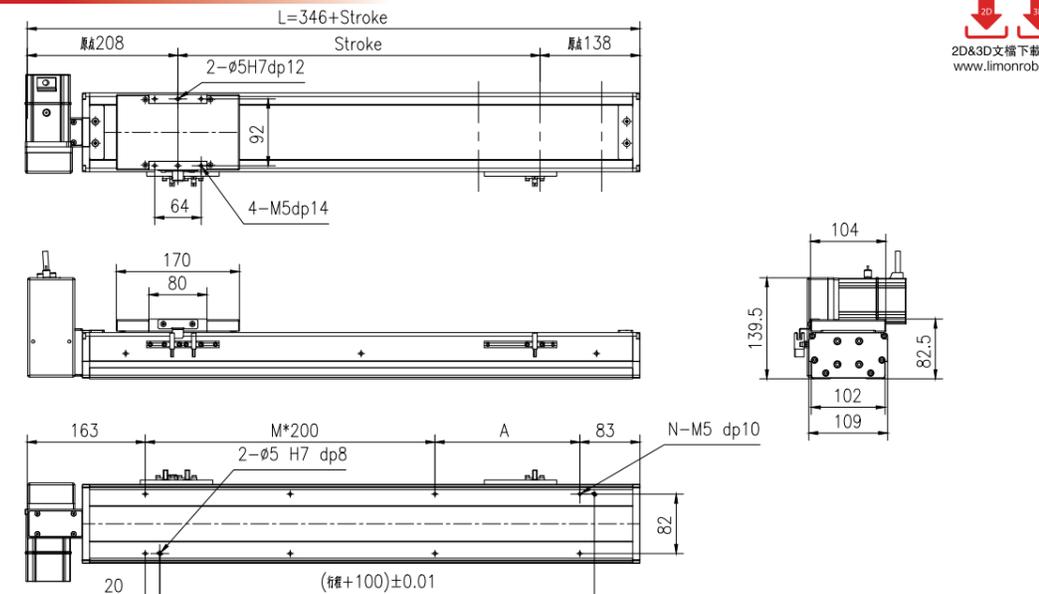
亞標全密式同步帶驅動型 YTC110 Belt Driven Linear Actuator

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 |

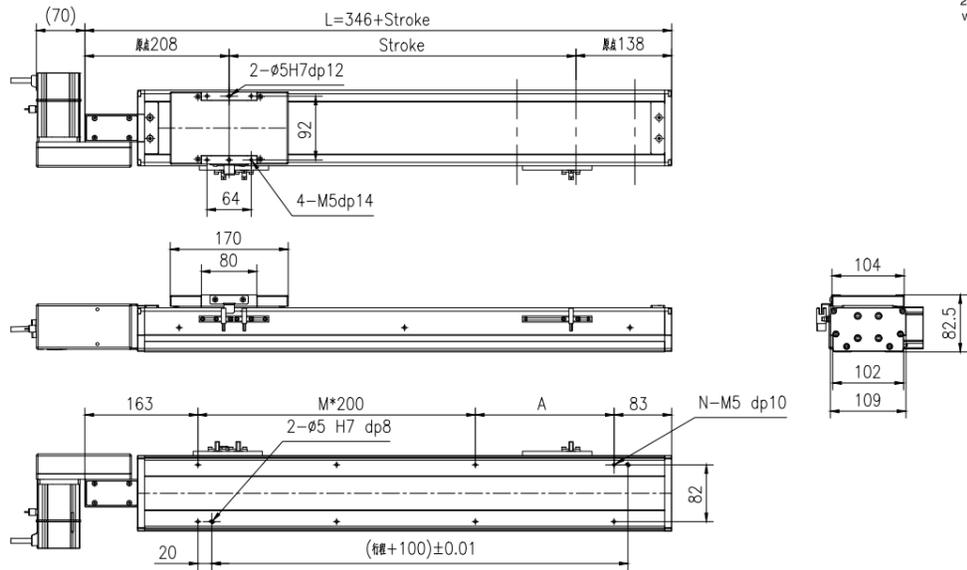
YTC110-D02



| 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 |

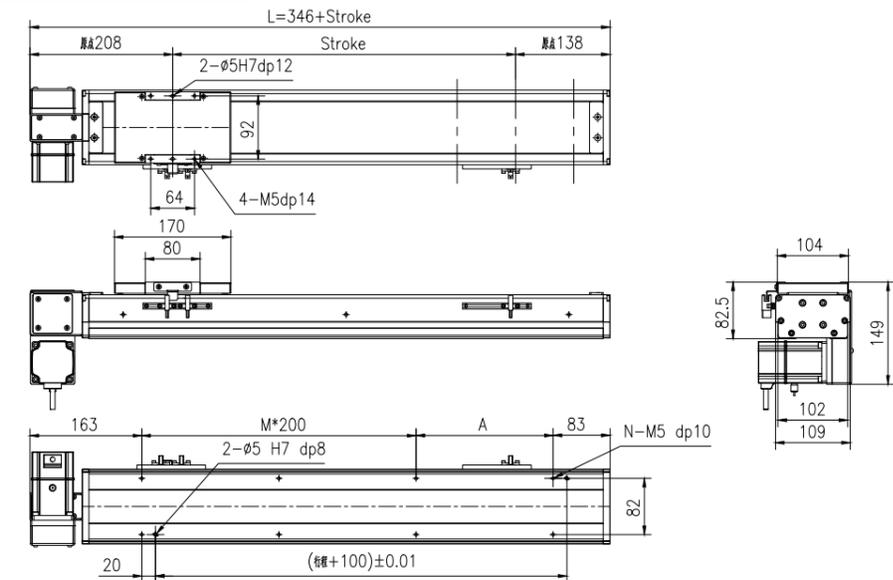
YTC110 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

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 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 12 | 12 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| 重量 Weight (kg) | 10.3 | 10.6 | 10.9 | 11.3 | 11.6 | 11.9 | 12.2 | 12.6 | 12.9 | 13.2 | 13.6 | 13.9 | 14.2 | 14.6 | 14.96 |

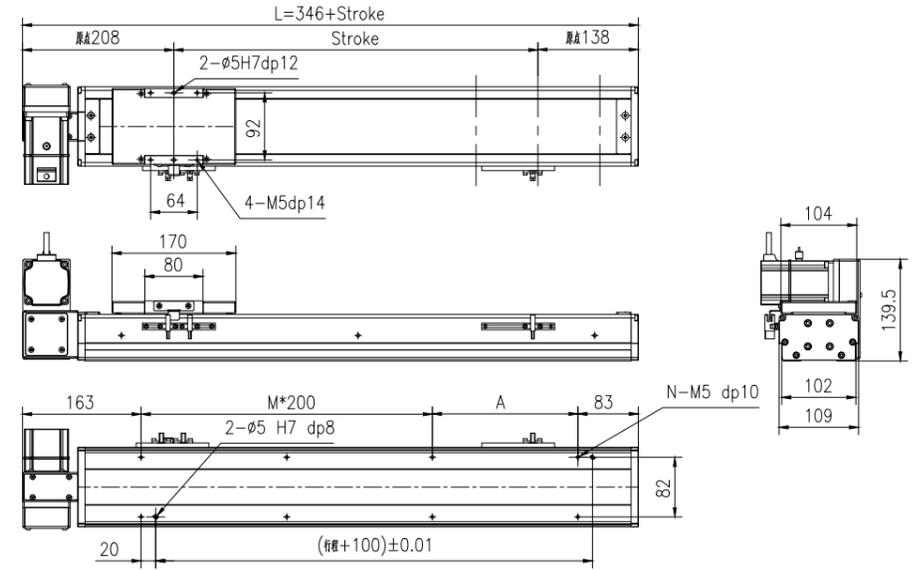
YTC110-D04



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

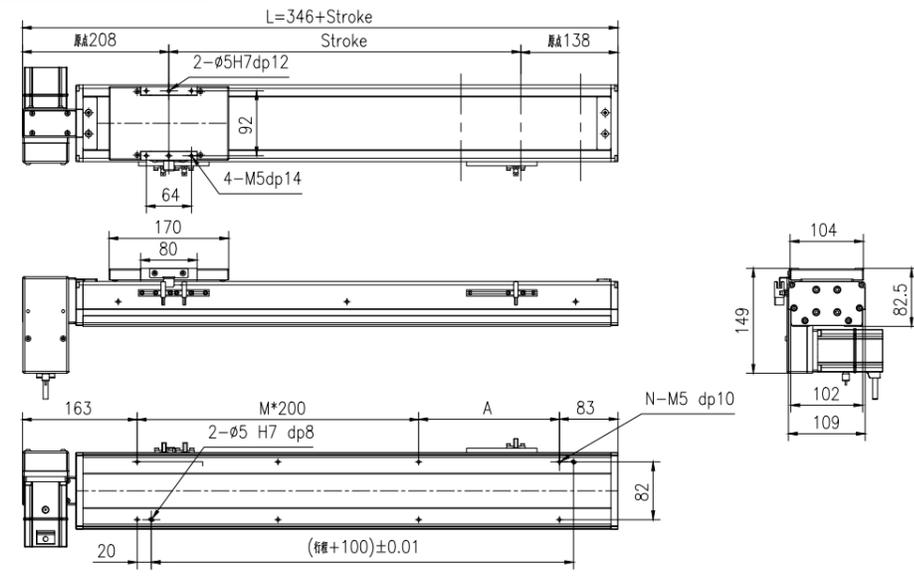
亞標全密式同步帶驅動型 YTC110 Belt Driven Linear Actuator

YTC110-D05



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

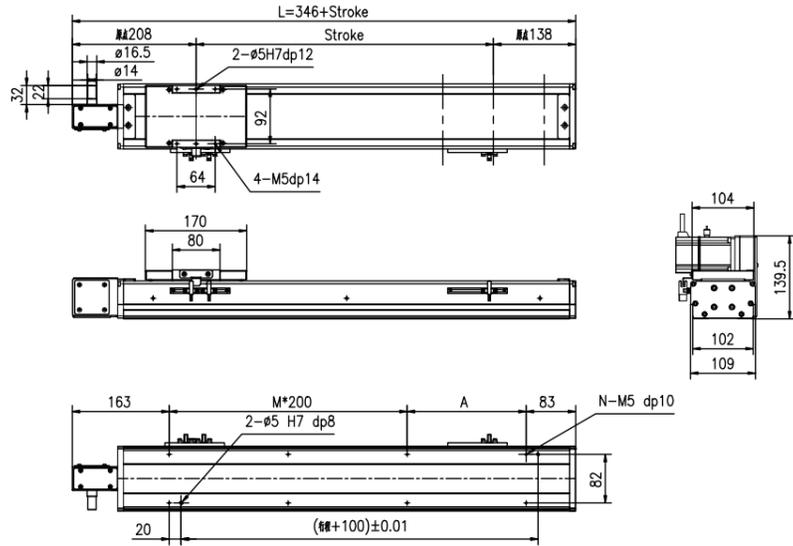
YTC110-D06



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

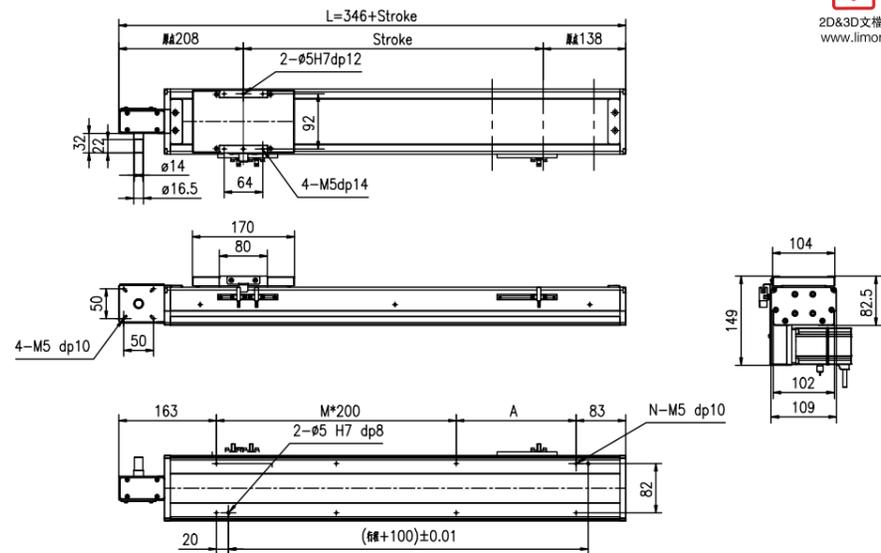
YTC110 亞標全密式同步帶驅動型 Belt Driven Linear Actuator

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 | 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 |

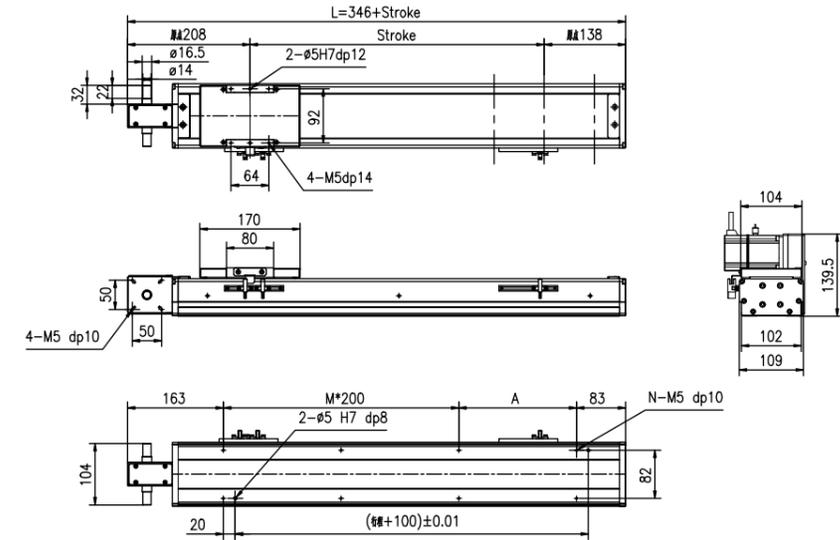
YTC110-D08



| | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 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 | 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-D09



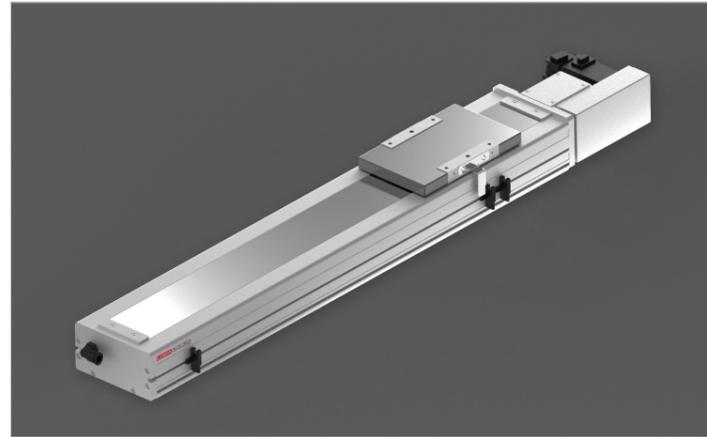
| | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| L | 446 | 496 | 546 | 596 | 646 | 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 | 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 |

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

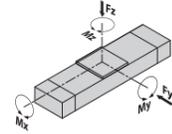
訂購型號代碼 Code

| | | | | | | | |
|---------------|---------------------------------|-------------------------------|---|--|--|--|------------------------|
| YTC135 | 500 | 4P | D01 | DB <small>注</small> | 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. |

注: 輔助滑塊選項相關參數參見樣本P144.



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

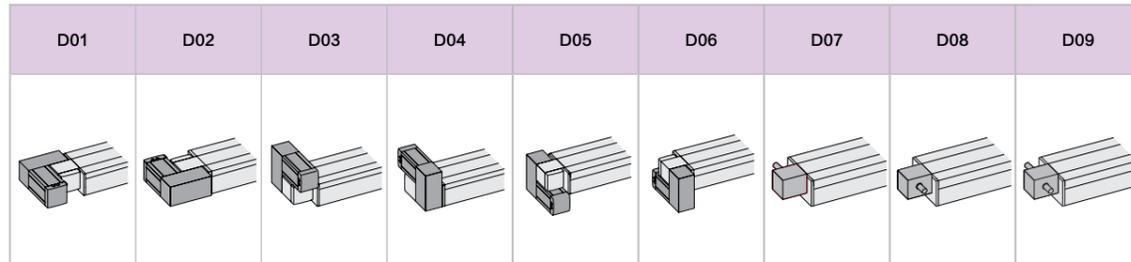


| Type | | 4P |
|--------------|--|------|
| ■ F(y) (N) | | 5370 |
| ■ F(z) (N) | | 5370 |
| ■ M(x) (N·m) | | 142 |
| ■ M(y) (N·m) | | 104 |
| ■ M(z) (N·m) | | 346 |

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| YTC135 | | 4P(導軌滑塊數量) Block Quantity |
|--|--|--|
| 技術參數 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 |
| 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 |
| | 高剛性直線導軌 Linear Guide (mm) | 15# × 2 PCS |
| 主機截面最大外形 Max Outline of Main Engine's Cross Section (mm) | 135 × 91 | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | |

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

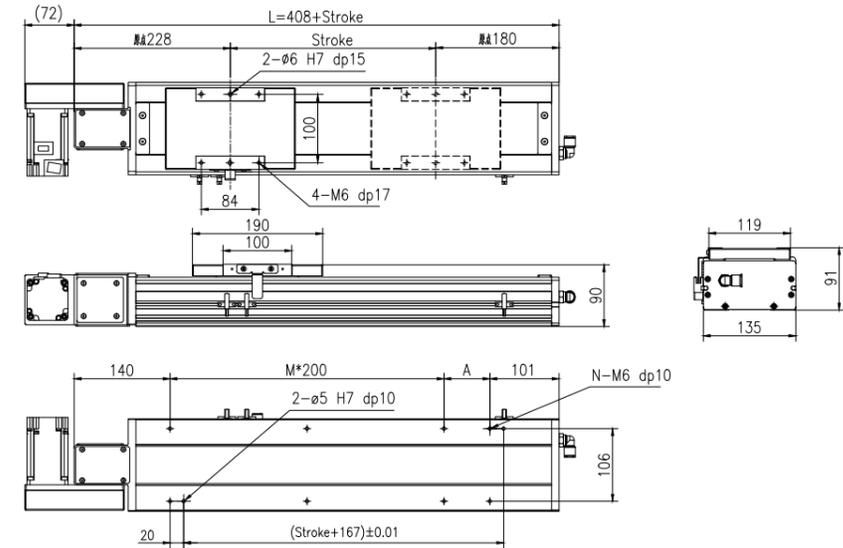
#Note1: Date changes relevently according to different torque and accelerated speed. Please refer to the LIMON calculate software.

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

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

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

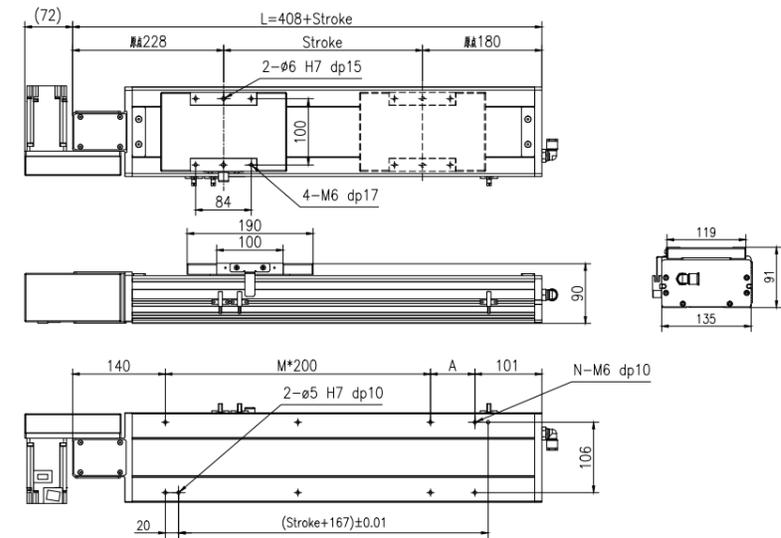
YTC135-4P-D01



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

YTC135-4P-D02

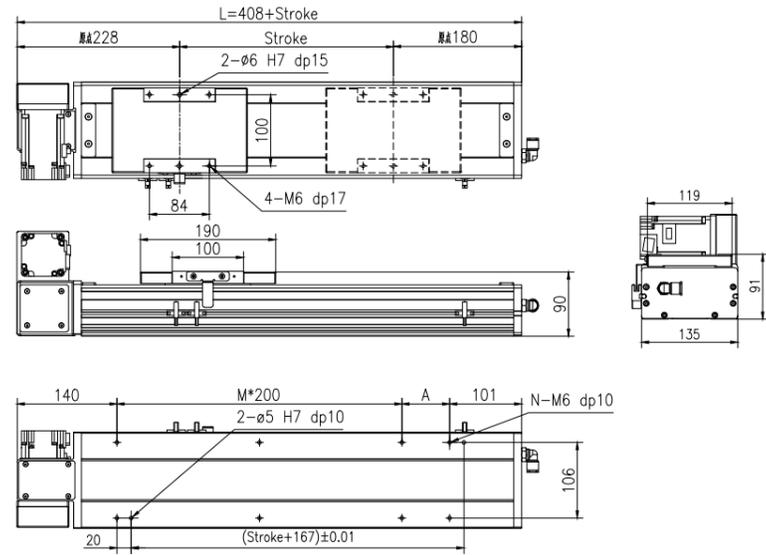


2D&3D文檔下載請至
www.limonrobot.cn

| 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 | 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

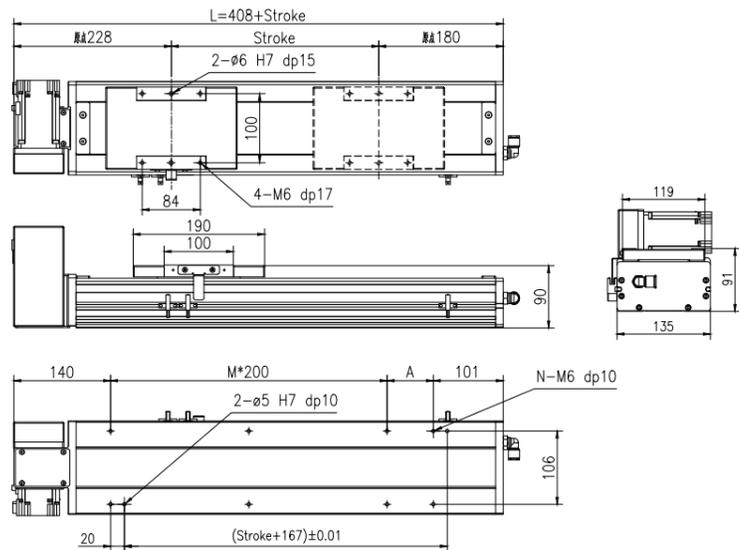
YTC135-4P-D03



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

YTC135-4P-D04

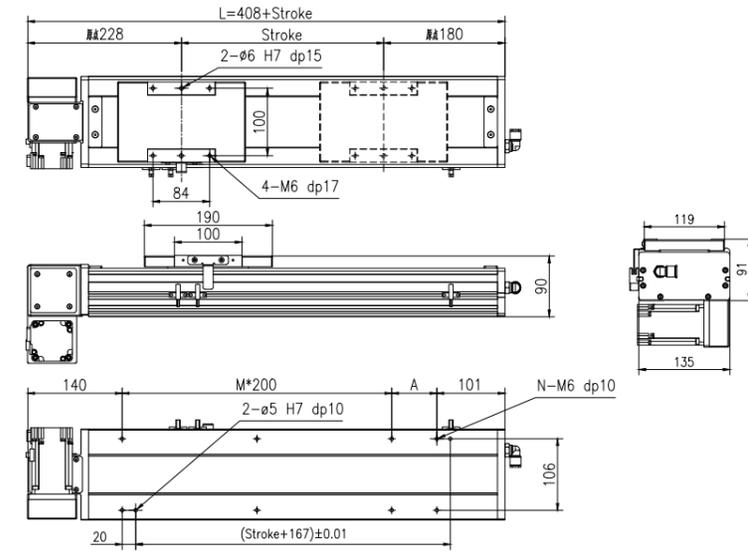


2D&3D文檔下載請至
www.limonrobot.cn

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

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

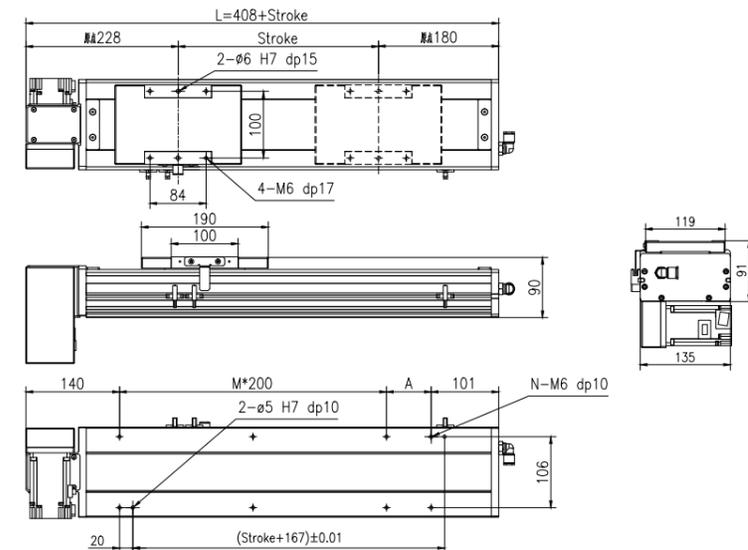
YTC135-4P-D05



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

YTC135-4P-D06



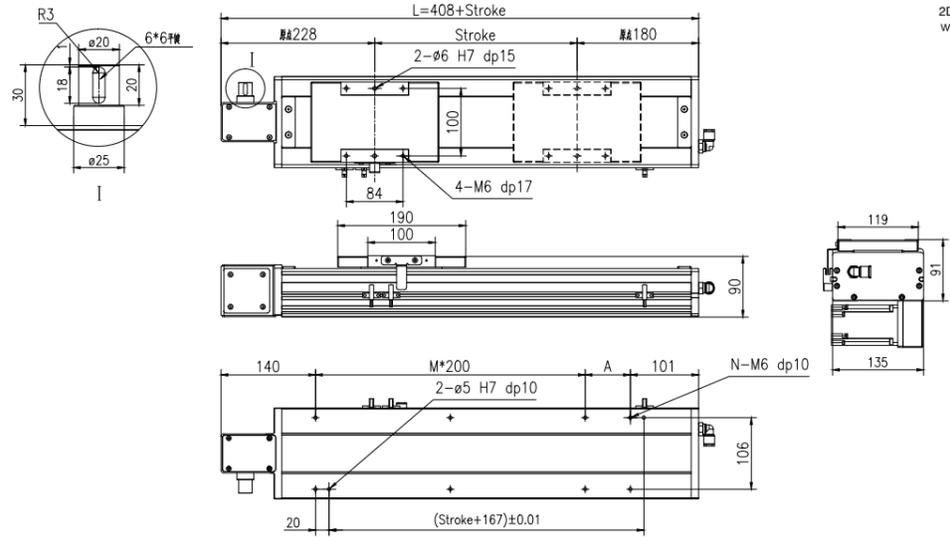
2D&3D文檔下載請至
www.limonrobot.cn

| 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 | 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-D07

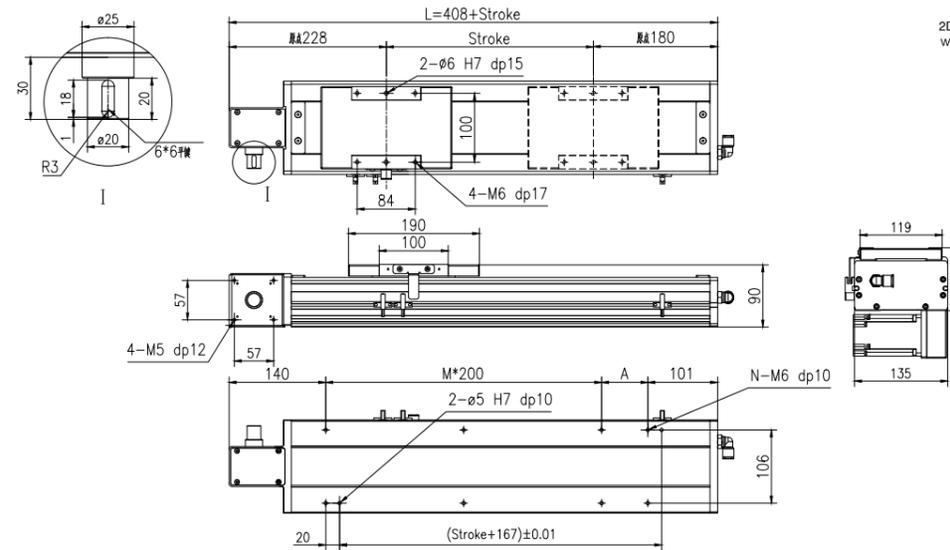
2D&3D文檔下載請至
www.limonrobot.cn



| 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 | 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

2D&3D文檔下載請至
www.limonrobot.cn

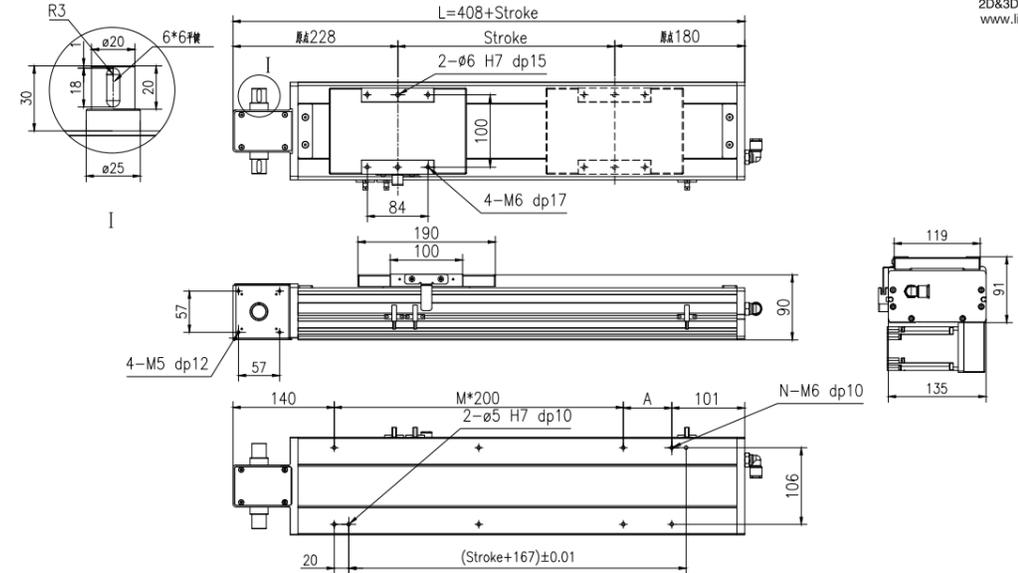


| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

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

YTC135-4P-D09

2D&3D文檔下載請至
www.limonrobot.cn



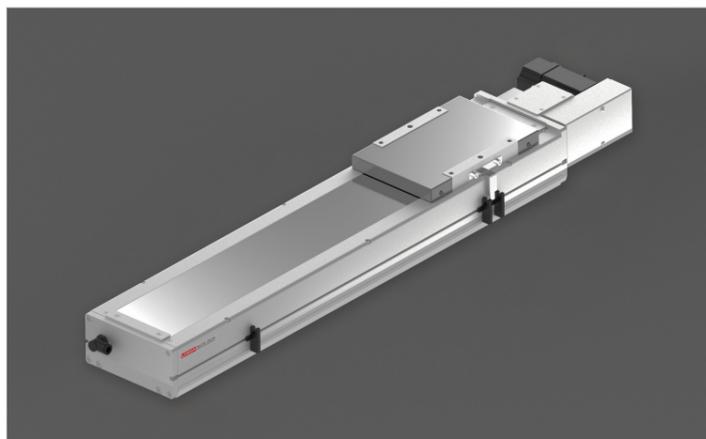
| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

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

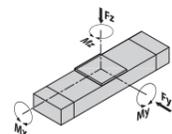
訂購型號代碼 Code

| | | | | | | | |
|--|--------------------------------|-------------------------------|--|--|--|--|------------------------|
| YTC170 - 500 - 4P - D01 - DB - M40 - P3 - A001 | | | | | | | |
| 本體型號 Item NO. | 行程 Stroke 100-3050, 間隔Gap50 | 直線導軌滑塊數量 Block Quantity 4P | 馬達方向 Motor Mounting Position D01 D02 D03 D04 D05 D06 | 輔助滑塊 Auxiliary Block 未填寫: 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 No Mark/No Sensor | 特法式樣 Special Order No. |

注: 輔助滑塊選項相關參數參見樣本P144.



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

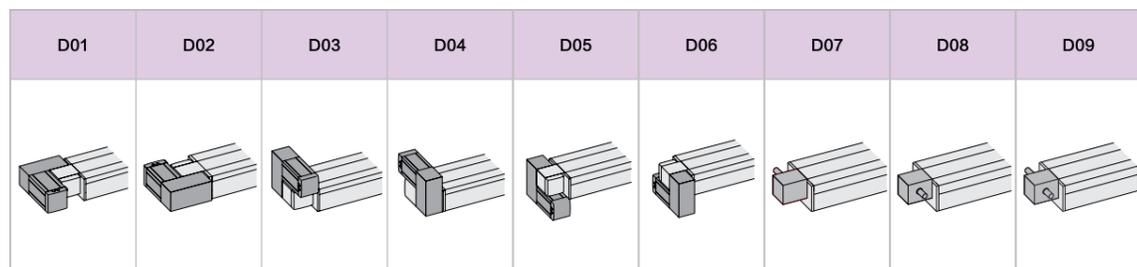


| Type | 4P |
|--------------|------|
| ■ F(y) (N) | 7463 |
| ■ F(z) (N) | 7463 |
| ■ M(x) (N·m) | 339 |
| ■ M(y) (N·m) | 178 |
| ■ M(z) (N·m) | 742 |

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。

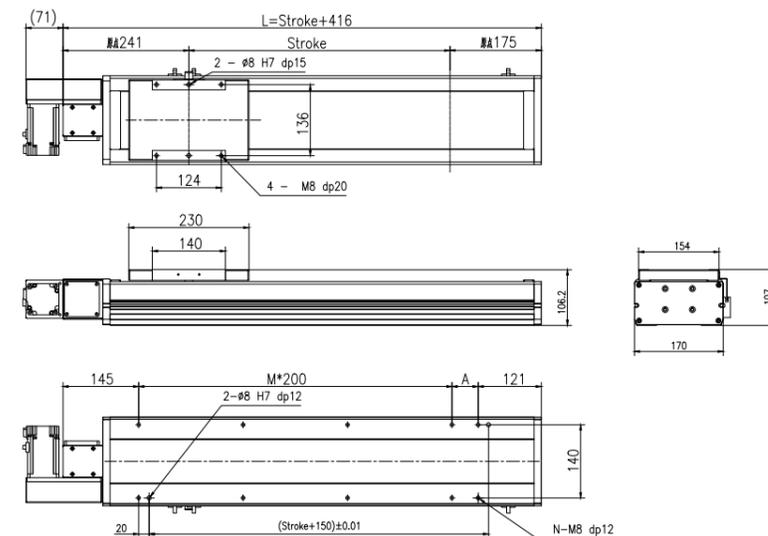
#Note 2: Pulley's original lead is 100mm, which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

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

YTC170-4P-D01



2D&3D文檔下載請至
www.limonrobot.cn

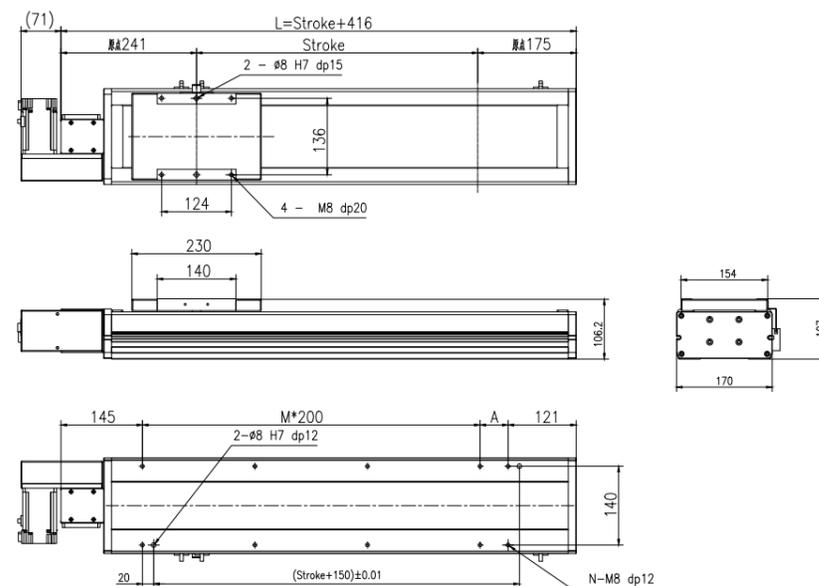


| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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



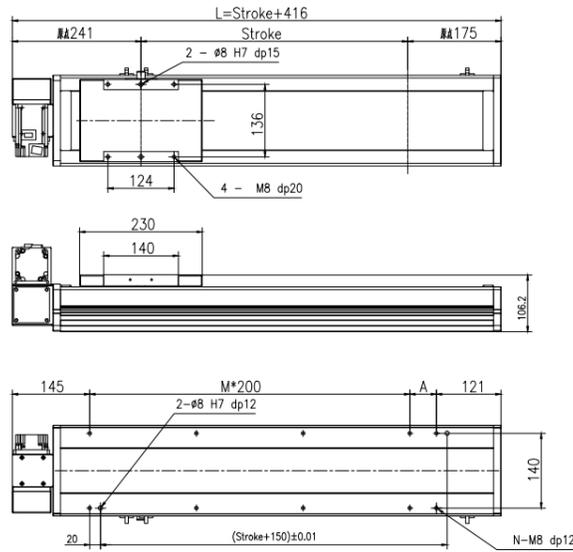
2D&3D文檔下載請至
www.limonrobot.cn



| 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 | 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

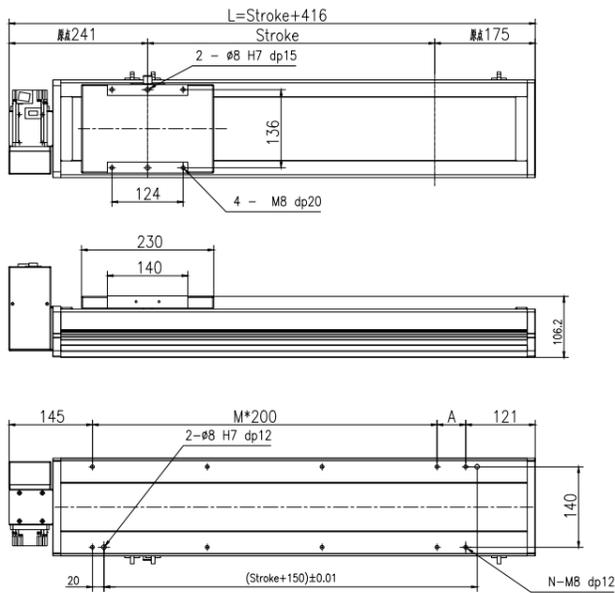
YTC170-4P-D03



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 | 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

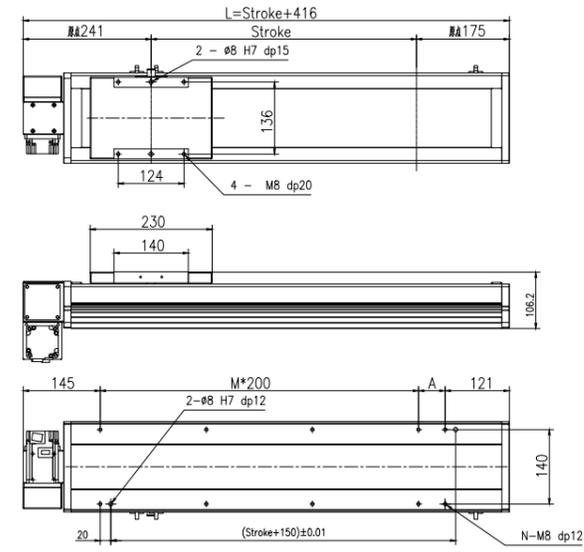


2D&3D文檔下載請至
www.limonrobot.cn

| 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 | 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

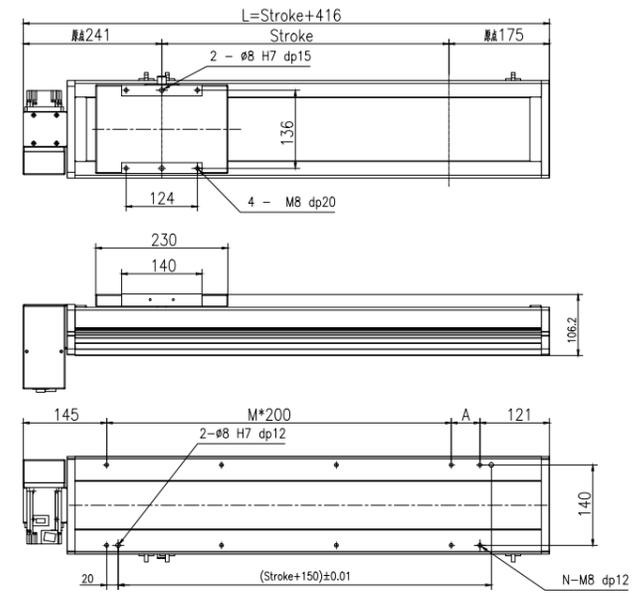
YTC170-4P-D05



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 | 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

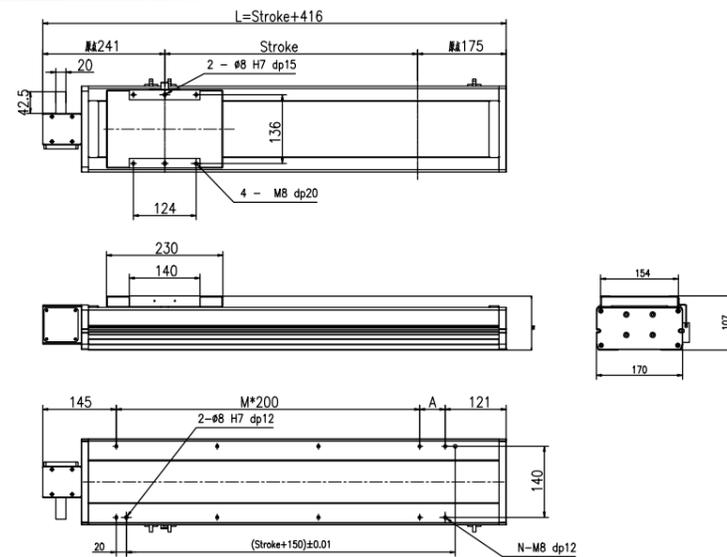


2D&3D文檔下載請至
www.limonrobot.cn

| 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 | 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

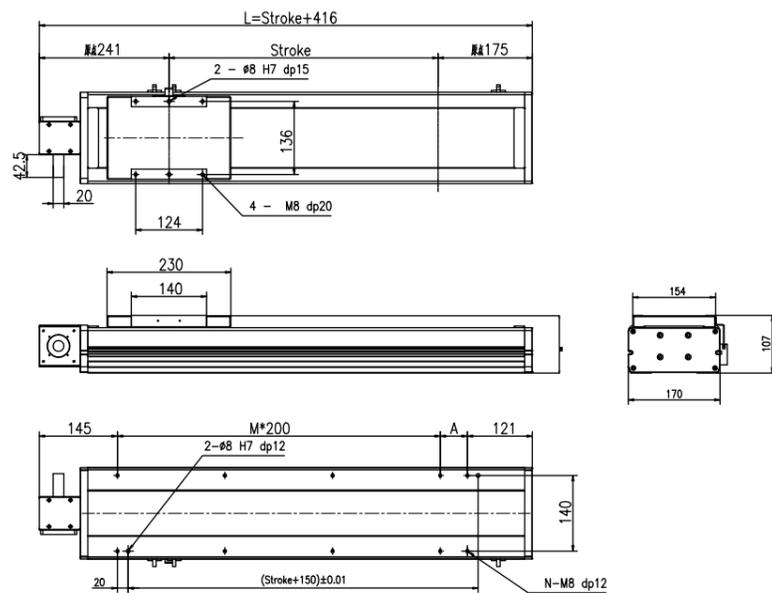
YTC170-4P-D07



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 | 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

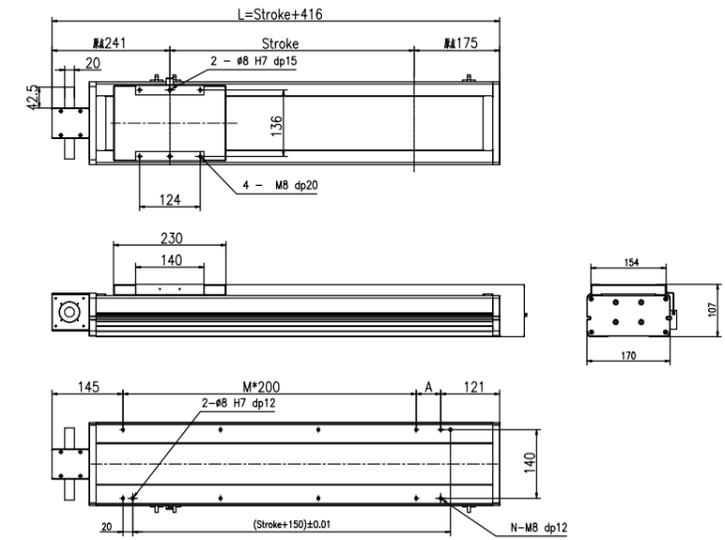


2D&3D文檔下載請至
www.limonrobot.cn

| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 | 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



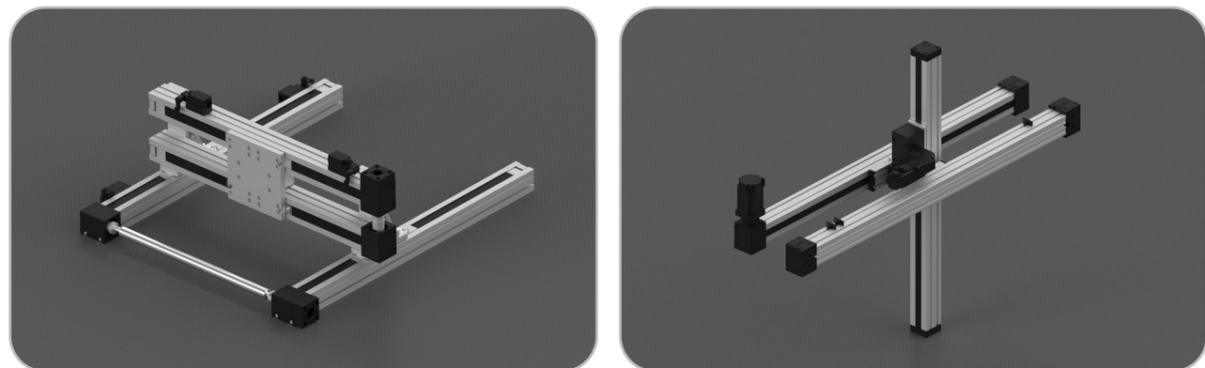
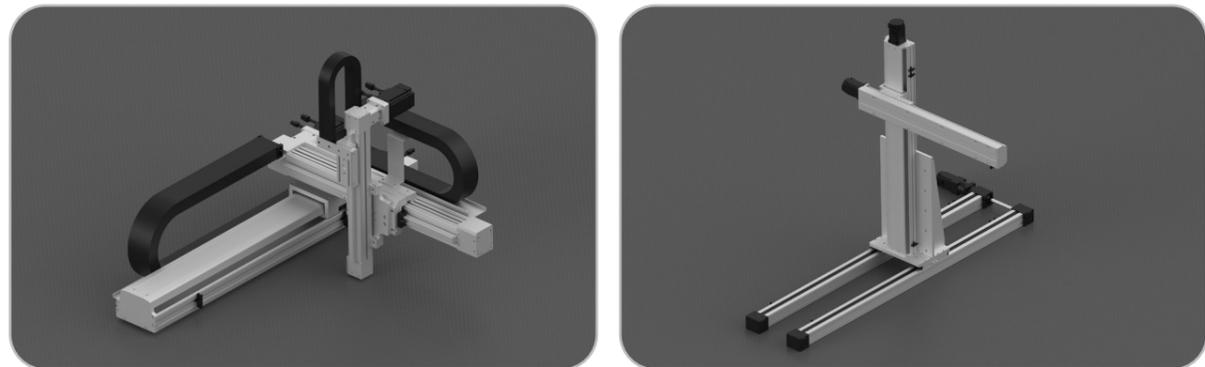
2D&3D文檔下載請至
www.limonrobot.cn

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

多軸組合 Multiaxis System

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:

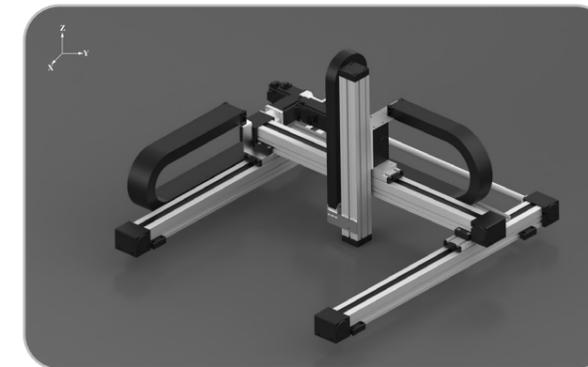
All indicated item, must be chosen with linear guide.The load capacity will decline if the arm is in overlong length.For actual figure required,please contact limon robot.
We offer all necessary fittings including brackets,clamping fixtures and adapter plates in order to build multi-axis systems. Besides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

Multiaxis System 多軸組合

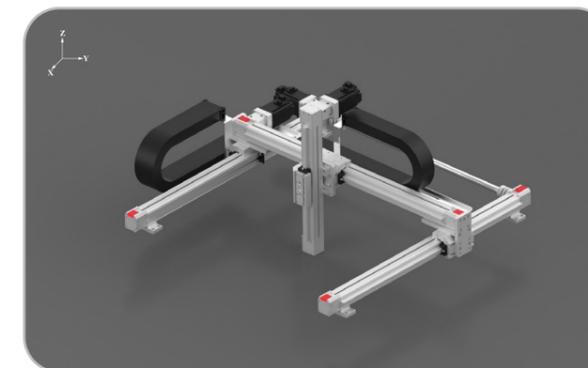
Limon提供豐富的完整直線單元運動系統設計所需的支架和安裝組件。在我們的電機和驅動套裝交付的同時，我們亦會為您提供一個完整的解決方案。尺寸選定和系統選型請聯系我們獲取詳細信息。

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 | | |

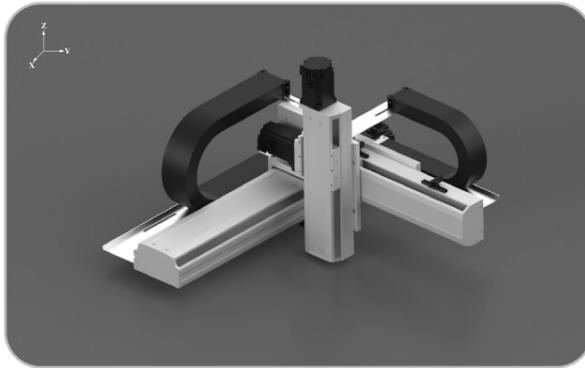
Note:

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。

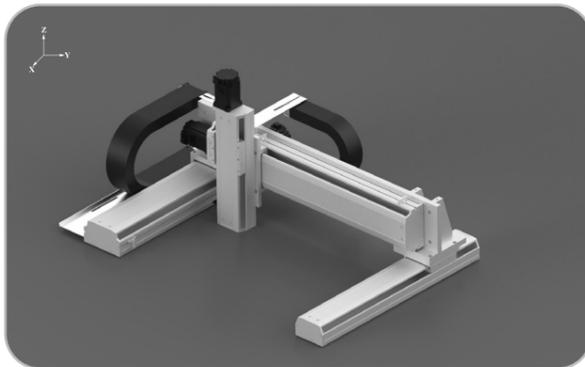
Limon提供豐富的完整直線單元運動系統設計所需的支架和安裝組件。在我們的電機和驅動套裝交付的同時，我們亦會為您提供一個完整的解決方案。尺寸選定和系統選型請聯系我們獲取詳細信息。

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 |
| 最大搬運負載 (kg) Max Transport Load | 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 [Nm]
- M_{trans} = translational acceleration moment [Nm]
- M_{rot} = rotational acceleration moment [Nm]
- M_{idle} = max no-load driving torque [Nm]³
- F_x = feed force [N]
- p = screw lead [mm]
- F_a = maximum required acceleration force [N]
- j_{sp} = inertia of ball screw per meter [kgm²/m]⁴
- n_{max} = maximum required rotational speed [rpm]
- a = maximum required acceleration [m/s²]
- V_{max} = maximum required linear speed [m/s]

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

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

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

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

| | SSG65 | YSC50 | YSC65 | YSO/ YSC100 | YSO/ YSC135 | YSO/ YSC170 |
|---|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Inertia Of Ball Screw Per Meter (JSP) , [kgm ² /m] | 8.46x10 ⁻⁵ | 1.13 x 10 ⁻⁵ | 1.13 x 10 ⁻⁵ | 3.57 x 10 ⁻⁵ | 3.57 x 10 ⁻⁵ | 8.46 x 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 [Nm]
- M_{trans} = 平移加速度扭矩 [Nm]
- M_{rot} = 旋轉加速度扭矩 [Nm]
- M_{idle} = 最大空載扭矩 [Nm]³
- F_x = 進給力 [N]
- d_o = 皮帶輪直徑 [mm]
- F_a = 所需的加速力 [N]
- J_{syn} = 皮帶輪慣量 [kgm²]⁴
- n_{max} = 所需的最大轉速 [rpm]
- a = 所需最大加速度 [m/s²]
- V_{max} = 所需的最大直線速度 [m/s]

¹ 總質量為所有待移動質量的總和 (待移動的物體、滑架/杆、絲杠)。

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

³ 該數值可在各個系列的最大空載扭矩表中查到。

⁴ 該數值可在下表中查到。

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

Feed Force Formula [N]

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

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

Acceleration Force Formula [N]

$$F_a = m \times a$$

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

Power Formula [kW]

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

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

Drive Moment Formulas [Nm]

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

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

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

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

M_A = required drive moment [Nm]
 M_{load} = moment as a result of various loads [Nm]
 M_{trans} = translational acceleration moment [Nm]
 M_{rot} = rotational acceleration moment [Nm]
 M_{idle} = max no-load driving torque [Nm]³
 F_x = feed force [N]
 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]

M_{idle} = see table for unit in question

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

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

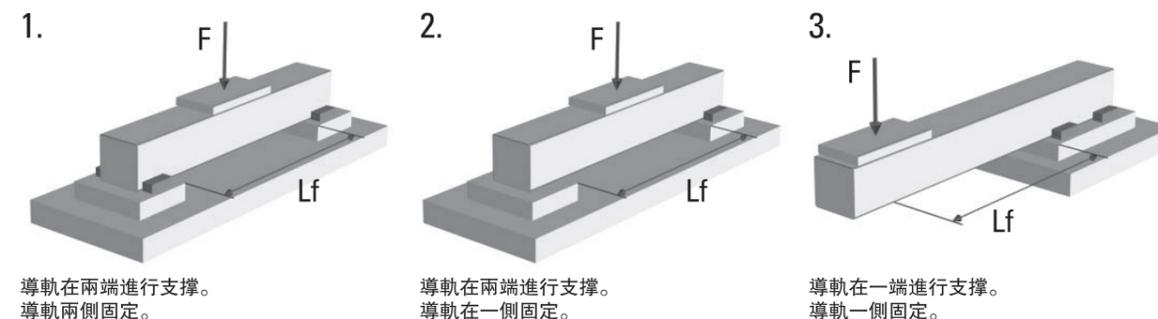
³This value can be found in the carriage idle torque tables.

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

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

| | ITO40 | ITO / ITC60 | ITO / ITC80 | ITO / ITC100 | TSG / TWG45 | TSG / TWG65 | YTO / YTC135 | YTO / YTC170 |
|--|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|
| Idle Torque Of Pulleys (JSYN) , [kgm ²] | 1,34×10 ⁻⁵ | 8,42×10 ⁻⁵ | 3,38×10 ⁻⁵ | 1,17×10 ⁻⁵ | 2,3×10 ⁻⁵ | 2,25×10 ⁻⁵ | 7,44×10 ⁻⁵ | 3,88×10 ⁻⁵ |

負載類型



容許的導軌撓度算式[mm]

$$f_h = L_f \times b$$

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

導軌撓度算式[mm]

負載類型 1.

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

負載類型 2.

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

負載類型 3.

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

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

¹這個值可以在附加技術數據表中查到。

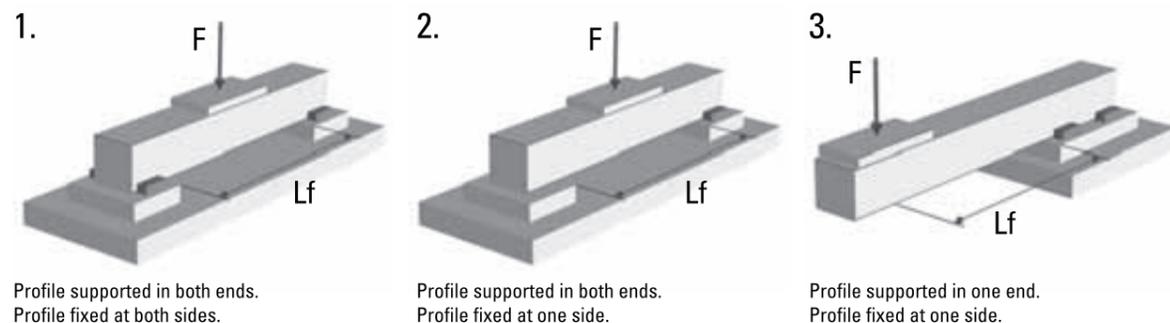
²該數值可在各個單元的性能規格表中查到。

結論算式

$f_h > f_{max}$ = 撓度滿足要求

$f_h < f_{max}$ = 撓度不符合要求, L_f 必須縮短

Load Cases



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 factor ¹

Profile Deflection Formulas [mm]

Load Case 1.

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

Load Case 2.

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

Load Case 3.

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

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

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

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

Conclusion Formulas

$f_h > f_{max}$ = deflection OK

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

實例 1

直線運動系統類型:
ITO80

負載類型:
類型1 - 導軌在兩端支撐并在兩側固定

待通過滑架移動的負載:
 $m_{ext} = 150$ kg

支撐間距:
 $L_f = 600$ mm

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

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

結論:
 $f_h > f_{max}$ = 撓度滿足要求

實例 2

直線運動系統類型:
ITO60

負載類型:
類型2 - 導軌在兩端支撐并在一邊固定

需要通過滑架移動的負載:
 $m_{ext} = 100$ kg

支撐間距:
 $L_f = 600$ mm

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

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

結論:
 $f_h > f_{max}$ = 撓度滿足要求

實例 3

直線運動系統類型:
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

Example 1

Type of linear motion system:
IT080

Load case:
Case 1 - profile supported in both ends and fixed at both sides.

Load to be moved by carriage:
 $m_{ext} = 150 \text{ kg}$

Distance between supports:
 $L_f = 600 \text{ mm}$

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

Calculated values:
 $f_h = 0,3 \text{ mm}$
 $f_{max} = 0,013 \text{ mm}$

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

Example 2

Type of linear motion system:
IT060

Load case:
Case 2 - profile supported in both ends and fixed at one side.

Load to be moved by carriage:
 $m_{ext} = 100 \text{ kg}$

Distance between supports:
 $L_f = 600 \text{ mm}$

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

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

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

Example 3

Type of linear motion system:
IT080

Load case:
Case 3 - profile supported and fixed at one end.

Load to be moved by carriage:
 $m_{ext} = 120 \text{ kg}$

Distance between supports:
 $L_f = 400 \text{ mm}$

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

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固定（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

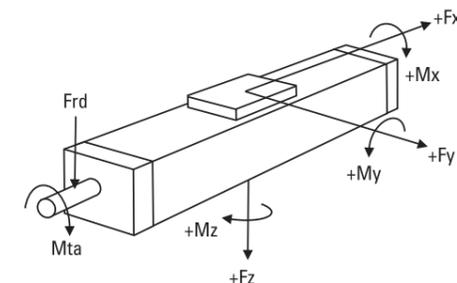
皮帶傳動機構包含一條運行在兩個不同直徑的皮帶輪之間的同步帶。皮帶輪直徑的差異決定了傳動比的大小。皮帶齒輪運行安靜，精度達到中等水平且無需維護，但在過載情況下很容易損壞。

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

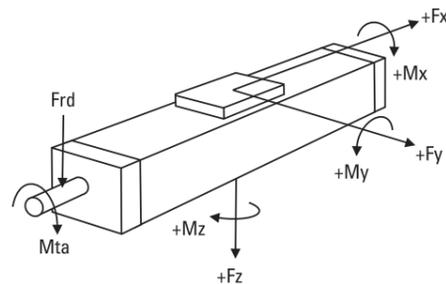
A belt gear consists of a timing belt that runs between two pulley wheels of different diameters. The difference between the diameters determines the gear ratio. Belt gears are quiet, have medium accuracy and require no maintenance but are susceptible to belt breakage under overload conditions.

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

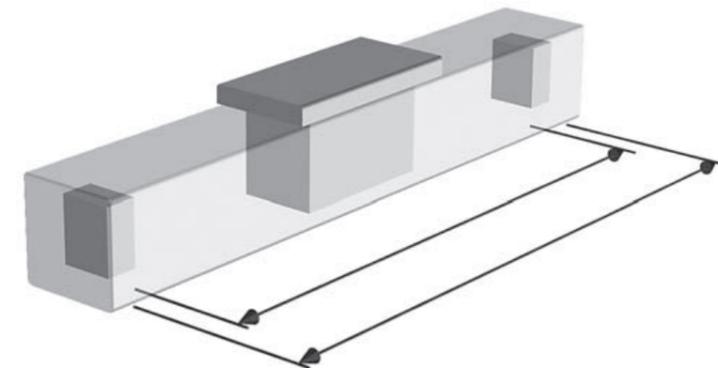
定位精度指期望位置與實際位置之間的偏差，是所有可能造成精度降低的因素（即重復精度，背隙，分辨率，絲杠/皮帶精度，電機、驅動和運動控制系統精度）疊加的結果。有些因素，如背隙和導軌精度，有時能夠通過使用運動控制系統的軟件進行補償。同時參見“精度”。

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（ S_{max} ）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 S_{max} 。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

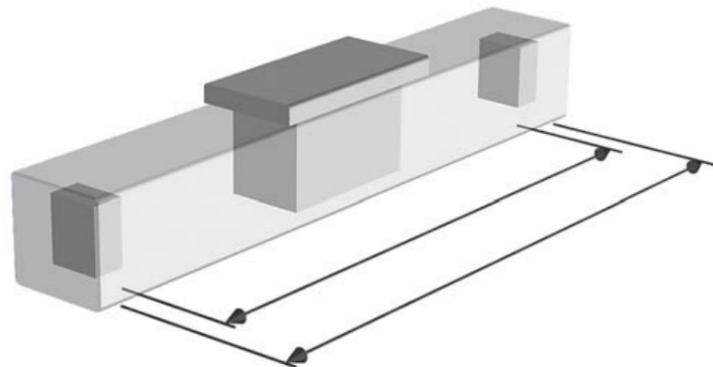
Positioning accuracy is the error between the expected and actual position and is the sum of all factors that will reduce the accuracy (i.e. repeatability, backlash, resolution, screw/belt accuracy, and the accuracy of the motor, drive and motion control system). Some of these factors, such as backlash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

Repeatability

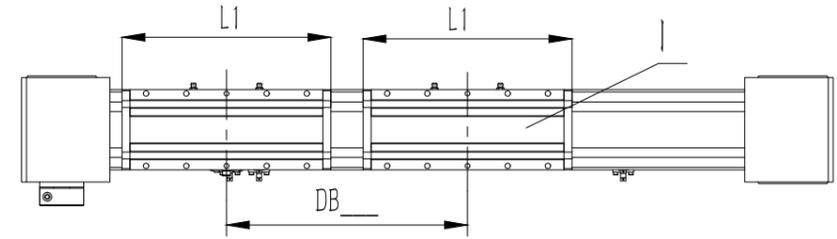
Repeatability is the ability for a positioning system to return to a location when approaching from the same distance, at the same speed and deceleration rate. Some of the factors that affect the repeatability are the angular repeatability of the motor, drive and motion control system, system friction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

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