

LIMON

PRECISION & SPEED

LIMON AUTO TECH CO., LTD.

LINEAR PRECISION LINEAR SPEED



www.limonrobot.cn

萊盟機器人有限公司成立於2002年，總部位於中國臺灣，為全球客戶定制自動化產品並提供專業的解決方案。主營產品線性模組、中空旋轉平臺和線性馬達已廣泛應用於液晶面板行業、電子行業、光伏行業等各大工業領域。

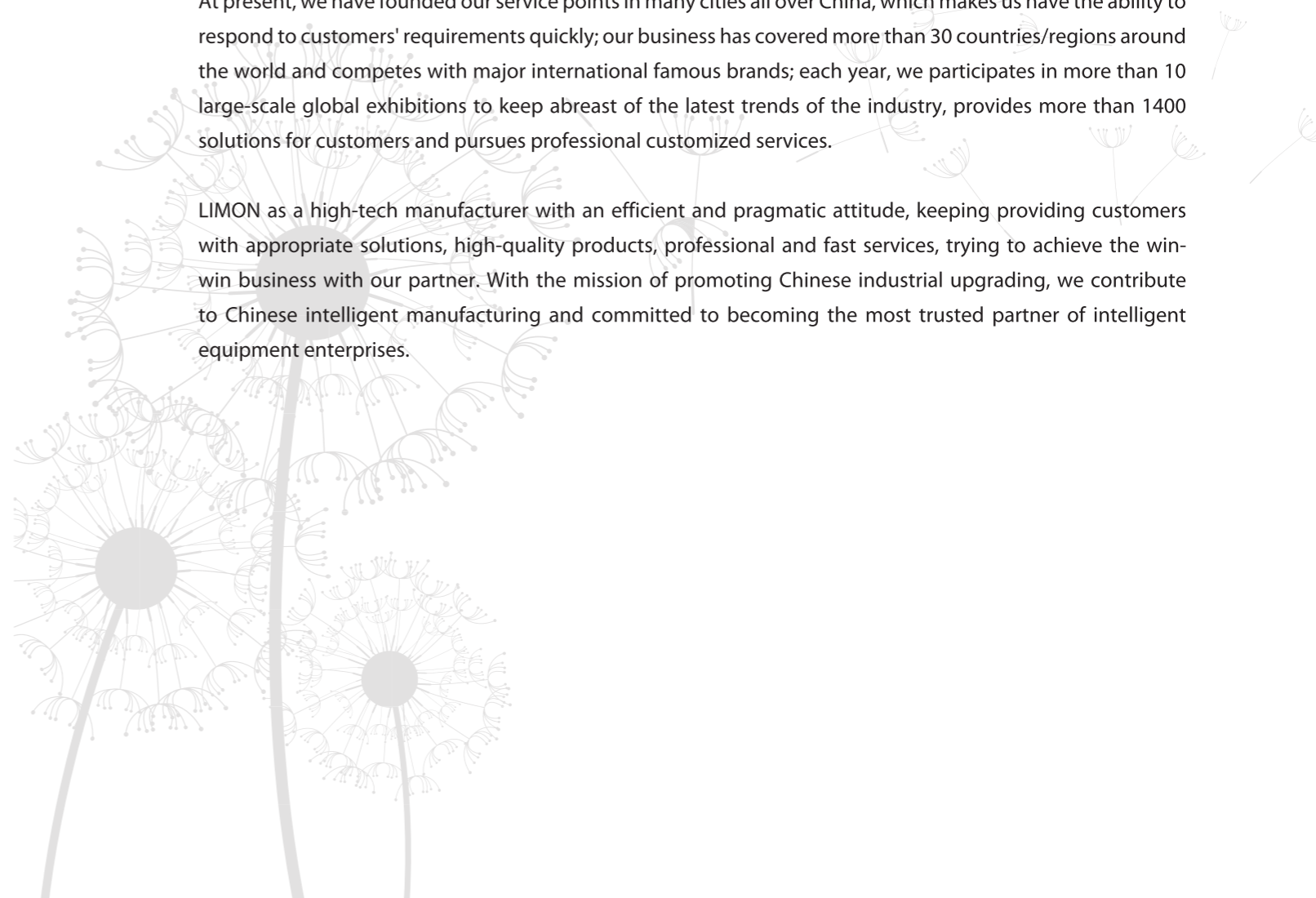
自成立以來，LIMON不斷專注、創新於工業機器人及自動化相關行業。目前LIMON在國內多個城市已設立駐點辦事處，快速回應客戶需求；業務遍佈全球30多個國家和地區，與各大國際知名品牌競爭；每年參加10次以上大型全球展會，時刻把握行業最新動態；為客戶提供超過1400個解決方案，用心追求專業定制化服務。

LIMON以高效務實的態度，為客戶提供合適的方案、高品質的產品及專業快捷的服務，只為實現與客戶的共贏；以推動中國工業產業升級為使命，助力中國智能製造，致力於成為智能裝備企業最信賴的合作夥伴。

LIMON AUTO TECH CO., LTD Founded in 2002, headquarters located in Taiwan, has been providing professional solutions and customized automation products for global customers. Our company mainly focus on linear module, linear motor, hollow rotating actuator and other related products of linear motion system, all of which have been widely used in major industrial fields like LCD panel industry, electronic industry, photovoltaic industry.

Ever since our establishment, we have been concentrating and innovating in the automation related industries. At present, we have founded our service points in many cities all over China, which makes us have the ability to respond to customers' requirements quickly; our business has covered more than 30 countries/regions around the world and competes with major international famous brands; each year, we participates in more than 10 large-scale global exhibitions to keep abreast of the latest trends of the industry, provides more than 1400 solutions for customers and pursues professional customized services.

LIMON as a high-tech manufacturer with an efficient and pragmatic attitude, keeping providing customers with appropriate solutions, high-quality products, professional and fast services, trying to achieve the win-win business with our partner. With the mission of promoting Chinese industrial upgrading, we contribute to Chinese intelligent manufacturing and committed to becoming the most trusted partner of intelligent equipment enterprises.

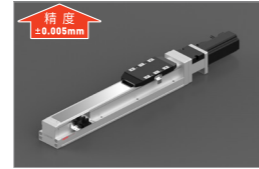


產品綜述 / Overview

- 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 Guide rail embedded slide module

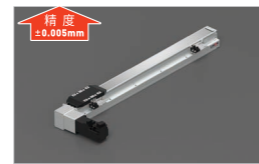
- 產品型號: GSC 40 / 50 / 50S / 80 / 80S / 120
- 高剛性
- 不易發塵
- 體積小
- Part No.: GSC 40 / 50 / 50S / 80 / 80S / 120
- High Rigidity
- Reduce dust
- Compact Design



P1-P24

GTC系列模組 / GTC Series Module

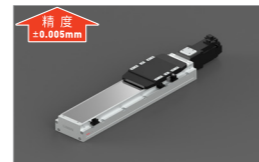
- 產品型號: GTC 50 / 80
- 高剛性
- 不易發塵
- 體積小
- Part No.: GTC 50 / 80
- High Rigidity
- Reduce dust
- Compact Design



P25-P32

GCC系列模組 / GCC Series Module

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



P33-P45

KS系列模組 / KS Series Module

- 產品型號: KS 40 / 50 / 60 / 86 / 100
- 高剛性
- 模組化
- 四方等負荷
- Part No.: KS 40 / 50 / 60 / 86 / 100
- High Rigidity
- Modular Design
- Equal Load in Four Directions



P47-P61

歐標半密式同步帶驅動型 / European standard semi-dense synchronous belt drive type

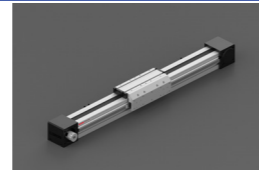
- 產品型號: ITO- 40 / 60 / 60L / 80 / 80L / 100 / 100L / 160
- 直綫導軌導向
- 高載荷
- 同步帶驅動半密式
- Part No.: ITO-40 / 60 / 60L / 80 / 80L / 100 / 100L / 160
- With Linear Guide
- High Characteristic Load Values
- Open Type Driven By Belt



P63-P71

歐標半密式同步帶驅動側軌加強型 / European standard semi-dense synchronous belt drive side rail reinforced type

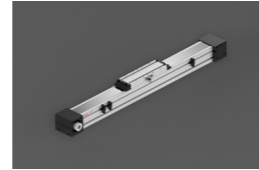
- 產品型號: HTO- 60 / 80 / 80L / 100 / 100L
- 直綫導軌導向
- 高載荷
- 同步帶驅動半密式
- Part No.: 60 / 80 / 80L / 100 / 100L
- With Linear Guide
- High Characteristic Load Values
- Open Type Driven By Belt



P73-P77

歐標全密式同步帶驅動型 / European standard fully dense synchronous belt drive type

- 產品型號: ITC - 60 / 60L / 80 / 80L / 100 / 100L
- 直綫導軌導向
- 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



P79-P83

歐標全密式同步帶驅動側軌加強型 / European standard fully dense synchronous belt drive side rail reinforced type

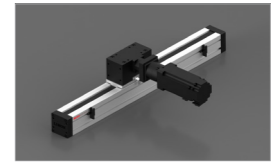
- 產品型號: HTC- 80 / 80L / 100 / 100L
- 直綫導軌導向
- 高載荷
- 同步帶驅動全密式
- Part No.: HTC - 80 / 80L / 100 / 100L
- With Linear Guide
- High Characteristic Load Values
- Clean Room Type Driven By Belt



P85-P90

歐標Z軸提升專用型 / European standard Z-axis lifting special type

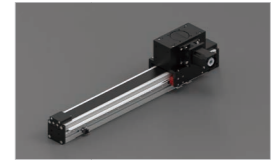
- 產品型號: ITZ-60
- 馬達固定，不增加移動端負載。
- 動態性能好
- 標準軌道
- Part No.: ITZ-60
- Motor Fixed, not increase mobile terminal load
- Good dynamic performance
- Standard Rail



P91-P93

歐標Z軸提升專用型 / European standard Z-axis lifting special type

- 產品型號: HTZ-80
- 馬達固定，不增加移動端負載。
- 動態性能好
- 標準軌道
- Part No.: HTZ-80
- Motor Fixed, not increase mobile terminal load
- Good dynamic performance
- Standard Rail



P94-P95

亞標半密式螺桿驅動型 / Sub-standard semi-tight screw drive type

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



P97-P114

亞標全密式螺桿驅動型 / Sub-standard full-tight screw drive type

- 產品型號: YSC - 135 / 135G / 170
- 高載荷
- 高精度
- 全密式
- Part No.: YSC - 135 / 135G / 170
- High Characteristic Load Values
- High Precision
- Clean Room Type Driven By Ball Screw



P115-P126

亞標半密式同步帶驅動型 / Sub-standard semi-dense synchronous belt drive type

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



P127-P145

亞標全密式同步帶驅動型 / Sub-standard full-density synchronous belt drive type

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



P147-P159

有鐵芯式線性馬達驅動 / Linear Motor Driven Type With Iron Core

- 產品型號: GLC-50/80
- 高性能比
- 高精度
- Part No.: GLC-50/80
- High cost effective
- High Precision



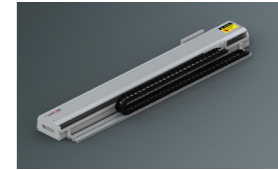
P161-P165

- 產品型號: MLO-110/135
- 大推力
- 高精度
- Part No.: MLO-110/135
- High thrust
- High Precision



P166-P172

- 產品型號: ZLO-17/22
- 大推力
- 高精度
- Part No.: ZLO-17/22
- High thrust
- High Precision



P174-P181

- 產品型號: WLO-14/17/22
- 零頓振
- 高精度
- Part No.: WLO-14/17/22
- Zero Cogging Force
- High Precision



P182-P192

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



P194-P196

驅動計算 / Drive Calculations

P197-P200

撓度計算 / Deflection Calculations

P201-P204

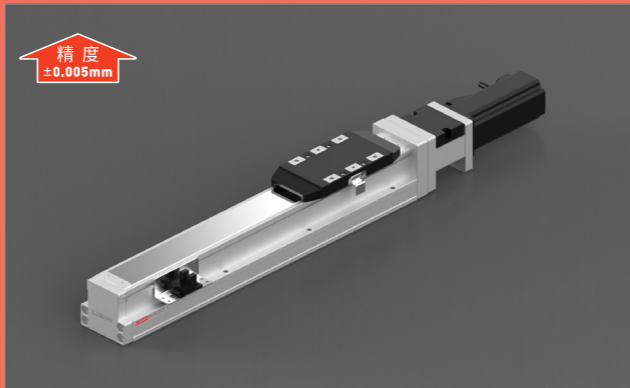
詞匯表 / Glossary

P205-P208

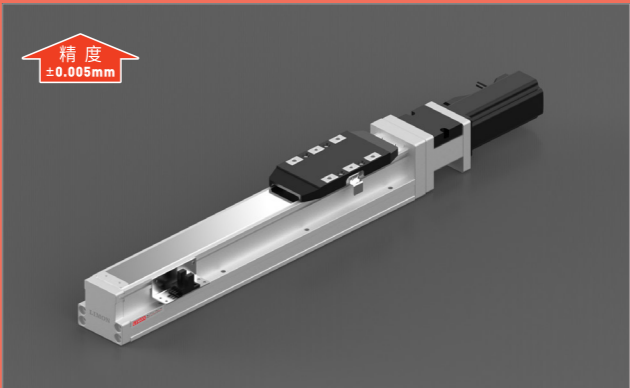
輔助滑塊 / Auxiliary Block

P209

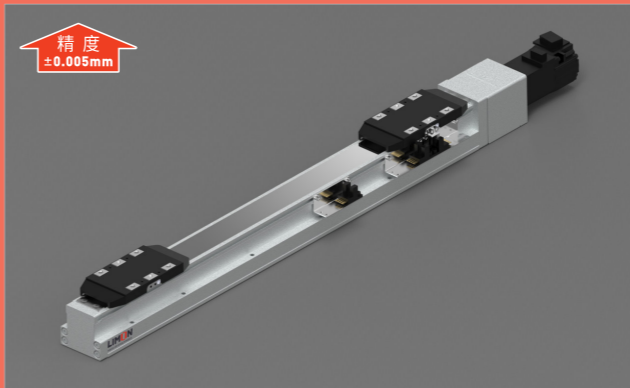
導軌內嵌式滑台模組
Guide rail embedded slide module



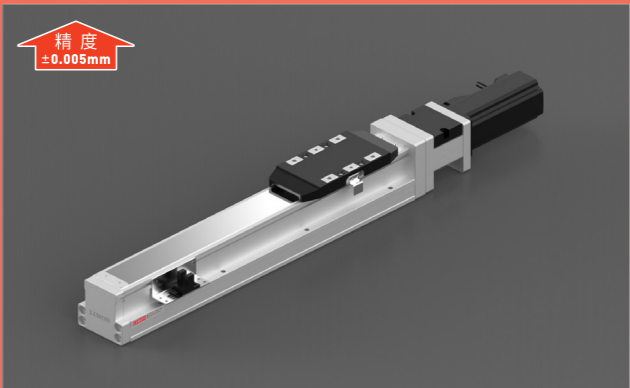
GSC 40



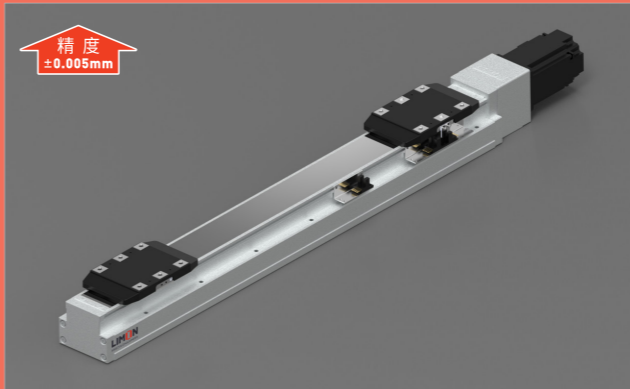
GSC 50



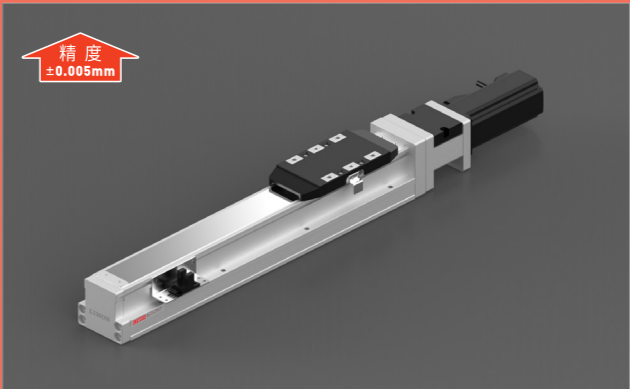
GSC 50S



GSC 80



GSC 80S



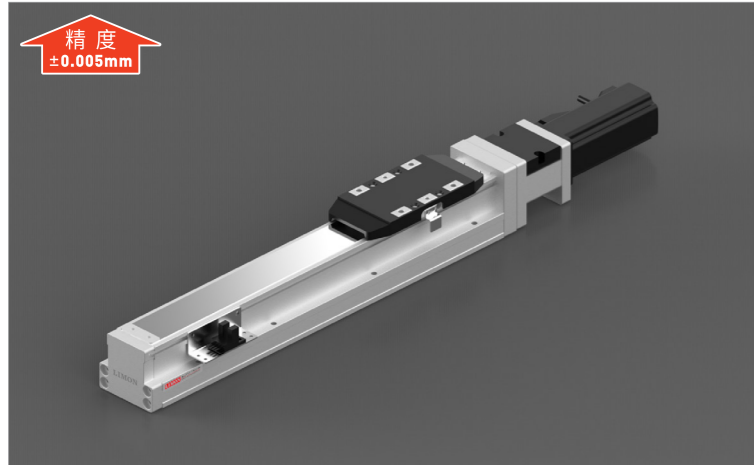
GSC 120

GSC 40 導軌內嵌式滑台模組

Guide rail embedded slide module

訂購型號代碼 Code

| | | | | | | |
|--------------------------------|---|--|---|---|--|---|
| GSC 40 本體型號 Item NO. | L06 螺桿導程 Ball Screw Lead 06 12 | 500 行程 Stroke 50-800, 間隔Gap50 | MS 馬達方向 Motor Mounting Position 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 | M10 馬達廠牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 10 100W P 松下 Panasonic 10 100W | P3 限位傳感器數量 Photoelectric Sensor P1: 1 1PC P2: 2 2PCS P3: 3 3PCS 未標記: 無 NoMark/NoSensor | A001 特注式樣 Special Order No. 未標記: 無 NoMark/NoSensor |
|--------------------------------|---|--|---|---|--|---|

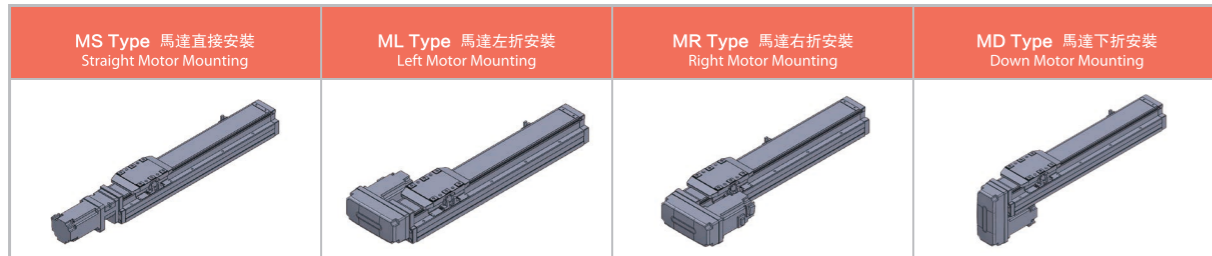


最大靜態力和力矩 Max Static Forces And Torques

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

除了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 40 | | |
|------------------------------|------------------------------------|----------------------|
| 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) | 06 12 |
| | 最高速度 Maximum Speed (mm/s) | 300 600 |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) |
| 垂直使用Vertical (kg) | | 8 3.5 |
| 基本規格 Basic Specification | 定格推力 Rated Thrust (N) | 141 71 |
| | 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 Ø10 |
| | 聯軸器 Coupling (mm) | 7 × 8 |
| 原點感應器 Home Sensor | PM-Y45(NPN) | |

容許負載力矩表 Allowable Overhang

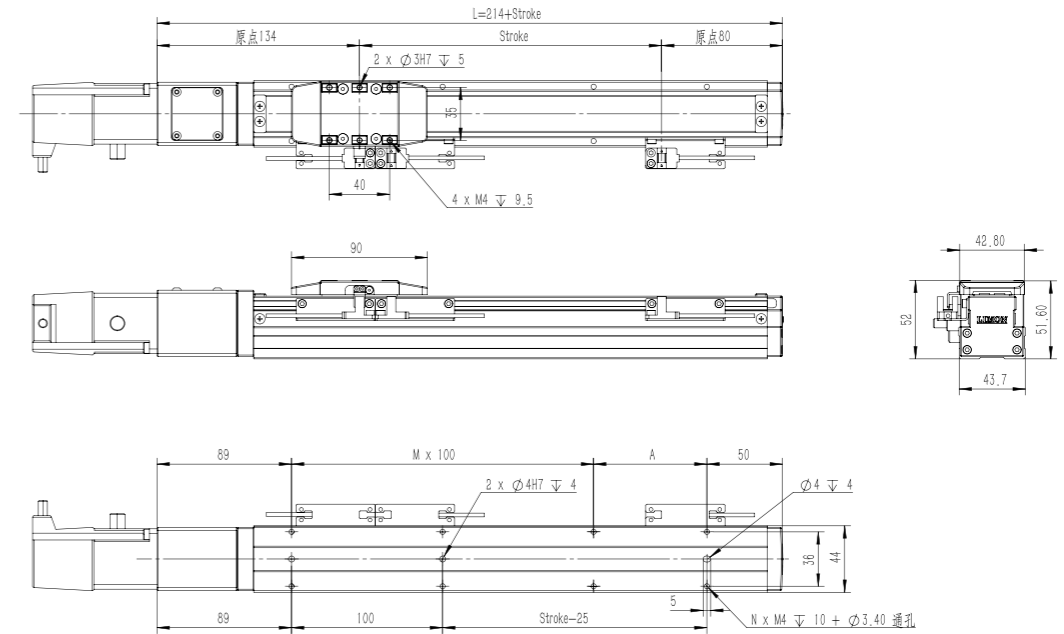
| 單位Unit: mm | | | |
|---------------------------------|------------|-----|--------|
| 水平安裝 Horizontal Installation | A | B | C |
| | 10kg | 550 | 53 70 |
| | 15kg | 350 | 32 45 |
| 壁掛安裝 Wall Installation | A | B | C |
| | 10kg | 72 | 52 550 |
| | 15kg | 45 | 32 345 |
| 垂直安裝 Vertical Installation | A | C | |
| | 4kg | 150 | 150 |
| | 8kg | 75 | 75 |
| 導程 06 lead | 導程 06 lead | | |
| | 20kg | 250 | 22 31 |
| | 20kg | 31 | 22 250 |
| 導程 12 lead | 導程 12 lead | | |
| | 8kg | 305 | 59 75 |
| | 10kg | 240 | 45 57 |
| 導程 12 lead | 導程 12 lead | | |
| | 8kg | 75 | 59 300 |
| | 10kg | 58 | 45 240 |
| 導程 12 lead | 導程 12 lead | | |
| | 12kg | 195 | 37 47 |
| | 12kg | 47 | 37 190 |

導軌內嵌式滑台模組 GSC 40

Guide rail embedded slide module

GSC 40-MS 馬達直接安裝 Straight Motor Mounting

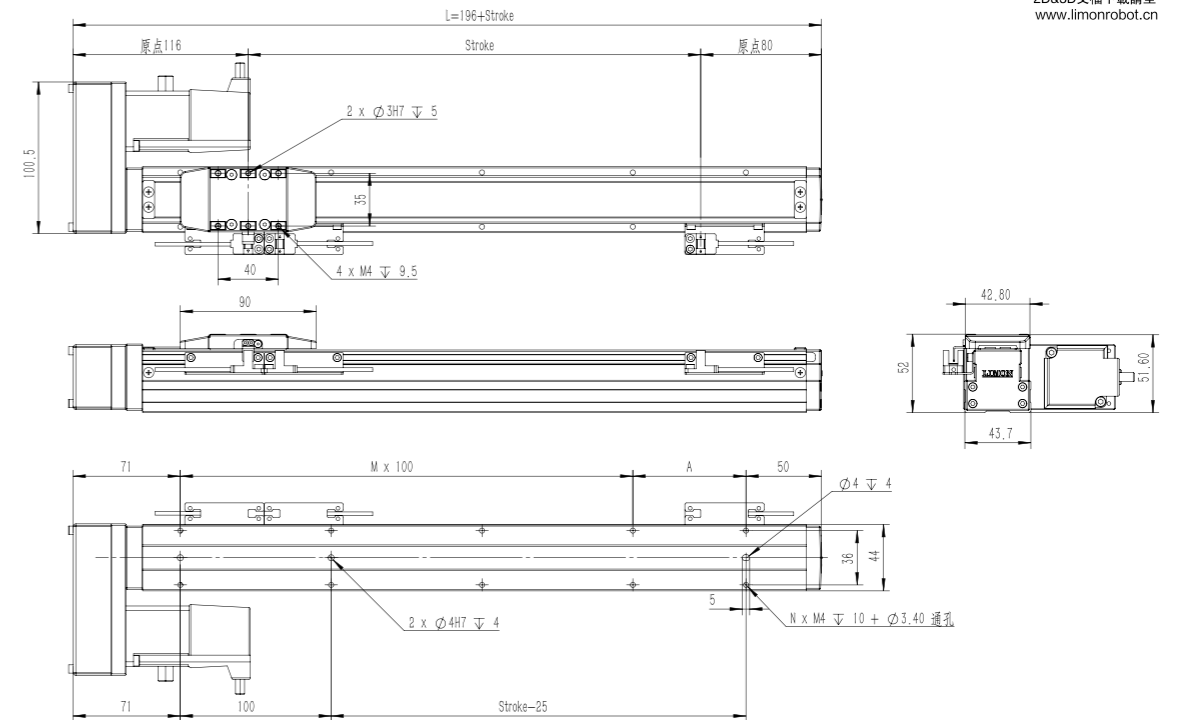
2D&3D文檔下載請至
www.limonrobot.cn



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

GSC 40-ML 馬達左折安裝 Left Motor Mounting

2D&3D文檔下載請至
www.limonrobot.cn



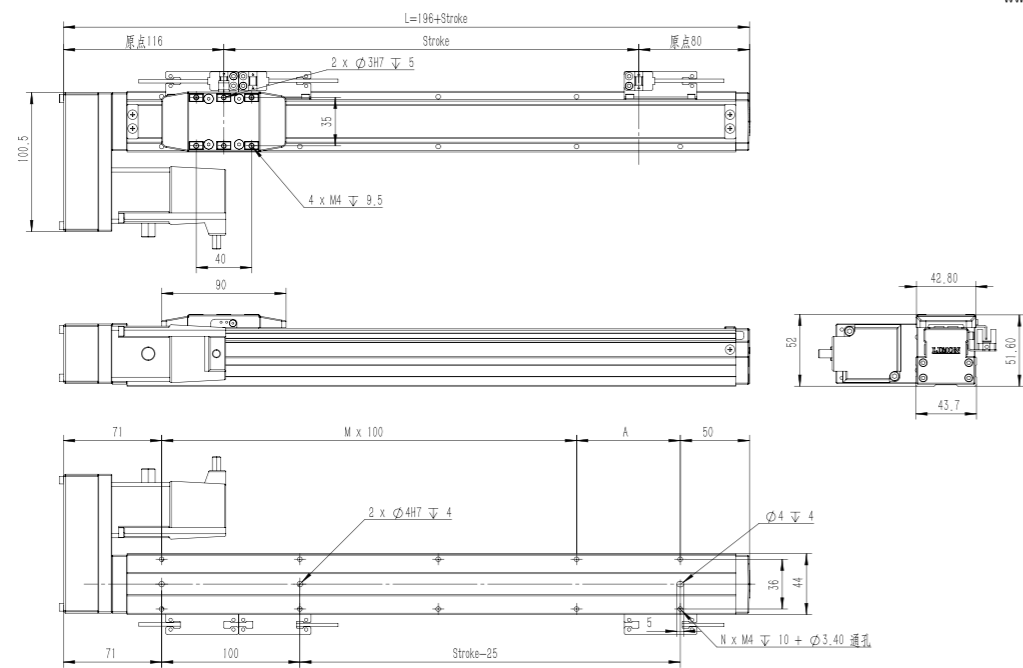
| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|----------------|------|------|-----|------|------|------|------|-----|------|------|------|------|-----|------|------|------|
| L | 246 | 296 | 346 | 396 | 446 | 496 | 546 | 596 | 646 |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

GSC 40 導軌內嵌式滑台模組

Guide rail embedded slide module

GSC 40-MR 馬達右折安裝 Right Motor Mounting

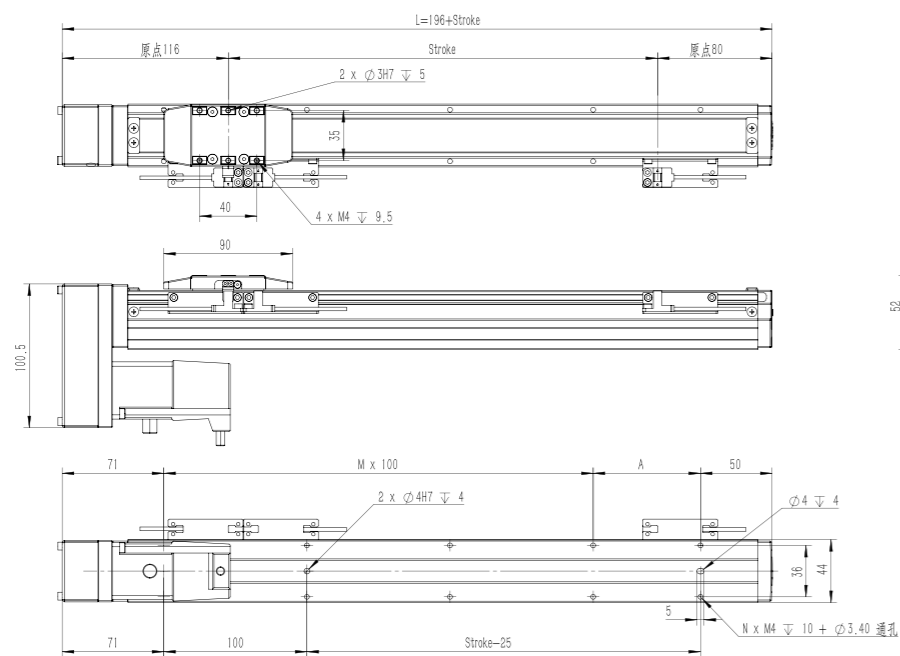
2D&3D文檔下載請至
www.limonrobot.cn



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

GSC 40-MD 馬達下折安裝 Down Motor Mounting

2D&3D文檔下載請至
www.limonrobot.cn



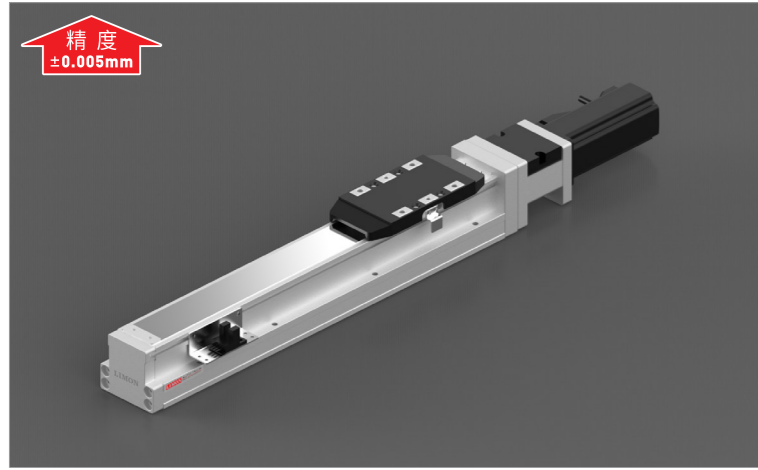
| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|----------------|------|------|-----|------|------|------|------|-----|------|------|------|------|-----|------|------|------|
| L | 246 | 296 | 346 | 396 | 446 | 496 | 546 | 596 | 646 |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

GSC 50 導軌內嵌式滑台模組

Guide rail embedded slide module

訂購型號代碼 Code

| | | | | | | |
|--------------------------------|---------------------------------------|----------------------------|---|--|--|--|
| GSC 50 本體型號 Item NO. | L10 螺桿導程 Ball Screw Lead | 500 行程 Stroke | MS 馬達方向 Motor Mounting Position | M10 馬達廠牌、功率 Motor Brand, Power Output | P3 限位傳感器數量 Photoelectric Sensor | A001 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 | |

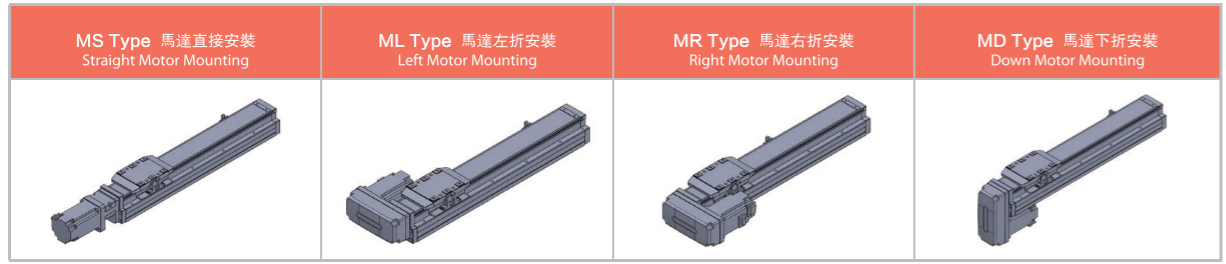


最大靜態力和力矩 Max Static Forces And Torques

| Type | GSC50 |
|------------|-------|
| M(x) (N·m) | 104 |
| M(y) (N·m) | 103 |
| M(z) (N·m) | 103 |

除了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 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) |
| 垂直使用 Vertical (kg) | | 10 5 2.5 |
| 基本規格 Basic Specification | 定格推力 Rated Thrust (N) | 341 170 85 |
| | 標準行程 Stroke (mm) | 50-800 mm / 50 Pitch |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 100 |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | C7 Ø12 |
| | 聯軸器 Coupling (mm) | 7×8 |
| 原點感應器 Home Sensor | PM-Y45(NPN) | |

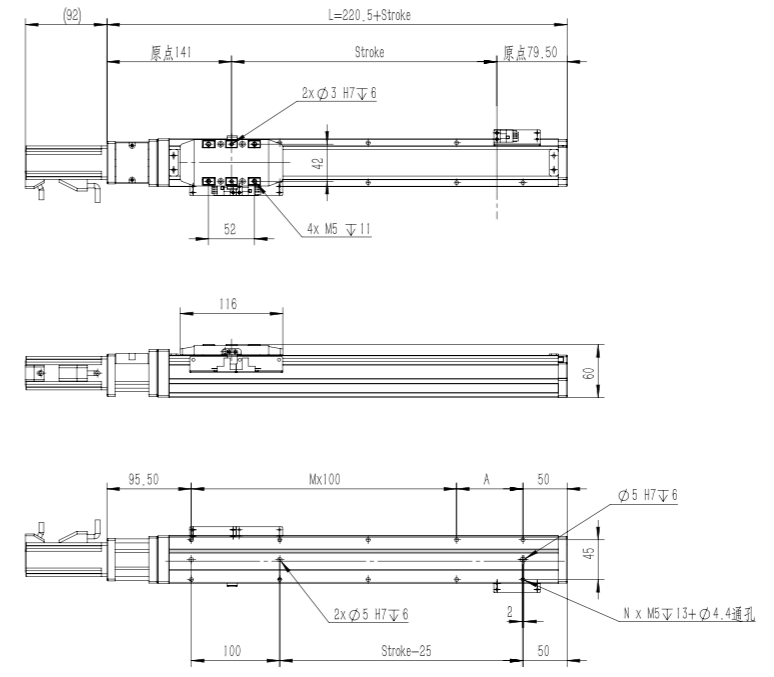
容許負載力矩表 Allowable Overhang

| 單位Unit: mm | | | | |
|---------------------------------|-----------------|-----------------|----------------|----------------|
| 水平安裝 Horizontal Installation | A | B | C | |
| | 導程 5 lead | 10kg 650 75 100 | 20kg 440 32 45 | |
| | 導程 10 lead | 5kg 600 145 185 | 10kg 370 70 85 | |
| 壁掛安裝 Wall Installation | A | B | C | |
| | 導程 5 lead | 10kg 100 75 650 | 20kg 45 32 420 | |
| | 導程 10 lead | 5kg 180 145 600 | 10kg 85 68 370 | |
| 垂直安裝 Vertical Installation | A | C | | |
| | 導程 5 lead | 6kg 145 145 | 8kg 110 110 | |
| | 導程 10 lead | 1kg 800 800 | 3kg 260 260 | |
| 導程 20 lead | 5kg 320 120 130 | 8kg 220 70 80 | 10kg 175 55 60 | |
| | 導程 20 lead | 5kg 130 120 320 | 8kg 75 70 220 | 10kg 60 55 170 |
| | 導程 20 lead | 2.5kg 250 250 | | |

導軌內嵌式滑台模組 GSC 50

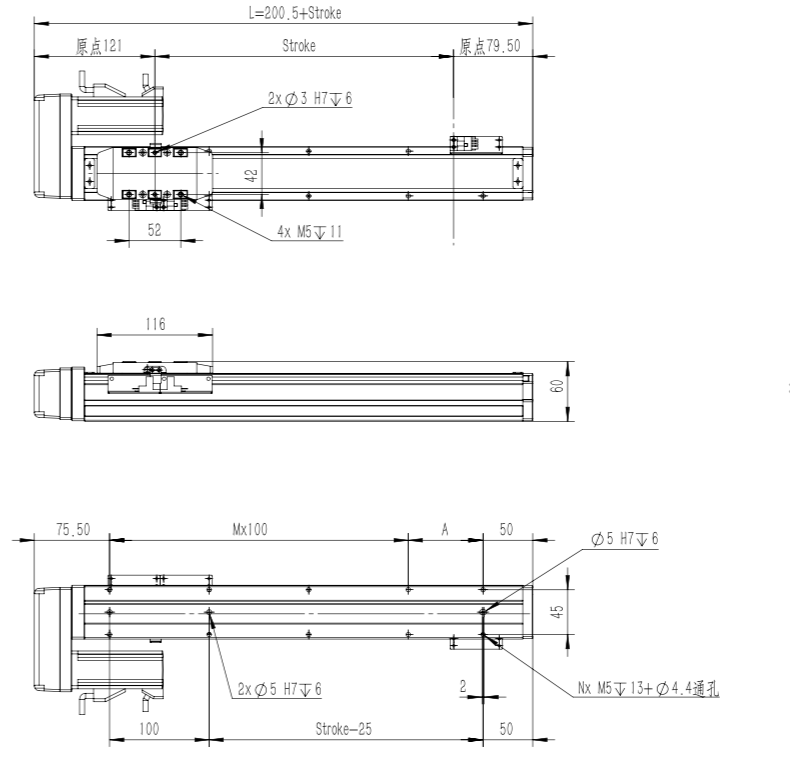
Guide rail embedded slide module

GSC 50-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 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| L | 270.5 | 320.5 | 370.5 | 420.5 | 470.5 | 520.5 | 570.5 | 620.5 | 670.5 | 720.5 | 770.5 | 820.5 | 870.5 | 920.5 | 970.5 | 1020.5 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| 重量 Weight (kg) | 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



| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| L | 250.5 | 300.5 | 350.5 | 400.5 | 450.5 | 500.5 | 550.5 | 600.5 | 650.5 | 700.5 | 750.5 | 800.5 | 850.5 | 900.5 | 950.5 | 1000.5 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| 重量 Weight (kg) | 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 |

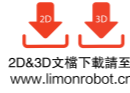
GSC Series

GSC Series

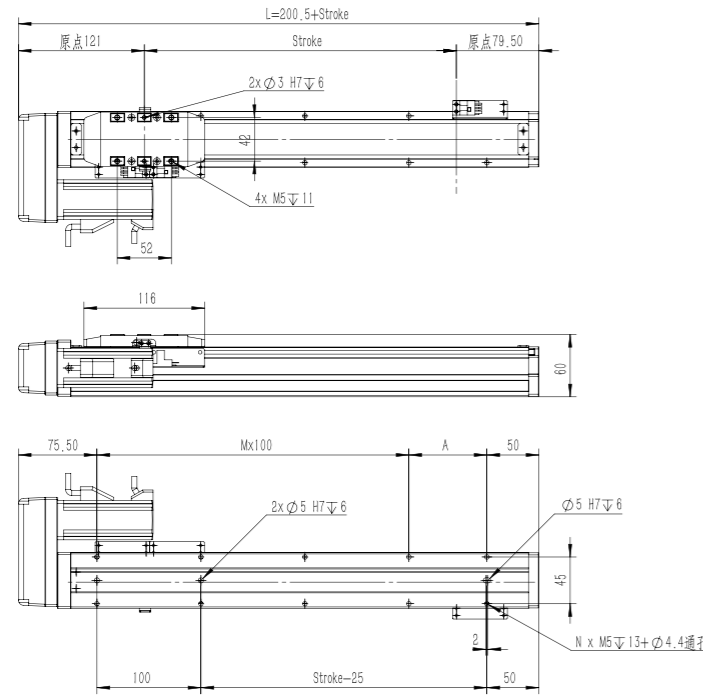
GSC 50 導軌內嵌式滑台模組

Guide rail embedded slide module

GSC 50-MR 馬達右折安裝 Right Motor Mounting

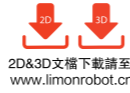


2D&3D文檔下載請至
www.limonrobot.cn

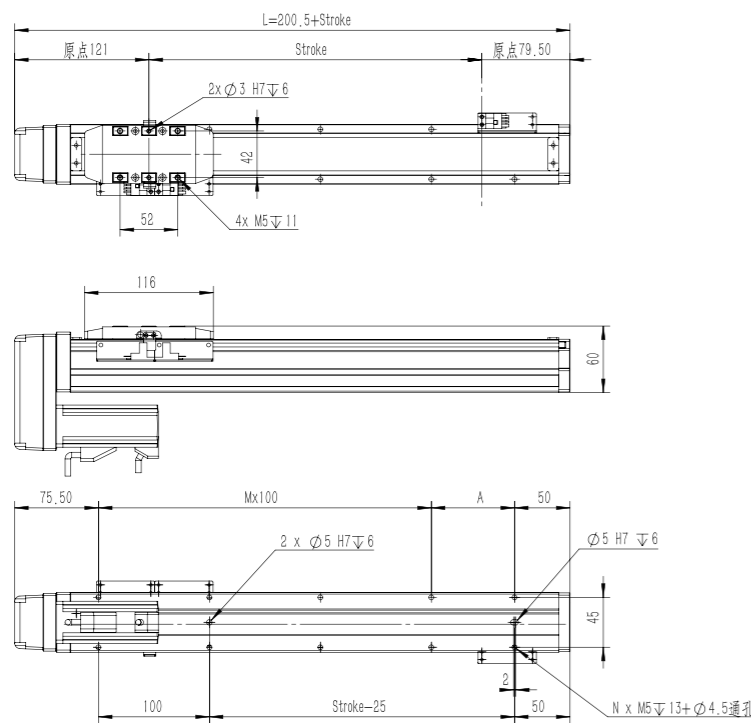


| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| L | 250.5 | 300.5 | 350.5 | 400.5 | 450.5 | 500.5 | 550.5 | 600.5 | 650.5 | 700.5 | 750.5 | 800.5 | 850.5 | 900.5 | 950.5 | 1000.5 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| 重量 Weight (kg) | 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



2D&3D文檔下載請至
www.limonrobot.cn



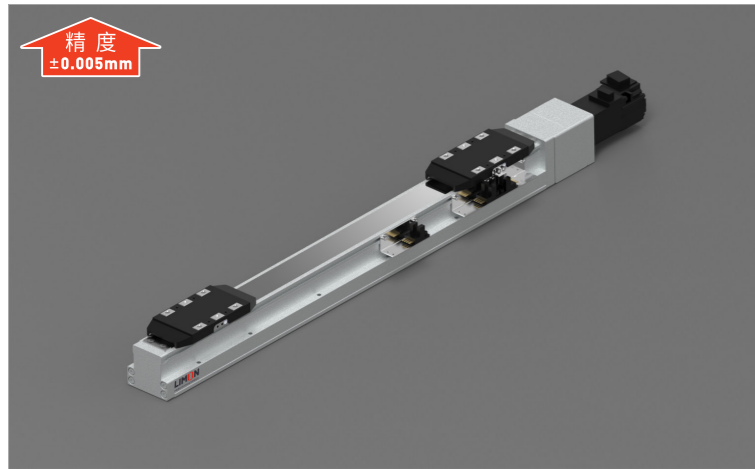
| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| L | 250.5 | 300.5 | 350.5 | 400.5 | 450.5 | 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 |
| 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 50S 軌道內嵌式對開滑台模組

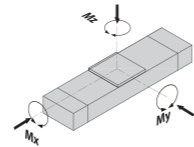
Built-in track slide module

訂購型號代碼 Code

| | | | | | | |
|---------------------------------|---|---|---|---|---|---|
| GSC 50S 本體型號 Item NO. | L05 螺桿導程 Ball Screw Lead 05 | 275 行程 Stroke 25-325 開隔Gap25 | MS 馬達方向 Motor Mounting Position 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 | M10 馬達廠牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 10 100W P 松下 Panasonic 10 100W | P3 限位傳感器數量 Photoelectric Sensor P1: 1 抵 1PCS P2: 2 抵 2PCS P3: 3 抵 3PCS 未標記: 無 NoMark/NoSensor | A001 特注式樣 Special Order No. 未標記: 無 NoMark/NoSensor |
|---------------------------------|---|---|---|---|---|---|



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



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

除了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 50S | | |
|------------------------------|------------------------------------|--|
| 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) | 05 |
| | 最高速度 Maximum Speed (mm/s) | 250 |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) 30 (雙滑座 Dual Carriage) 垂直使用Vertical (kg) 10 (雙滑座 Dual Carriage) |
| 基本規格 Basic Specification | 定格推力 Rated Thrust (N) | 341 |
| | 標準行程 Stroke (mm) | 25-325 mm / 25 Pitch |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 100 |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | C7 Ø12 |
| | 聯軸器 Coupling (mm) | 7×8 |
| 原點感應器 Home Sensor | PM-Y45(NPN) | |

容許負載力矩表 Allowable Overhang

| 水平安裝 Horizontal Installation | | | | 壁掛安裝 Wall Installation | | | |
|---------------------------------|-----|----|-----|---------------------------|-----|----|-----|
| 導程 lead | A | B | C | 導程 lead | A | B | C |
| 10kg | 650 | 75 | 100 | 10kg | 100 | 75 | 650 |
| 20kg | 440 | 32 | 45 | 20kg | 45 | 32 | 420 |
| 30kg | 270 | 19 | 25 | 30kg | 25 | 19 | 260 |

| 垂直安裝 Vertical Installation | | |
|-------------------------------|-----|-----|
| 導程 lead | A | C |
| 6kg | 145 | 145 |
| 8kg | 110 | 110 |
| 10kg | 90 | 90 |

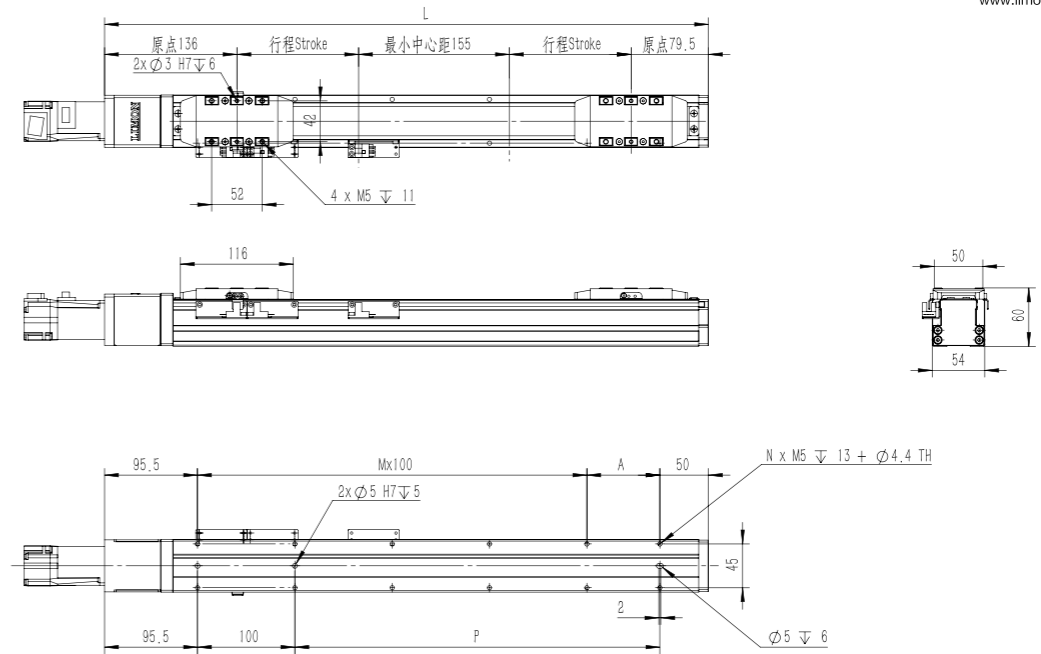
軌道內嵌式對開滑台模組 GSC 50S

Built-in track slide module

GSC50S-MS 馬達直接安裝 Straight Motor Mounting



2D&3D文檔下載請至
www.limonrobot.cn

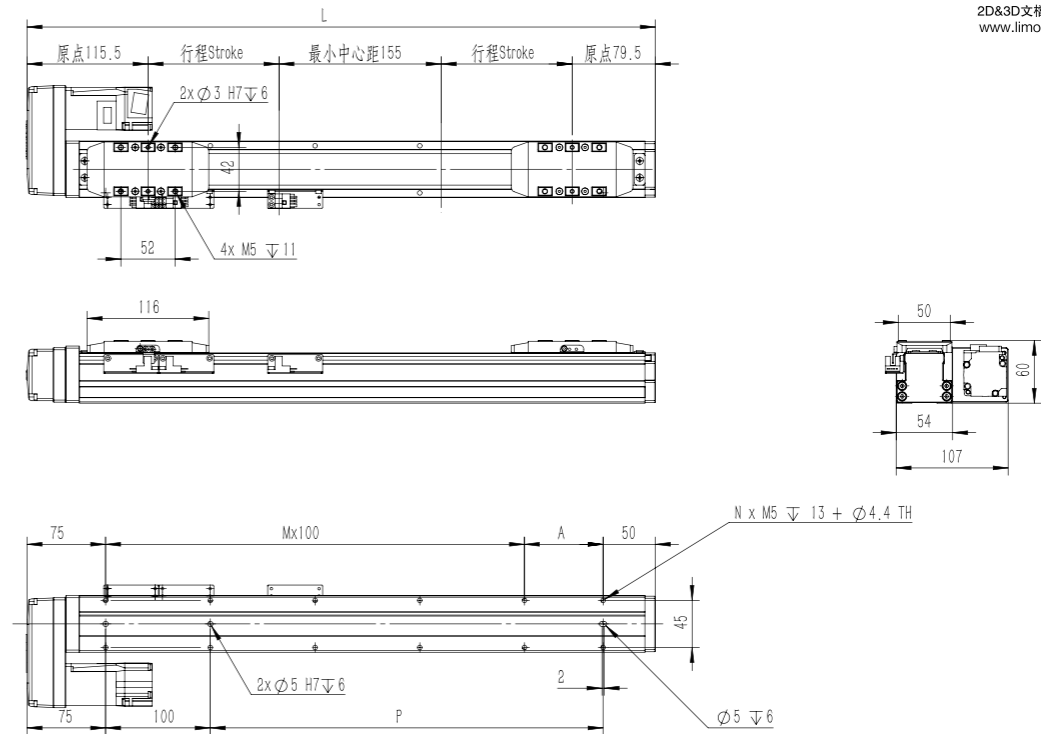


| 行程 Stroke (mm) | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| L | 420.5 | 470.5 | 520.5 | 570.5 | 620.5 | 670.5 | 720.5 | 770.5 | 820.5 | 870.5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

GSC50S-ML 馬達左折安裝 Left Motor Mounting



2D&3D文檔下載請至
www.limonrobot.cn



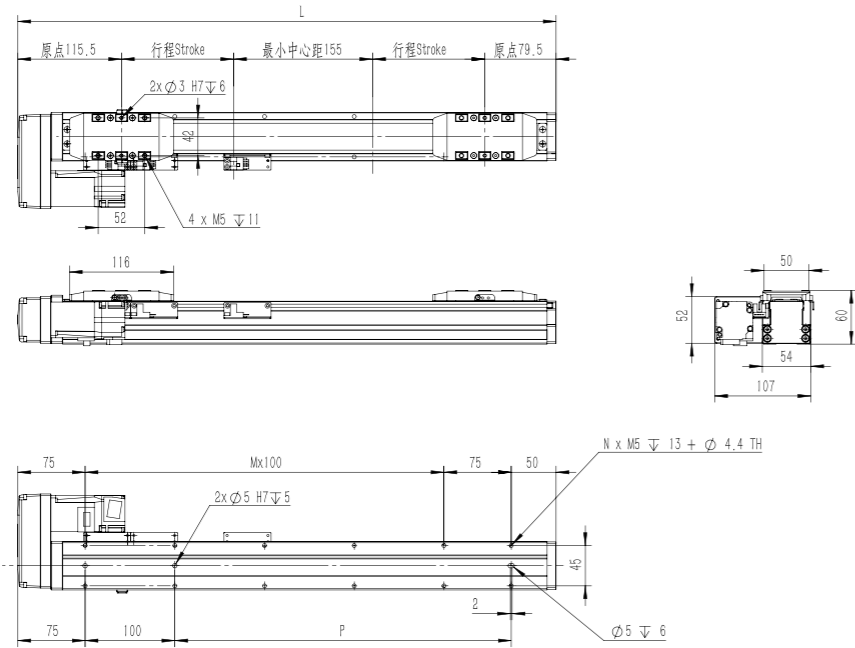
| 行程 Stroke (mm) | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| A | 75 | 25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

GSC 50S 軌道內嵌式對開滑台模組

Built-in track slide module

GSC 50S-MR 馬達右折安裝 Right Motor Mounting

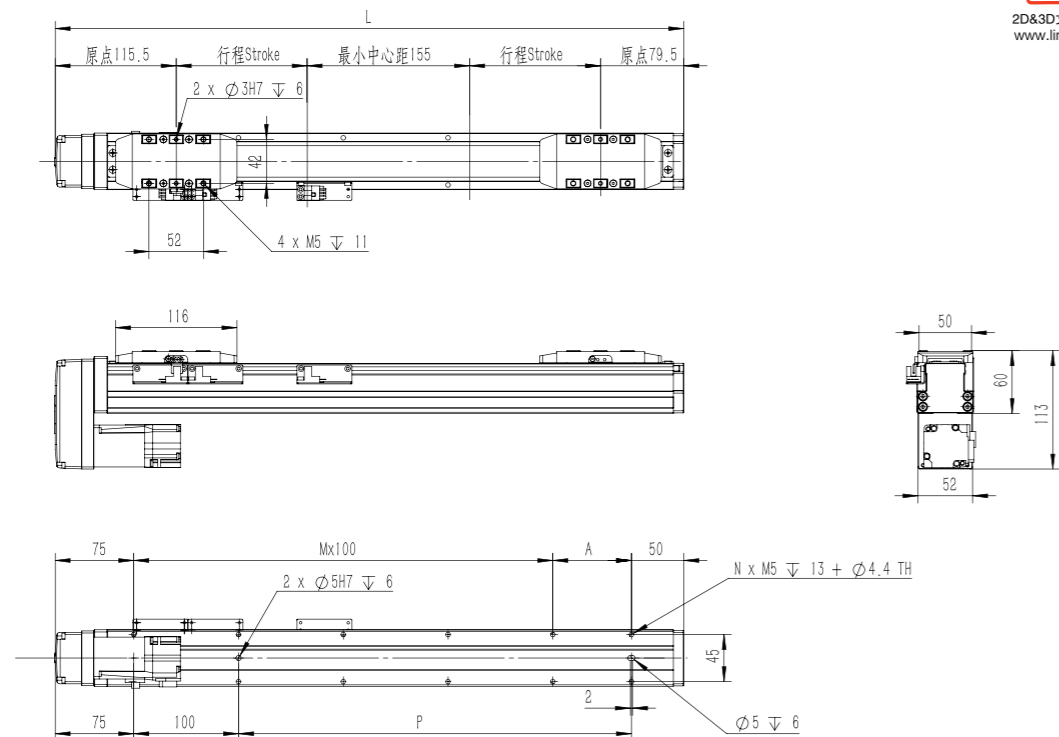
2D&3D文檔下載請至
www.limonrobot.cn



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

GSC 50S-MD 馬達下折安裝 Down Motor Mounting

2D&3D文檔下載請至
www.limonrobot.cn



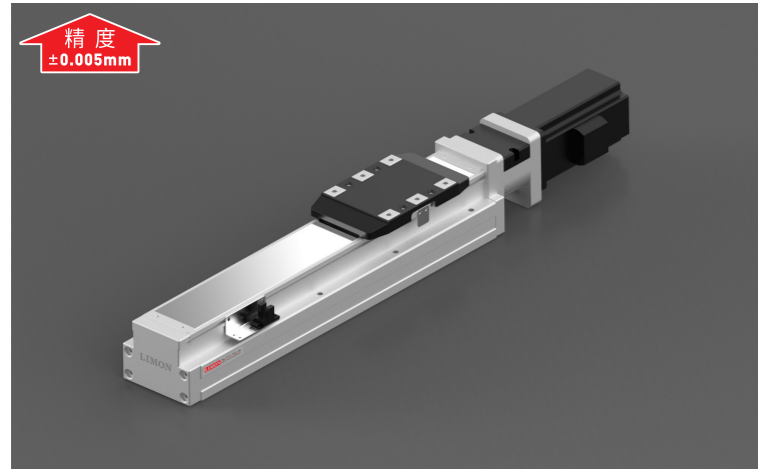
| 行程 Stroke (mm) | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| A | 75 | 25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

GSC 80 軌道內嵌式滑台模組

Guide rail embedded slide module

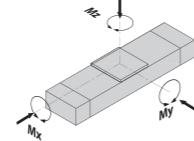
訂購型號代碼 Code

| | | | | | | |
|---------------|----------------------|--------------------|---|---|--|------------------------|
| 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 1PCS P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark/NoSensor | |



最大靜態力和力矩

Max Static Forces And Torques

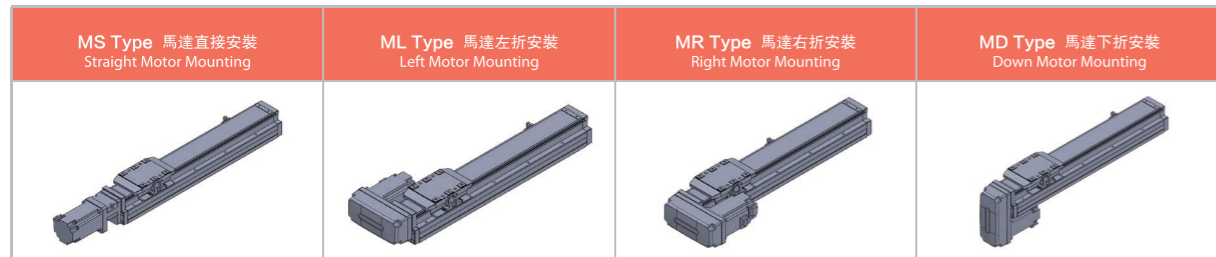


| Type | GSC 80 |
|-------------|--------|
| ■M(x) (N·m) | 626 |
| ■M(y) (N·m) | 318 |
| ■M(z) (N·m) | 318 |

除了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 | |
| | 最高可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 50 30 18 |
| | | 垂直使用Vertical (kg) | 15 8 3 |
| 定格推力 Rated Thrust (N) | 683 341 174 | | |
| 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) | 10 × 14/11 | |
| | 原點感應器 Home Sensor | PM-Y45(NPN) | |

容許負載力矩表 Allowable Overhang

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

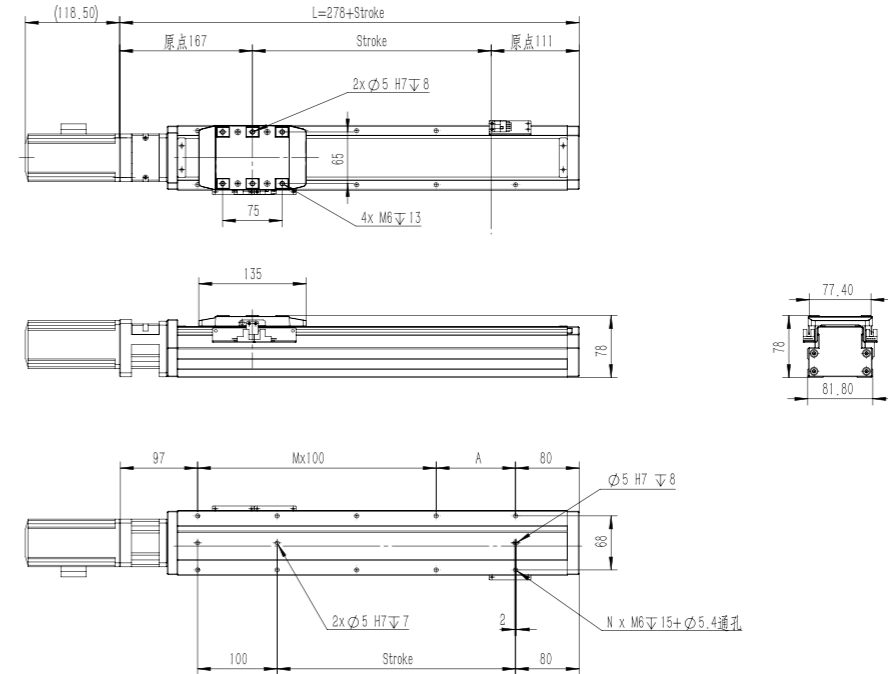
軌道內嵌式滑台模組 GSC 80

Guide rail embedded slide module

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

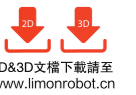


2D&3D文檔下載請至
www.limonrobot.cn

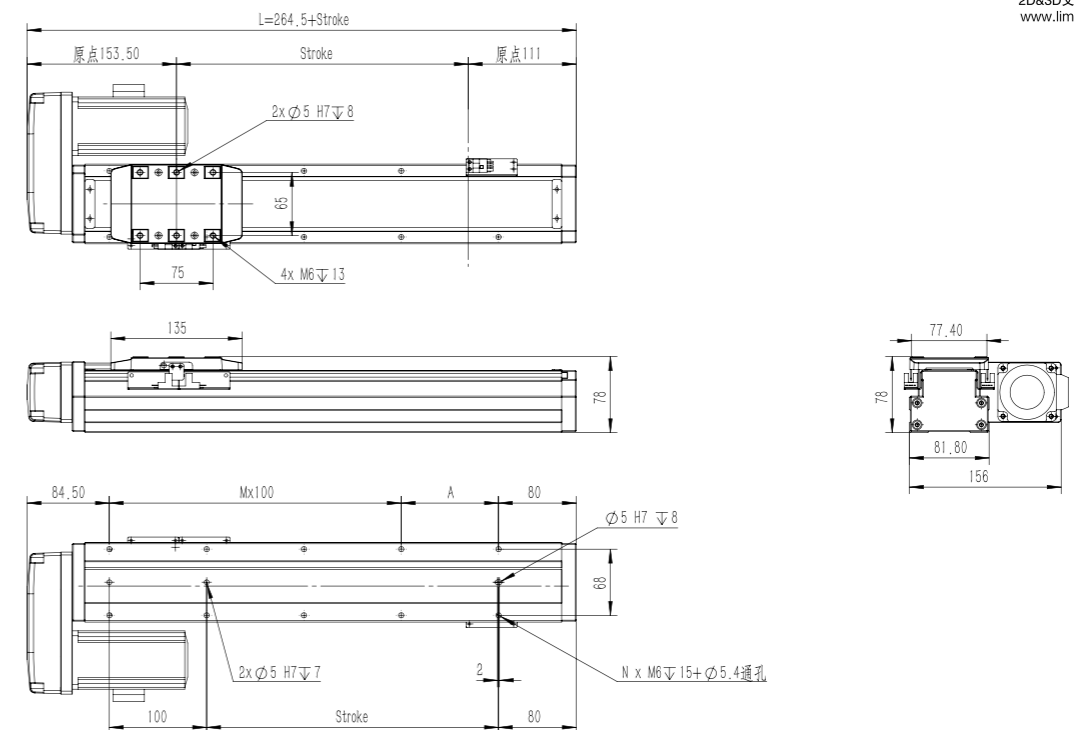


| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|----------------|------|------|------|------|------|-----|------|------|-----|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 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 |
| 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

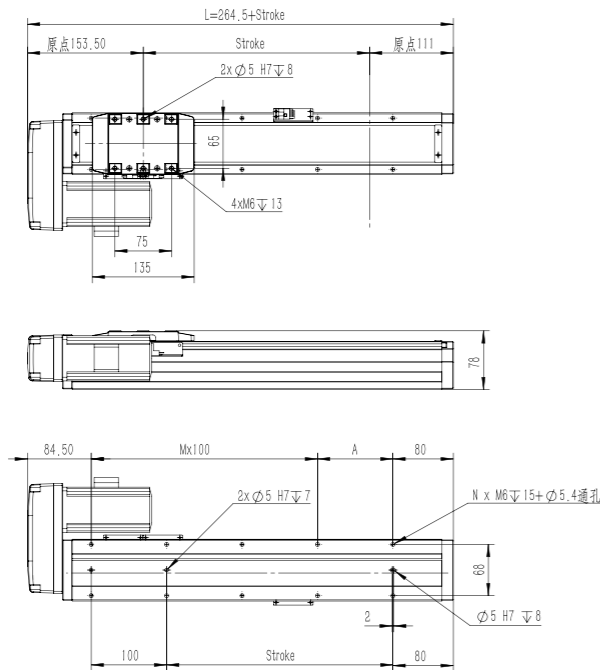


| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 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 |
| 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 導軌內嵌式滑台模組

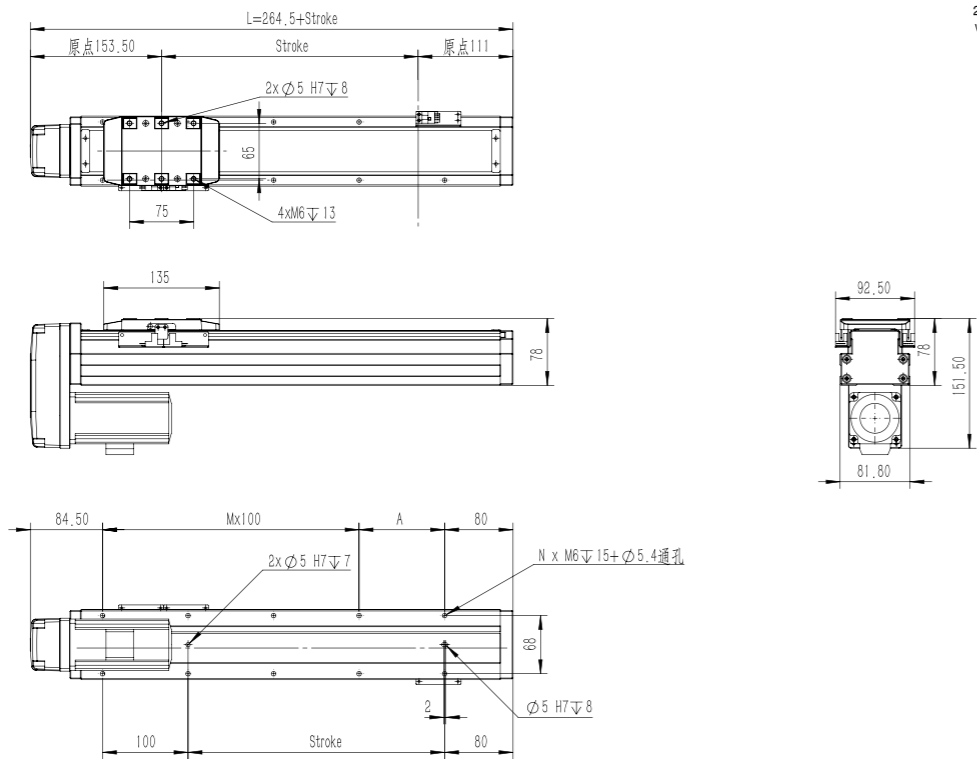
Guide rail embedded slide module

GSC 80-MR 馬達右折安裝 Right Motor Mounting



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

GSC 80-MD 馬達下折安裝 Down Motor Mounting



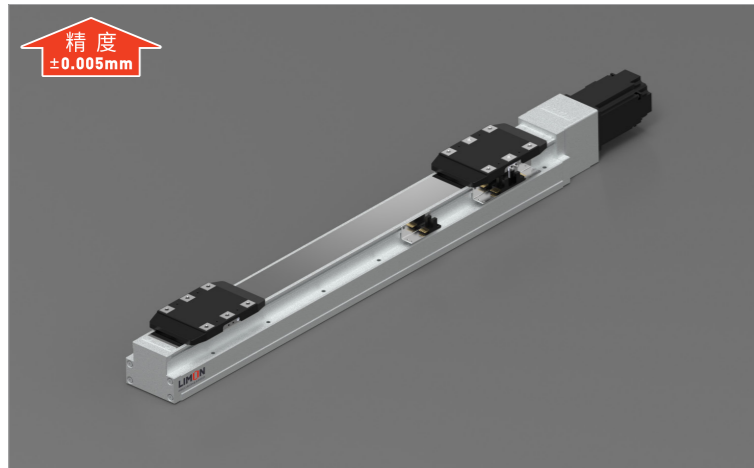
| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| L | 314.5 | 364.5 | 414.5 | 464.5 | 514.5 | 564.5 | 614.5 | 664.5 | 714.5 | 764.5 | 814.5 | 864.5 | 914.5 | 964.5 | 1014.5 | 1064.5 | 1114.5 | 1164.5 | 1214.5 | 1264.5 | 1314.5 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 |
| 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 80S 軌道內嵌式對開滑台模組

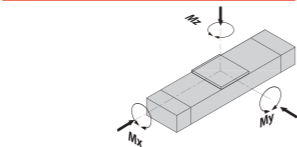
Built-in track slide module

訂購型號代碼 Code

| | | | | | | |
|---------------------------------|--|--|--|--|---|---|
| GSC 80S 本體型號 Item NO. | L05 螺桿導程 Ball Screw Lead 05 | 275 行程 Stroke 25-450, 間隔Gap25 | MS 馬達方向 Motor Mounting Position 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 | M10 馬達廠牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 20 200W 40 400W P 松下 Panasonic 20 200W 40 400W | P3 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 | A001 特注式樣 Special Order No. 未標記: 無 NoMark/NoSensor |
|---------------------------------|--|--|--|--|---|---|



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



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

除了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 80S | | |
|------------------------------|------------------------------------|-------------------------|
| 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) | 05 |
| | 最高速度 Maximum Speed (mm/s) | 250 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) |
| 垂直使用 Vertical (kg) | | 15 (雙滑塊 Dual Carriage) |
| 基本規格 Basic Specification | 定格推力 Rated Thrust (N) | 1388 |
| | 標準行程 Stroke (mm) | 25-450 mm / 25 間隔 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 × 14/11 |
| 原點感應器 Home Sensor | PM-Y45(NPN) | |

容許負載力矩表 Allowable Overhang

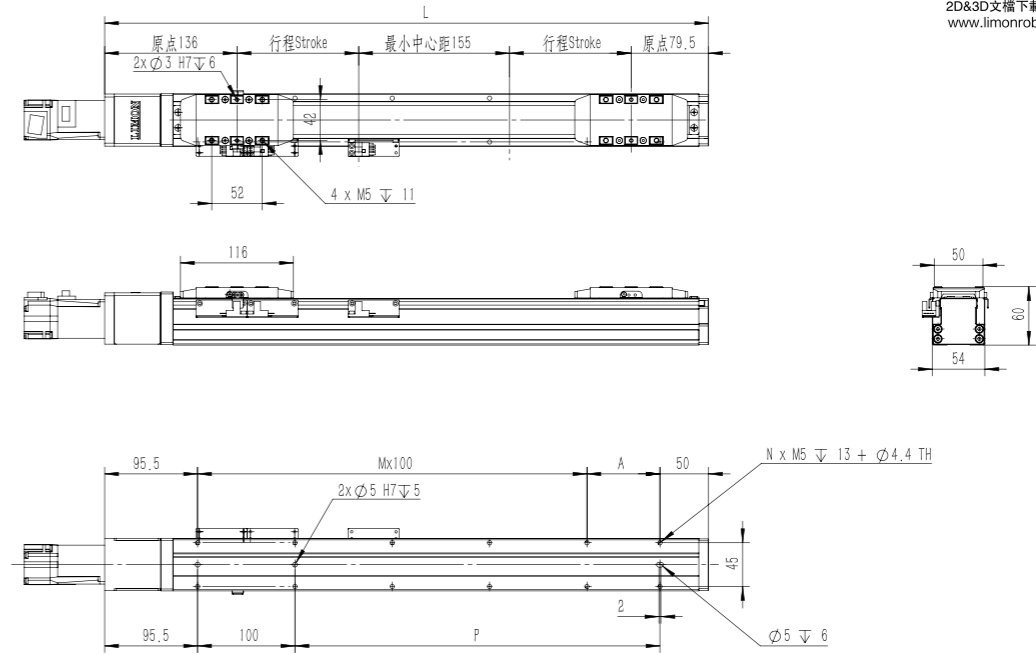
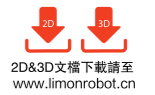
| 單位Unit: mm | | | | 單位Unit: mm | | | |
|---------------------------------|------|-----|-----|---------------------------|-----|-----|------|
| 水平安裝 Horizontal Installation | | | | 壁掛安裝 Wall Installation | | | |
| 導程 05 lead | A | B | C | 導程 05 lead | A | B | C |
| 25kg | 1560 | 153 | 237 | 20kg | 214 | 153 | 1435 |
| 35kg | 890 | 81 | 126 | 35kg | 113 | 81 | 845 |
| 50kg | 550 | 53 | 82 | 50kg | 74 | 53 | 506 |

| 單位Unit: mm | | |
|-------------------------------|-----|-----|
| 垂直安裝 Vertical Installation | | |
| 導程 05 lead | A | C |
| 10kg | 331 | 331 |
| 15kg | 220 | 220 |
| / | / | / |

軌道內嵌式對開滑台模組 GSC 80S

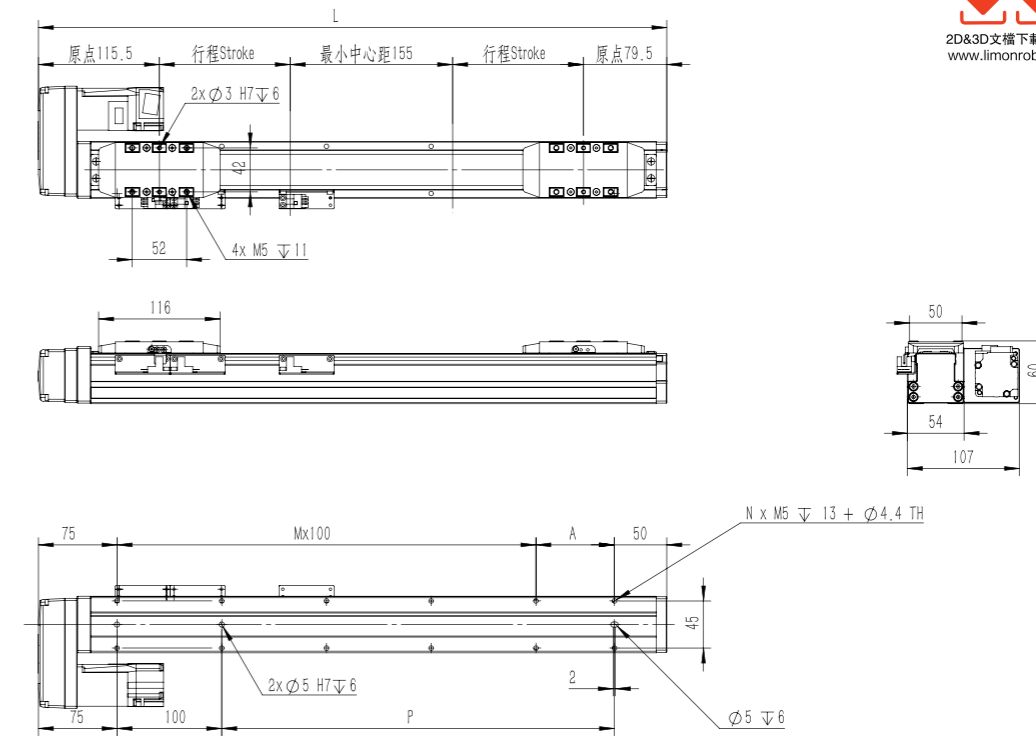
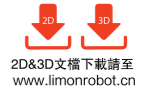
Built-in track slide module

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



| 行程 Stroke (mm) | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 |
|----------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 528 | 578 | 628 | 678 | 728 | 778 | 828 | 878 | 928 | 978 | 1028 | 1078 | 1128 | 1178 | 1228 | 1278 | 1328 | 1378 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 |
| N | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 |
| P | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 |
| 重量 Weight (kg) | 6.64 | 7.00 | 7.37 | 7.73 | 8.10 | 8.46 | 8.83 | 9.19 | 9.56 | 9.92 | 10.29 | 10.65 | 11.02 | 11.38 | 11.75 | 12.11 | 12.48 | 12.85 |

GSC 80S-ML 馬達左折安裝 Left Motor Mounting



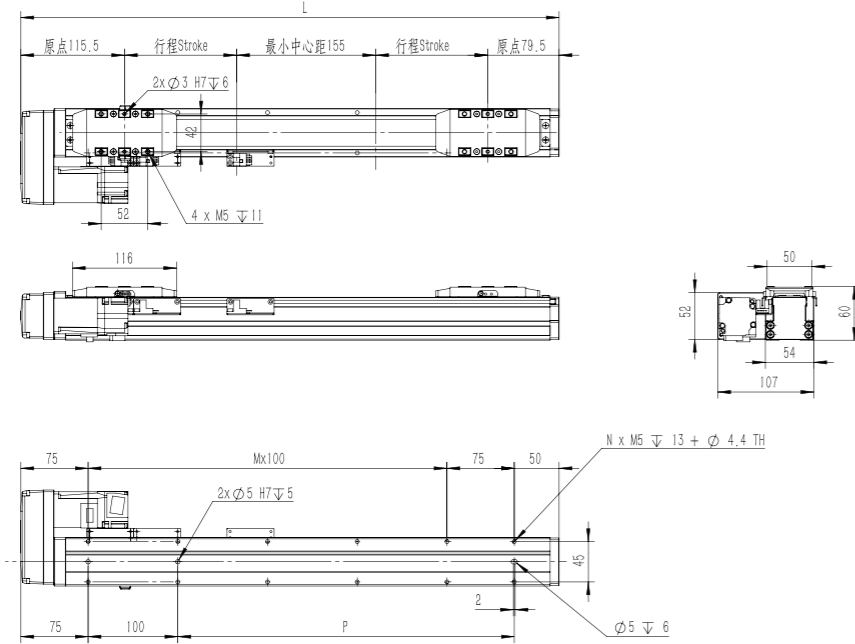
| 行程 Stroke (mm) | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| L | 514.5 | 564.5 | 614.5 | 664.5 | 714.5 | 764.5 | 814.5 | 864.5 | 914.5 | 964.5 | 1014.5 | 1064.5 | 1114.5 | 1164.5 | 1214.5 | 1264.5 | 1314.5 | 1364.5 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 |
| N | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 |
| P | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 |
| 重量 Weight (kg) | 7.16 | 7.68 | 8.2 | 8.72 | 9.24 | 9.76 | 10.28 | 10.8 | 11.32 | 11.84 | 12.36 | 12.88 | 13.4 | 13.92 | 14.44 | 14.96 | 15.49 | 12.85 |

GSC 80S 軌道內嵌式對開滑台模組

Built-in track slide module

GSC 80S-MR 馬達右折安裝 Right Motor Mounting

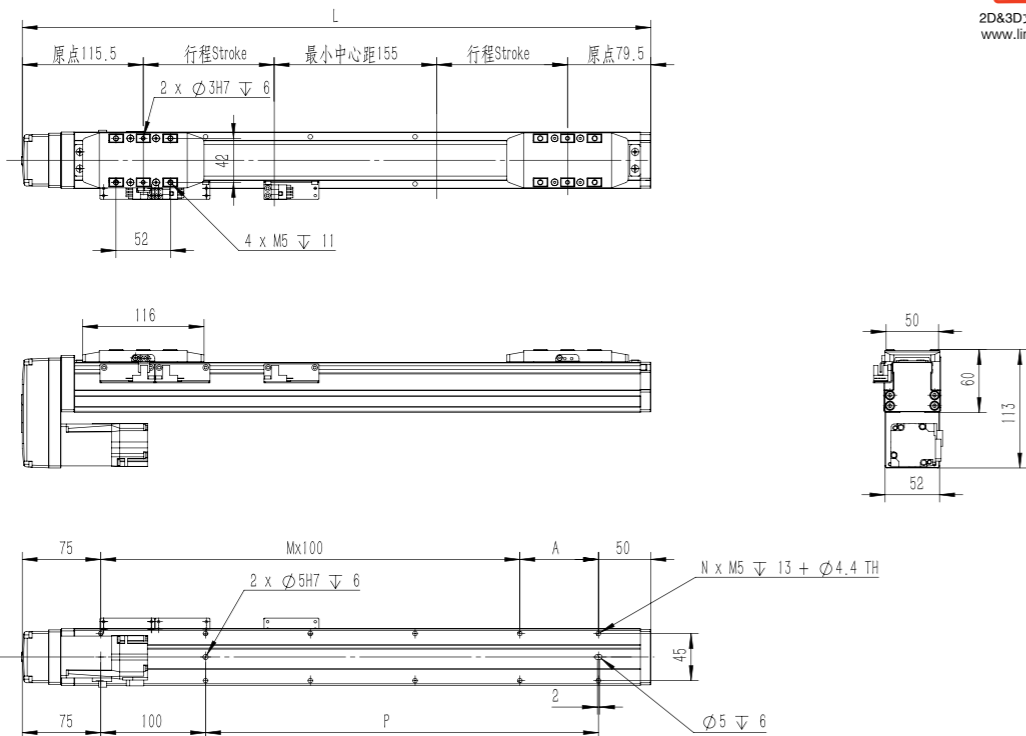
2D&3D文檔下載請至
www.limonrobot.cn



| 行程 Stroke (mm) | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| L | 514.5 | 564.5 | 614.5 | 664.5 | 714.5 | 764.5 | 814.5 | 864.5 | 914.5 | 964.5 | 1014.5 | 1064.5 | 1114.5 | 1164.5 | 1214.5 | 1264.5 | 1314.5 | 1364.5 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 |
| N | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 |
| P | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 |
| 重量 Weight (kg) | 7.16 | 7.68 | 8.2 | 8.72 | 9.24 | 9.76 | 10.28 | 10.8 | 11.32 | 11.84 | 12.36 | 12.88 | 13.4 | 13.92 | 14.44 | 14.96 | 15.49 | 12.85 |

GSC 80S-MD 馬達下折安裝 Down Motor Mounting

2D&3D文檔下載請至
www.limonrobot.cn



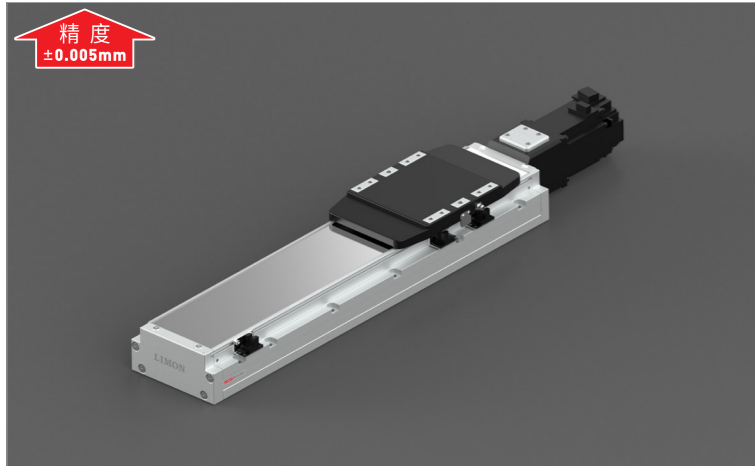
| 行程 Stroke (mm) | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| L | 514.5 | 564.5 | 614.5 | 664.5 | 714.5 | 764.5 | 814.5 | 864.5 | 914.5 | 964.5 | 1014.5 | 1064.5 | 1114.5 | 1164.5 | 1214.5 | 1264.5 | 1314.5 | 1364.5 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 |
| N | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 |
| P | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 |
| 重量 Weight (kg) | 7.16 | 7.68 | 8.2 | 8.72 | 9.24 | 9.76 | 10.28 | 10.8 | 11.32 | 11.84 | 12.36 | 12.88 | 13.4 | 13.92 | 14.44 | 14.96 | 15.49 | 12.85 |

GSC 120 導軌內嵌式滑台模組

Guide rail embedded slide module

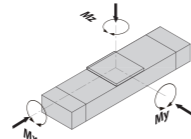
訂購型號代碼 Code

| | | | | | | |
|----------------|----------------------|------------------|---|---|---|------------------------|
| 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 | 特法式樣 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 個 1PC P2: 2 個 2PCS P3: 3 個 3PCS 未標記: 無 NoMark: NoSensor | |



精度 ±0.005mm

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

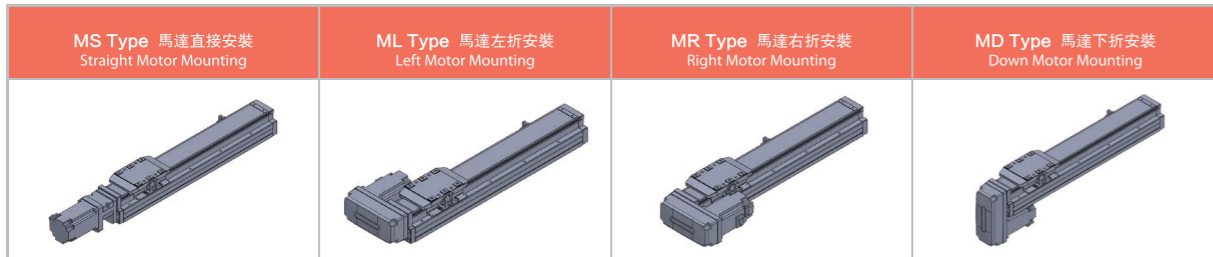


| Type | GSC 120 |
|--------------|---------|
| ■ M(x) (N·m) | 606 |
| ■ M(y) (N·m) | 606 |
| ■ M(z) (N·m) | 1168 |

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| GSC 120 | | | | | |
|------------------------------|------------------------------------|-----------------------|-----|------|------|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.005 | | | |
| | 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | 20 | 32 |
| | 最高速度 Maximum Speed (mm/s) | 250 | 500 | 1000 | 1600 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 110 | 88 | 40 |
| 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 × 14/11 | | | |
| | 原點感應器 Home Sensor | PM-Y45(NPN) | | | |

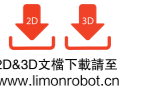
容許負載力矩表 Allowable Overhang

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

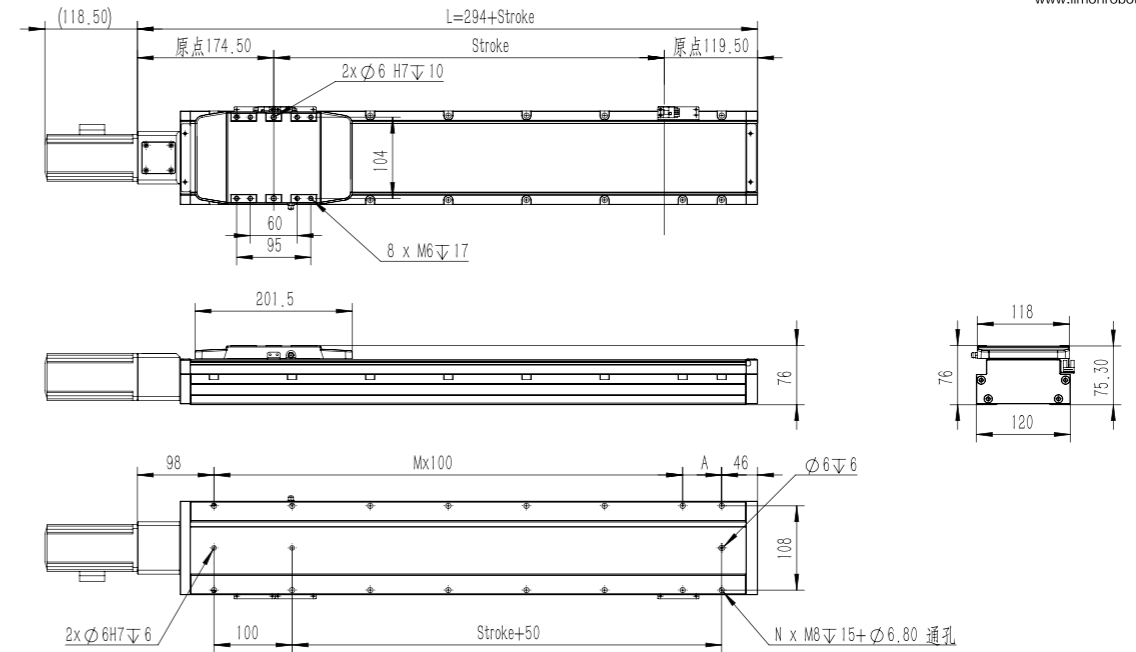
導軌內嵌式滑台模組 GSC 120

Guide rail embedded slide module

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

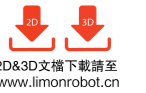


2D&3D文檔下載請至 www.limonrobot.cn

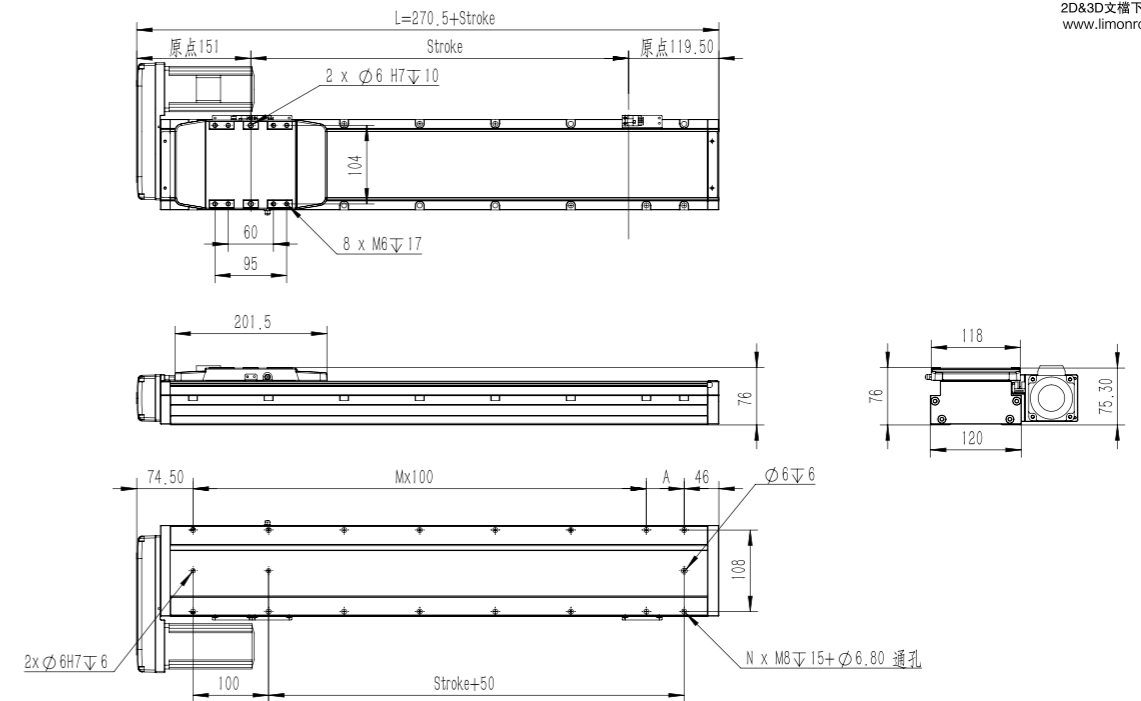


| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---------------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|------|-------|------|-------|------|-------|------|-------|------|-------|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

GSC 120-ML 馬達左折安裝 Left Motor Mounting



2D&3D文檔下載請至 www.limonrobot.cn

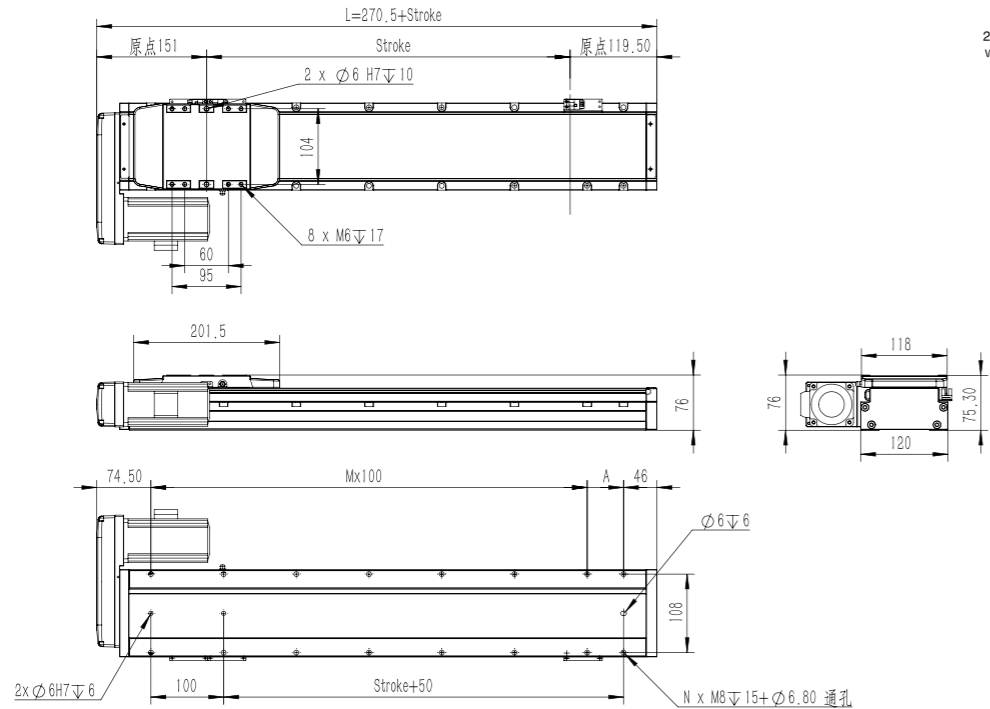


| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| L | 320.5 | 380.5 | 430.5 | 480.5 | 530.5 | 580.5 | 630.5 | 680.5 | 730.5 | 780.5 | 830.5 | 880.5 | 930.5 | 980.5 | 1030.5 | 1080.5 | 1130.5 | 1180.5 | 1230.5 | 1280.5 | 1330.5 | 1380.5 | 1430.5 | 1480.5 | 1530.5 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 |
| N | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 |
| 重量 Weight(kg) | 5.21 | 5.56 | 5.91 | 6.26 | 6.61 | 6.96 | 7.31 | 7.66 | 8.01 | 8.36 | 8.71 | 9.06 | 9.41 | 9.76 | 10.11 | 10.46 | 10.81 | 11.16 | 11.51 | 11.86 | 12.21 | 12.56 | 12.91 | 13.26 | 13.61 |

GSC 120 導軌內嵌式滑台模組

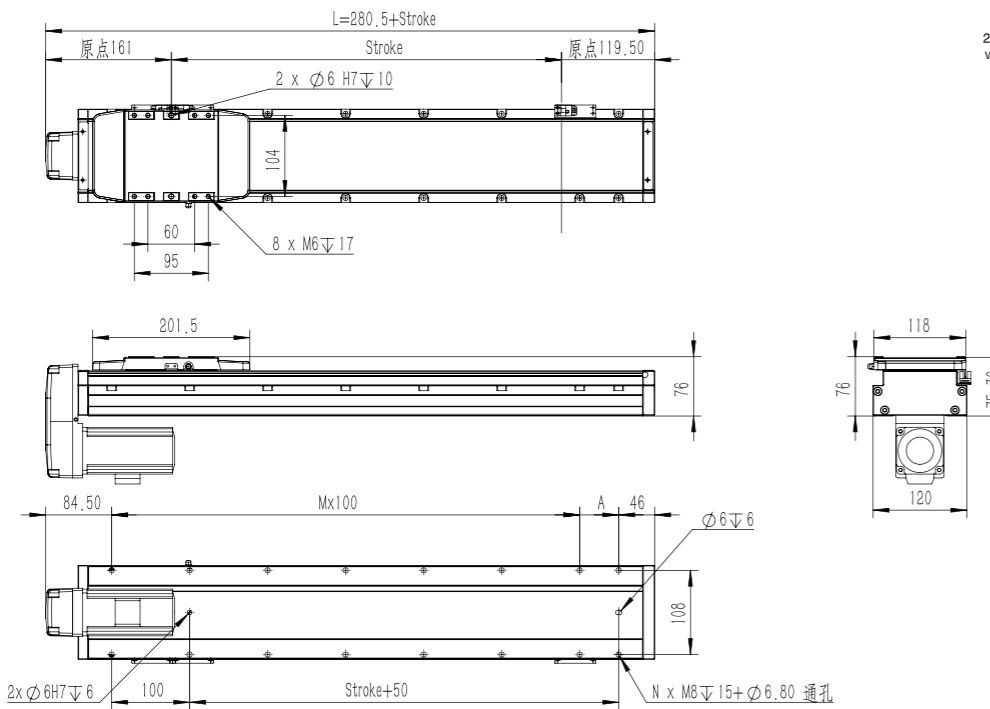
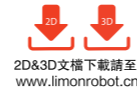
Guide rail embedded slide module

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 |
| 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 | 330.5 | 380.5 | 430.5 | 480.5 | 530.5 | 580.5 | 630.5 | 680.5 | 730.5 | 780.5 | 830.5 | 880.5 | 930.5 | 980.5 | 1030.5 | 1080.5 | 1130.5 | 1180.5 | 1230.5 | 1280.5 | 1330.5 | 1380.5 | 1430.5 | 1480.5 | 1530.5 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 |
| 重量 Weight(kg) | 5.25 | 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 |

滑臺模組規格索引 GSC Series

Embedded sliding table for dust-free workshop

GSC 軌道內嵌式螺桿滑台系列

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

| 使用環境 Environment | 傳動方式 Driven Mode | 仕様 Specification | 馬達容量 Motor Output (w) | 本體寬幅 Width(mm) | 位置重複精度 Repeatability(mm) | 螺桿規格 (C7 級) Ball Screw Spec | | 最大可搬重量 Maximum Payload(kg) | |
|------------------|------------------|------------------|-----------------------|----------------|--------------------------|-----------------------------|-------------|----------------------------|---------------|
| | | | | | | 外徑 Outer Diameter(mm) | 導程 Lead(mm) | 水平使用 Horizontal | 垂直使用 Vertical |
| 一般環境 Standard | 滾珠螺桿 Ball screw | GSC40 | 100W | 44 | ±0.005 | 10 | 06 | 20 | 5 |
| | | | | | | | 12 | 12 | 2 |
| | | GSC50 | 100W | 54 | ±0.005 | 12 | 5 | 30 | 10 |
| | | | | | | | 10 | 15 | 5 |
| | | | | | | | 20 | 10 | 2.5 |
| | | GSC80 | 200W 400W | 82 | ±0.005 | 16 | 5 | 50 | 15 |
| | | | | | | | 10 | 30 | 8 |
| | | | | | | | 20 | 18 | 3 |
| | | GSC120 | 200W 400W | 120 | ±0.005 | 16 | 5 | 110 | 33 |
| | | | | | | | 10 | 88 | 22 |
| | | | | | | | 20 | 40 | 10 |
| | | | | | | | | 32 | 30 |

| 使用環境 Environment | 傳動方式 Driven Mode | 仕様 Specification | 導程 lead (mm) | 最高速度 Maximum Speed (mm/s) | 標準行程及最高使用速度 ² Stroke(mm) & Maximum Speed (mm/s) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------------------|------------------|--------------|---------------------------|--|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|--|--|
| | | | | | 行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | | |
| 一般環境 Standard | 滾珠螺桿 Ball screw | GSC40 | 06 | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 12 | 600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | GSC50 | 5 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 10 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 20 | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | GSC80 | 5 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 10 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 20 | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | GSC120 | 5 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 10 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 20 | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 32 | 1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

*1:最高速度(mm/s)是以伺服馬達最高轉速3000RPM為基準。
The highest speed is based on the maximum servo motor's rpm [3000].
*2:標準行程內的黑色數字, 代表該行程內可使用的最高安全速度。若超過此速度, 滑台可能有嚴重共振產生。
Written here is the standard stroke's maximum safe speed. If over this speed, it may casue serious vibration.

導軌內嵌式皮帶模組

Rail embedded conveyor belt slide table



GTC 50



GTC 80

GTC 50 導軌內嵌式皮帶模組

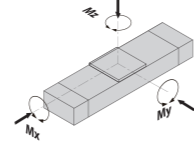
Rail embedded conveyor belt slide table

訂購型號代碼 Code

| | | | | | | |
|--------------------------------|---------------------------------|---|---|--|---|---|
| GTC 50 本體型號 Item NO. | L40 皮帶輪導程 Pulley Lead | 500 行程 Stroke 50-1500, 間隔Gap50 | D01 馬達方向 Motor Mounting Position D01: 馬達左折安裝 Left Motor Mounting D02: 馬達右折安裝 Right Motor Mounting D03: 馬達上折安裝 UP Motor Mounting D04: 馬達下折安裝 Down Motor Mounting | M10 馬達廠牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 10 100W P 松下 Panasonic 10 100W | P3 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 | A001 特注式樣 Special Order No. 未標記: 無 NoMark/NoSensor |
|--------------------------------|---------------------------------|---|---|--|---|---|



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

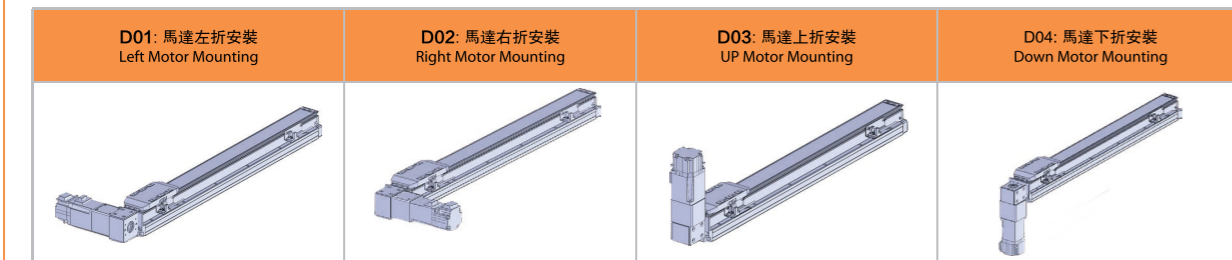


| Type | GTC 50 |
|------------|--------|
| M(x) (N·m) | 103 |
| M(y) (N·m) | 103 |
| M(z) (N·m) | 144 |

除了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

| GTC 50 | | |
|------------------------------|------------------------------------|----------------------|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.04 |
| | 皮帶輪導程 Pulley Lead (mm) | 40 |
| | 最高速度 Maximum Speed (mm/s) | 2000 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) |
| 垂直使用 Vertical (kg) | | / |
| 基本規格 Basic Specification | 定格推力 Rated Thrust (N) | 48 |
| | 標準行程 Stroke (mm) | 50-1500 mm /50 Pitch |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 100 |
| | 皮帶寬度 Belt Width (mm) | 9 |
| | 聯軸器 Coupling (mm) | 8×8 |
| 原點感應器 Home Sensor | PM-Y45(NPN) | |

容許負載力矩表 Allowable Overhang

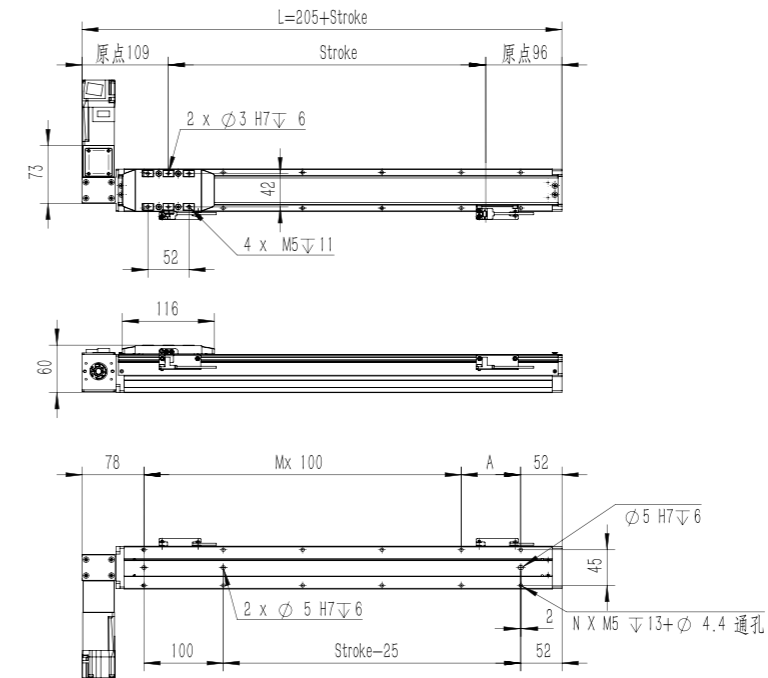
| 單位Unit: mm | | | |
|---------------------------------|-----|-----|-----|
| 水平安裝 Horizontal Installation | A | B | C |
| 2kg | 320 | 120 | 130 |
| 3.5kg | 220 | 70 | 80 |
| 5kg | 175 | 55 | 60 |

| 單位Unit: mm | | | |
|---------------------------|-----|-----|-----|
| 壁掛安裝 Wall Installation | A | B | C |
| 2kg | 130 | 120 | 320 |
| 3.5kg | 75 | 70 | 320 |
| 5kg | 65 | 55 | 170 |

導軌內嵌式皮帶模組 GTC 50

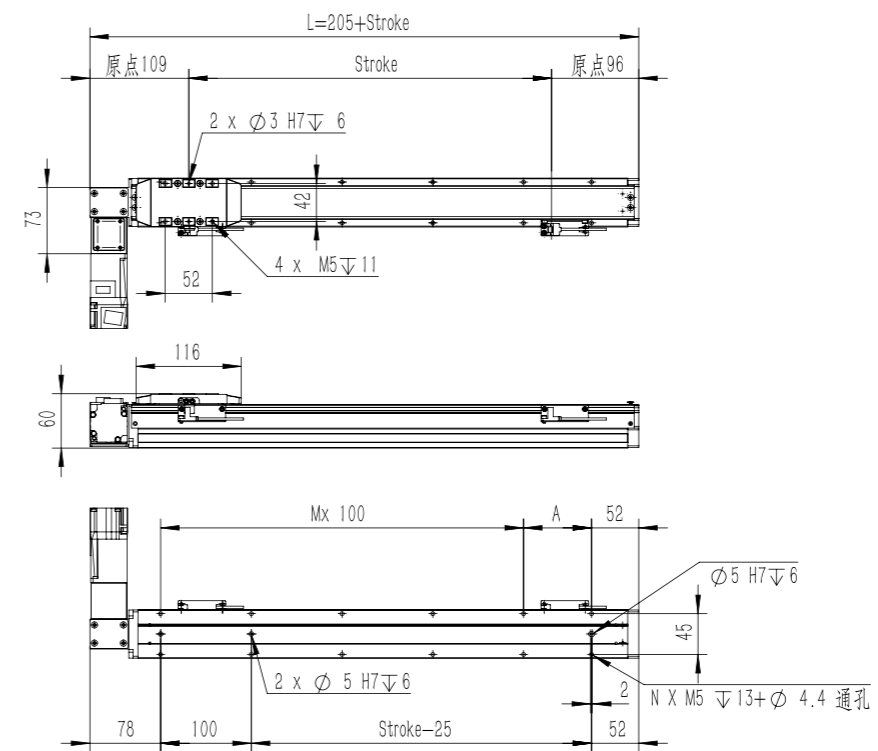
Rail embedded conveyor belt slide table

GTC 50-D01 馬達左折安裝 Left Motor Mounting

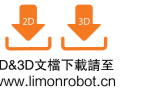


| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------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

GTC 50-D02 馬達右折安裝 Right Motor Mounting



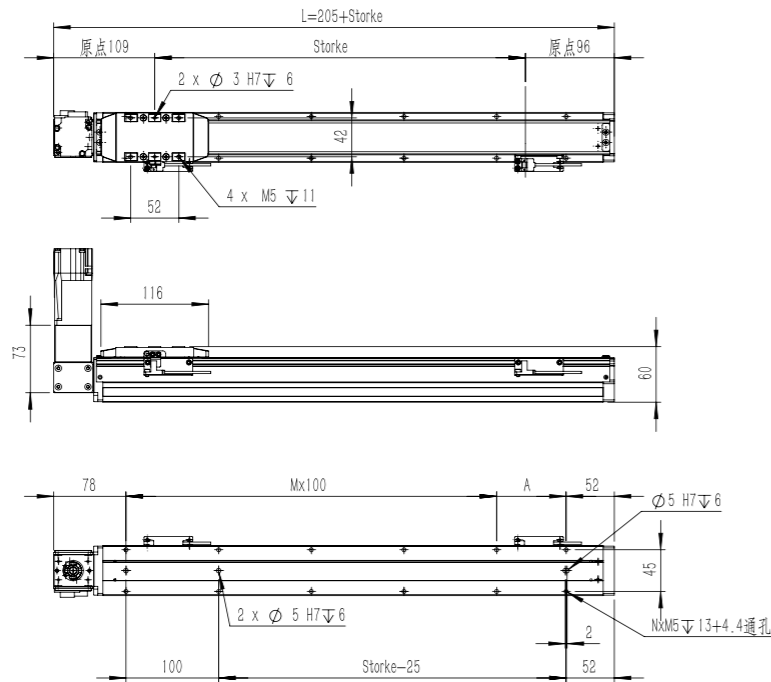
| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------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



GTC 50 導軌內嵌式皮帶模組

Rail embedded conveyor belt slide table

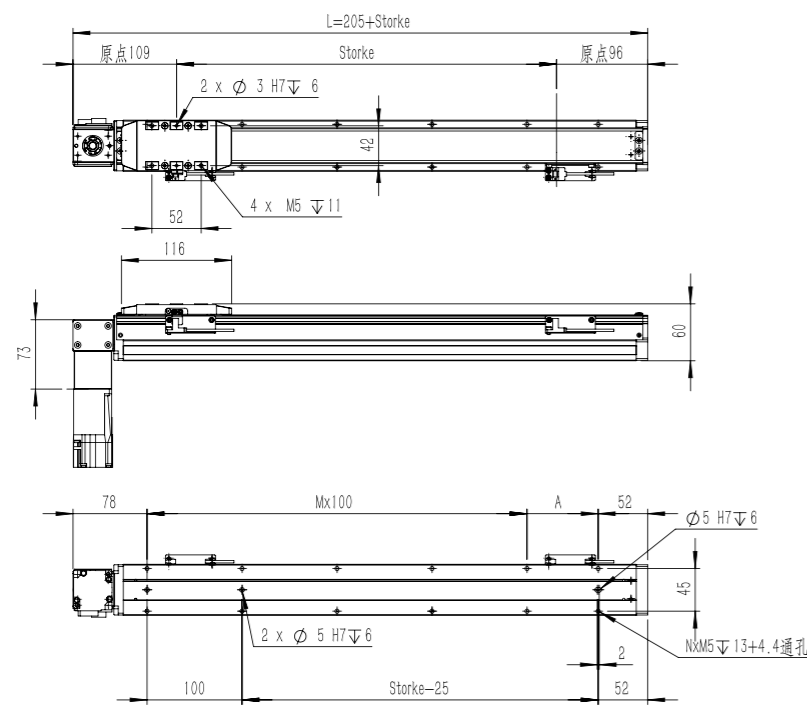
GTC 50-D03 馬達上折安裝 Up Motor Mounting



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 | 255 | 305 | 355 | 405 | 455 | 505 | 555 | 605 | 655 | 705 | 755 | 805 | 855 | 905 | 955 | 1005 | 1055 | 1105 | 1155 | 1205 | 1255 | 1305 | 1355 | 1405 | 1455 | 1505 | 1555 | 1605 | 1655 | 1705 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 15 | 15 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 | 32 | 32 | 34 | 34 |
| 重量 Weight (kg) | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | 2 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 | 3.7 | 3.8 | 3.9 | 4.0 |

GTC 50-D04 馬達下折安裝 Down Motor Mounting

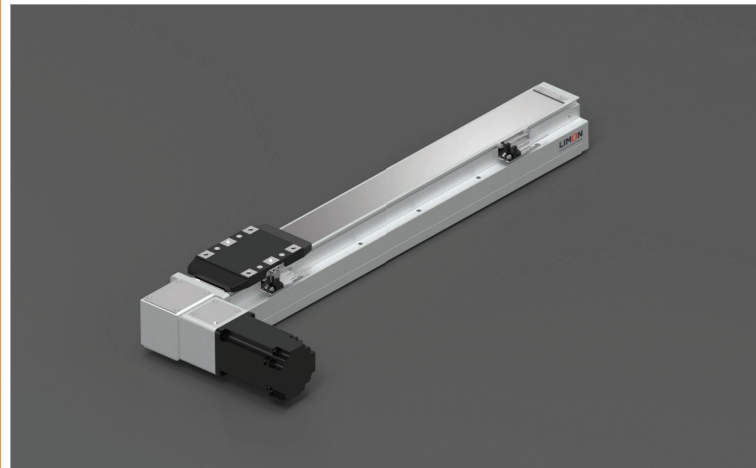


2D&3D文檔下載請至
www.limonrobot.cn

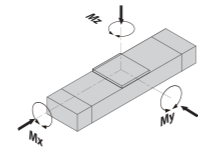
| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------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

訂購型號代碼 Code

| | | | | | | |
|---------------|-------------------|-------------------------------|---|--|--|--|
| GTC 80 | L48 | 500 | D01 | M40 | P3 | A001 |
| 本體型號 Item NO. | 皮帶輪導程 Pulley Lead | 行程 Stroke 50-1500, 間隔Gap50 | 馬達方向 Motor Mounting Position D01: 馬達左折安裝 Left Motor Mounting D02: 馬達右折安裝 Right Motor Mounting D03: 馬達上折安裝 UP Motor Mounting D04: 馬達下折安裝 Down Motor Mounting | 馬達廠牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 40 400W P 松下 Panasonic 40 400W | 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. 未標記: 無 NoMark/NoSensor |



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

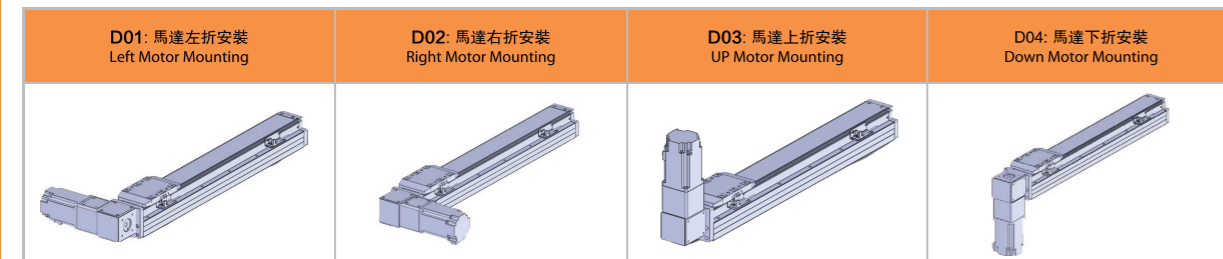


| Type | GTC 80 |
|------------|--------|
| M(x) (N·m) | 318 |
| M(y) (N·m) | 318 |
| M(z) (N·m) | 626 |

除了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

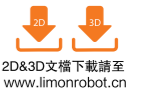


基本規格 Basic Specification

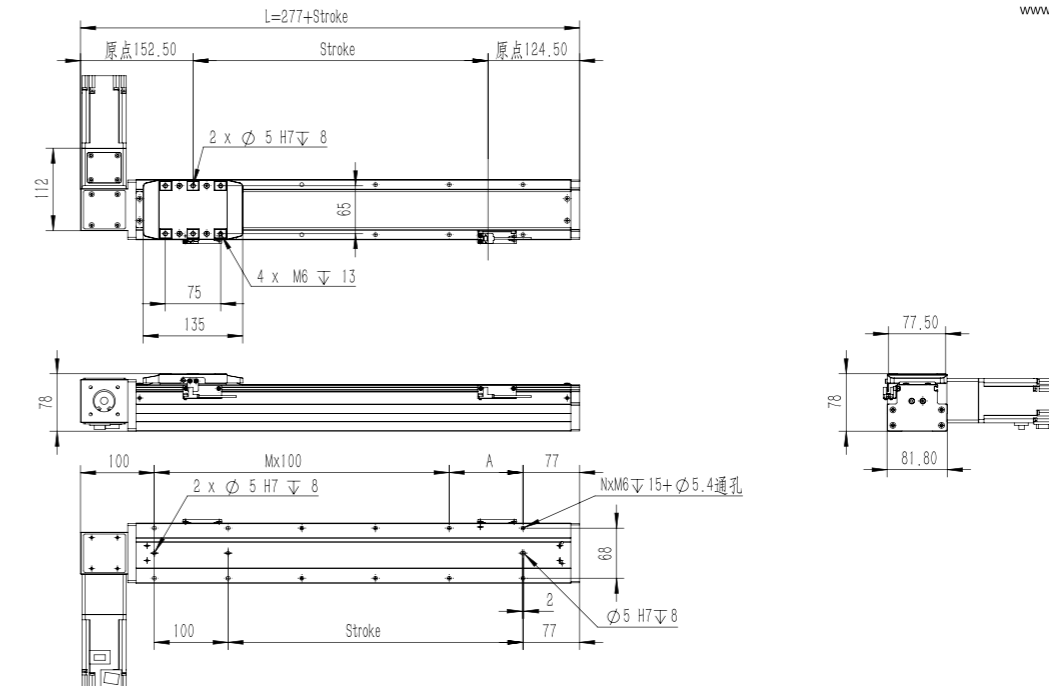
| GTC 80 | | |
|------------------------------|------------------------------------|---|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.04 |
| | 皮帶輪導程 Pulley Lead (mm) | 48 |
| | 最高速度 Maximum Speed (mm/s) | 2400 |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) 15 垂直使用Vertical (kg) / |
| 基本規格 Basic Specification | 定格推力 Rated Thrust (N) | 80 |
| | 標準行程 Stroke (mm) | 50-1500 mm /50 Pitch |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 400 |
| | 皮帶寬度 Belt Width (mm) | 15 |
| | 聯軸器 Coupling (mm) | 10 × 14 |
| 原點感應器 Home Sensor | PM-Y45(NPN) | |

容許負載力矩表 Allowable Overhang

| | 單位Unit: mm | | | 單位Unit: mm | | | |
|------|---------------------------------|-----|-----|------------|---------------------------|-----|-----|
| | 水平安裝 Horizontal Installation | A | B | C | 壁掛安裝 Wall Installation | A | B |
| 5kg | 850 | 322 | 395 | 5kg | 355 | 310 | 532 |
| 10kg | 560 | 185 | 226 | 10kg | 210 | 196 | 455 |
| 15kg | 473 | 135 | 156 | 15kg | 171 | 155 | 435 |

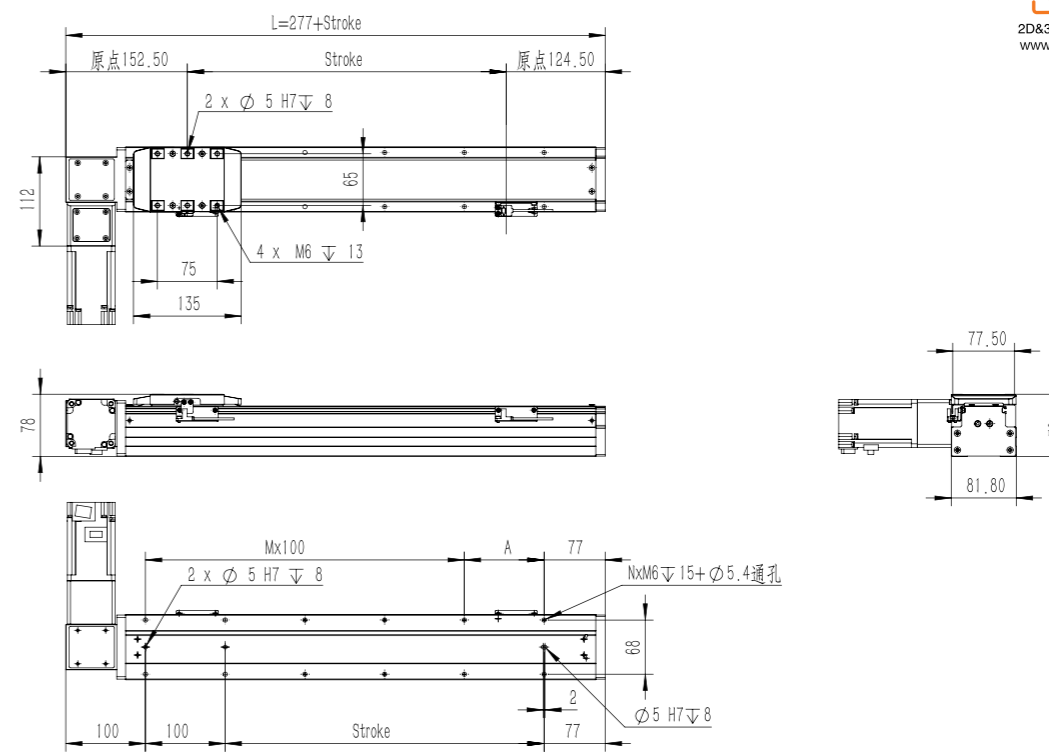


GTC 80-D1 馬達左折安裝 Left Motor Mounting



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

GTC 80-D2 馬達右折安裝 Right Motor Mounting



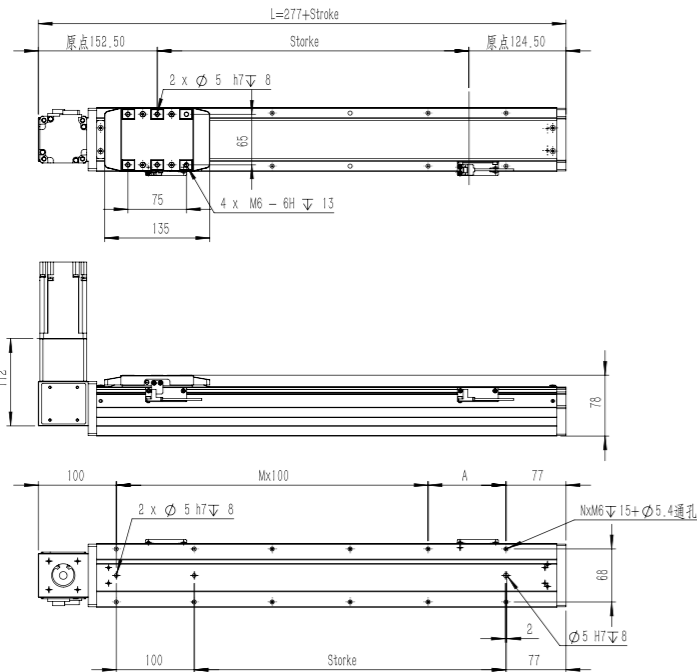
| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
|----------------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------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



GTC 80 導軌內嵌式滑台模組

Rail embedded conveyor belt slide table

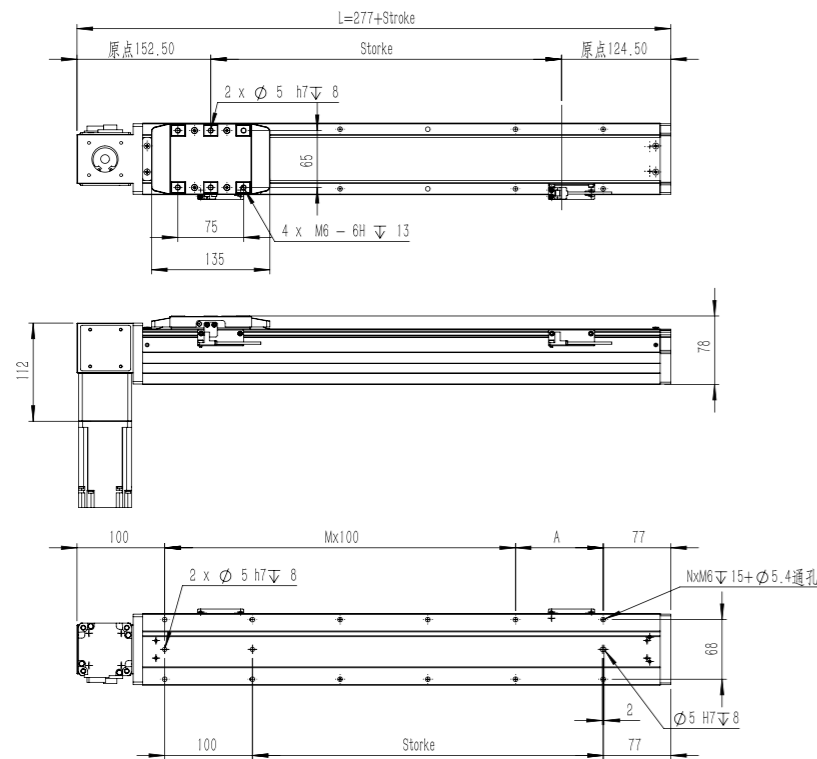
GTC 80-D03 馬達上折安裝 Up Motor Mounting



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 | 327 | 377 | 427 | 477 | 527 | 577 | 627 | 677 | 727 | 777 | 827 | 877 | 927 | 977 | 1027 | 1077 | 1127 | 1177 | 1227 | 1277 | 1327 | 1377 | 1427 | 1477 | 1527 | 1577 | 1627 | 1677 | 1727 | 1777 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 15 | 15 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 | 32 | 32 | 34 | 34 |
| 重量 Weight (kg) | 3.15 | 3.42 | 3.69 | 3.96 | 4.23 | 4.5 | 4.77 | 5.04 | 5.31 | 5.58 | 5.85 | 6.12 | 6.39 | 6.66 | 6.93 | 7.2 | 7.47 | 7.74 | 8.01 | 8.28 | 8.55 | 8.82 | 9.09 | 9.36 | 9.63 | 9.9 | 10.17 | 10.44 | 10.71 | 10.98 |

GTC 80-D04 馬達下折安裝 Down Motor Mounting



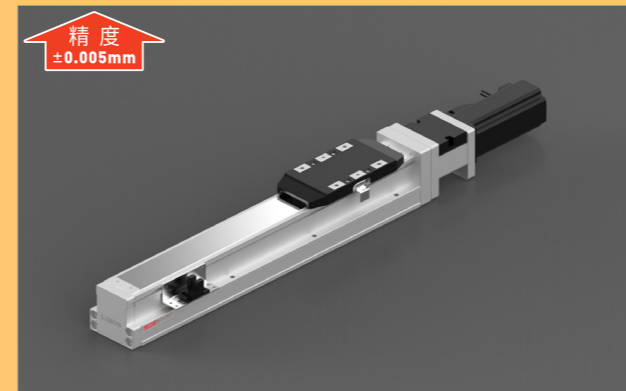
2D&3D文檔下載請至
www.limonrobot.cn

| 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 | 327 | 377 | 427 | 477 | 527 | 577 | 627 | 677 | 727 | 777 | 827 | 877 | 927 | 977 | 1027 | 1077 | 1127 | 1177 | 1227 | 1277 | 1327 | 1377 | 1427 | 1477 | 1527 | 1577 | 1627 | 1677 | 1727 | 1777 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 15 | 15 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 | 32 | 32 | 34 | 34 |
| 重量 Weight (kg) | 3.15 | 3.42 | 3.69 | 3.96 | 4.23 | 4.5 | 4.77 | 5.04 | 5.31 | 5.58 | 5.85 | 6.12 | 6.39 | 6.66 | 6.93 | 7.2 | 7.47 | 7.74 | 8.01 | 8.28 | 8.55 | 8.82 | 9.09 | 9.36 | 9.63 | 9.9 | 10.17 | 10.44 | 10.71 | 10.98 |

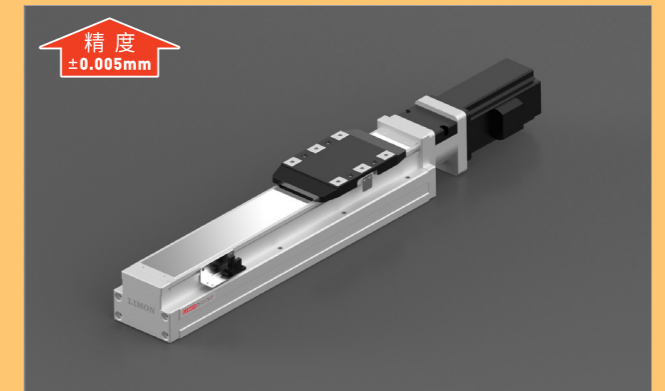


導軌內嵌潔淨式滑台模組

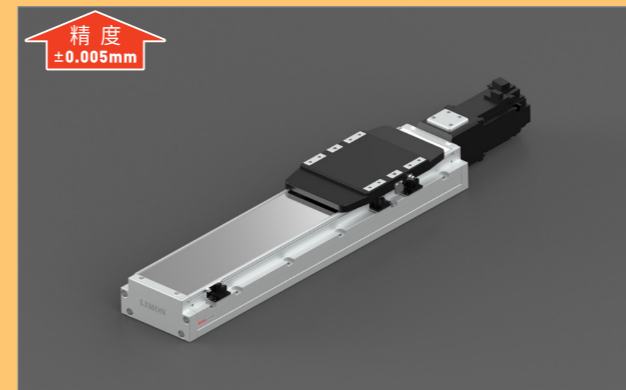
Embedded sliding table for dust-free workshop



GCC 50



GCC 80



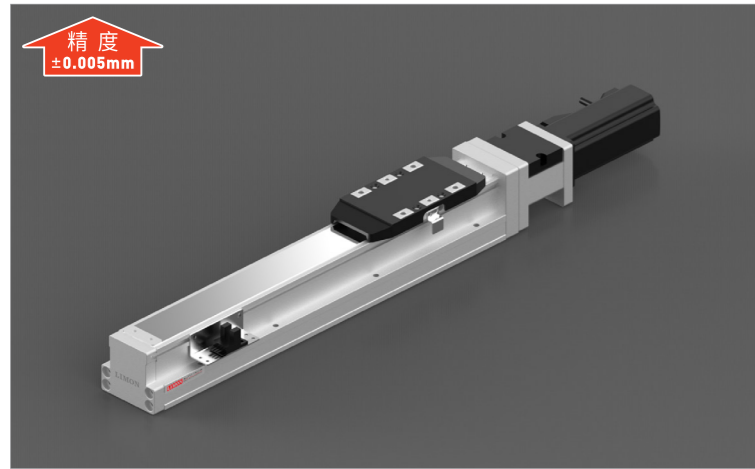
GCC 120

GCC 50 導軌內嵌潔淨式滑台模組

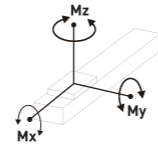
Embedded sliding table for dust-free workshop

訂購型號代碼 Code

| | | | | | | |
|---------------|----------------------|-----------------|---|---|---|---------------------------|
| GCC 50 | 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 | 50-800, 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 | 未標記: 無 NoMark:NoSensor |



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

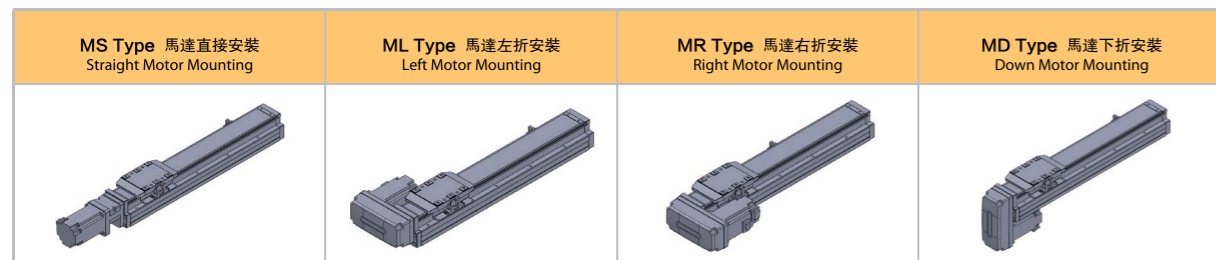


| Type | GCC 50 |
|------------|--------|
| ■ Mx (N·m) | 103 |
| ■ My (N·m) | 103 |
| ■ Mz (N·m) | 144 |

除了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

| GCC 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) |
| 垂直使用 Vertical (kg) | | 10 5 2.5 |
| 定額推力 Rated Thrust (N) | 341 170 85 | |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 50-800 mm/ 50 Pitch |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 100 |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | C7 Ø12 |
| | 聯軸器 Coupling (mm) | 7×8 |
| 原點感應器 Home Sensor | PM-Y45 (NPN) | |

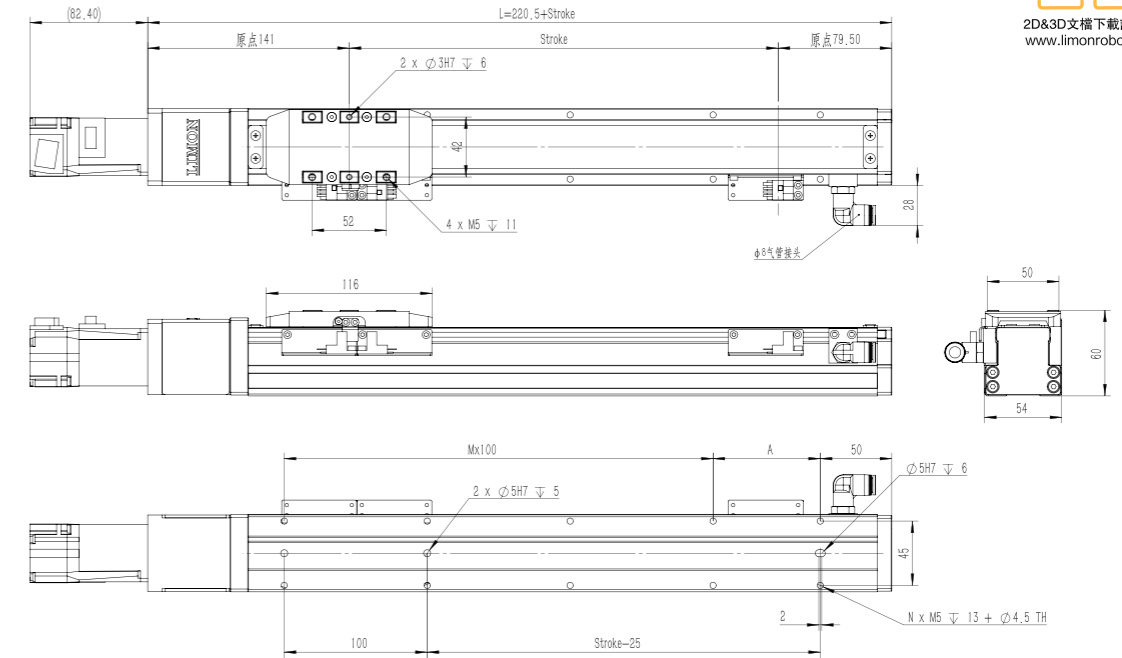
容許負載力矩表 Allowable Overhang

| 單位 Unit: mm | 水平安裝 Horizontal Installation | | | 壁掛安裝 Wall Installation | | | 垂直安裝 Vertical Installation | | | | |
|-------------|---------------------------------|-----|-----|---------------------------|------|-----|-------------------------------|-----|-------|-----|-----|
| | A | B | C | A | B | C | A | B | C | | |
| 導程 5 lead | 10kg | 650 | 75 | 100 | 10kg | 100 | 75 | 650 | 6kg | 145 | 145 |
| | 20kg | 440 | 32 | 45 | 20kg | 45 | 32 | 420 | 8kg | 110 | 110 |
| | 30kg | 270 | 19 | 25 | 30kg | 25 | 19 | 260 | 10kg | 90 | 90 |
| 導程 10 lead | 5kg | 600 | 145 | 185 | 5kg | 180 | 145 | 600 | 1kg | 800 | 800 |
| | 10kg | 370 | 70 | 85 | 10kg | 85 | 68 | 370 | 3kg | 260 | 260 |
| | 15kg | 250 | 42 | 52 | 15kg | 52 | 42 | 250 | 5kg | 155 | 155 |
| 導程 20 lead | 5kg | 320 | 120 | 130 | 5kg | 130 | 120 | 320 | 1kg | 600 | 600 |
| | 8kg | 220 | 70 | 80 | 8kg | 75 | 70 | 220 | 2kg | 300 | 300 |
| | 10kg | 175 | 55 | 60 | 10kg | 60 | 55 | 170 | 2.5kg | 250 | 250 |

導軌內嵌潔淨式滑台模組 GCC 50

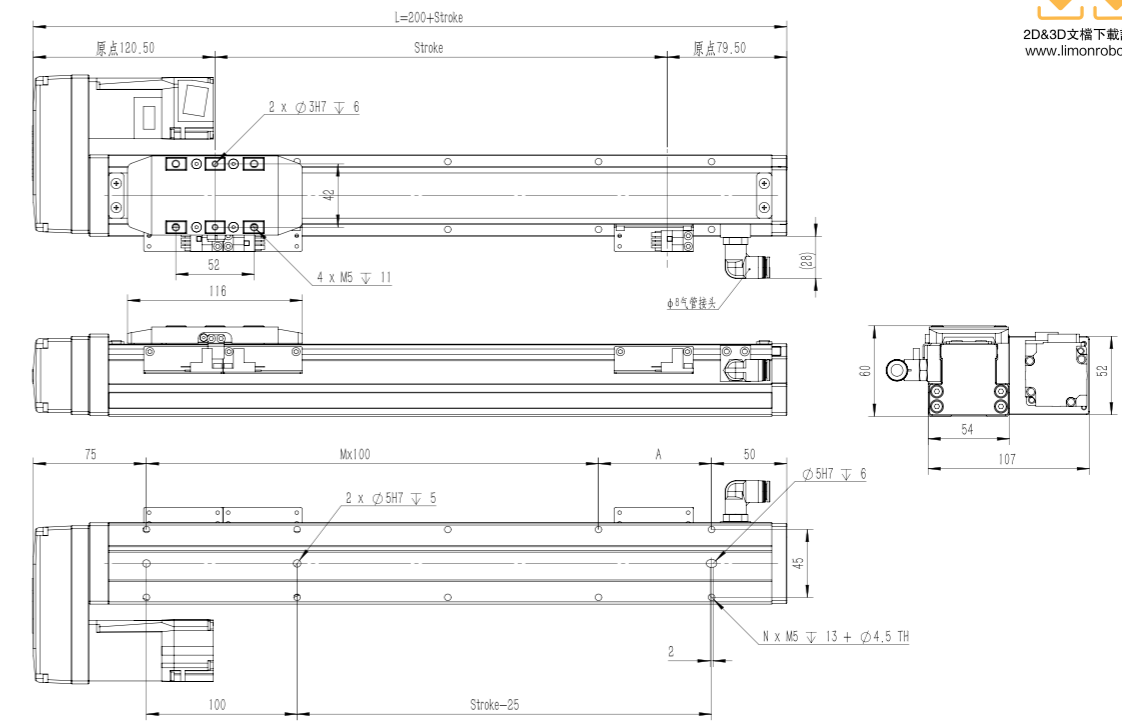
Embedded sliding table for dust-free workshop

GCC 50-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 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| L | 270.5 | 320.5 | 370.5 | 420.5 | 470.5 | 520.5 | 570.5 | 620.5 | 670.5 | 720.5 | 770.5 | 820.5 | 870.5 | 920.5 | 970.5 | 1020.5 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| 重量 Weight(kg) | 0.97 | 1.16 | 1.36 | 1.56 | 1.75 | 1.95 | 2.15 | 2.34 | 2.54 | 2.74 | 2.93 | 3.13 | 3.33 | 3.52 | 3.72 | 3.92 |

GCC 50-ML 馬達左折安裝 Left Motor Mounting

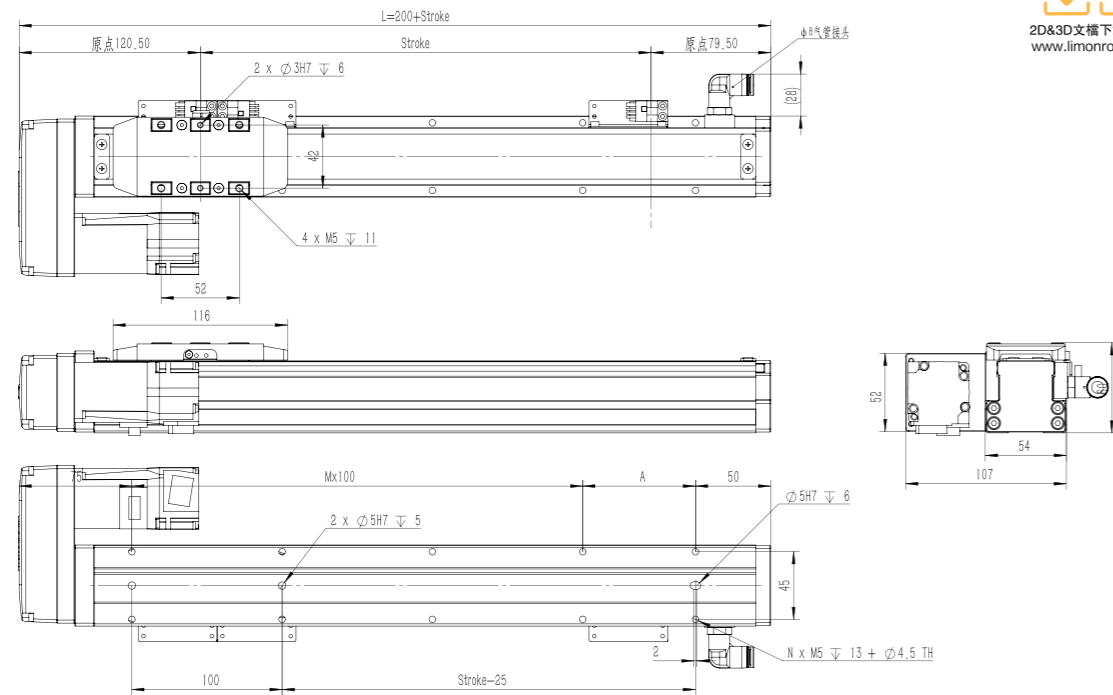


| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---------------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| L | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700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

GCC 50 導軌內嵌潔淨式滑台模組

Embedded sliding table for dust-free workshop

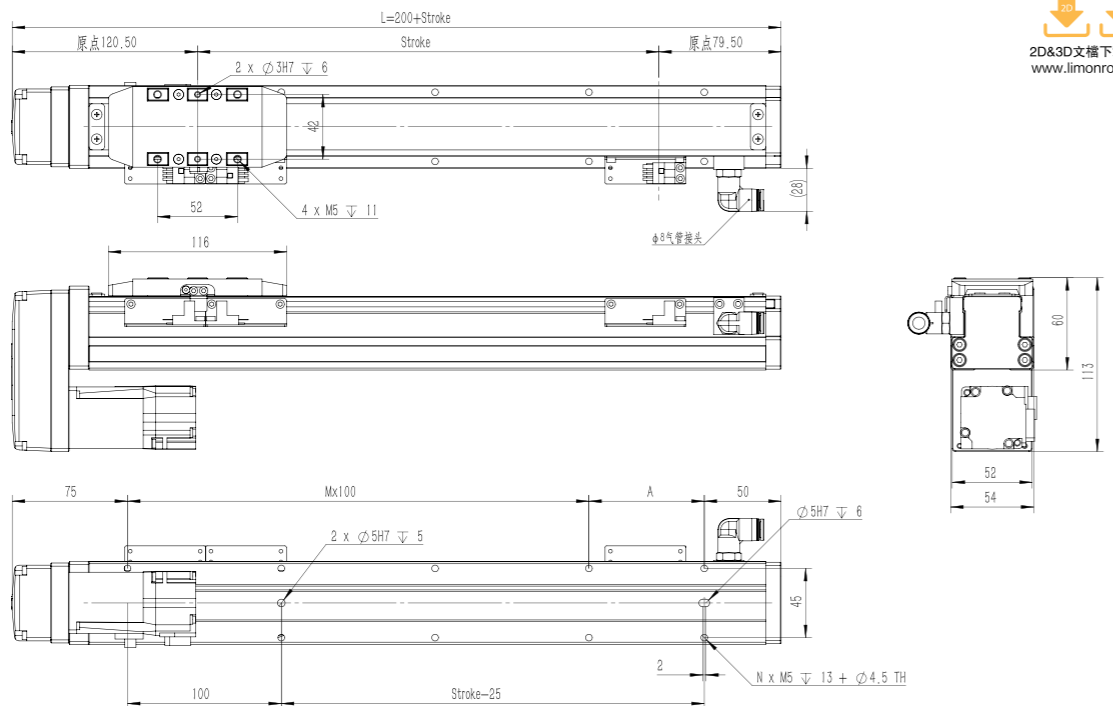
GCC 50-MR 馬達右折安裝 Right Motor Mounting



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

GCC 50-MD 馬達下折安裝 Down Motor Mounting



2D&3D文檔下載請至
www.limonrobot.cn

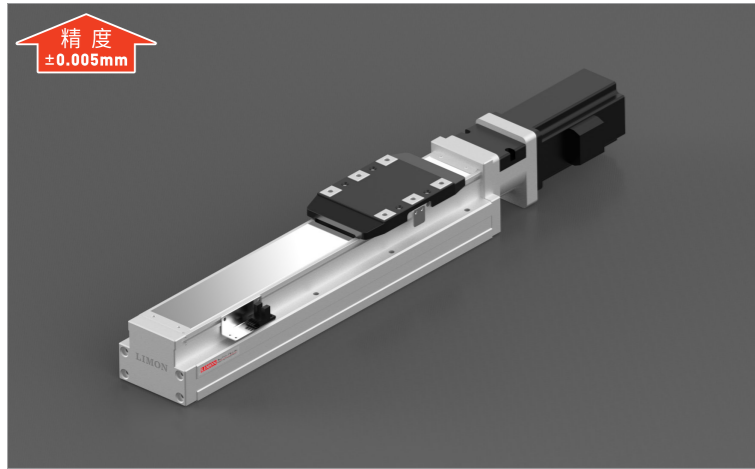
| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---------------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| L | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700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

GCC 80 導軌內嵌潔淨式滑台模組

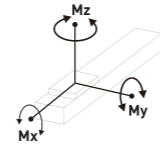
Embedded sliding table for dust-free workshop

訂購型號代碼 Code

| | | | | | | |
|---------------|----------------------|------------------|---|---|---|---------------------------|
| GCC 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 32 | 50-1100, 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 | 未標記, 無 NoMark:NoSensor |



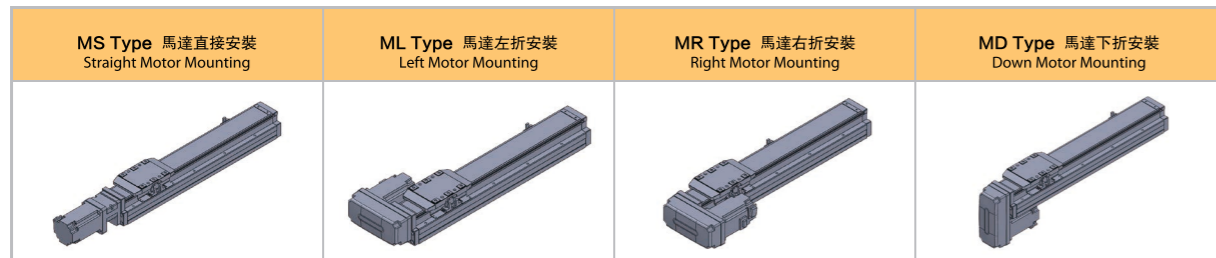
最大靜態力和力矩 Max Static Forces And Torques



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

除了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

| GCC 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 32 |
| | 最高速度 Maximum Speed (mm/s) | 250 500 1000 1600 |
| | | 最大可搬重量 Maximum Payload |
| | 定格推力 Rated Thrust (N) | 1388 694 347 217 |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 50-1100 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) |

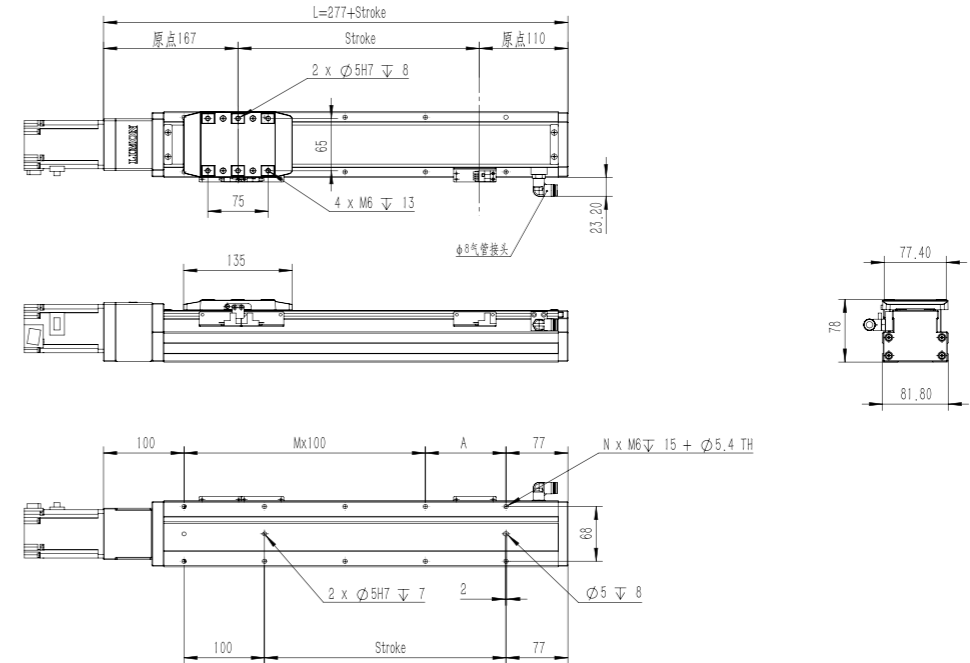
容許負載力矩表 Allowable Overhang

| 單位Unit: mm | 水平安裝 Horizontal Installation | | | 壁掛安裝 Wall Installation | | | 垂直安裝 Vertical Installation | | | | |
|------------|---------------------------------|------|-----|---------------------------|------|-----|-------------------------------|------|------|-----|-----|
| | A | B | C | A | B | C | A | C | | | |
| 導程 5 lead | 20kg | 1560 | 153 | 237 | 20kg | 214 | 153 | 1435 | 10kg | 331 | 331 |
| | 35kg | 890 | 81 | 126 | 35kg | 113 | 81 | 845 | 15kg | 220 | 220 |
| | 50kg | 550 | 53 | 82 | 50kg | 74 | 83 | 506 | - | - | - |
| 導程 10 lead | 10kg | 1730 | 286 | 416 | 10kg | 370 | 286 | 1400 | 5kg | 589 | 589 |
| | 20kg | 839 | 136 | 196 | 20kg | 176 | 136 | 800 | 8kg | 368 | 368 |
| | 30kg | 541 | 85 | 124 | 30kg | 12 | 86 | 495 | - | - | - |
| 導程 20 lead | 6kg | 1213 | 403 | 493 | 6kg | 444 | 403 | 760 | 3kg | 935 | 935 |
| | 9kg | 800 | 264 | 323 | 9kg | 292 | 264 | 277 | - | - | - |
| | 18kg | 592 | 194 | 238 | 18kg | 214 | 194 | 544 | - | - | - |

導軌內嵌潔淨式滑台模組 GCC 80

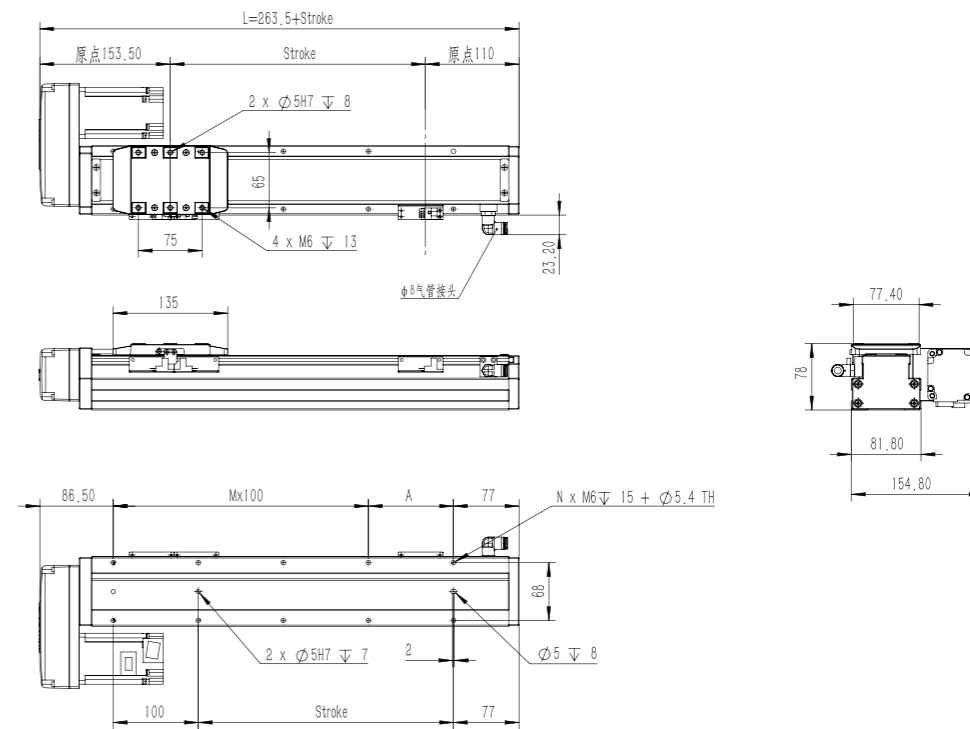
Inserted sliding platform of guide rail

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



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

GCC 80-ML 馬達左折安裝 Left Motor Mounting

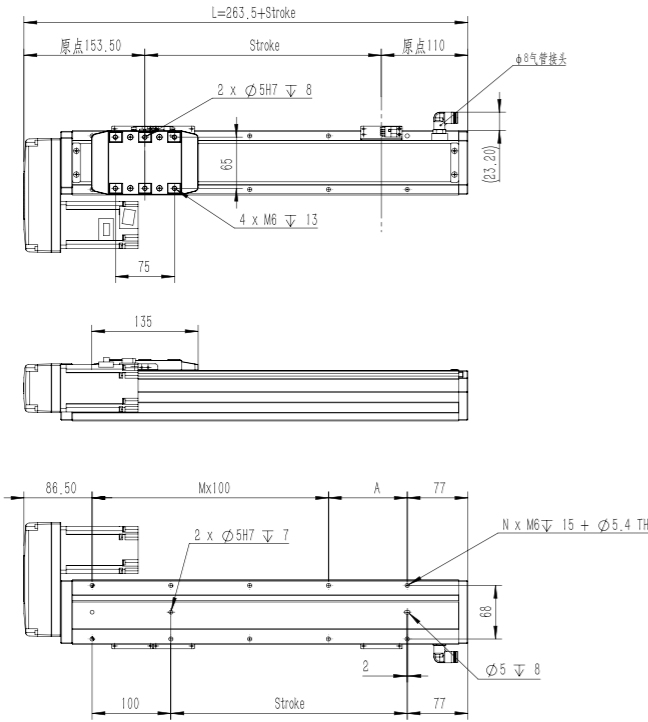


| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|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

GCC 80 導軌內嵌潔淨式滑台模組

Inserted sliding platform of guide rail

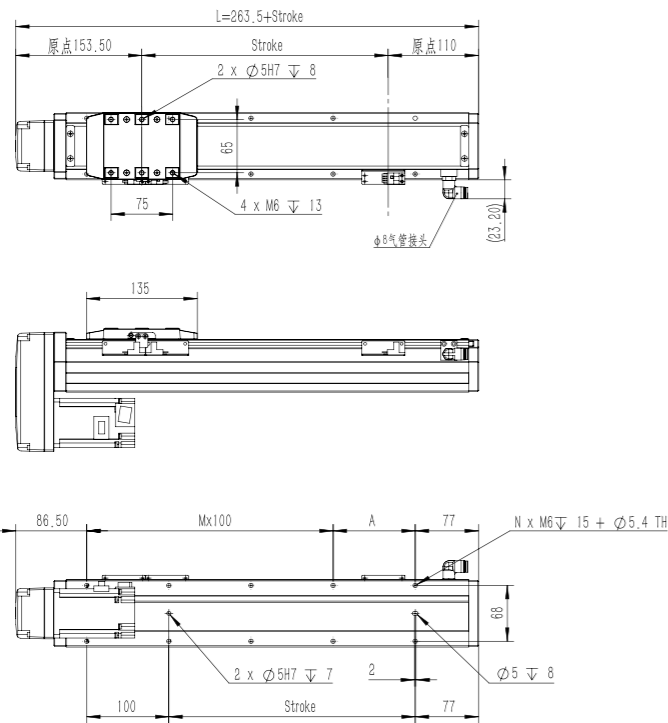
GCC 80-MR 馬達右折安裝 Right Motor Mounting



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 | 1100 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| L | 313.5 | 363.5 | 413.5 | 463.5 | 513.5 | 563.5 | 613.5 | 663.5 | 713.5 | 763.5 | 813.5 | 863.5 | 913.5 | 963.5 | 1013.5 | 1063.5 | 1113.5 | 1163.5 | 1213.5 | 1263.5 | 1313.5 | 1363.5 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 |
| 重量 Weight (kg) | 2.69 | 3.1 | 3.62 | 4.14 | 4.66 | 5.18 | 5.7 | 6.22 | 6.74 | 7.26 | 7.78 | 8.3 | 8.82 | 9.34 | 9.86 | 10.4 | 10.9 | 11.4 | 11.94 | 12.46 | 13 | 13.4 |

GCC 80-MD 馬達下折安裝 Down Motor Mounting



2D&3D文檔下載請至
www.limonrobot.cn

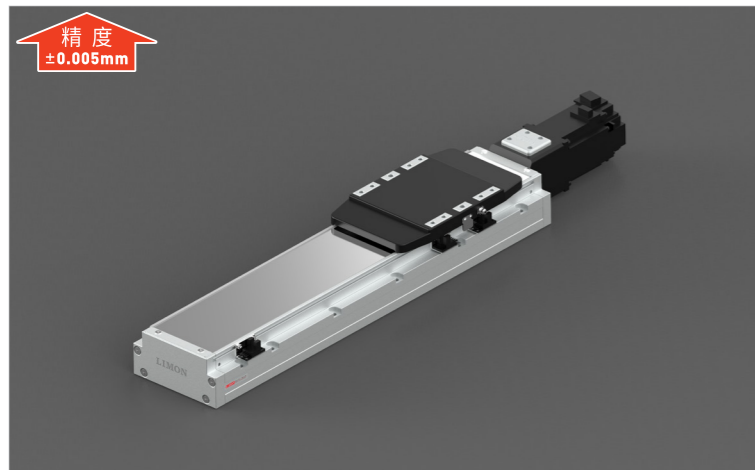
| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|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

GCC 120 導軌內嵌潔淨式滑台模組

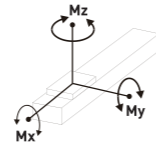
Embedded sliding table for dust-free workshop

訂購型號代碼 Code

| | | | | | | |
|----------------|----------------------|------------------|---|---|---|---------------------------|
| GCC 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 | 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 | 未標記: 無 NoMark:NoSensor |



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

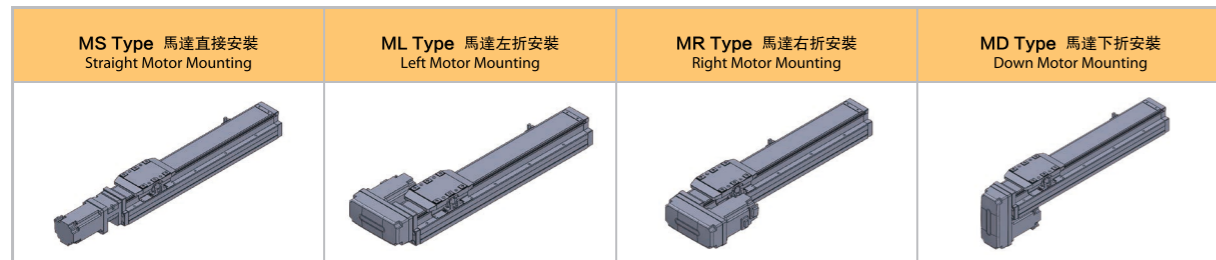


| Type | GCC 120 |
|------------|---------|
| ■ Mx (N·m) | 606 |
| ■ My (N·m) | 606 |
| ■ Mz (N·m) | 1168 |

除了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

| GCC 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 |
| 基本規格 Basic Specification | 定格推力 Rated Thrust (N) | 1388 694 347 218 |
| | 標準行程 Stroke (mm) | 50-1250 mm/ 50 Pitch |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 400 |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | C7 Ø16 |
| | 聯軸器 Coupling (mm) | 10 x 14 |
| | 原點感應器 Home Sensor | PM-Y45 (NPN) |

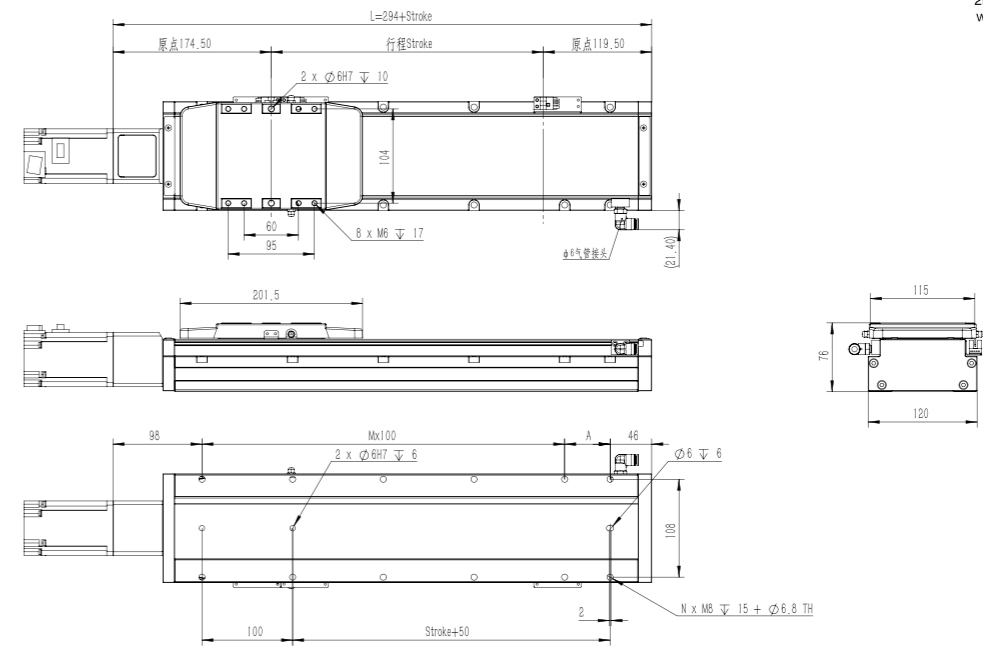
容許負載力矩表 Allowable Overhang

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

導軌內嵌潔淨式滑台模組 GCC 120

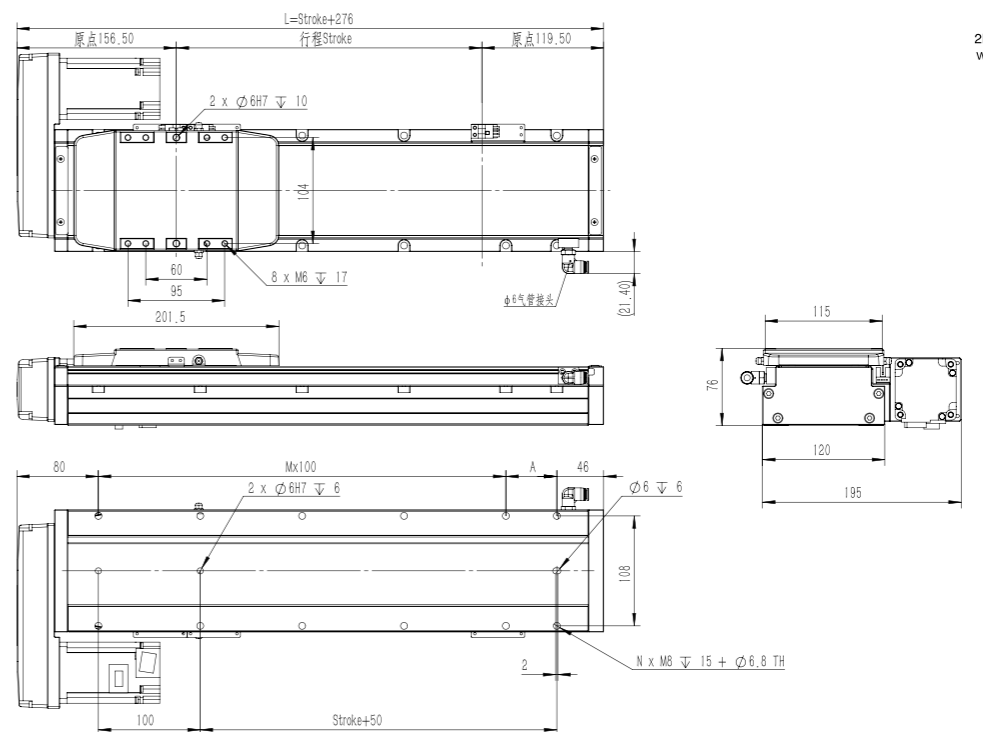
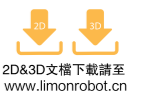
Embedded sliding table for dust-free workshop

GCC 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 | 394 | 444 | 494 | 544 | 594 | 644 | 694 | 744 | 794 | 844 | 894 | 944 | 994 | 1044 | 1094 | 1144 | 1194 | 1244 | 1294 | 1344 | 1394 | 1444 | 1494 | 1544 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 |
| 重量 Weight(kg) | 5.05 | 5.4 | 5.75 | 6.1 | 6.45 | 6.8 | 7.15 | 7.5 | 7.85 | 8.2 | 8.55 | 8.9 | 9.25 | 9.6 | 9.95 | 10.3 | 10.7 | 11 | 11.4 | 11.7 | 12.1 | 12.4 | 12.8 | 13.1 | 13.5 |

GCC 120-ML 馬達左折安裝 Left Motor Mounting

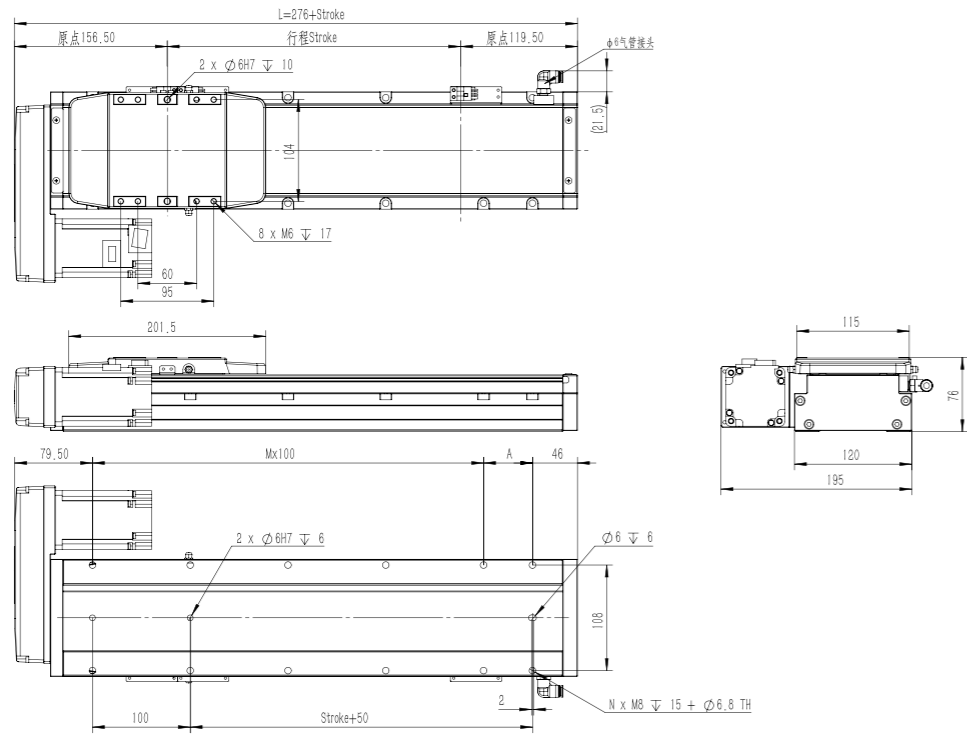


| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 326 | 376 | 426 | 476 | 526 | 576 | 626 | 676 | 726 | 776 | 826 | 876 | 926 | 976 | 1026 | 1076 | 1126 | 1176 | 1226 | 1276 | 1326 | 1376 | 1426 | 1476 | 1526 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 |
| N | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 |
| 重量 Weight(kg) | 5.21 | 5.56 | 5.91 | 6.26 | 6.61 | 6.96 | 7.31 | 7.66 | 8.01 | 8.36 | 8.71 | 9.06 | 9.41 | 9.76 | 10.11 | 10.46 | 10.81 | 11.16 | 11.51 | 11.86 | 12.21 | 12.56 | 12.91 | 13.26 | 13.61 |

GCC 120 導軌內嵌潔淨式滑台模組

Embedded sliding table for dust-free workshop

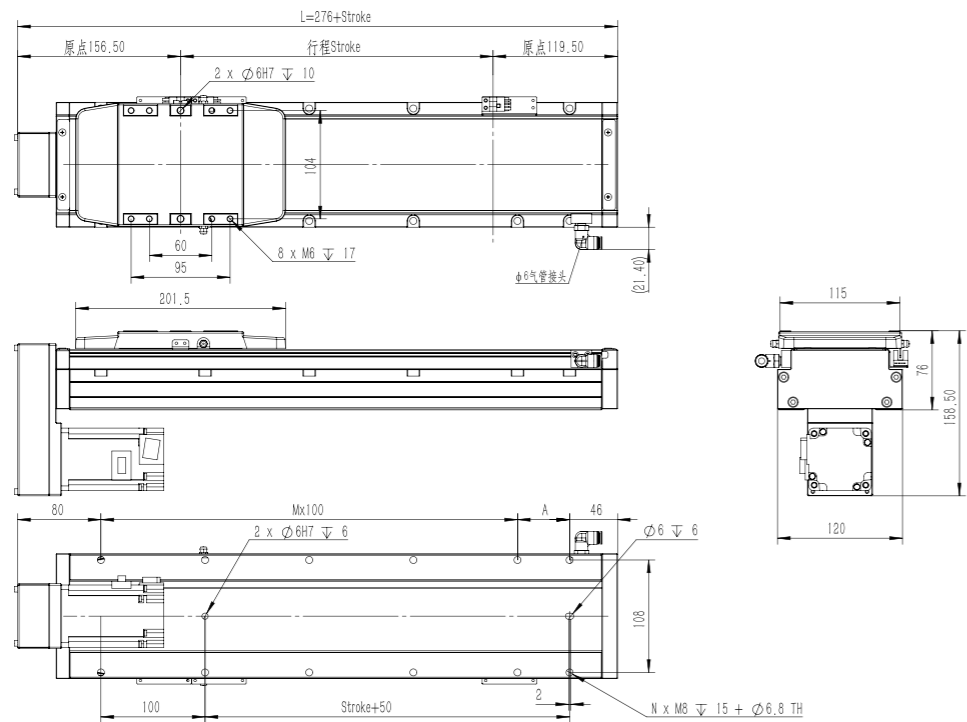
GCC 120-MR 馬達右折安裝 Right Motor Mounting



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 |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 326 | 376 | 426 | 476 | 526 | 576 | 626 | 676 | 726 | 776 | 826 | 876 | 926 | 976 | 1026 | 1076 | 1126 | 1176 | 1226 | 1276 | 1326 | 1376 | 1426 | 1476 | 1526 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 |
| N | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 |
| 重量 Weight(kg) | 5.21 | 5.56 | 5.91 | 6.26 | 6.61 | 6.96 | 7.31 | 7.66 | 8.01 | 8.36 | 8.71 | 9.06 | 9.41 | 9.76 | 10.11 | 10.46 | 10.81 | 11.16 | 11.51 | 11.86 | 12.21 | 12.56 | 12.91 | 13.28 | 13.61 |

GCC 120-MD 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 |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 326 | 376 | 426 | 476 | 526 | 576 | 626 | 676 | 726 | 776 | 826 | 876 | 926 | 976 | 1026 | 1076 | 1126 | 1176 | 1226 | 1276 | 1326 | 1376 | 1426 | 1476 | 1526 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 |
| N | 6 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 |
| 重量 Weight(kg) | 5.21 | 5.56 | 5.91 | 6.26 | 6.61 | 6.96 | 7.31 | 7.66 | 8.01 | 8.36 | 8.71 | 9.06 | 9.41 | 9.76 | 10.11 | 10.46 | 10.81 | 11.16 | 11.51 | 11.86 | 12.21 | 12.56 | 12.91 | 13.28 | 13.61 |



KS系列模組

KS series module



KS 40



KS 50



KS 60



KS 86



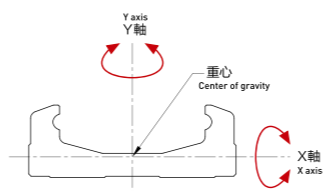
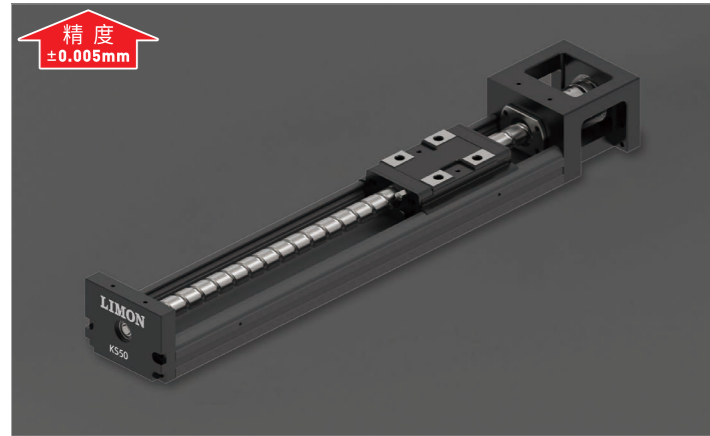
KS 100

KS 40 KS系列模組 KS series module

訂購型號代碼 Code

| | | | | | | | | | |
|------------------|----------------|---|--------------|------------------------|-------------------------|----------------------|----------------------------|---|--|
| KS40D | 05 | P | E | 200 | A | 2 | F0 | C | S0 |
| 本體型號 Item NO. | 螺桿導程 Travel | 精度等級 Accuracy Grade | 滾珠螺桿 特殊加工 | 軌道長度mm Track Length | 滑座形式 Slide Types | 滑座數量 Slide Number | 馬達連接法蘭 Motor Connection | 護蓋 Protecting Cover | 極限開關 Limit Switch |
| | 01 05 | P: 精密級 Precision Class C: 一般級 Normal Class | | 100 150 200 | A: 標準型 Standard Type | 1 2 | F0/F1/F2/H0 | C: 鋁護套 Aluminum Cover B: 伸縮護套 Telescopic cover 無標記: 無護套 None: no cover | S0: 只有極限軌道 Only limit orbit S1: 松下FPM-Y45(NPN) Panasonic PM-Y45(NPN) S1P: 松下FPM-Y45-PP(NP) Panasonic PM-Y45-P(NP) |

注: 詳見P53.
Note: Refer to catalogue P53



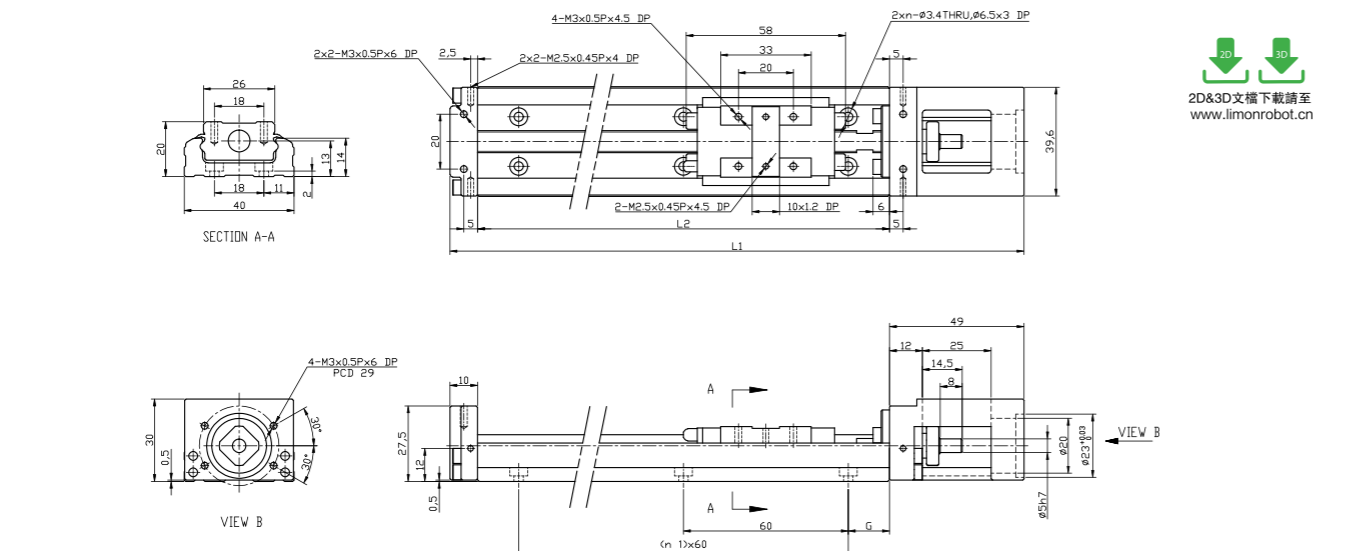
I_x: 延著X軸之慣性矩 Moment of inertia along the X-axis
I_y: 延著Y軸之慣性矩 Moment of inertia along the Y-axis

| 型號 | I _x | I _y |
|-------|------------------------|------------------------|
| KS40D | 3.533x 10 ⁴ | 5.317x 10 ⁴ |

單位:mm⁴

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 Diameter (mm) | 導程 lead (mm) | 基本動額定負荷 Basic Dynamic Rated Load (N) | 基本靜額定負荷 Basic Static Rated Load (N) | 容許靜力矩 Permissible Static Moment | | | | | | | | | | | | | | | | |
| | | | | | 俯仰 Pitching M _p (N·m) | | | | 偏擺 Deflection M _v (N·m) | | | | 滾動 Rolling M _r (N·m) | | | | | | | | |
| KS40D01 | P | 8 | 1 | 1243 | 2794 | 3920 | / | 6468 | / | 33 | 182 | / | / | 33 | 182 | / | / | 81 | 162 | / | / |
| KS40D05 | C | 8 | 5 | 1130 | 2540 | 3920 | / | 6468 | / | 33 | 182 | / | / | 33 | 182 | / | / | 81 | 162 | / | / |



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) | n | 重量 (kg) | |
|-----------------|---------------|-----------|-------|--------|---|---------|-------|
| | | A1 滑座 | A2 滑座 | | | A1 滑座 | A2 滑座 |
| 100 | 159 | 36 | - | 20 | 2 | 0.48 | - |
| 150 | 209 | 86 | 34 | 15 | 3 | 0.6 | 0.67 |
| 200 | 259 | 136 | 84 | 40 | 3 | 0.72 | 0.79 |

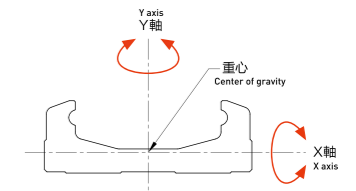
#注: 肩部外徑可特殊制作Φ4, 請與LIMON聯絡。
#Note: The shaft diameter can be special made in Φ4, pls contact LIMON.

KS系列模組 KS 50 KS series module

訂購型號代碼 Code

| | | | | | | | | |
|------------------|----------------|---|--------------------------|--|----------------------|----------------------------|---|---|
| KS50 | 02 | 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 | 滑座形式 Slide Types | 滑座數量 Slide Number | 馬達連接法蘭 Motor Connection | 護蓋 Protecting Cover | 極限開關 Limit Switch |
| | 02 | P: 精密級 Precision Class C: 一般級 Normal Class | 150 200 250 300 | A: 標準型 Standard Type S: 輕載型 Light Load Type | 1 2 | F0/F1/F2/F3 H0 | C: 鋁護套 Aluminum Cover B: 伸縮護套 Telescopic cover 無標記: 無護套 None: no cover | S0: 只有極限軌道 Only limit orbit S1: 松下FPM-Y45 Panasonic PM-Y45 |

注: 詳見P54.
Note: Refer to catalogue P54



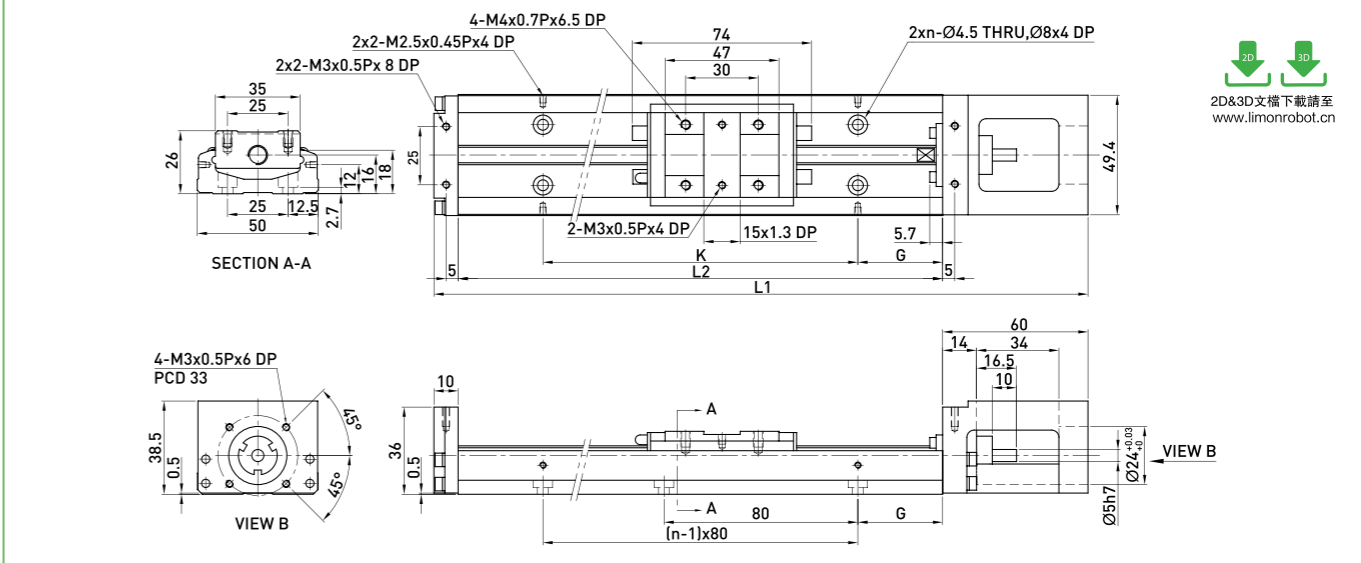
I_x: 延著X軸之慣性矩 Moment of inertia along the X-axis
I_y: 延著Y軸之慣性矩 Moment of inertia along the Y-axis

| 型號 | I _x | I _y |
|------|-----------------------|------------------------|
| KS50 | 9.6 x 10 ³ | 1.34 x 10 ⁴ |

單位:mm⁴

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 Diameter (mm) | 導程 lead (mm) | 基本動額定負荷 Basic Dynamic Rated Load (N) | 基本靜額定負荷 Basic Static Rated Load (N) | 容許靜力矩 Permissible Static Moment | | | | | | | | | | | | | | | | |
| | | | | | 俯仰 Pitching M _p (N·m) | | | | 偏擺 Deflection M _v (N·m) | | | | 滾動 Rolling M _r (N·m) | | | | | | | | |
| KS 5002 | P | 8 | 2 | 2136 | 3489 | 8007 | - | 12916 | / | 116 | 545 | / | / | 116 | 545 | / | / | 222 | 444 | / | / |



2D&3D文檔下載請至
www.limonrobot.cn

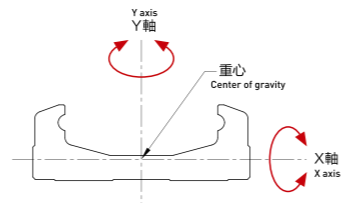
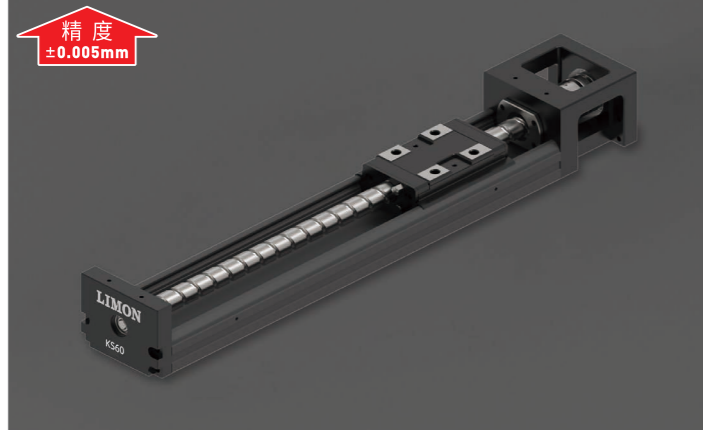
| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | K (mm) | n | 重量 (kg) | |
|-----------------|---------------|-----------|-------|--------|--------|---|---------|-------|
| | | A1 滑座 | A2 滑座 | | | | A1 滑座 | A2 滑座 |
| 150 | 220 | 70 | - | 35 | 80 | 2 | 1 | - |
| 200 | 270 | 120 | 55 | 20 | 160 | 3 | 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 |

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

KS 60 KS系列模組 KS series module

訂購型號代碼 Code

| | | | | | | | | |
|------------------|----------------|---|--|--|----------------------|----------------------------|---|---|
| KS60 | 05 | P | 200 | A | 2 | F0 | C | S0 |
| 本體型號 Item NO. | 螺桿行程 Travel | 精度等級 Accuracy Grade | 軌道長度mm Track Length | 滑座形式 Slide Types | 滑座數量 Slide Number | 馬達連接法蘭 Motor Connection | 護蓋 Protecting Cover | 極限開關 Limit Switch |
| | 05 10 | P: 精密級 Precision Class C: 一般級 Normal Class | 150 200 300 400 500 600 | A: 標準型 Standard Type S: 輕載型 Light Load Type | 1 2 | F0-F5 H0 T1/T2/T5 | 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FPM-Y45 Panasonic PM-Y45 |

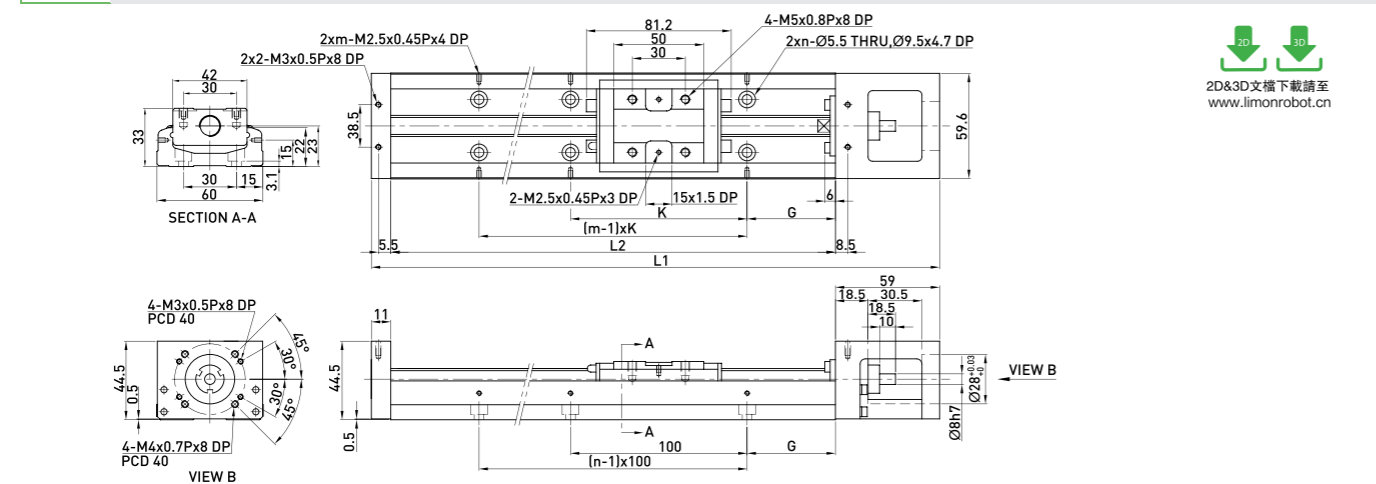


lx: 延著X軸之慣性矩 Moment of inertia along the X-axis
ly: 延著Y軸之慣性矩 Moment of inertia along the Y-axis
慣性矩 單位:mm⁴

| 型號 | lx | ly |
|------|-------------------------|-------------------------|
| KS60 | 2.056 x 10 ⁴ | 2.802 x 10 ⁵ |

基本規格 Basic Specification

| 型號 Code | 滾珠絲桿 Ball Screw | | | | 直線導軌 Linear Guide | | | | | | | | | | | | | | | | |
|------------|---------------------------------------|-----------------|---|--|----------------------------------|-------|---|-------|------------------------------------|-----|-----|---|---------------------------------|-----|-----|---|---|-----|-----|---|---|
| | 公稱外徑 Nominal Outside Diameter (mm) | 導程 Lead (mm) | 基本動額定負荷 Basic Dynamic Rated Load (N) | 基本靜額定負荷 Basic Static Rated Load (N) | 容許靜力矩 Permissible Static Moment | | | | | | | | | | | | | | | | |
| | | | | | 俯仰 Pitching M _p (N·m) | | | | 偏擺 Deflection M _d (N·m) | | | | 滾動 Rolling M _r (N·m) | | | | | | | | |
| KS 60D05 | P | 12 | 5 | 3744 | 6234 | 13230 | / | 21462 | / | 152 | 760 | / | / | 152 | 760 | / | / | 419 | 838 | / | / |
| KS 60D10 | P | 12 | 10 | 2410 | 3743 | 13230 | / | 21462 | / | 152 | 760 | / | / | 152 | 760 | / | / | 419 | 838 | / | / |



2D&3D文檔下載請至
www.limonrobot.cn

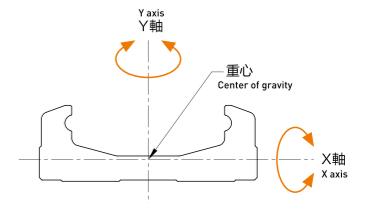
| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | K (mm) | n | m | 重量 (kg) | |
|-----------------|---------------|-----------|-------|--------|--------|---|---|---------|-------|
| | | A1 滑座 | A2 滑座 | | | | | A1 滑座 | A2 滑座 |
| 150 | 220 | 60 | - | 25 | 100 | 2 | 2 | 1.5 | - |
| 200 | 270 | 110 | - | 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 |

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

KS系列模組 KS 86 KS series module

訂購型號代碼 Code

| | | | | | | | | |
|------------------|----------------|---|--|--|----------------------|----------------------------|---|---|
| KS86 | 10 | P | 340 | A | 2 | F0 | C | S0 |
| 本體型號 Item NO. | 螺桿行程 Travel | 精度等級 Accuracy Grade | 軌道長度mm Track Length | 滑座形式 Slide Types | 滑座數量 Slide Number | 馬達連接法蘭 Motor Connection | 護蓋 Protecting Cover | 極限開關 Limit Switch |
| | 10 20 | P: 精密級 Precision Class C: 一般級 Normal Class | 340 440 540 640 740 940 | A: 標準型 Standard Type S: 輕載型 Light Load Type | 1 2 | F0-F6 H0 T0/T1/T6 | 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FPM-Y45 Panasonic PM-Y45 |

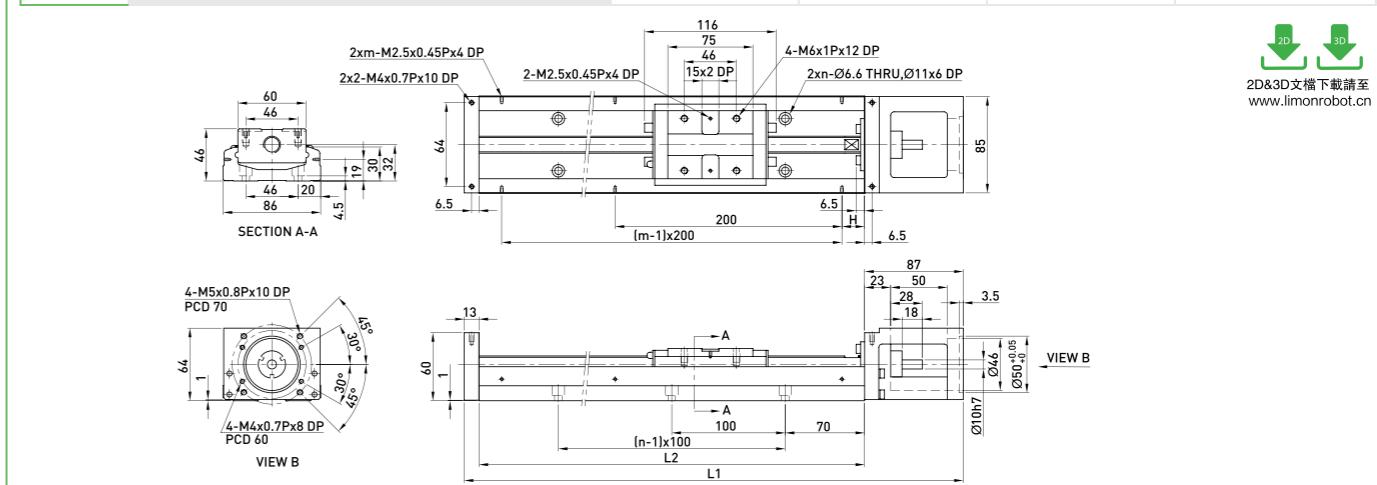


lx: 延著X軸之慣性矩 Moment of inertia along the X-axis
ly: 延著Y軸之慣性矩 Moment of inertia along the Y-axis
慣性矩 單位:mm⁴

| 型號 | lx | ly |
|------|-------------------------|-------------------------|
| KS86 | 7.445 x 10 ⁴ | 1.134 x 10 ⁵ |

基本規格 Basic Specification

| 型號 Code | 滾珠絲桿 Ball Screw | | | | 直線導軌 Linear Guide | | | | | | | | | | | | | | | | |
|------------|---------------------------------------|-----------------|---|--|----------------------------------|-------|---|-------|------------------------------------|-----|------|---|---------------------------------|-----|------|---|---|------|------|---|---|
| | 公稱外徑 Nominal Outside Diameter (mm) | 導程 Lead (mm) | 基本動額定負荷 Basic Dynamic Rated Load (N) | 基本靜額定負荷 Basic Static Rated Load (N) | 容許靜力矩 Permissible Static Moment | | | | | | | | | | | | | | | | |
| | | | | | 俯仰 Pitching M _p (N·m) | | | | 偏擺 Deflection M _d (N·m) | | | | 滾動 Rolling M _r (N·m) | | | | | | | | |
| KS 86D10 | P | 15 | 10 | 7144 | 12642 | 31458 | / | 50764 | / | 622 | 3050 | / | / | 622 | 3050 | / | / | 1507 | 3014 | / | / |
| KS 86D20 | P | 15 | 20 | 4645 | 7655 | 31458 | / | 50764 | / | 622 | 3050 | / | / | 622 | 3050 | / | / | 1507 | 3014 | / | / |



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 |

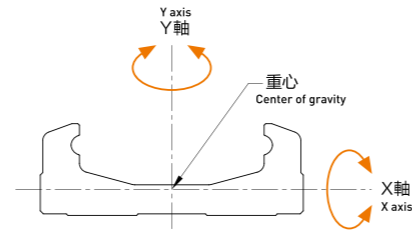
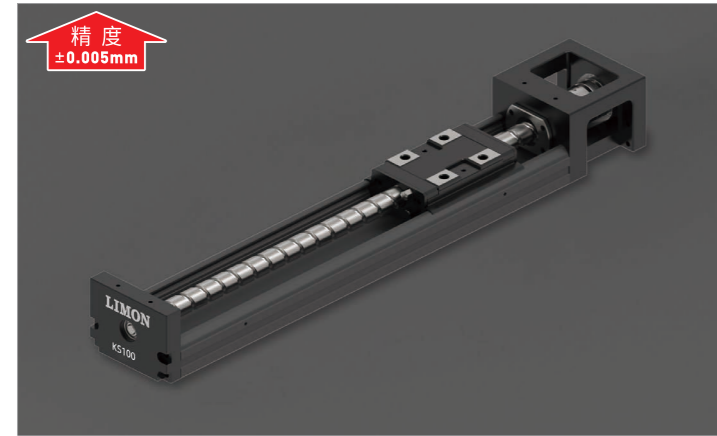
#注: 肩部外徑可特殊制作Φ4, 請與LIMON聯絡。
#Note: The shaft diameter can be special made in Φ4, pls contact LIMON.

KS 100 KS系列模組

KS series module

訂購型號代碼 Code

| | | | | | | | | | |
|------------------|----------------|---|----------|-------------------------------------|-------------------------|----------------------|----------------------------|---|---|
| KS100 | 20 | P | E | 980 | A | 2 | F0 | C | S0 |
| 本體型號 Item NO. | 螺桿行程 Travel | 精度等級 Accuracy Grade | 滾珠螺桿特殊加工 | 軌道長度mm Track Length | 滑座形式 Slide Types | 滑座數量 Slide Number | 馬達連接法蘭 Motor Connection | 護蓋 Protecting Cover | 極限開關 Limit Switch |
| | 20 | P: 精密級 Precision Class C: 一般級 Normal Class | | 980 1080 1180 1280 1380 | A: 標準型 Standard Type | 1 2 | F0 - F5 H0 | C: 鋁護套 Aluminum Cover B: 伸縮護套 Telescopic cover 無標記: 無護套 None: no cover | S0: 只有極限軌道 Only limit orbit S1: 松下PM-Y45(NPN) Panasonic PM-Y45(NPN) S1P: 松下PM-Y45-P(PNP) Panasonic PM-Y45-P(PNP) |



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

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

基本規格 Basic Specification

| 型號 Code | 滾珠絲桿 Ball Screw | | | | 直線導軌 Linear Guide | | | | | | | | | | | | | | | | |
|------------|---------------------------------------|-----------------|---|--|---|-------|---|-------|--|-----|------|---|----------------------------------|-----|------|---|------------------------------------|------|------|---|---------------------------------|
| | 公稱外徑 Nominal Outside Diameter (mm) | 導程 Lead (mm) | 基本動額定負荷 Basic Dynamic Rated Load (N) | 基本靜額定負荷 Basic Static Rated Load (N) | 容許靜力矩 Permissible Static Moment | | | | | | | | | | | | | | | | |
| | | | | | 基本動額定負荷 Basic Dynamic Rated Load (N) | | | | 基本靜額定負荷 Basic Static Rated Load (N) | | | | 俯仰 Pitching M _y (N·m) | | | | 偏擺 Deflection M _x (N·m) | | | | 滾動 Rolling M _z (N·m) |
| KS10020 | P C | 20 | 20 | 7046 4785 | 12544 9163 | 39200 | / | 63406 | / | 960 | 4763 | / | / | 960 | 4763 | / | / | 2205 | 4410 | / | / |

KK100

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

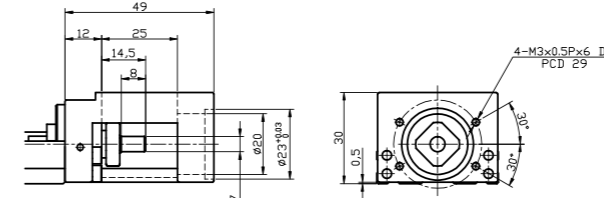
#注: 肩部外徑可特殊製作Φ4, 請與LIMON聯絡。
#Note: The shaft diameter can be special made in Φ4, pls contact LIMON.

KS系列模組

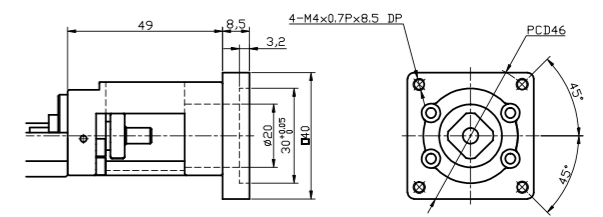
KS series module

KS40D

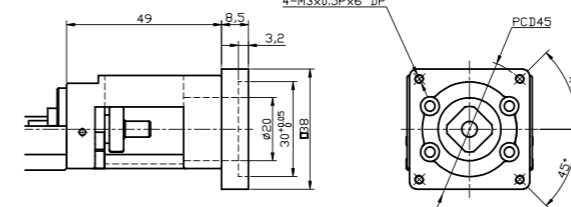
馬達座 F0



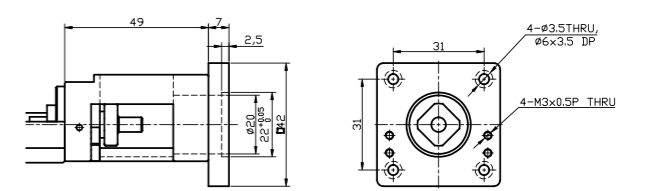
馬達連接法蘭 F1



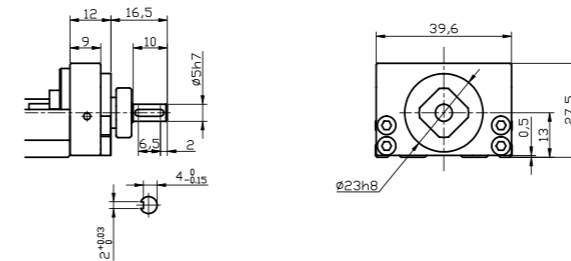
馬達連接法蘭 F2



馬達連接法蘭 F3

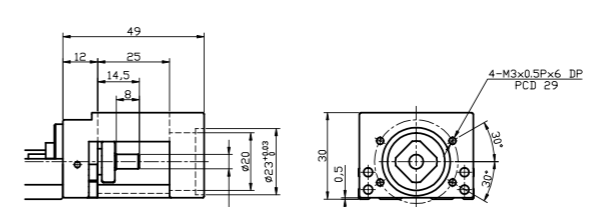


轉接固定座 H0

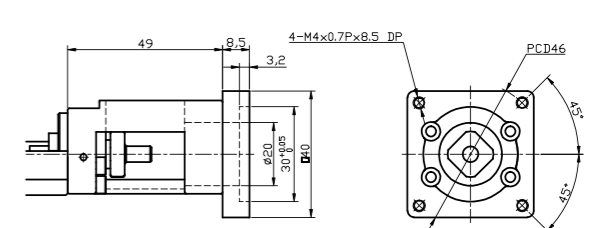


KS40

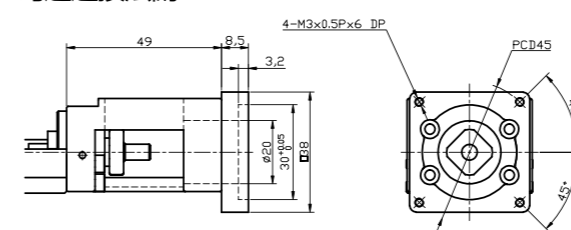
馬達座 F0



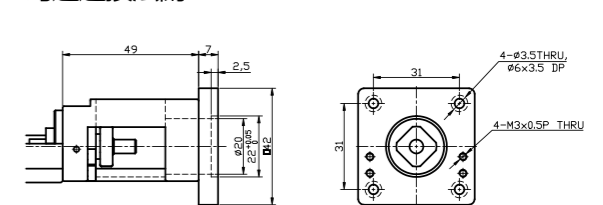
馬達連接法蘭 F1



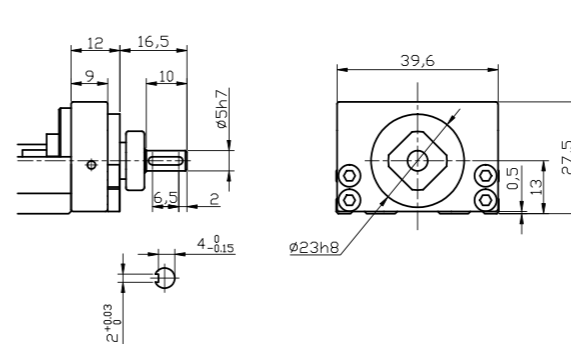
馬達連接法蘭 F2



馬達連接法蘭 F3

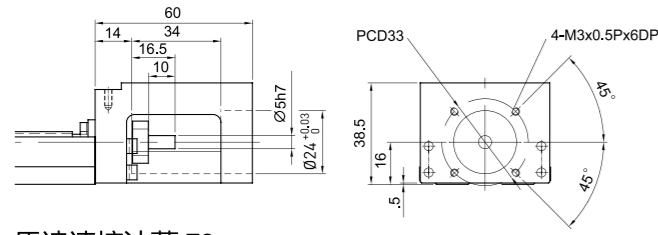


轉接固定座 H0

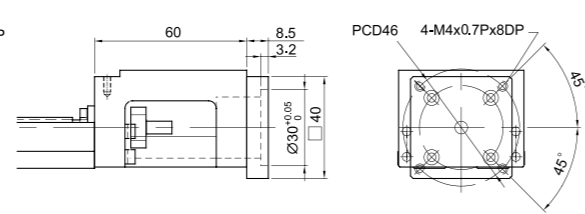


KS50

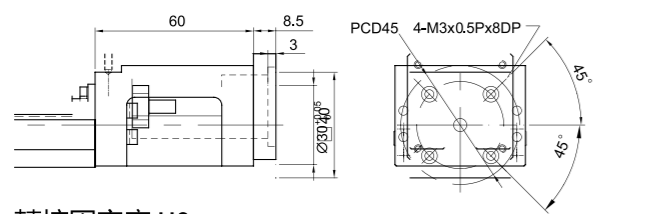
馬達座 F0



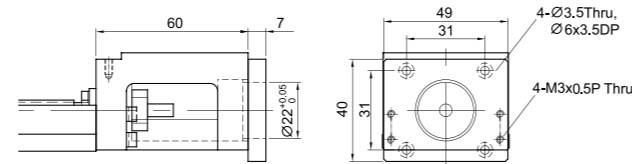
馬達連接法蘭 F1



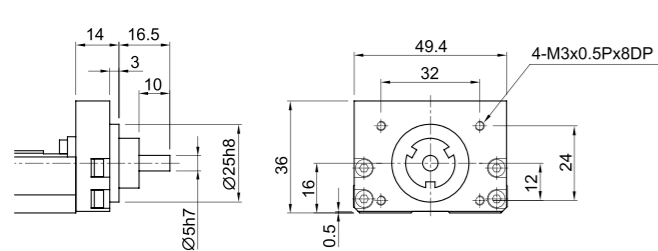
馬達連接法蘭 F2



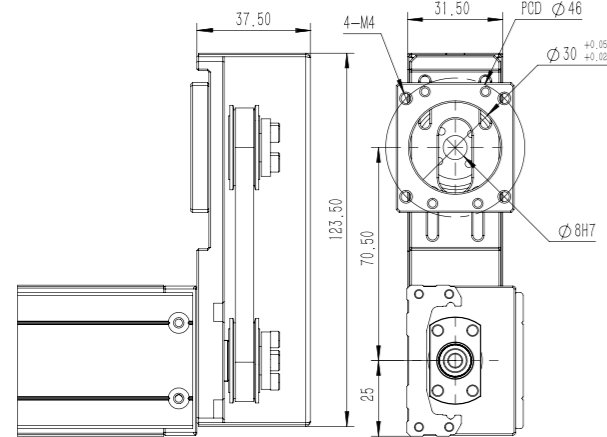
馬達連接法蘭 F3



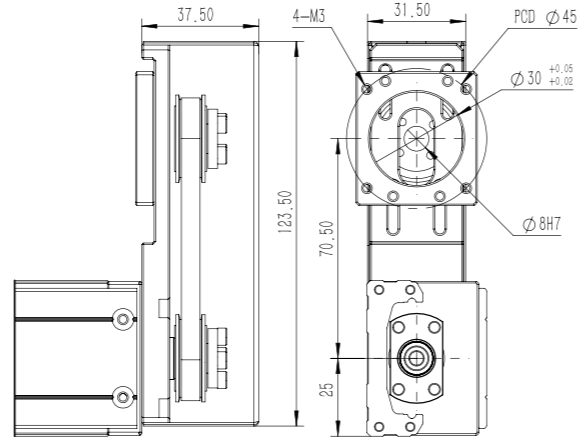
轉接固定座 H0



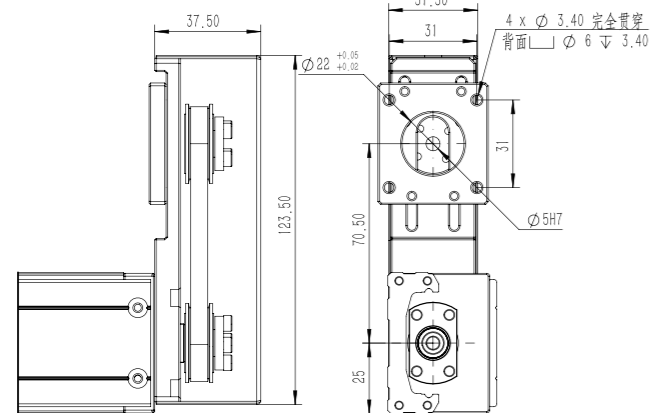
馬達轉折型 T1



馬達轉折型 T2

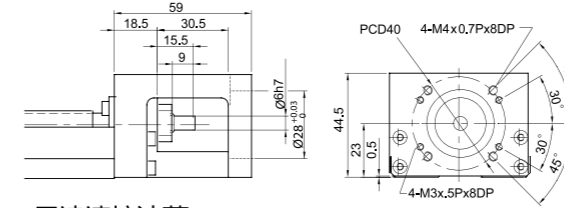


馬達轉折型 T3

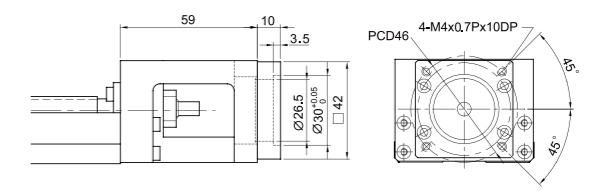


KS60D

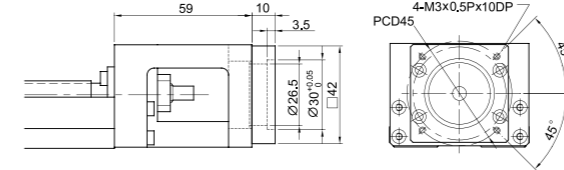
馬達座 F0



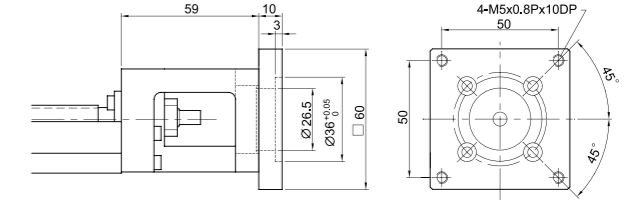
馬達連接法蘭 F1



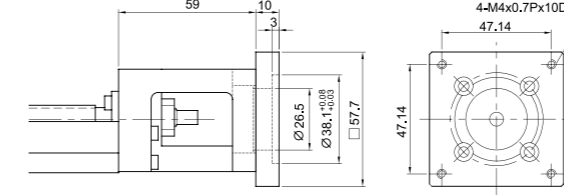
馬達連接法蘭 F2



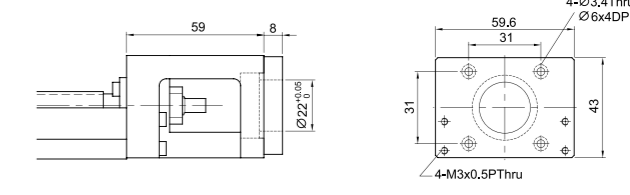
馬達連接法蘭 F3



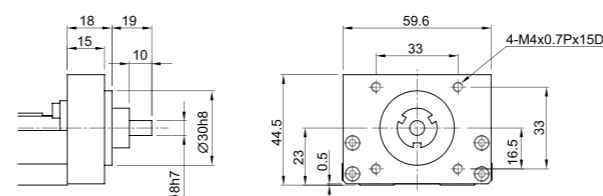
馬達連接法蘭 F4



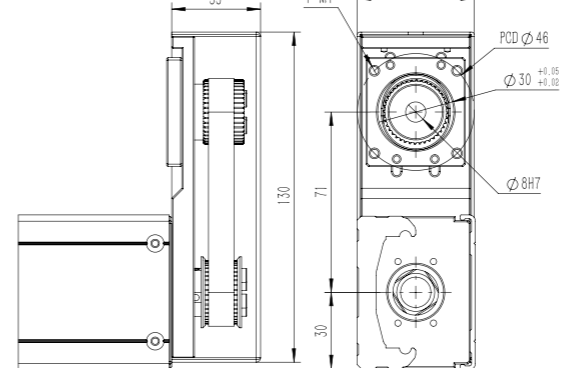
馬達連接法蘭 F5



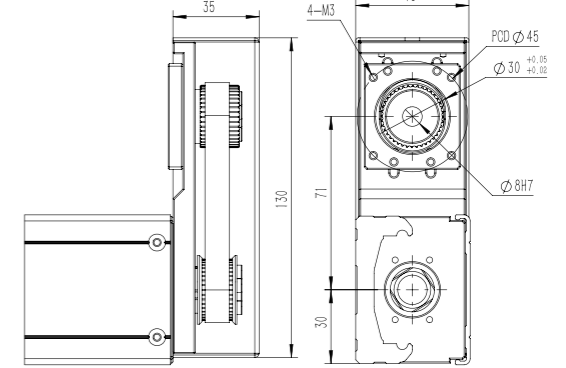
轉接固定座 H0



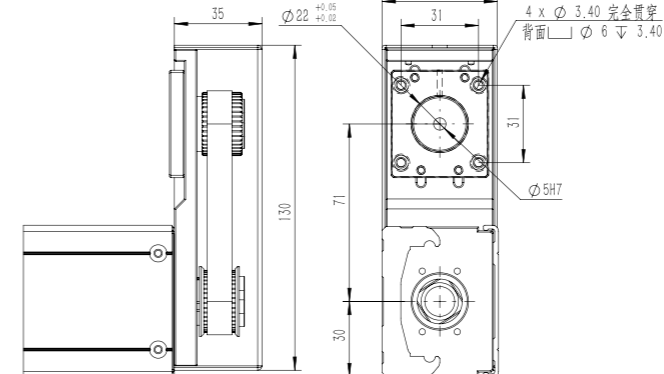
轉折模塊-T1



轉折模塊-T2



轉折模塊-T5



適用馬達對照表

三菱 Mitsubishi 伺服馬達

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

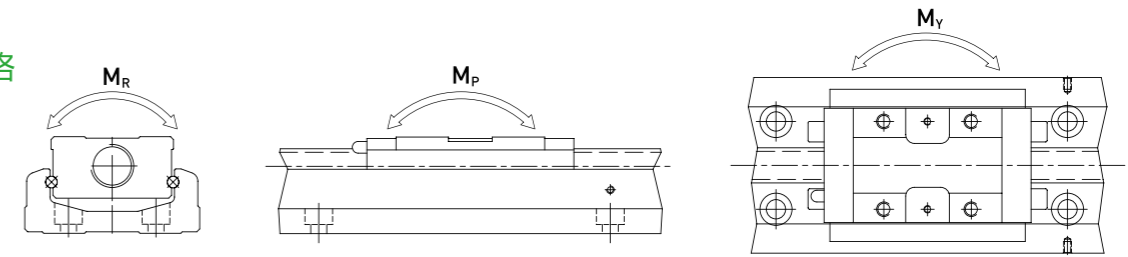
松下 Panasonic 伺服馬達

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

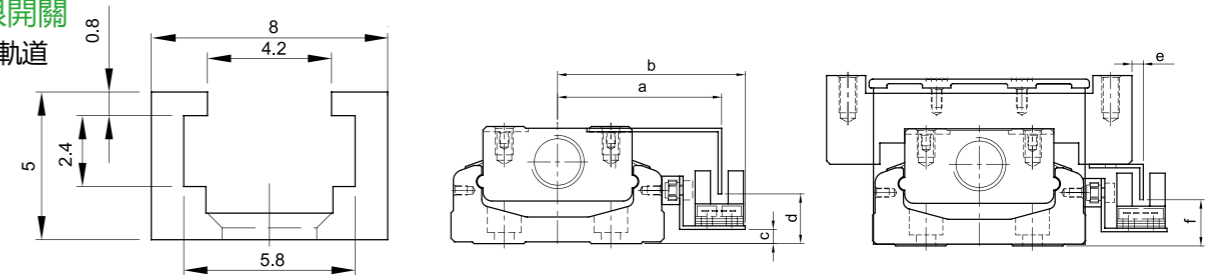
安川伺服馬達

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

負載規格



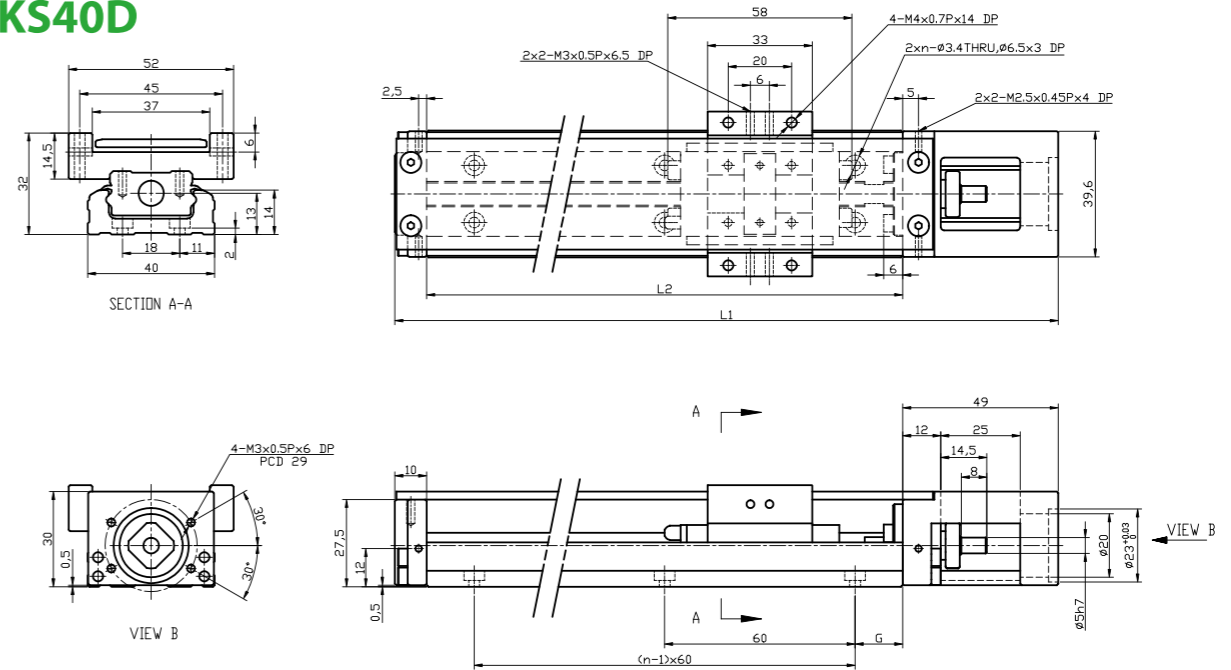
極限開關
極限軌道



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

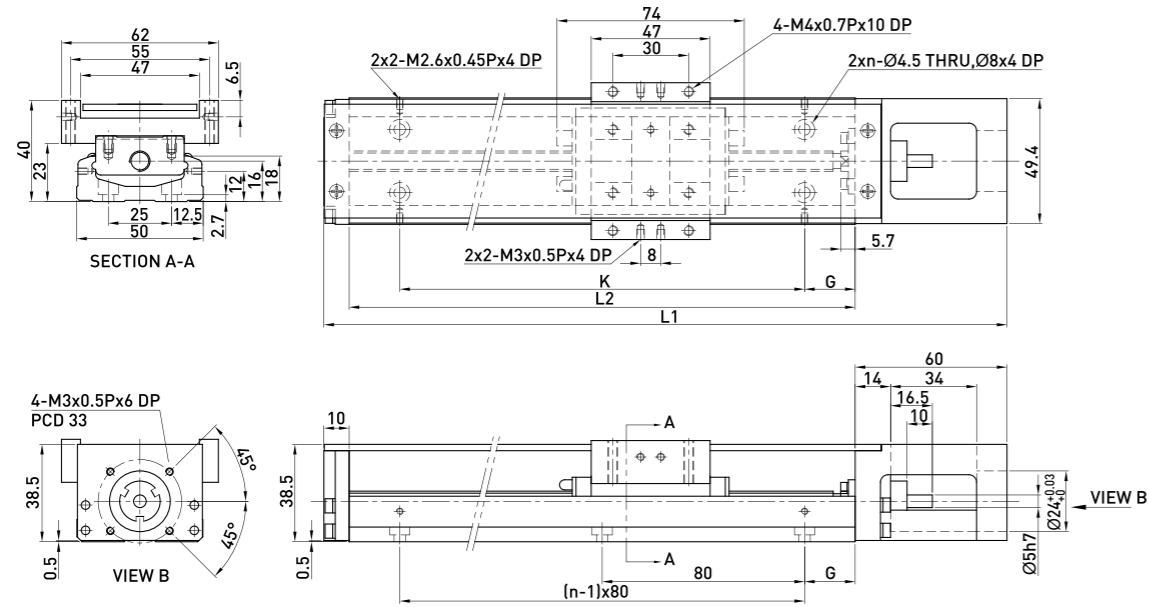
含護蓋

KS40D



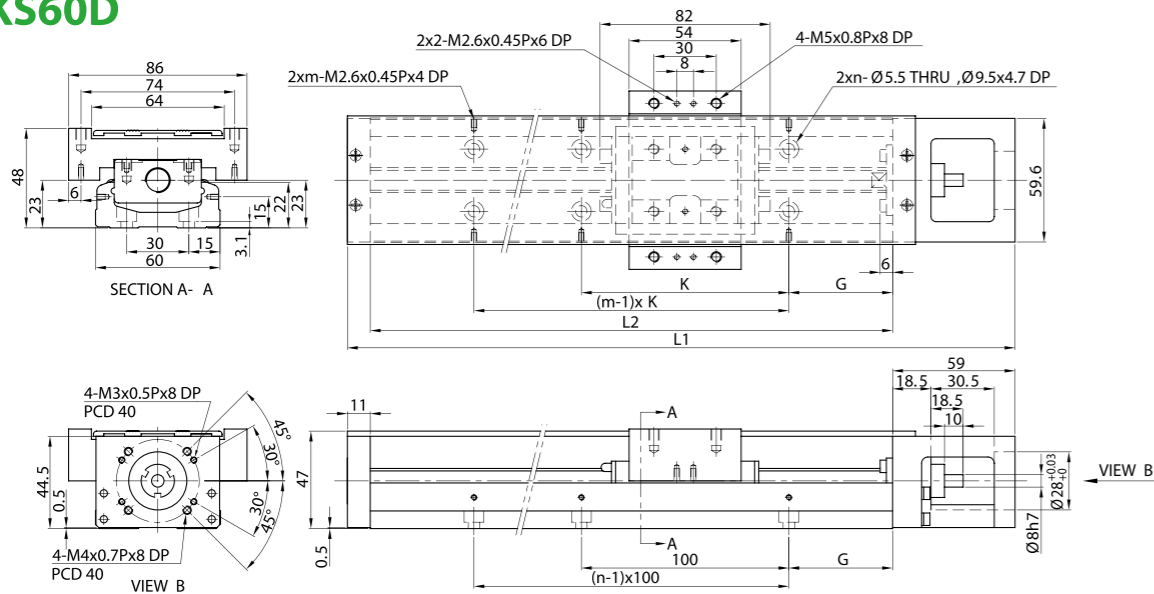
| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | n | 重量 (kg) | |
|-----------------|---------------|-----------|-------|--------|---|---------|-------|
| | | A1 滑座 | A2 滑座 | | | A1 滑座 | A2 滑座 |
| 100 | 159 | 36 | - | 20 | 2 | 0.55 | - |
| 150 | 209 | 86 | 34 | 15 | 3 | 0.68 | 0.76 |
| 200 | 259 |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

KS50



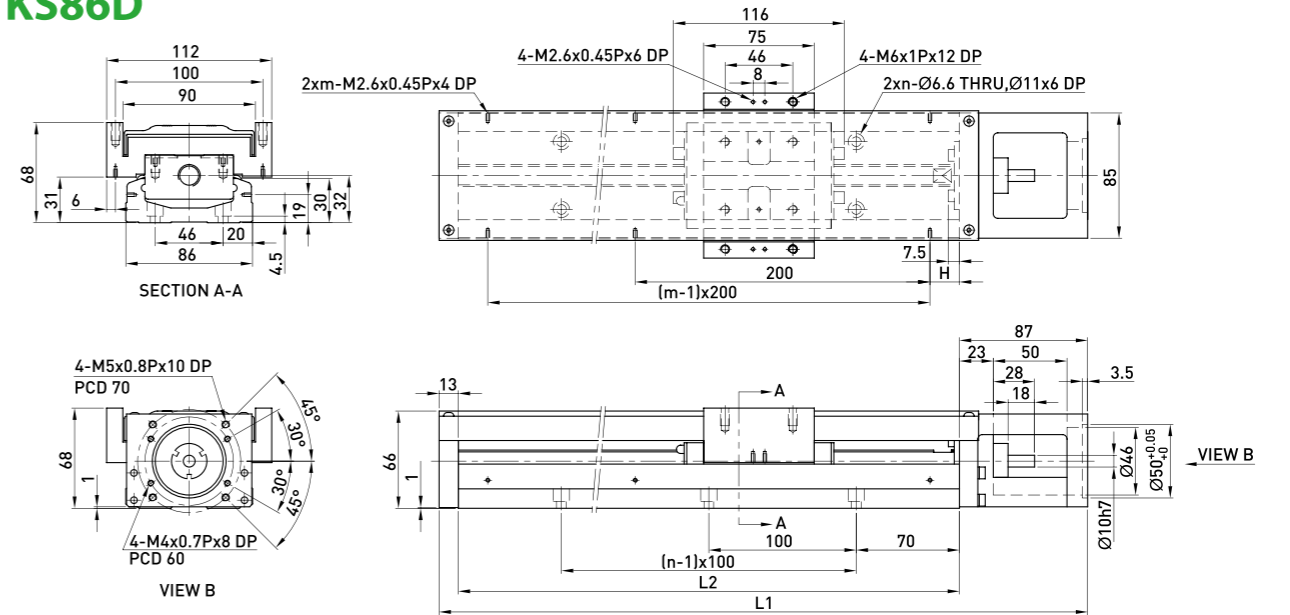
| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | K (mm) | n | m | 重量 (kg) | |
|-----------------|---------------|-----------|-------|--------|--------|---|---|---------|-------|
| | | A1 滑座 | A2 滑座 | | | | | A1 滑座 | A2 滑座 |
| 150 | 220 | 70 | - | 35 | 80 | 2 | 2 | 1.1 | - |
| 200 | 270 | 120 | 55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

KS60D



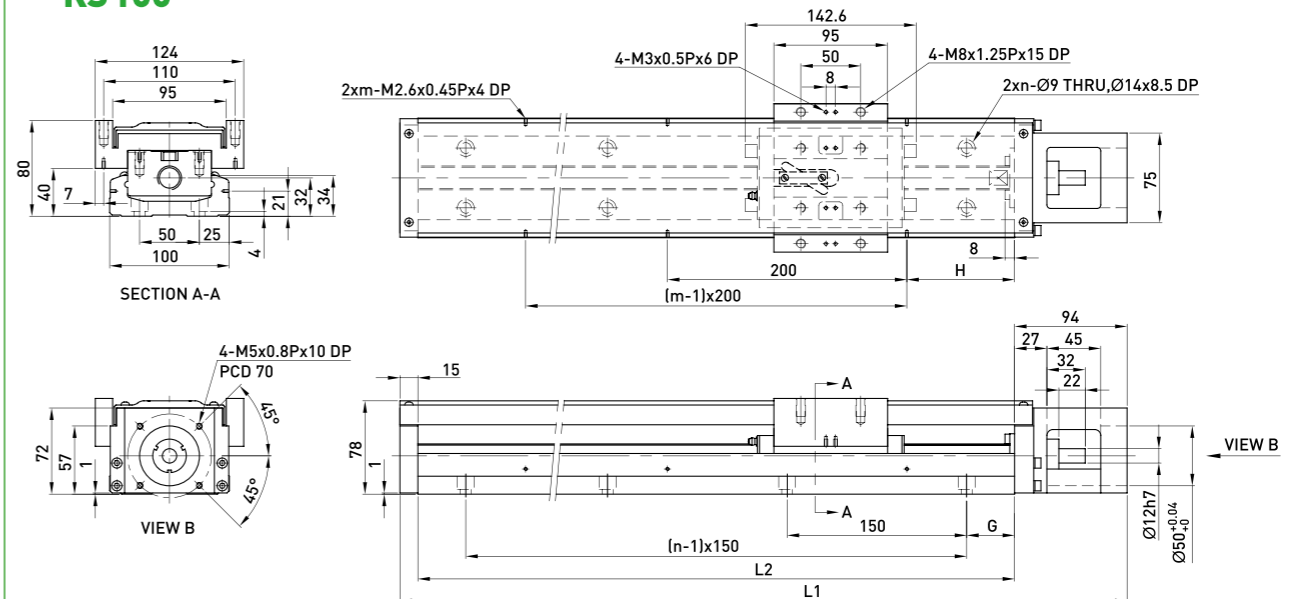
| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | K (mm) | n | m | 重量 (kg) | |
|-----------------|---------------|-----------|-------|--------|--------|---|---|---------|-------|
| | | A1 滑座 | A2 滑座 | | | | | A1 滑座 | A2 滑座 |
| 150 | 220 | 60 | - | 25 | 100 | 2 | 2 | 1.7 | - |
| 200 | 270 | 110 | -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

KS86D



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

KS100



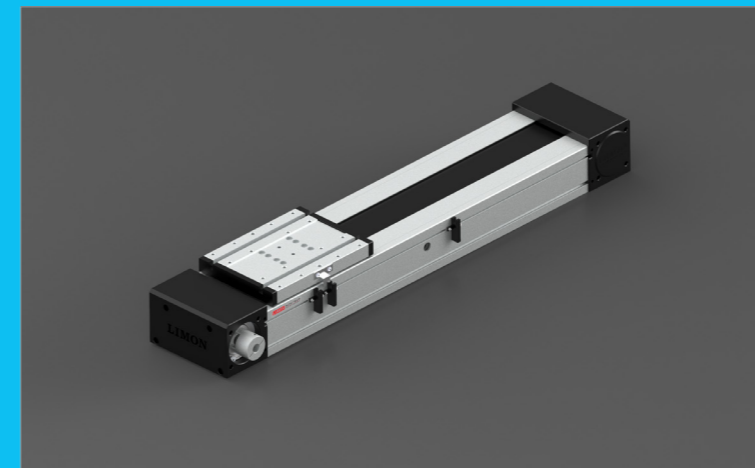
| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | H (mm) | n | m | 重量 (kg) | |
|-----------------|---------------|-----------|-------|--------|--------|----|---|---------|-------|
| | | A1 滑座 | A2 滑座 | | | | | A1 滑座 | A2 滑座 |
| 980 | 1089 | 828 | 700 | 40 | 90 | 7 | 5 | 20.4 | 22.1 |
| 1080 | 1189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

歐標半密式同步帶驅動型

European standard semi-dense synchronous belt drive type



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



ITO 160

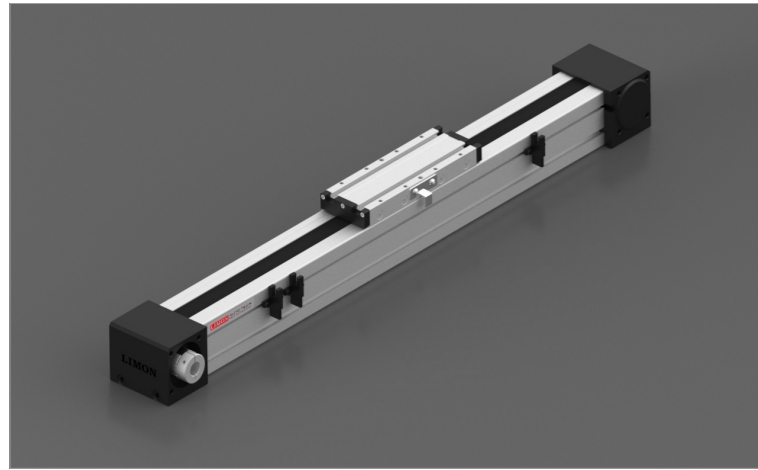
ITO 40/60/80/100 歐標半密式同步帶驅動型

European standard semi-dense synchronous belt drive type

訂購型號代碼 Code

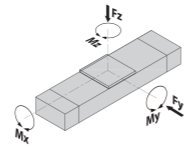
| | | | | | | | | |
|---------------|-------------------------------|--------------------------------|---|--|--|--|---|---------------------------|
| ITO60 | L | 500 | DB | D01 | GB2 | 22 | P3 | A001 |
| 本體型號 Item NO. | 是否加長滑塊 未標注:標準滑塊 L: 加長滑塊 | 行程 Stroke 100-4000,間隔Gap100 | 輔助滑塊 Auxiliary Block 未填寫:單滑塊 DB:輔助滑塊 | 馬達方向 Motor Mounting Position D01 D02 D03 D04 D05 | 馬達座型號 Motor type GB2 GB3 GB4 | 聯軸器內孔尺寸 Hole dimension of coupling *注3 *Note3 | 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P209.



最大動態力和力矩

Max Permissible Forces And Torques



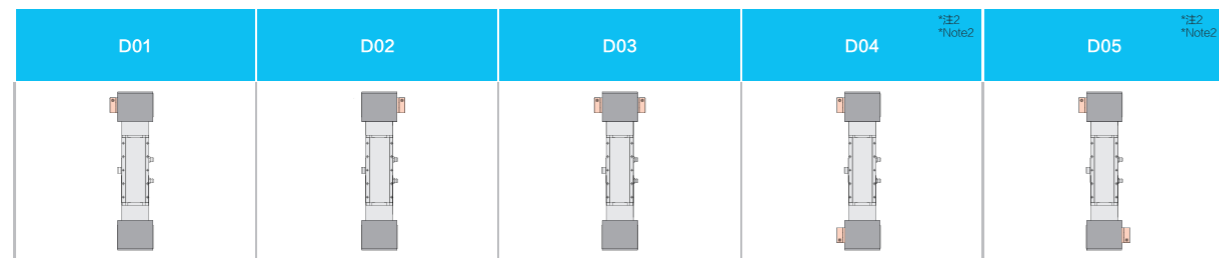
| 規格 Type | 40 | 60 | 60L | 80 | 80L | 100 | 100L |
|--------------|-----|------|------|------|------|------|-------|
| ■ F(y) (N) | 993 | 2457 | 5235 | 3131 | 7277 | 4375 | 11675 |
| ■ F(z) (N) | 993 | 3375 | 5335 | 5120 | 7277 | 7860 | 11675 |
| ■ M(x) (N·m) | 6 | 22 | 40 | 75 | 75 | 115 | 136 |
|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

除了滿足最大負載和力矩外, 還必須滿足以下公式:

All forces and torques relate to the following:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| ITO | | 40 | 60 | 60-L | 80 | 80-L | 100 | 100-L | |
|--|---|----------------------|------------|---------------------|------------|-------|------------|-------|-----|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.05 | | | | | | | |
| | 皮帶輪導程 Pulley Lead (mm) | 99 | 130 | | 176 | | 224 | | |
| | 皮帶型號 Belt Type | 3M-10 | 5M-25 | | 8M-30 | | 8M-50 | | |
| | 最高速度 Maximum Speed (mm/s) | 3000 | 5000 | | 5000 | | 5000 | | |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 10 | 30 | 45 | 50 | 75 | 80 | 120 |
| | | 垂直使用 Vertical (kg) | 8 | 20 | 30 | 40 | 60 | 60 | 90 |
| 最大空載扭距 Max. No-load Driving Torque (N·m) | 0.1 | 0.35 | 0.35 | 0.5 | 0.5 | 0.9 | 0.9 | | |
| 最大扭距 Max. Driving Torque (N·m) | 6 | 13.3 | 13.3 | 49.8 | 49.8 | 105.7 | 105.7 | | |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 100-1500mm/100pitch | | 100-4000mm/100pitch | | | | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 100 | 200/400 | | 400/750 | | 750/1000 | | |
| | 高剛性直線滑軌 Linear Guide | 12# × 1PCS | 15# × 1PCS | | 20# × 1PCS | | 25# × 1PCS | | |
| | 主機截面最大外形 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 accelarated speed.Please refer to the LIMON calculate software.

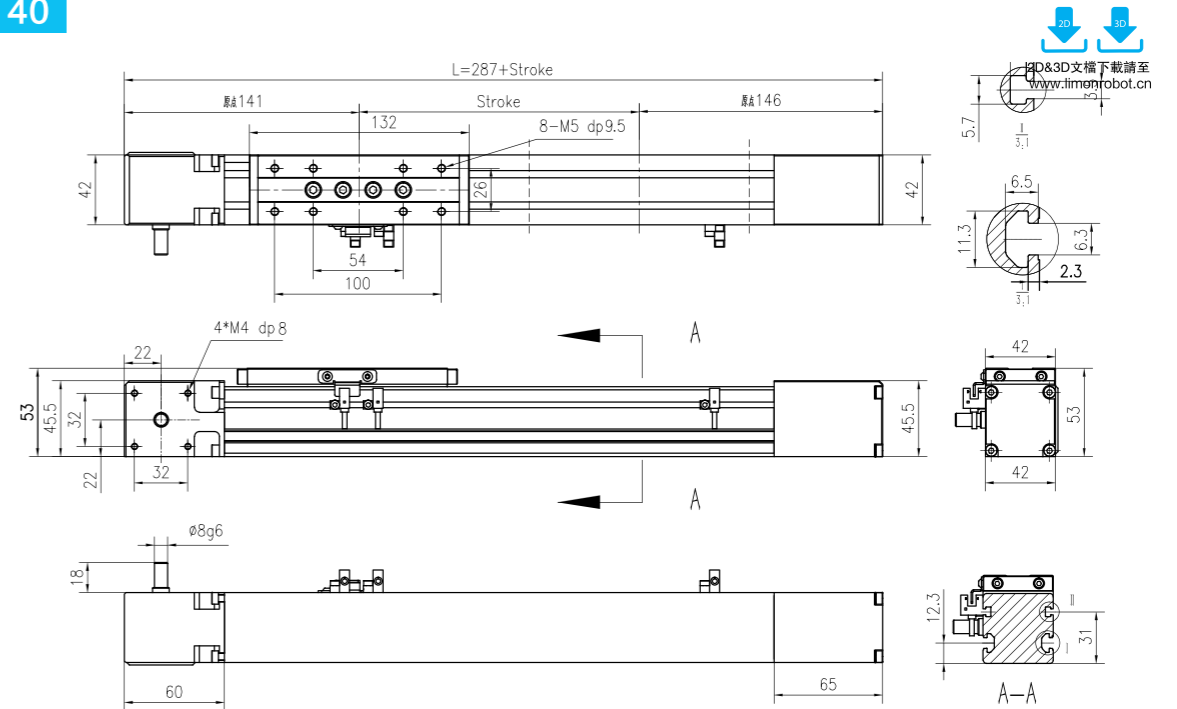
#注2: ITO40無D04和D05

#Note2: ITO40 without D04 and D05

歐標半密式同步帶驅動型 ITO 40/60/80/100

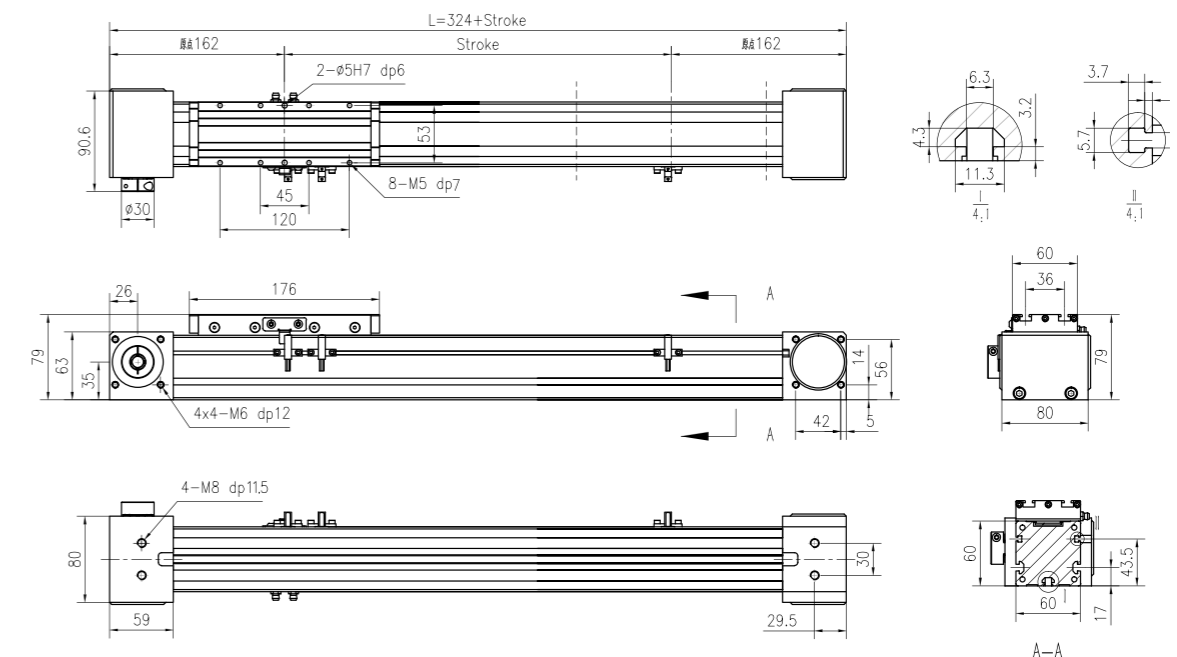
European standard semi-dense synchronous belt drive type

ITO 40



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

ITO 60

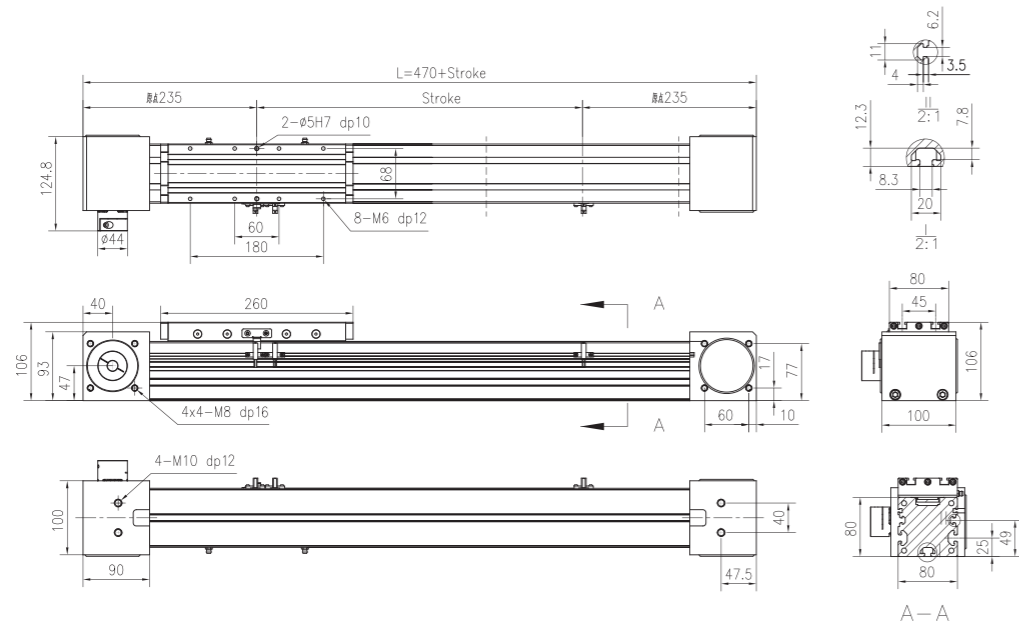
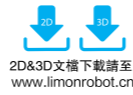


| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

ITO 40/60/80/100 歐標半密式同步帶驅動型

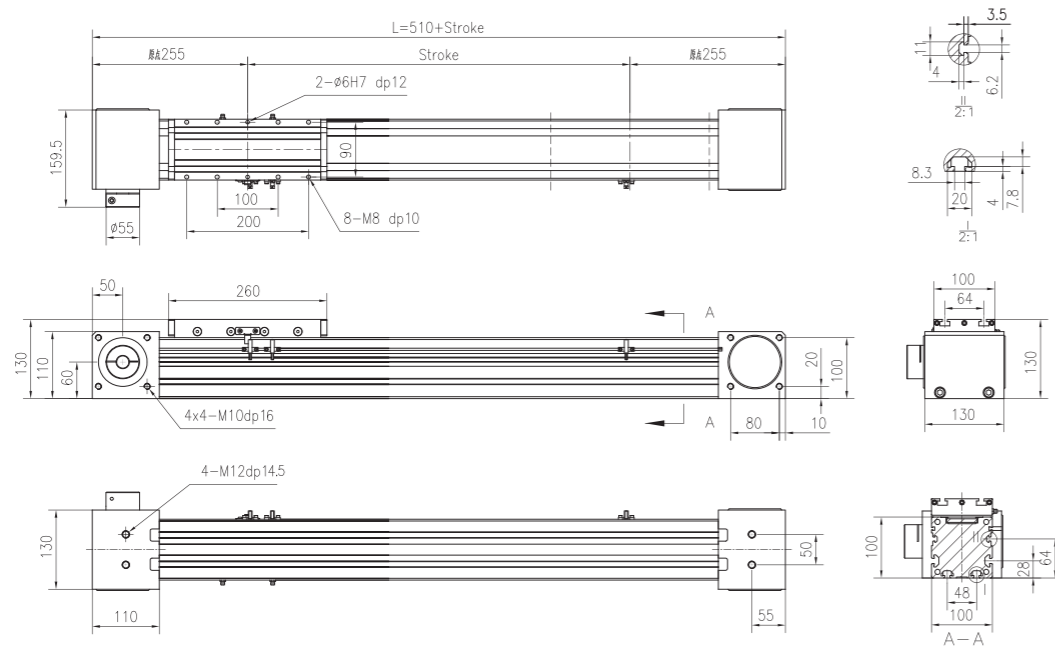
European standard semi-dense synchronous belt drive type

ITO 80



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

ITO 100

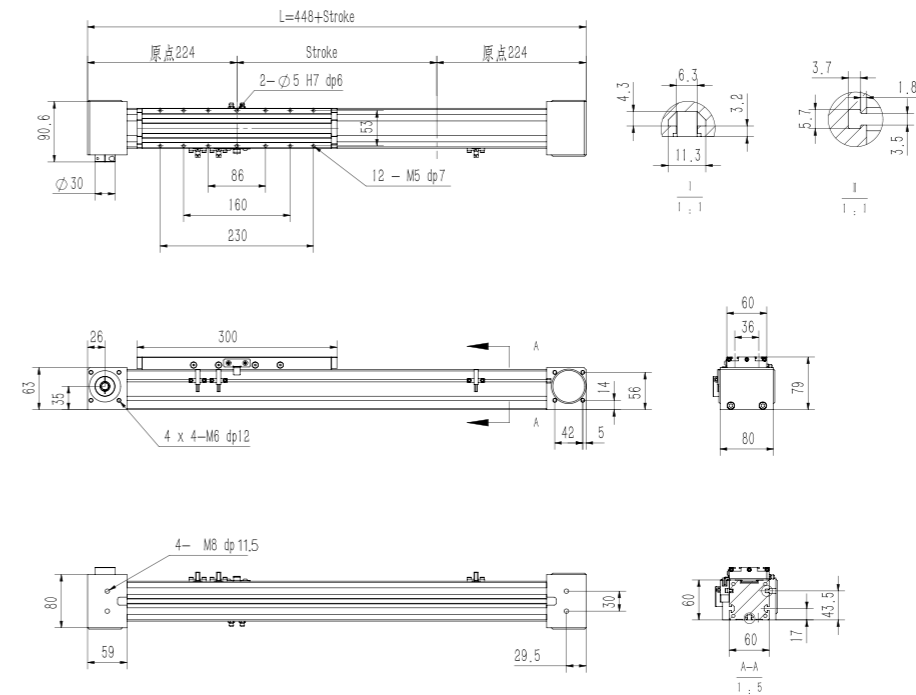
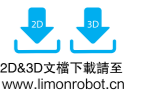


| 行程Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

歐標半密式同步帶驅動型 ITO 40/60/80/100

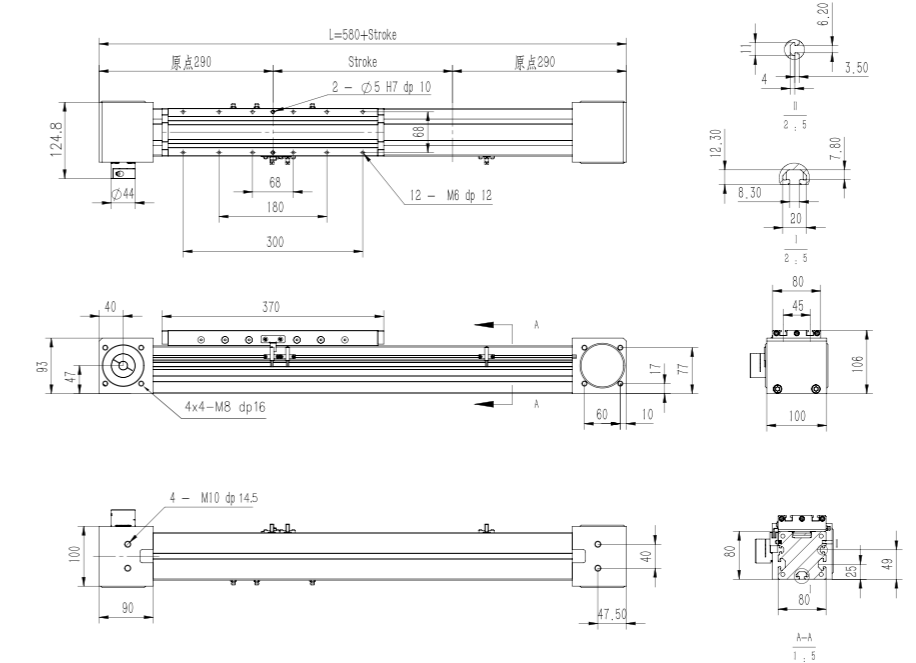
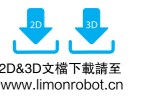
European standard semi-dense synchronous belt drive type

ITO 60-L



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

ITO 80-L



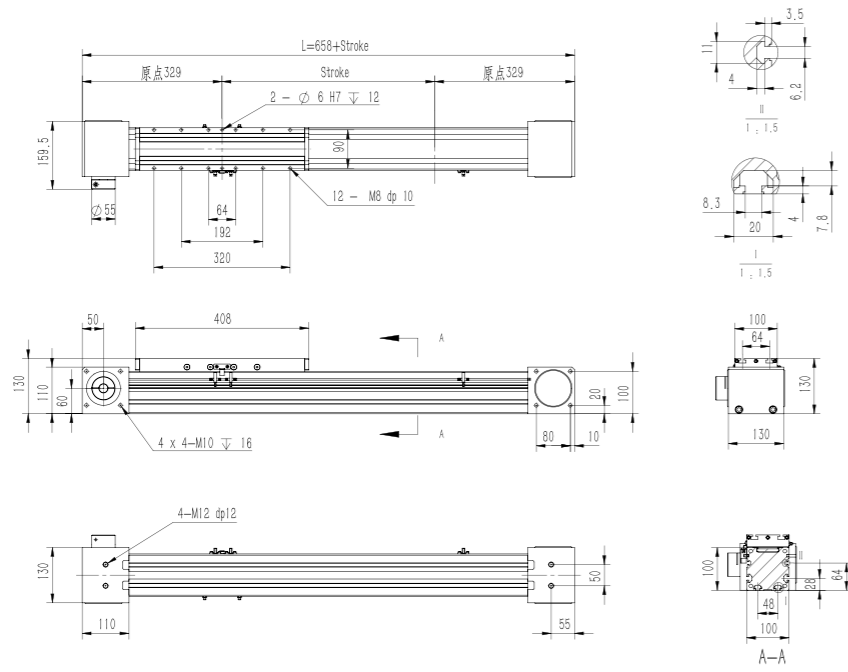
| 行程Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

ITO 40/60/80/100 歐標半密式同步帶驅動型

European standard semi-dense synchronous belt drive type

ITO 100-L

2D&3D文檔下載請至
www.limonrobot.cn



| 行程Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L | 758 | 858 | 958 | 1058 | 1158 | 1258 | 1358 | 1458 | 1558 | 1658 | 1758 | 1858 | 1958 | 2058 | 2158 | 2258 | 2358 | 2458 | 2558 | 2658 |
| 重量 Weight (kg) | 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 |

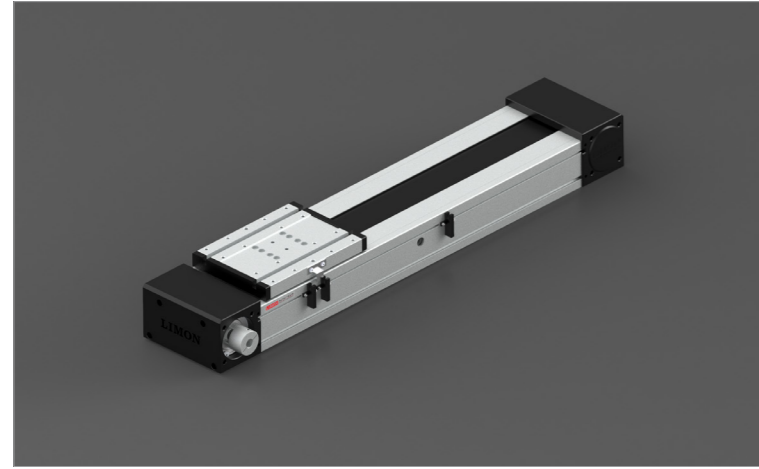
ITO 160 歐標半密式同步帶驅動型

European standard semi-dense synchronous belt drive type

訂購型號代碼 Code

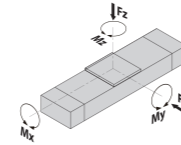
| | | | | | | | | |
|---------------|-------------------|---------------------|--|----------------------|-------------------|------------------------------------|--|------------------------|
| ITO160 | 500 | L | D01 | DB | GB2 | 22 | P3 | A001 |
| 本體型號 Item NO. | 行程 Stroke | 是否加長滑塊 | 馬達方向 Motor Mounting Position | 輔助滑塊 Auxiliary Block | 馬達座型號 Motor type | 联轴器内孔尺寸 Hole dimension of coupling | 限位傳感器數量 Photoelectric Sensor | 特注式樣 Special Order No. |
| ITO160 | 100-4000,間隔Gap100 | 未標注:標準滑塊 L: 加長滑塊 | D01 D02 D03 D04 D05 D06 | 未填寫:單滑塊 DB: 輔助滑塊 | GB2 GB3 GB4 | 22 ^{註1} | 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P209.



最大動態力和力矩

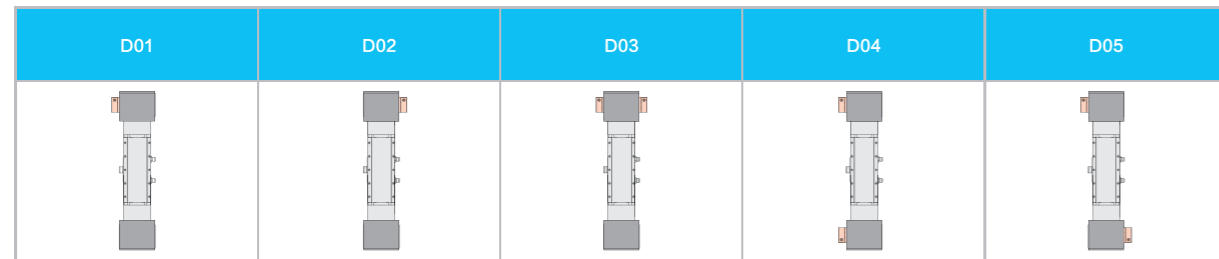
Max Permissible Forces And Torques



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

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

馬達安裝方向 Motor Mounting Position Version



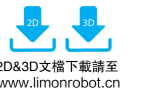
基本規格 Basic Specification

| ITO | | 160 | |
|--------------------------------|---|------------------------|-----|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.05 | |
| | 皮帶輪導程 Pulley Lead (mm) | 176 | |
| | 皮帶型號 Belt Type | 8M-70 | |
| | 最高速度 Maximum Speed (mm/s) | 5000 | |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 160 |
| | | 垂直使用Vertical (kg) | 120 |
| | 最大空載扭矩 Max. No-load Driving Torque (N·m) | 1.2 | |
| 最大扭矩 Max. Driving Torque (N·m) | 112.7 | | |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 100-4000mm / 100 Pitch | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 750W-1000W | |
| | 高剛性直線滑軌 Linear Guide | 20# × 2pcs | |
| | 主機截面最大外形 Max Outline of Main Engine's Cross Section (mm) | 166 × 106 | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | |

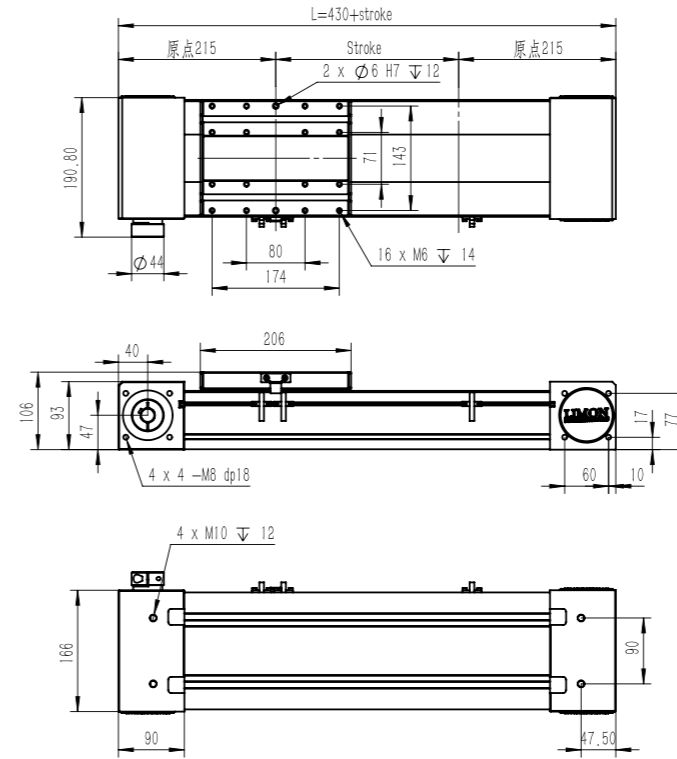
#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。
#Note1: Data changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

歐標半密式同步帶驅動型 ITO 160

European standard semi-dense synchronous belt drive type



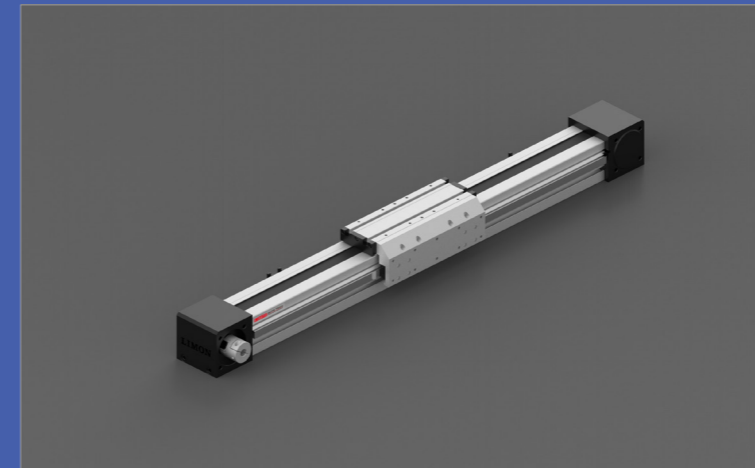
ITO 160



| 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

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



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

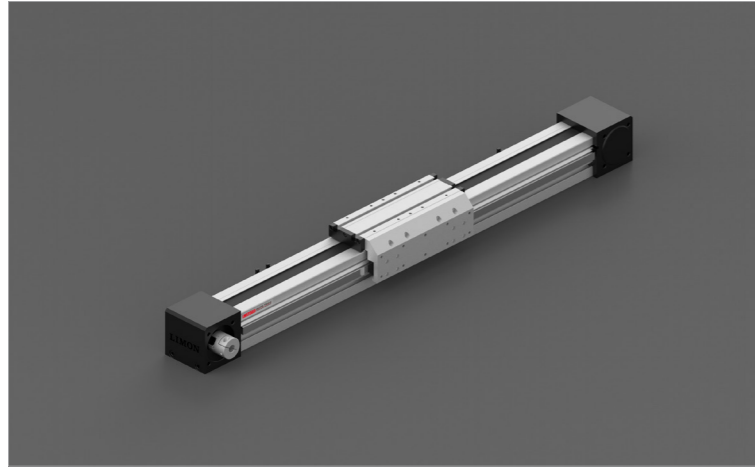
HTO 60/80/100 歐標半密式同步帶驅動側軌加強型

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

訂購型號代碼 Code

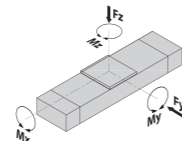
| | | | | | | | | |
|---------------|----------|-------------------|-------------------------|------------|-------------------|-------------------------|-------------------|-------------|
| HTO80 | L | 500 | DB ^{注1} | D01 | GB2 | 22 ^{注3} | P3 | A001 |
| 本體型號 Item NO. | 是否加長滑塊 | 行程 Stroke | 輔助滑塊 | 馬達方向 | 馬達座型號 | 联轴器內孔尺寸 | 限位傳感器數量 | 特注式樣 |
| HTO60 | 未標注:標準滑塊 | 100-4000,間隔Gap100 | 未填寫:單滑塊 | D01 | GB2 ^{注2} | 联轴器內孔尺寸 | P1: 1祇 1PC | |
| HTO80 | L: 加長滑塊 | | DB: 輔助滑塊 | D02 | GB3 | | P2: 2祇 2PCS | |
| HTO100 | | | | D03 | GB4 | | P3: 3祇 3PCS | |
| | | | | D04 | | | 未標記: 無 | |
| | | | | D05 | | | No Mark/No Sensor | |
| | | | | D06 | | | | |

注: 輔助滑塊選項相關參數參見樣本P209.



最大動態力和力矩

Max Permissible Forces And Torques

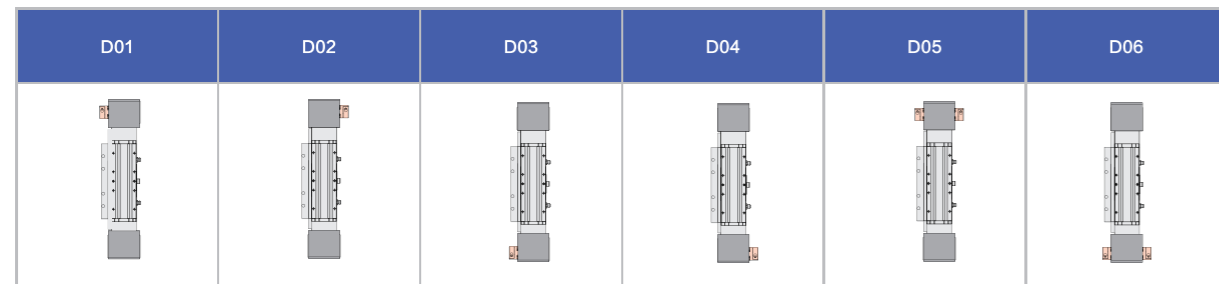


| 規格 Type | 60 | 80 | 80L | 100 | 100L |
|------------|------|------|-------|------|-------|
| F(y) (N) | 5300 | 6980 | 10470 | 9702 | 14554 |
| F(z) (N) | 5300 | 6980 | 10470 | 9702 | 14554 |
| M(x) (N·m) | 82 | 118 | 178 | 216 | 374 |
| M(y) (N·m) | 118 | 333 | 590 | 765 | 1080 |
| M(z) (N·m) | 118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

除了滿足最大負載和力矩外, 還必須滿足以下公式:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| HTO | | 60 | 80 | 80L | 100 | 100L | |
|--|--|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------|
| 技術參數 | 位置重複精度 Repetitive Accuracy (mm) | ±0.05 | | | | | |
| | 皮帶輪導程 Pulley Lead (mm) | 130 | 176 | 176 | 224 | 224 | |
| | 皮帶型號 Belt Type | 5M-25 | 8M-30 | 8M-30 | 8M-50 | 8M-50 | |
| | 最高速度 Maximum Speed (mm/s) | 5000 | 5000 | 5000 | 5000 | 5000 | |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 55 | 100 | 150 | 165 | 247.5 |
| | | 垂直使用 Vertical (kg) | 25 | 62 | 93 | 105 | 157.5 |
| 最大空載扭矩 Max. No-load Driving Torque (N·m) | 0.5 | 0.9 | 0.9 | 1.4 | 1.4 | | |
| 最大扭矩 Max. Driving Torque (N·m) | 13.3 | 49.8 | 49.8 | 105.7 | 105.7 | | |
| 基本規格 | 標準行程 Stroke (mm) | 100-4000mm/100 pitch | | | | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 200/400 | 200/400/750 | 200/400/750 | 750/1000 | 750/1000 | |
| | 高剛性直線滑軌 Linear Guide | 15# × 2PCS | 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) | 102.5 × 79 | 106 × 122 | 106 × 122 | 130 × 151 | 130 × 151 | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | | | | | |

注1: 輔助滑塊選項相關參數參見樣本P209.

注2: 馬達座型號相關參數參見樣本P38.

注3: 減速機端联轴器孔徑尺寸

注4: 減速機端联轴器孔徑尺寸

Note3: Hole dimension of coupling (reducer side)

Note4: 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.

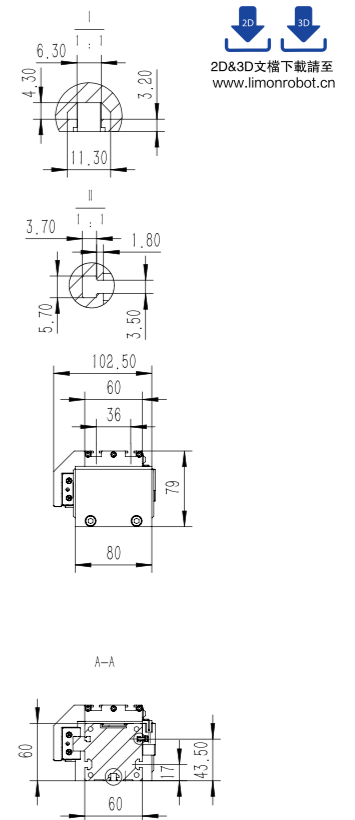
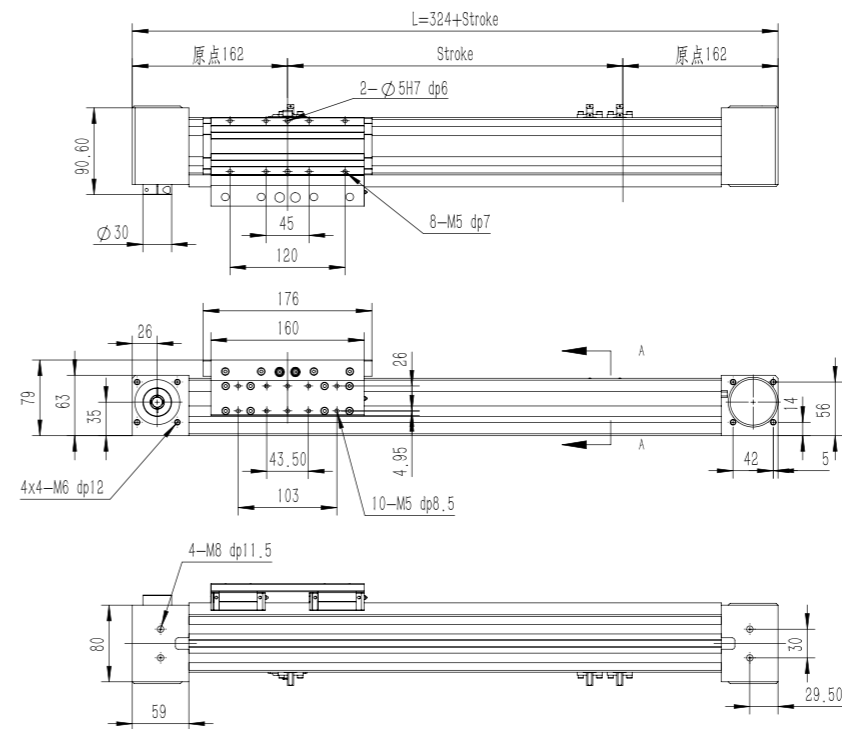
Note4: Data changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

www.limonrobot.cn

HTO 60/80/100 歐標半密式同步帶驅動側軌加強型

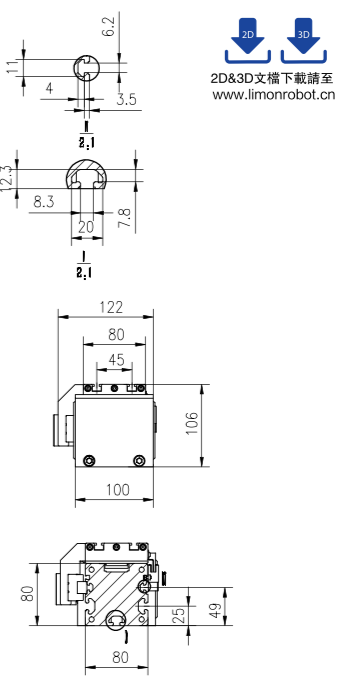
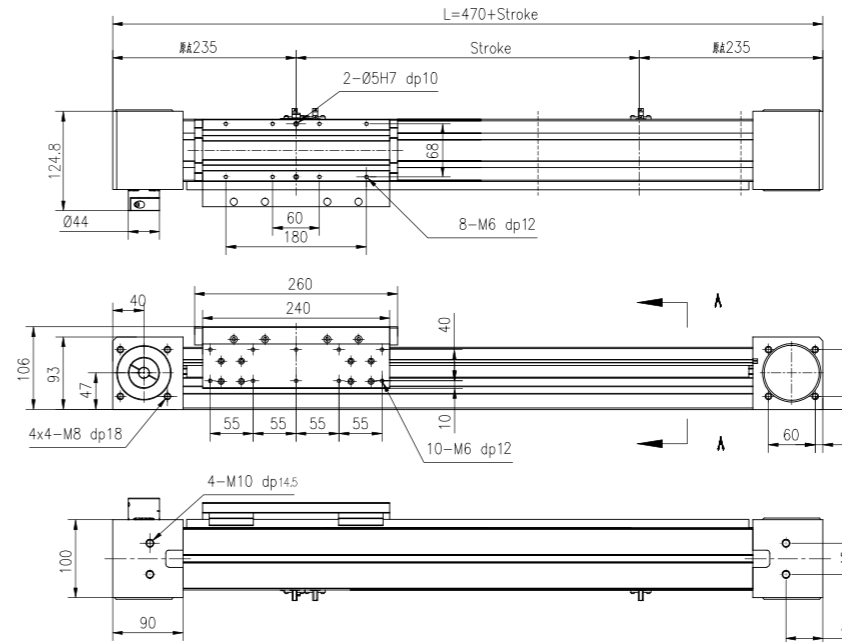
European standard semi-dense synchronous belt drive side rail reinforced type

HTO 60



| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L | 424 | 524 | 624 | 724 | 824 | 924 | 1024 | 1124 | 1224 | 1324 | 1424 | 1524 | 1624 | 1724 | 1824 | 1924 | 2024 | 2124 | 2224 | 2324 |
| 重量 Weight (kg) | 4.8 | 5.4 | 6.1 | 6.7 | 7.4 | 8.0 | 8.7 | 9.3 | 10.0 | 10.6 | 11.3 | 12.0 | 12.6 | 13.3 | 13.9 | 14.6 | 15.2 | 15.9 | 16.5 | 17.2 |

HTO 80

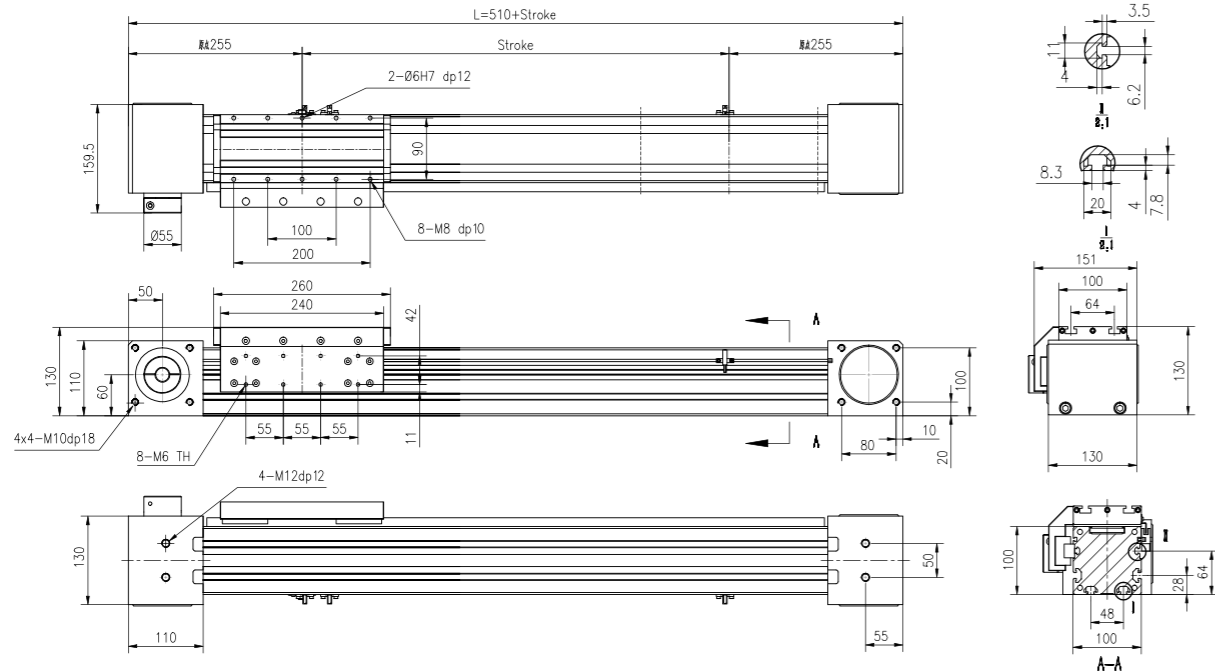
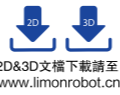


| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L | 570 | 670 | 770 | 870 | 970 | 1070 | 1170 | 1270 | 1370 | 1470 | 1570 | 1670 | 1770 | 1870 | 1970 | 2070 | 2170 | 2270 | 2370 | 2470 |
| 重量 Weight (kg) | 10.4 | 11.4 | 12.4 | 13.4 | 14.4 | 15.4 | 16.4 | 17.4 | 18.4 | 19.4 | 20.4 | 21.4 | 22.4 | 23.4 | 24.4 | 25.4 | 26.4 | 27.4 | 28.4 | 29.4 |
| 行程 Stroke (mm) | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 |
| L | 2570 | 2670 | 2770 | 2870 | 2970 | 3070 | 3170 | 3270 | 3370 | 3470 | 3570 | 3670 | 3770 | 3870 | 3970 | 4070 | 4170 | 4270 | 4370 | 4470 |
| 重量 Weight (kg) | 30.4 | 31.4 | 32.4 | 33.4 | 34.4 | 35.4 | 36.4 | 37.4 | 38.4 | 39.4 | 40.4 | 41.4 | 42.4 | 43.4 | 44.4 | 45.4 | 46.4 | 47.4 | 48.4 | 49.4 |

HTO 60/80/100 歐標半密式同步帶驅動側軌加強型

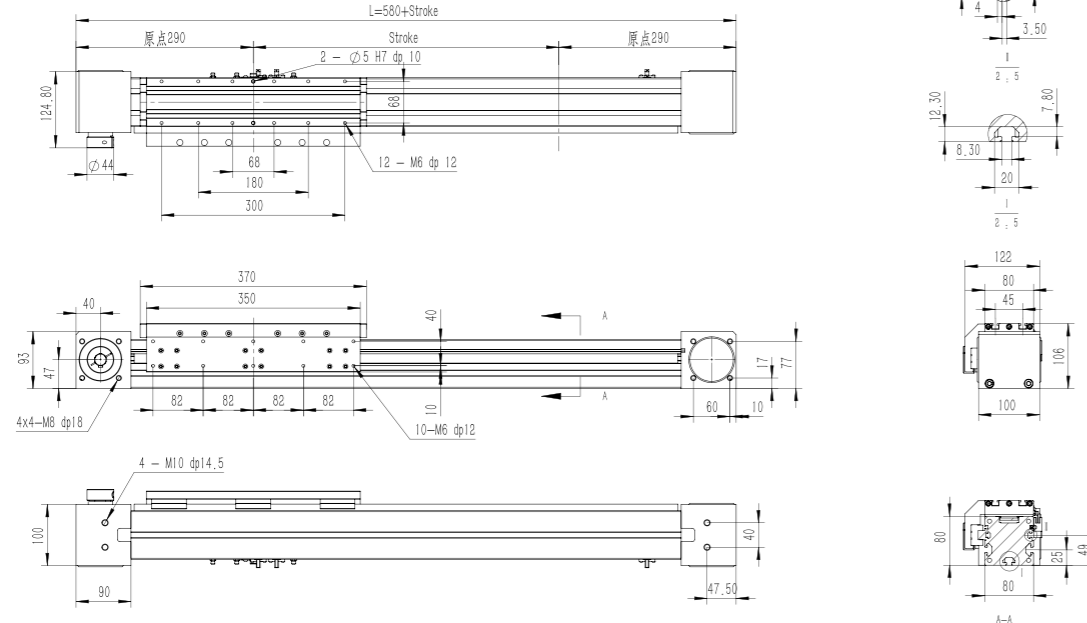
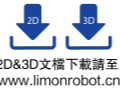
European standard semi-dense synchronous belt drive side rail reinforced type

HTO 100



| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 610 | 710 | 810 | 910 | 1010 | 1110 | 1210 | 1310 | 1410 | 1510 | 1610 | 1710 | 1810 | 1910 | 2010 | 2110 | 2210 | 2310 | 2410 | 2510 |
| 重量 Weight (kg) | 17.4 | 18.85 | 20.30 | 21.75 | 23.20 | 24.65 | 26.10 | 27.55 | 29.00 | 30.45 | 31.90 | 33.35 | 34.80 | 36.25 | 37.70 | 39.15 | 40.60 | 42.06 | 43.50 | 44.95 |
| 行程 Stroke (mm) | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 |
| L | 2610 | 2710 | 2810 | 2910 | 3010 | 3110 | 3210 | 3310 | 3410 | 3510 | 3610 | 3710 | 3810 | 3910 | 4010 | 4110 | 4210 | 4310 | 4410 | 4510 |
| 重量 Weight (kg) | 46.40 | 47.85 | 49.30 | 50.75 | 52.20 | 53.65 | 55.10 | 56.55 | 58.00 | 59.45 | 60.90 | 62.35 | 63.80 | 65.25 | 66.70 | 68.15 | 69.60 | 71.05 | 72.50 | 73.95 |

HTO 80L

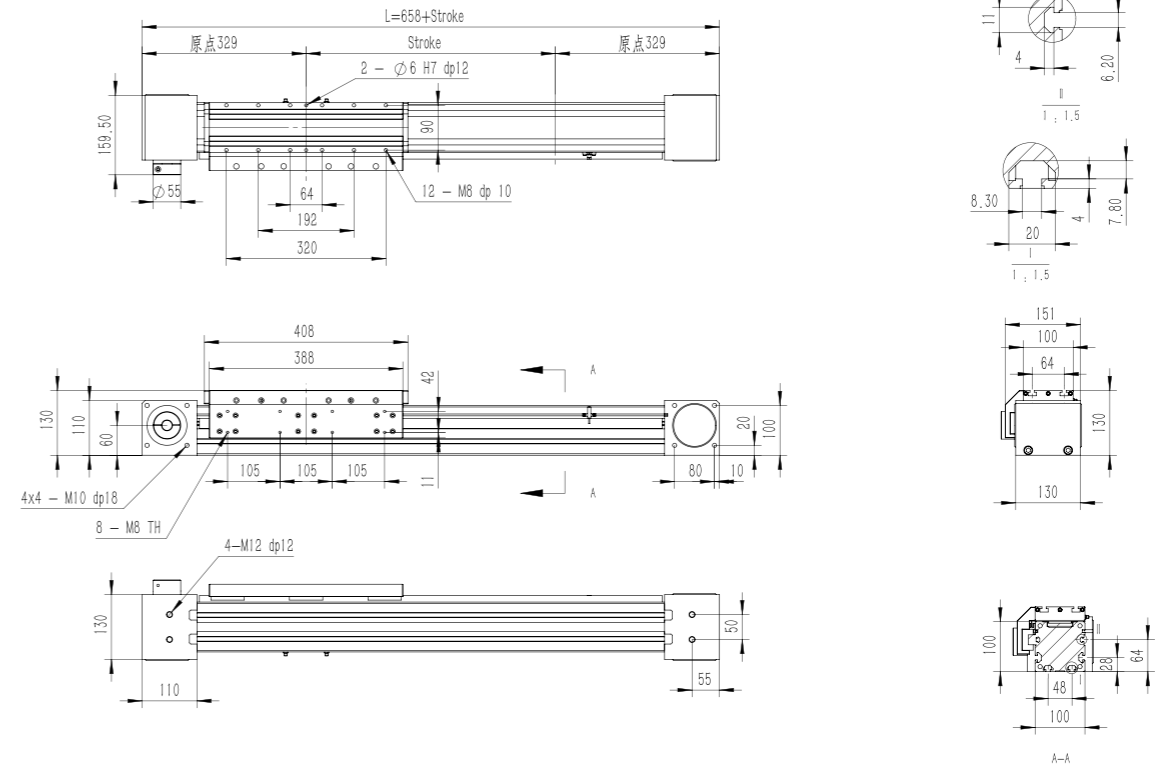
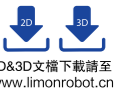


| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|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

HTO 60/80/100 歐標半密式同步帶驅動側軌加強型

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

HTO 100L



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

歐標全密式同步帶驅動型

European standard fully dense synchronous belt drive type



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

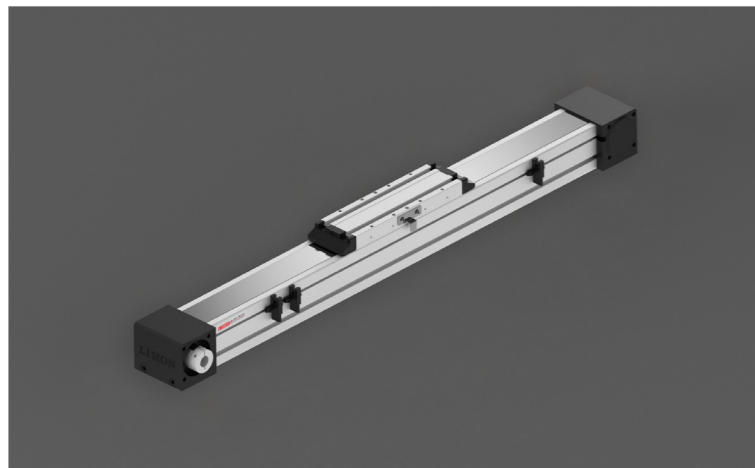
ITC 60/80/100 歐標全密式同步帶驅動型

European standard fully dense synchronous belt drive type

訂購型號代碼 Code

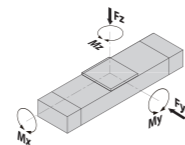
| | | | | | | | | |
|----------------------|--------------------|----------------------|-------------------------------------|-----------------------------|-------------------------------------|---|---|-------------------------------|
| ITC60 | 500 | L | D01 | DB <small>注</small> | GB2 | 22 <small>注3</small> | 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 | 馬達座型號 Motor type | 联轴器內孔尺寸 Hole dimension of coupling | 限位傳感器數量 Photoelectric Sensor | 特注式樣 Special Order No. |
| ITC 60 | 100-4000, 間隔Gap100 | 未標注: 標準滑塊 L: 加長滑塊 | D01 D02 D03 D04 D05 | 未標注: 標準滑塊 DB: 輔助滑塊 | GB2 <small>注2</small> GB3 GB4 | 22 | 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P209.



最大動態力和力矩

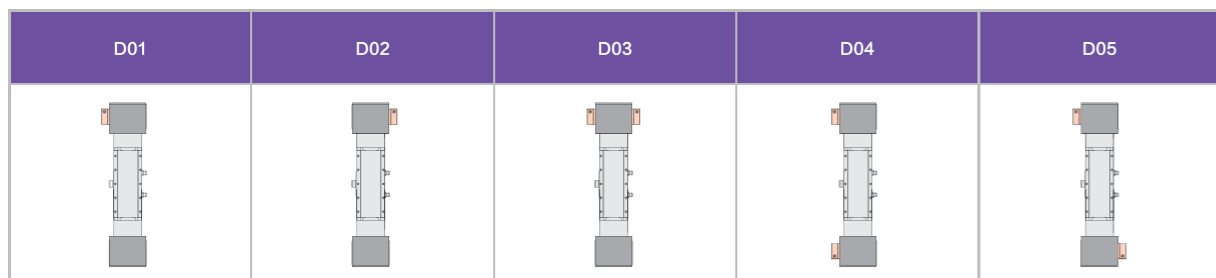
Max Permissible Forces And Torques



| 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 | | | 5000 | | 5000 | |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 30 | 45 | 50 | 75 | 80 | 120 |
| | | 垂直使用 Vertical (kg) | 20 | 30 | 40 | 60 | 60 | 90 |
| 最大空載扭矩 Max. No-load Driving Torque (N·m) | 0.35 | 0.35 | 0.5 | 0.5 | 0.9 | 0.9 | | |
| 最大扭矩 Max. Driving Torque (N·m) | 13.3 | 13.3 | 49.8 | 49.5 | 105.7 | 105.7 | | |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 100-4000mm/100pitch | | | | | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 200 / 400 | | 400 / 750 | | 750 / 1000 | | |
| | 高剛性直線滑軌 Linear Guide | 15# × 1PCS | | 20# × 1PCS | | 25# × 1PCS | | |
| | 主機截面最大外形 Max Outline of Main Engine's Cross Section (mm) | 80 × 79 | | 100 × 106 | | 130 × 130 | | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | | | | | | |

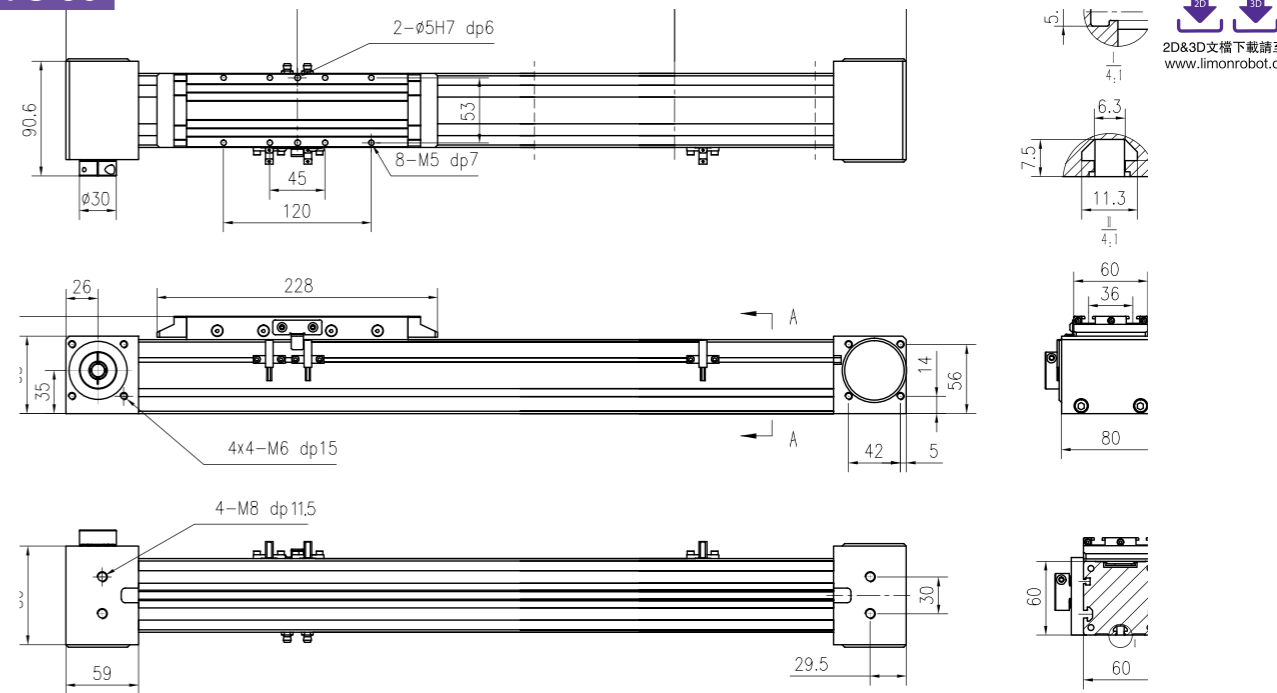
#注1: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。

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

歐標全密式同步帶驅動型 ITC 60/80/100

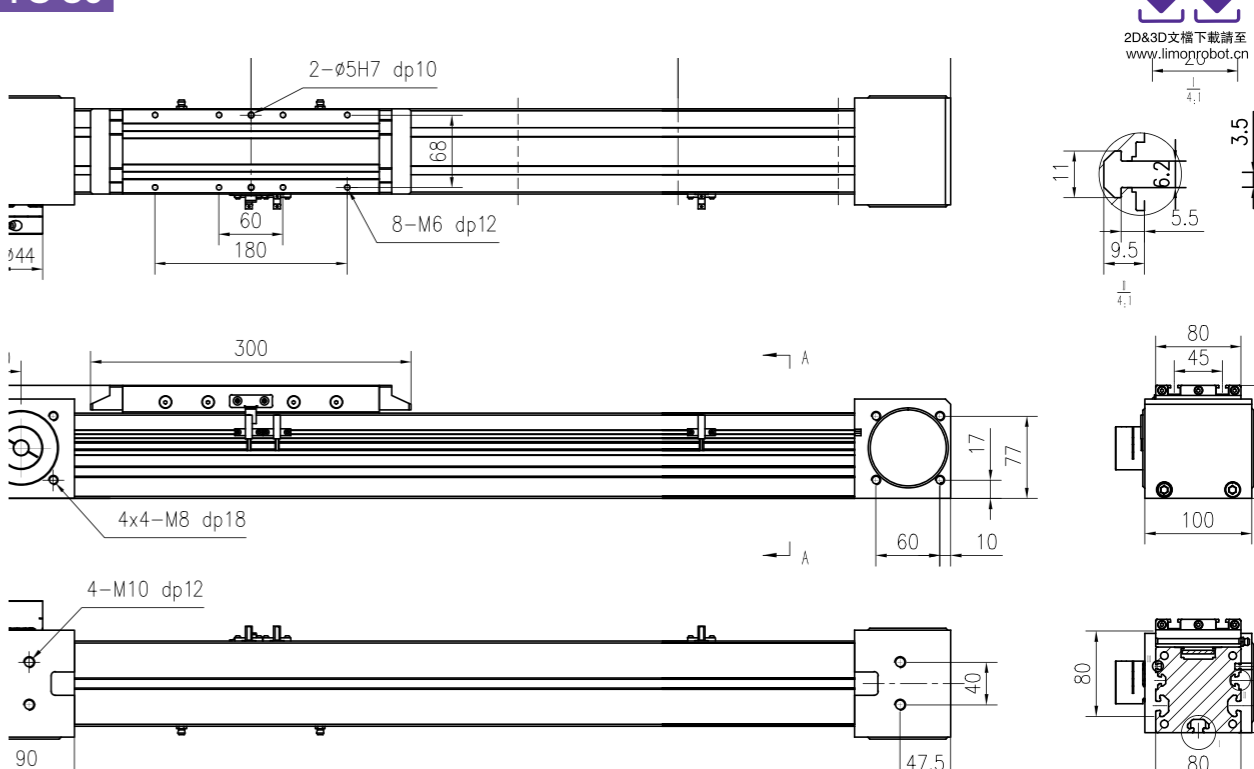
European standard fully dense synchronous belt drive type

ITC 60



| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L | 476 | 576 | 676 | 776 | 876 | 976 | 1076 | 1176 | 1276 | 1376 | 1476 | 1576 | 1676 | 1776 | 1876 | 1976 | 2076 | 2176 | 2276 | 2376 |
| 重量 Weight (kg) | 2.8 | 3.3 | 3.8 | 4.3 | 4.9 | 5.4 | 5.9 | 6.4 | 6.9 | 7.4 | 7.9 | 8.4 | 8.9 | 9.4 | 10 | 10.5 | 11 | 11.5 | 12 | 12.5 |
| 行程 Stroke (mm) | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 |
| L | 2476 | 2576 | 2676 | 2776 | 2876 | 2976 | 3076 | 3176 | 3276 | 3376 | 3476 | 3576 | 3676 | 3776 | 3876 | 3976 | 4076 | 4176 | 4276 | 4376 |
| 重量 Weight (kg) | 13 | 13.5 | 14 | 14.5 | 15.1 | 15.6 | 16.1 | 16.6 | 17.1 | 17.6 | 18.1 | 18.6 | 19.1 | 19.6 | 20.2 | 20.7 | 21.2 | 21.7 | 22.2 | 22.7 |

ITC 80

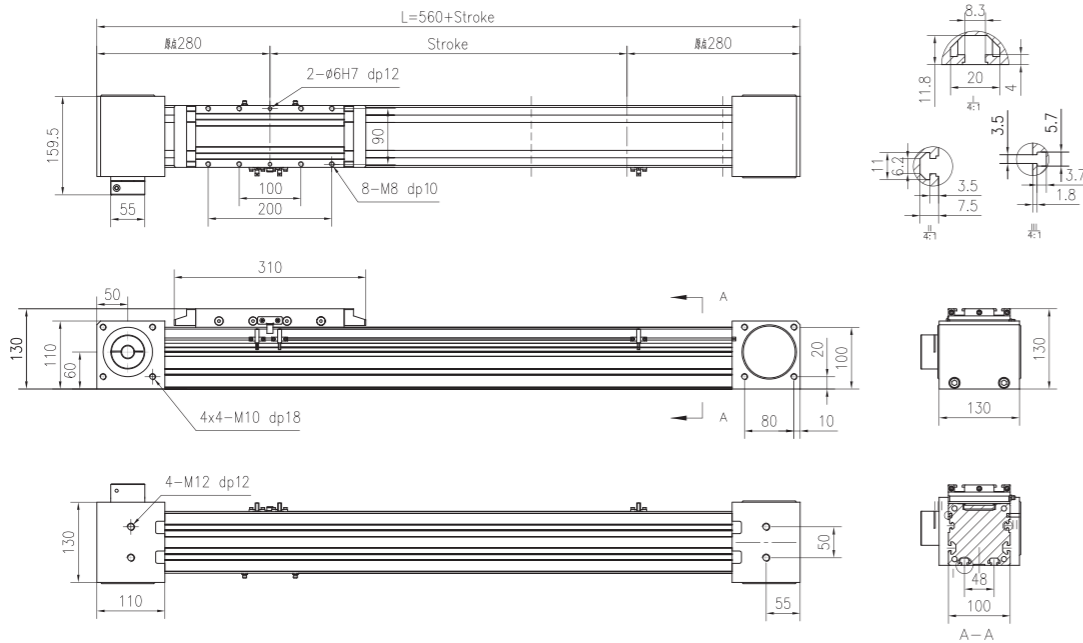


| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

ITC 60/80/100 歐標全密式同步帶驅動型

European standard fully dense synchronous belt drive type

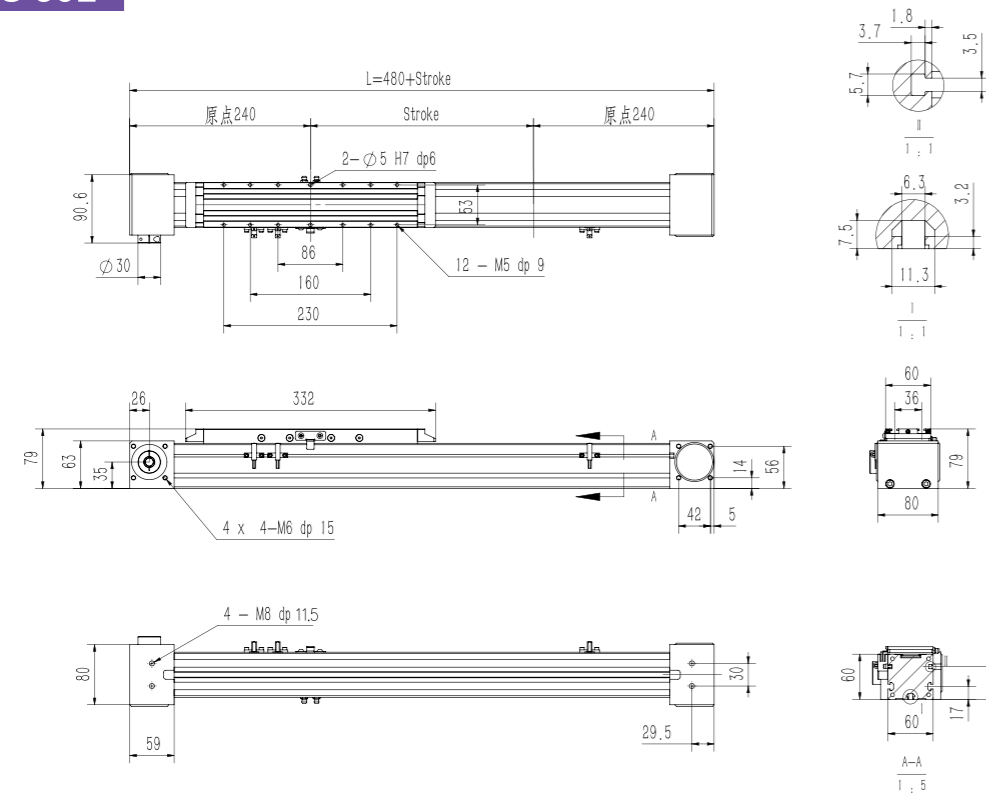
ITC 100



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 | 660 | 760 | 860 | 960 | 1060 | 1160 | 1260 | 1360 | 1460 | 1560 | 1660 | 1760 | 1860 | 1960 | 2060 | 2160 | 2260 | 2360 | 2460 | 2560 |
| 重量 Weight (kg) | 16.1 | 17.4 | 18.6 | 19.8 | 21.1 | 22.3 | 23.5 | 24.7 | 26 | 27.2 | 28.4 | 29.7 | 30.9 | 32.1 | 33.4 | 34.6 | 35.8 | 37 | 38.3 | 39.5 |
| 行程Stroke (mm) | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 |
| L | 2660 | 2760 | 2860 | 2960 | 3060 | 3160 | 3260 | 3360 | 3460 | 3560 | 3660 | 3760 | 3860 | 3960 | 4060 | 4160 | 4260 | 4360 | 4460 | 4560 |
| 重量 Weight (kg) | 40.7 | 42 | 43.2 | 44.4 | 45.7 | 46.9 | 48.1 | 49.3 | 50.6 | 51.8 | 53 | 54.3 | 55.5 | 56.7 | 58 | 59.2 | 60.4 | 61.6 | 62.9 | 64.1 |

ITC 60L



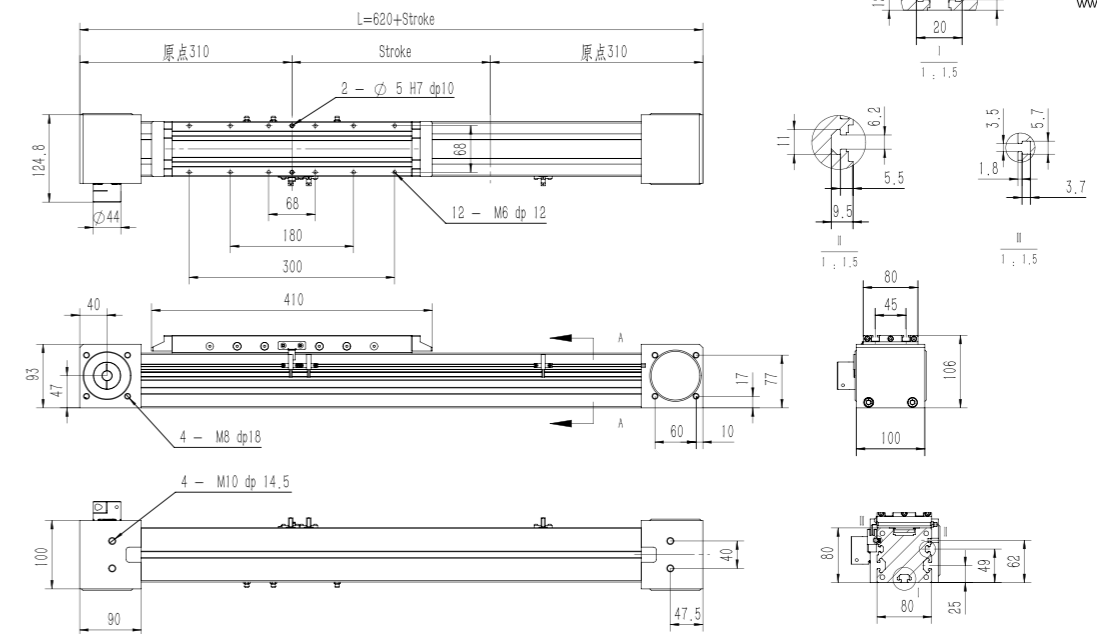
2D&3D文檔下載請至
www.limonrobot.cn

| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
| L | 580 | 680 | 780 | 880 | 980 | 1080 | 1180 | 1280 | 1380 | 1480 | 1580 | 1680 | 1780 | 1880 | 1980 | 2080 | 2180 | 2280 | 2380 | 2480 |
| 重量 Weight (kg) | 3.1 | 3.6 | 4.1 | 4.6 | 5.1 | 5.6 | 6.1 | 6.6 | 7.1 | 7.6 | 8.1 | 8.6 | 9.1 | 9.6 | 10.1 | 10.6 | 11.1 | 11.6 | 12.1 | 12.6 |
| 行程Stroke (mm) | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 |
| L | 2580 | 2680 | 2780 | 2880 | 2980 | 3080 | 3180 | 3280 | 3380 | 3480 | 3580 | 3680 | 3780 | 3880 | 3980 | 4080 | 4180 | 4280 | 4380 | 4480 |
| 重量 Weight (kg) | 13.1 | 13.6 | 14.1 | 14.6 | 15.1 | 15.6 | 16.1 | 16.6 | 17.1 | 17.6 | 18.1 | 18.6 | 19.1 | 19.6 | 20.1 | 20.6 | 21.1 | 21.6 | 22.1 | 22.6 |

歐標全密式同步帶驅動型 ITC 60/80/100

European standard fully dense synchronous belt drive type

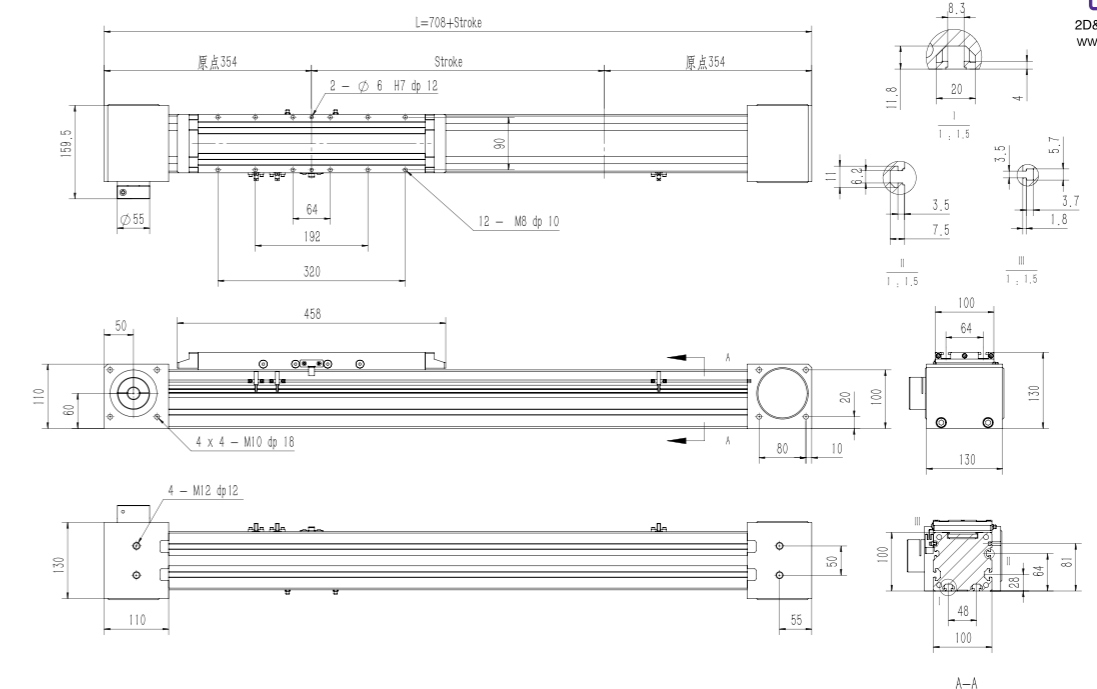
ITC 80L



2D&3D文檔下載請至
www.limonrobot.cn

| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
| L | 720 | 820 | 920 | 1020 | 1120 | 1220 | 1320 | 1420 | 1520 | 1620 | 1720 | 1820 | 1920 | 2020 | 2120 | 2220 | 2320 | 2420 | 2520 | 2620 |
| 重量 Weight (kg) | 9.8 | 10.6 | 11.4 | 12.2 | 13 | 13.8 | 14.6 | 15.4 | 16.2 | 17 | 17.8 | 18.6 | 19.4 | 20.2 | 21 | 21.8 | 22.6 | 23.4 | 24.2 | 25 |
| 行程Stroke (mm) | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 |
| L | 2720 | 2820 | 2920 | 3020 | 3120 | 3220 | 3320 | 3420 | 3520 | 3620 | 3720 | 3820 | 3920 | 4020 | 4120 | 4220 | 4320 | 4420 | 4520 | 4620 |
| 重量 Weight (kg) | 25.8 | 26.6 | 27.4 | 28.2 | 29 | 29.8 | 30.6 | 31.4 | 32.2 | 33 | 33.8 | 34.6 | 35.4 | 36.2 | 37 | 37.8 | 38.6 | 39.4 | 40.2 | 41 |

ITC 100L

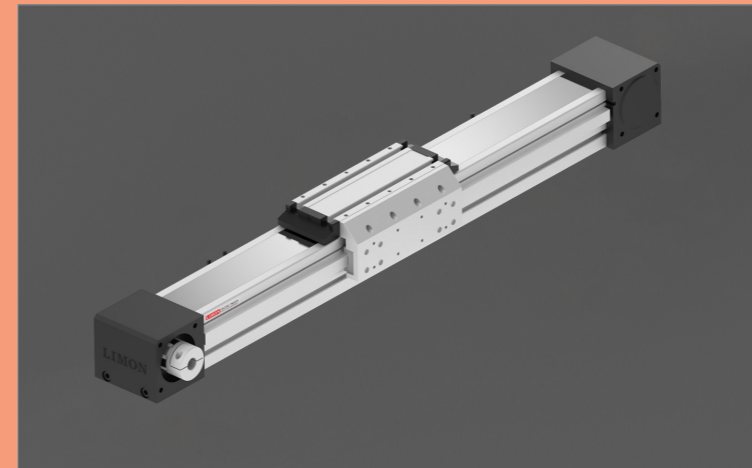


2D&3D文檔下載請至
www.limonrobot.cn

| | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
| L | 808 | 908 | 1008 | 1108 | 1208 | 1308 | 1408 | 1508 | 1608 | 1708 | 1808 | 1908 | 2008 | 2108 | 2208 | 2308 | 2408 | 2508 | 2608 | 2708 |
| 重量 Weight (kg) | 16.6 | 17.9 | 19.2 | 20.5 | 21.8 | 23.1 | 24.4 | 25.7 | 27 | 28.3 | 29.6 | 30.9 | 32.2 | 33.5 | 34.8 | 36.1 | 37.4 | 38.7 | 40 | 41.3 |
| 行程Stroke (mm) | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 |
| L | 2808 | 2908 | 3008 | 3108 | 3208 | 3308 | 3408 | 3508 | 3608 | 3708 | 3808 | 3908 | 4008 | 4108 | 4208 | 4308 | 4408 | 4508 | 4608 | 4708 |
| 重量 Weight (kg) | 42.6 | 43.9 | 45.2 | 46.5 | 47.8 | 49.1 | 50.4 | 51.7 | 53 | 54.3 | 55.6 | 56.9 | 58.2 | 59.5 | 60.8 | 62.1 | 63.4 | 64.7 | 66 | 67.3 |

歐標全密式同步帶驅動側軌加強型

European standard fully dense synchronous belt drive side rail reinforced type



HTC 80 / 80L / 100 / 100L

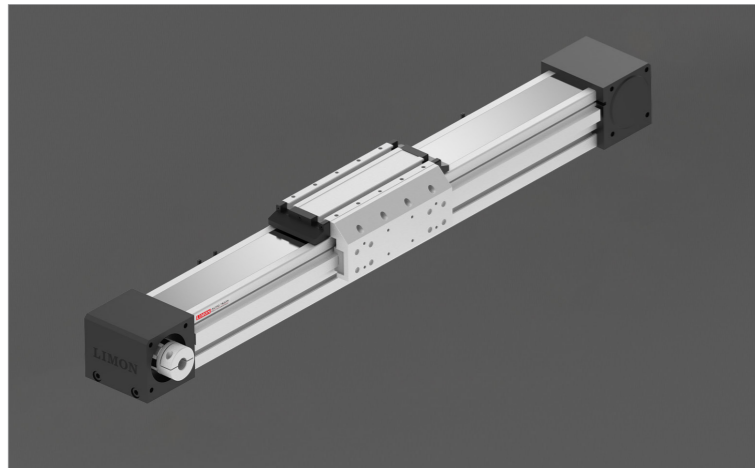
HTC 80/100 歐標全密式同步帶驅動側軌加強型

European standard fully dense synchronous belt drive side rail reinforced type

訂購型號代碼 Code

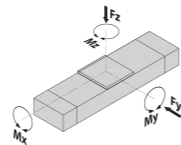
| | | | | | | | | |
|---------------|-----------|--------------------|-----------|------------|------------|-----------|-------------------|-------------------|
| HTC80 | L | 500 | DB | D01 | GB2 | 22 | P3 | A001 |
| 本體型號 Item NO. | 是否加長滑塊 | 行程 Stroke | 輔助滑塊 | 馬達方向 | 馬達座型號 | 聯軸器內孔尺寸 | 限位傳感器數量 | 特注式樣 |
| HTC80 | 未標注: 標準滑塊 | 100-4000, 間隔Gap100 | 未填寫: 單滑塊 | D01 | GB2 | 聯軸器內孔尺寸 | P1: 1祇 1PC | Special Order No. |
| HTC100 | L: 加長滑塊 | | DB: 輔助滑塊 | D02 | GB3 | 未標記: 無 | P2: 2祇 2PCS | |
| | | | | D03 | | | P3: 3祇 3PCS | |
| | | | | D05 | | | 未標記: 無 | |
| | | | | D06 | | | No Mark/No Sensor | |

注: 輔助滑塊選項相關參數參見樣本P209.



最大動態力和力矩

Max Permissible Forces And Torques



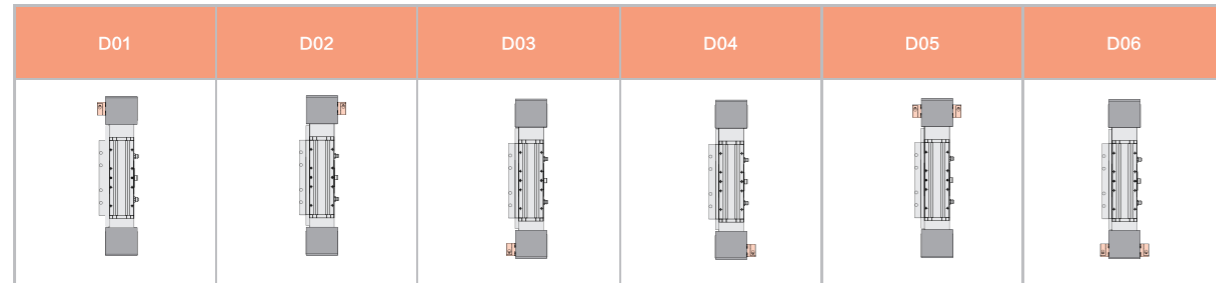
| 規格 Type | 80 | 80L | 100 | 100L |
|------------|------|-------|------|-------|
| F(y) (N) | 6980 | 10470 | 9702 | 14554 |
| F(z) (N) | 6980 | 10470 | 9702 | 14554 |
| M(x) (N·m) | 118 | 178 | 216 | 374 |
| M(y) (N·m) | 333 | 590 | 765 | 1080 |
| M(z) (N·m) | 333 | 590 | 765 | 1080 |

除了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 | 80L | 100 | 100L | |
|--------------------------------|--|----------------------|-------|---------------------|------|-------|
| 技術參數 | 位置重複精度 Repetitive Accuracy (mm) | ±0.05 | | | | |
| | 皮帶輪導程 Pulley Lead (mm) | 176 | | 224 | | |
| | 皮帶型號 Belt Type | 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) | 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 | 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 | | |
| | 主機載面最大外形 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: 輔助滑塊選項相關參數參見樣本P209.

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

注2: 馬達座型號相關參數參見樣本P38.

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

注3: 減速機端聯軸器孔徑尺寸

Note3: Hole dimension of coupling (reducer side)

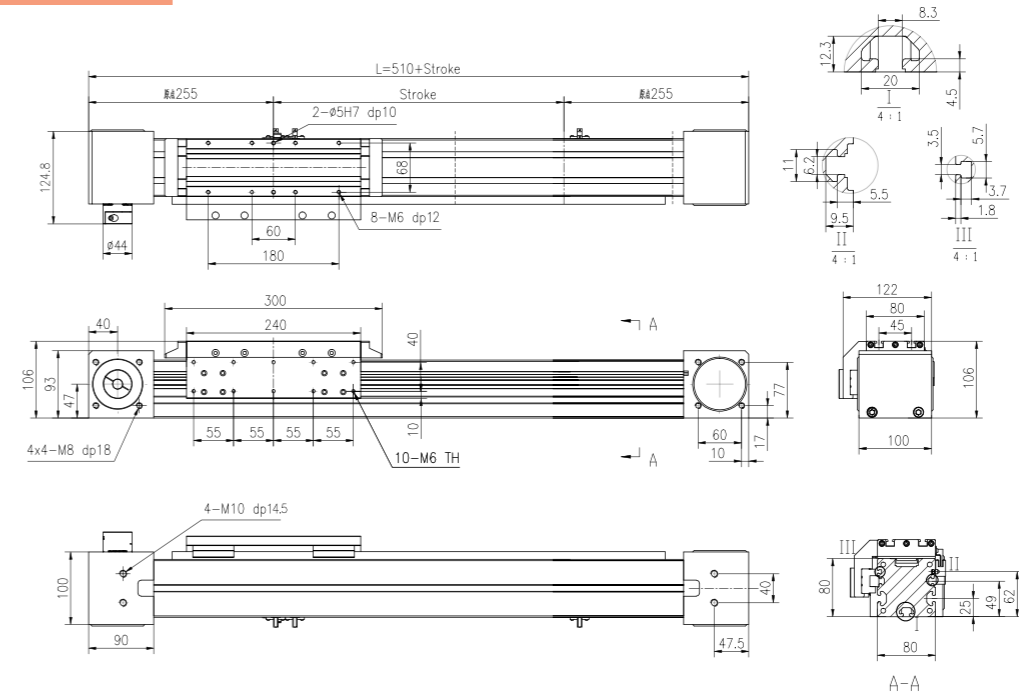
注4: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件.

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

歐標全密式同步帶驅動側軌加強型 HTC 80/100

European standard fully dense synchronous belt drive side rail reinforced type

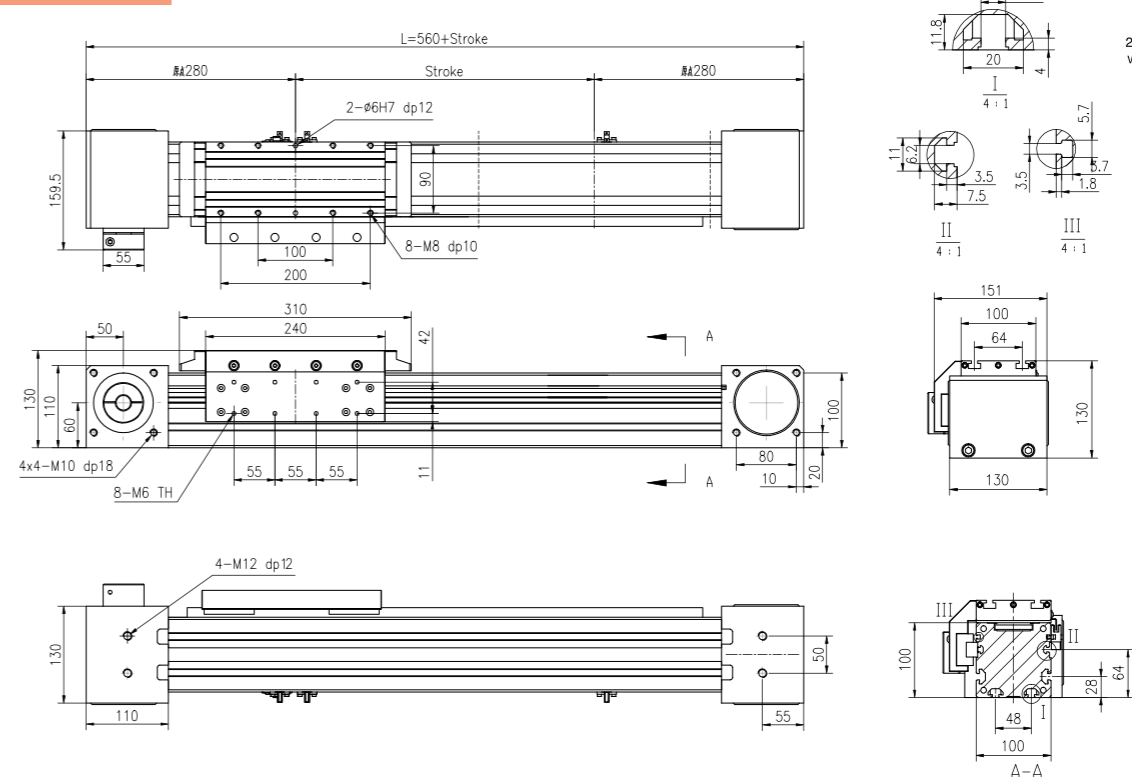
HTC 80



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 | 610 | 710 | 810 | 910 | 1010 | 1110 | 1210 | 1310 | 1410 | 1510 | 1610 | 1710 | 1810 | 1910 | 2010 | 2110 | 2210 | 2310 | 2410 | 2510 |
| 重量 Weight (kg) | 11.07 | 12.05 | 13.05 | 14.01 | 14.99 | 15.97 | 16.95 | 17.93 | 18.91 | 19.89 | 20.87 | 21.85 | 22.83 | 23.81 | 24.79 | 25.77 | 26.75 | 27.73 | 28.71 | 29.69 |
| 行程 Stroke (mm) | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 |
| L | 2610 | 2710 | 2810 | 2910 | 3010 | 3110 | 3210 | 3310 | 3410 | 3510 | 3610 | 3710 | 3810 | 3910 | 4010 | 4110 | 4210 | 4310 | 4410 | 4510 |
| 重量 Weight (kg) | 30.67 | 31.65 | 32.63 | 33.61 | 34.59 | 35.57 | 36.55 | 37.53 | 38.51 | 39.49 | 40.47 | 41.45 | 42.43 | 43.41 | 44.39 | 45.37 | 46.35 | 47.33 | 48.31 | 49.28 |

HTC 100



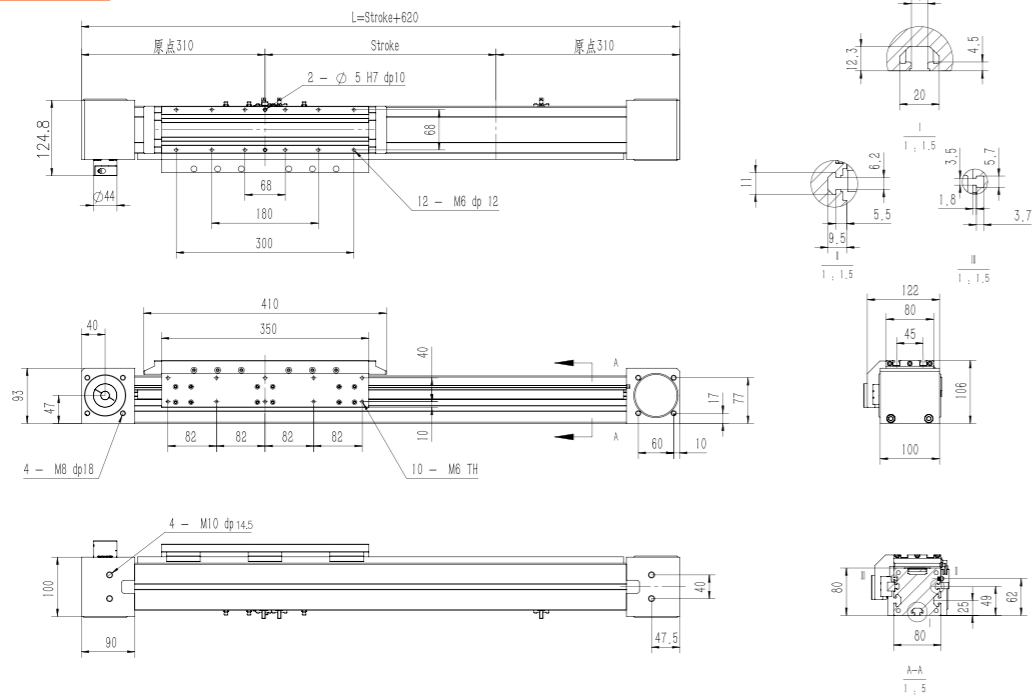
2D&3D文檔下載請至
www.limonrobot.cn

| 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 | 660 | 760 | 860 | 960 | 1060 | 1160 | 1260 | 1360 | 1460 | 1560 | 1660 | 1760 | 1860 | 1960 | 2060 | 2160 | 2260 | 2360 | 2460 | 2560 |
| 重量 Weight (kg) | 18.13 | 19.58 | 21.03 | 22.48 | 23.93 | 25.38 | 26.83 | 28.28 | 29.73 | 31.18 | 32.63 | 34.08 | 35.53 | 36.98 | 38.43 | 39.88 | 41.33 | 42.78 | 44.23 | 45.68 |
| 行程 Stroke (mm) | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 |
| L | 2660 | 2760 | 2860 | 2960 | 3060 | 3160 | 3260 | 3360 | 3460 | 3560 | 3660 | 3760 | 3860 | 3960 | 4060 | 4160 | 4260 | 4360 | 4460 | 4560 |
| 重量 Weight (kg) | 47.13 | 48.58 | 50.03 | 51.48 | 52.93 | 54.38 | 55.83 | 57.28 | 58.73 | 60.18 | 61.63 | 63.08 | 64.53 | 65.98 | 67.43 | 68.88 | 70.33 | 71.78 | 73.23 | 74.68 |

HTC 80/100 歐標全密式同步帶驅動側軌加強型

European standard fully dense synchronous belt drive side rail reinforced type

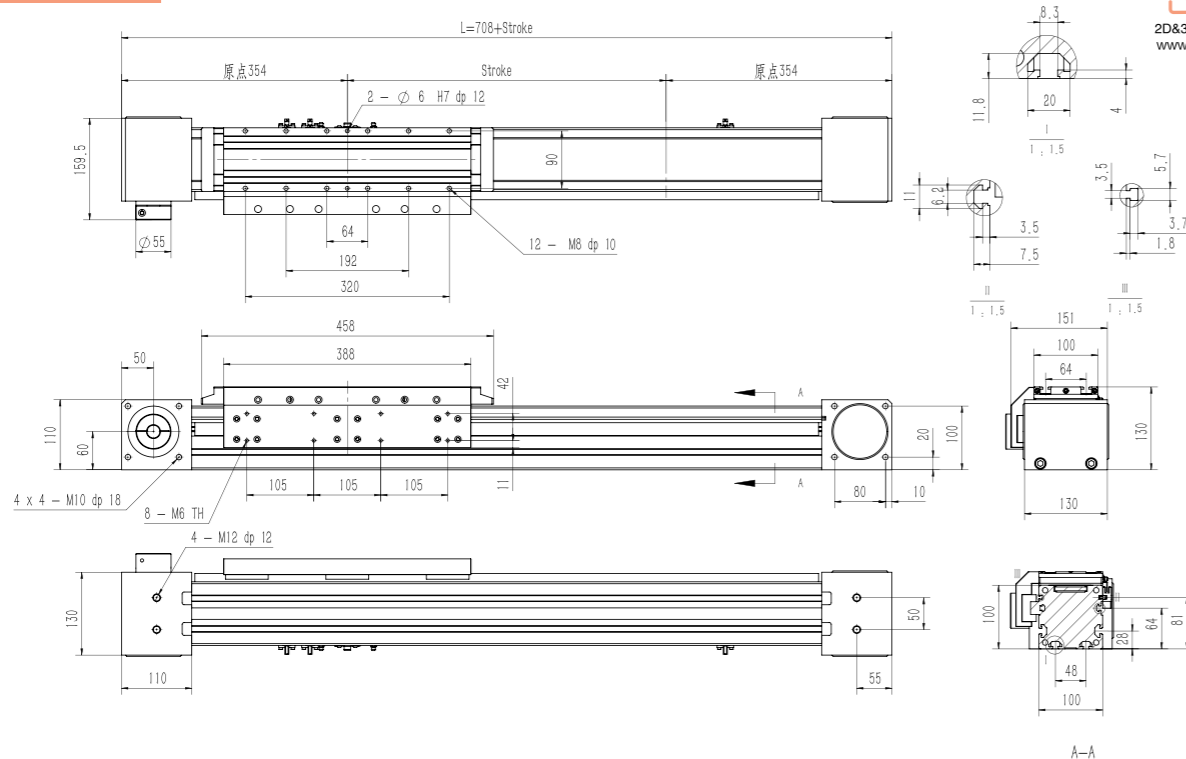
HTC 80L



2D&3D文檔下載請至
www.limonrobot.cn

| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 720 | 820 | 920 | 1020 | 1120 | 1220 | 1320 | 1420 | 1520 | 1620 | 1720 | 1820 | 1920 | 2020 | 2120 | 2220 | 2320 | 2420 | 2520 | 2620 |
| 重量 Weight (kg) | 13.56 | 14.54 | 15.52 | 16.50 | 17.48 | 18.46 | 19.44 | 20.42 | 21.40 | 22.38 | 23.36 | 24.34 | 25.32 | 26.30 | 27.28 | 28.26 | 29.24 | 30.22 | 31.20 | 32.18 |
| 行程 Stroke (mm) | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 |
| L | 2720 | 2820 | 2920 | 3020 | 3120 | 3220 | 3320 | 3420 | 3520 | 3620 | 3720 | 3820 | 3920 | 4020 | 4120 | 4220 | 4320 | 4420 | 4520 | 4620 |
| 重量 Weight (kg) | 33.16 | 34.14 | 35.12 | 36.10 | 37.08 | 38.06 | 39.04 | 40.02 | 41.00 | 41.98 | 42.96 | 43.94 | 44.92 | 45.90 | 46.88 | 47.86 | 48.84 | 49.82 | 50.80 | 51.78 |

HTC 100L

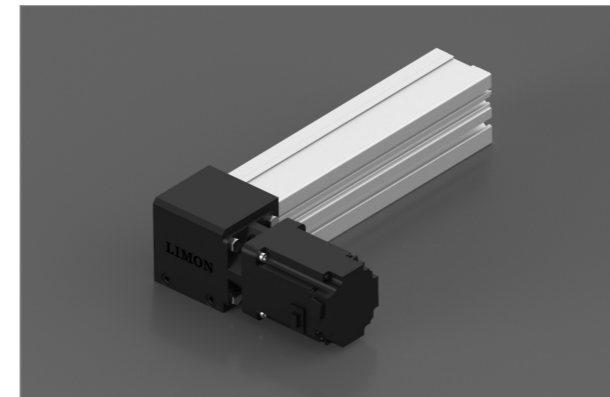


2D&3D文檔下載請至
www.limonrobot.cn

| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 808 | 908 | 1008 | 1108 | 1208 | 1308 | 1408 | 1508 | 1608 | 1708 | 1808 | 1908 | 2008 | 2108 | 2208 | 2308 | 2408 | 2508 | 2608 | 2708 |
| 重量 Weight (kg) | 22.76 | 24.21 | 25.66 | 27.11 | 28.56 | 30.01 | 31.46 | 32.91 | 34.36 | 35.81 | 37.26 | 38.61 | 40.16 | 41.61 | 43.06 | 44.51 | 45.96 | 47.41 | 48.86 | 50.31 |
| 行程 Stroke (mm) | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 |
| L | 2808 | 2908 | 3008 | 3108 | 3208 | 3308 | 3408 | 3508 | 3608 | 3708 | 3808 | 3908 | 4008 | 4108 | 4208 | 4308 | 4408 | 4508 | 4608 | 4708 |
| 重量 Weight (kg) | 51.76 | 53.21 | 54.66 | 56.11 | 57.56 | 59.01 | 60.46 | 61.91 | 63.36 | 64.81 | 66.26 | 67.71 | 69.16 | 70.61 | 72.06 | 73.51 | 74.96 | 76.41 | 77.86 | 79.31 |

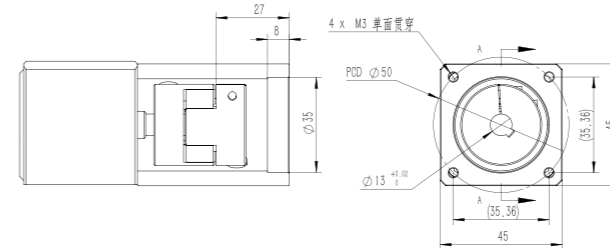
ITO/ HTO / ITC / HTC 安裝附件 Accessories

馬達座尺寸圖 Dimensional Drawing of Motor Base

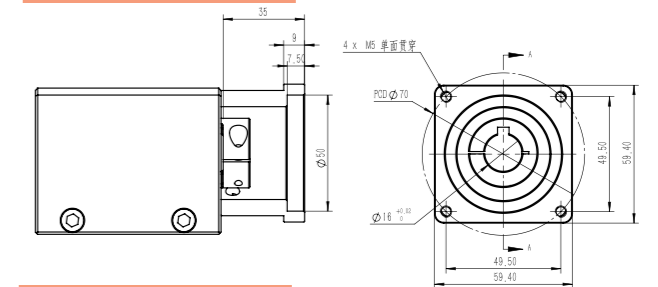


#注1: 此零件為選購件, 如需訂購請在下單時備註。
Note 1: This is optional accessory, please remark if needed.

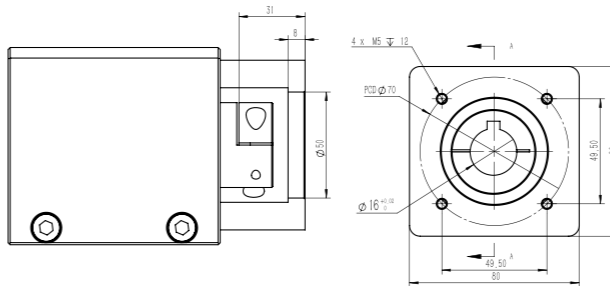
I40-馬達座-GB1



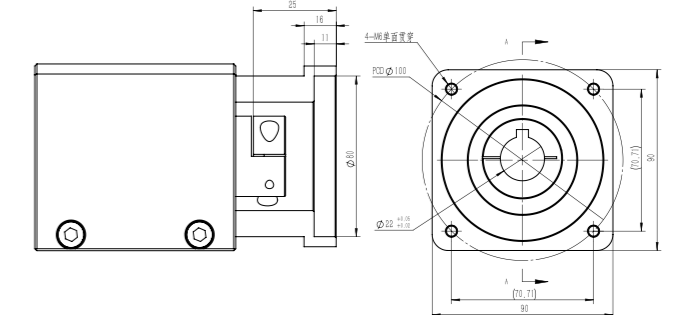
I60-馬達座-GB2



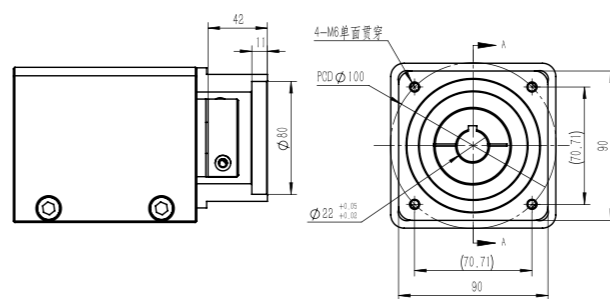
I80-馬達座-GB2



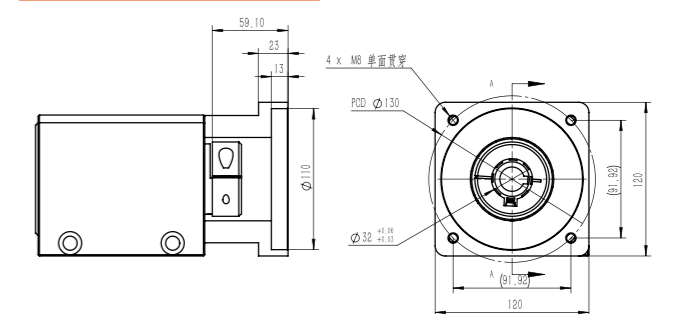
I80-馬達座-GB3



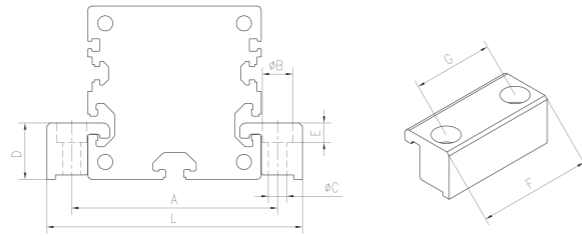
I100-馬達座-GB3



I100-馬達座-GB4



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 |
| ITO160 | 75 | 11 | 6.6 | 19 | 6.8 | 52 | 36 | 93 |

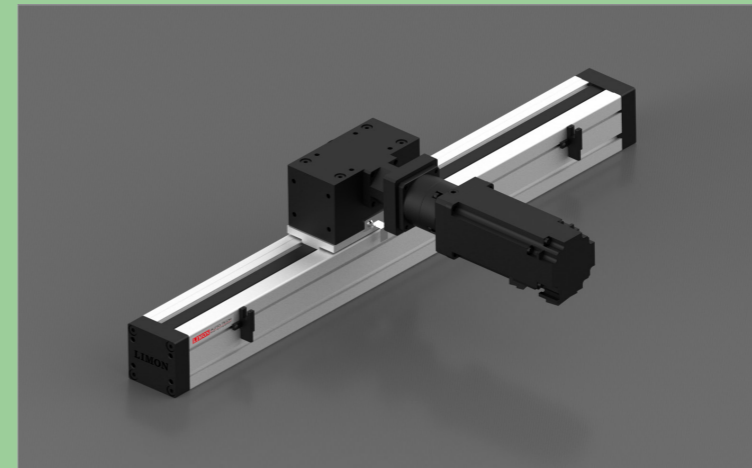
歐標同步帶模塊聯軸器尺寸表

Coupling dimension table of belt driven linear actuator of Jointing Block

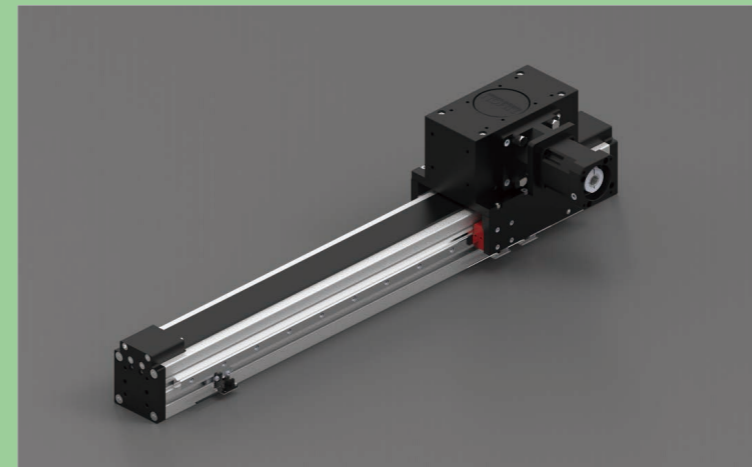
| 模組型號 Module model | 可開孔徑範圍(mm) Hole dimension available range |
|---|---|
| ITO60 / ITO60L / ITC60 / ITC60L / HTO60/ITZ60 | 6 ~ 16 |
| ITO80/ITO80L/ITC80/ITC80L/HTO80/HTO80L/HTC80/HTC80L | 10 ~ 22 |
| ITO100/ITO100L/ITC100/ITC100L/HTO100/HTO100L/HTC100/HTC100L | 10 ~ 32 |
| ITO160 | 10 ~ 22 |

歐標Z軸提升專用型

European standard Z-axis lifting special type



ITZ 60



HTZ 80

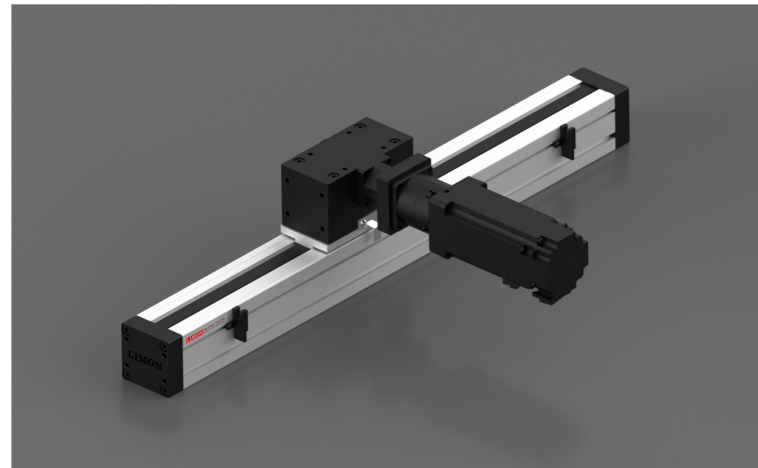
ITZ 60 歐標Z軸提升專用型

European standard Z-axis lifting special type

訂購型號代碼 Code

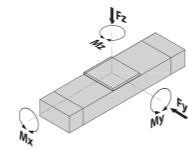
| | | | | | | | |
|---------------|-------------------|----------------------------|------------------------------|-----------------------|------------------------------------|---|------------------------|
| ITZ60 | 500 | DB <small>注</small> | D01 | GB2 | 22 | P3 | A001 |
| 本體型號 Item NO. | 行程 Stroke | 輔助滑塊 Auxiliary Block | 馬達方向 Motor Mounting Position | 馬達座型號 Motor type | 聯軸器內孔尺寸 Hole dimension of coupling | 限位傳感器數量 Photoelectric Sensor | 特注式樣 Special Order No. |
| ITZ60 | 100-1500,間隔Gap100 | 未填寫:單滑塊 DB:輔助滑塊 | D01 D02 | GB2 <small>注3</small> | | 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P209.



最大動態力和力矩

Max Permissible Forces And Torques

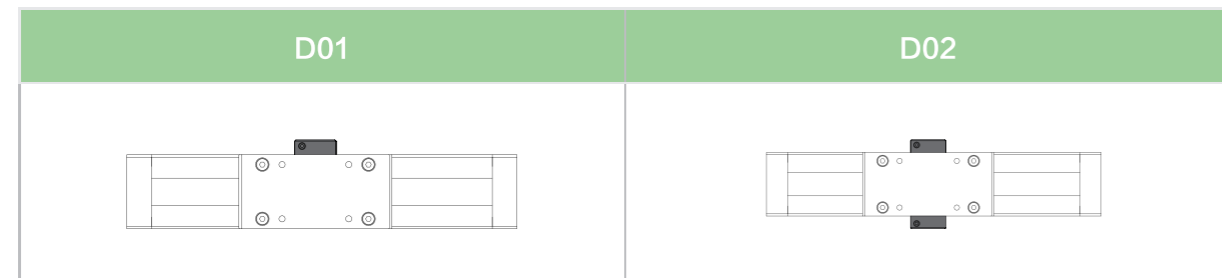


| 規格 Type | 60 |
|--------------|------|
| ■ F(y) (N) | 999 |
| ■ F(z) (N) | 2684 |
| ■ M(x) (N·m) | 20 |
| ■ M(y) (N·m) | 61 |
| ■ M(z) (N·m) | 61 |

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| | ITZ | 60 |
|------------------------------|---|---------------|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.05 |
| | 皮帶輪導程 Pulley Lead (mm) | 130 |
| | 皮帶型號 Belt Type | 5M-25 |
| | 最高速度 Maximum Speed (mm/s) | 1500 |
| | 最大可搬重量 <small>注4</small> Maximum Payload <small>注4</small> 垂直使用Vertical (kg) | 10 |
| | 最大空載扭距 Max. No-load Driving Torque (N·m) | 0.35 |
| 基本規格 Basic Specification | 最大扭距 Max. Driving Torque (N·m) | 13.3 |
| | 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: 輔助滑塊選項相關參數參見樣本P209.

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

注2: 馬達座型號相關參數參見樣本P38.

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

注3: 減速機端聯軸器孔徑尺寸

Note3: Hole dimension of coupling (reducer side)

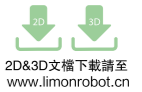
注4: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。

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

www.limonrobot.cn

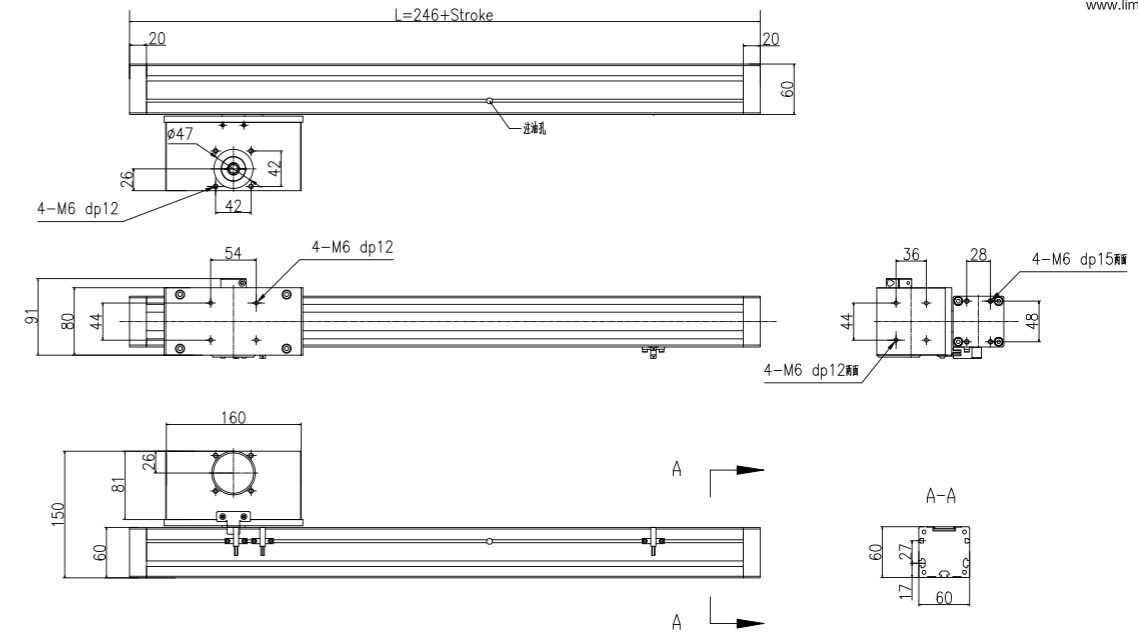
歐標Z軸提升專用型 ITZ 60

European standard Z-axis lifting special type



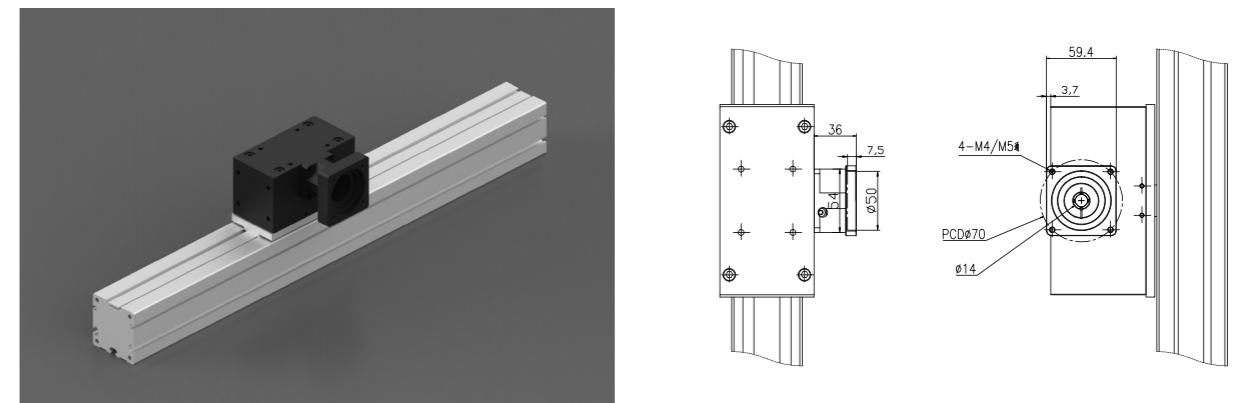
2D&3D文檔下載請至
www.limonrobot.cn

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.

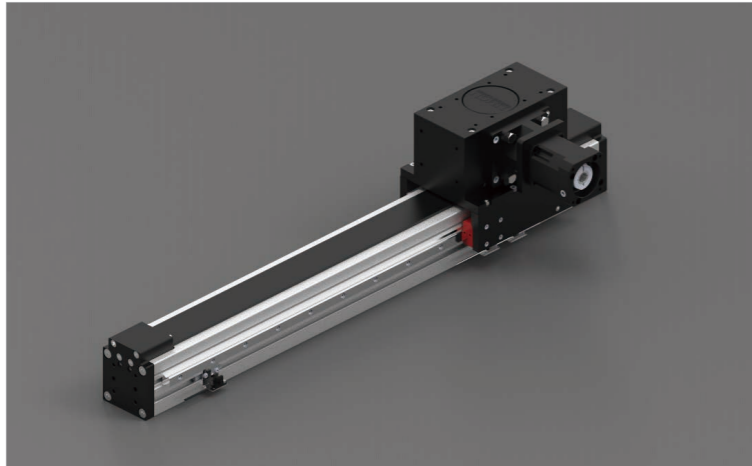
#注2: 此零件為選購件，如需訂購請在下單時備注。

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

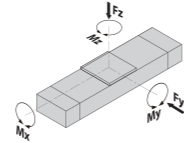
訂購型號代碼 Code

| | | | | | | | |
|---------------|--------------------|----------------------------|------------------------------|------------------------------|------------------------------------|--|------------------------|
| HTZ80 | 500 | DB <small>注</small> | D01 | GB2 | 22 <small>注3</small> | P3 | A001 |
| 本體型號 Item NO. | 行程 Stroke | 輔助滑塊 Auxiliary Block | 馬達方向 Motor Mounting Position | 馬達座型號 Motor type | 联轴器內孔尺寸 Hole dimension of coupling | 限位傳感器數量 Photoelectric Sensor | 特注式樣 Special Order No. |
| HTZ80 | 100-1500, 間隔Gap100 | 未填寫, 單滑塊 DB...輔助滑塊 | D01 | GB2 <small>注2</small> GB3 | | 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P209.



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

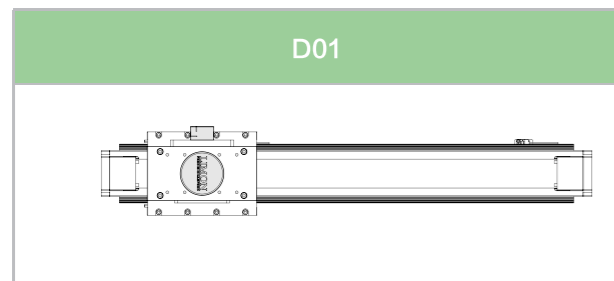


| 規格 Type | 80 |
|--------------|------|
| ■ F(y) (N) | 8370 |
| ■ F(z) (N) | 8370 |
| ■ M(x) (N·m) | 140 |
| ■ M(y) (N·m) | 400 |
| ■ M(z) (N·m) | 400 |

除了滿足最大負載和力矩外, 還必須滿足以下公式:

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| HTZ | | 80 |
|---------------------------|--|-------------|
| 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) | 210 |
| | 皮帶型號 Belt Type | 5M-50 |
| | 最高速度 Maximum Speed (mm/s) | 2000 |
| | 最大可搬重量 Maximum Payload (kg) | 30 |
| | 最大空載扭矩 Max. No-load Driving Torque (N·m) | 0.9 |
| | 最大扭矩 Max. Driving Torque (N·m) | 49.8 |
| 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) | 400/750 |
| | 高剛性直線滑軌 Linear Guide | 15# × 2PCS |
| | 主機截面最大外形 Max Outline of Main Engine's Cross Section (mm) | 94 × 190 |
| 原點感應器 Home Sensor | | PM-Y45(NPN) |

注1: 輔助滑塊選項相關參數參見樣本P209.

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

注2: 馬達座型號相關參數參見樣本P38.

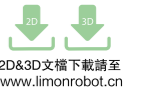
Note2: Refer to catalogue P38 for relevant parameters of motor model

注3: 減速機端联轴器孔徑尺寸

Note3: Hole dimension of coupling (reducer side)

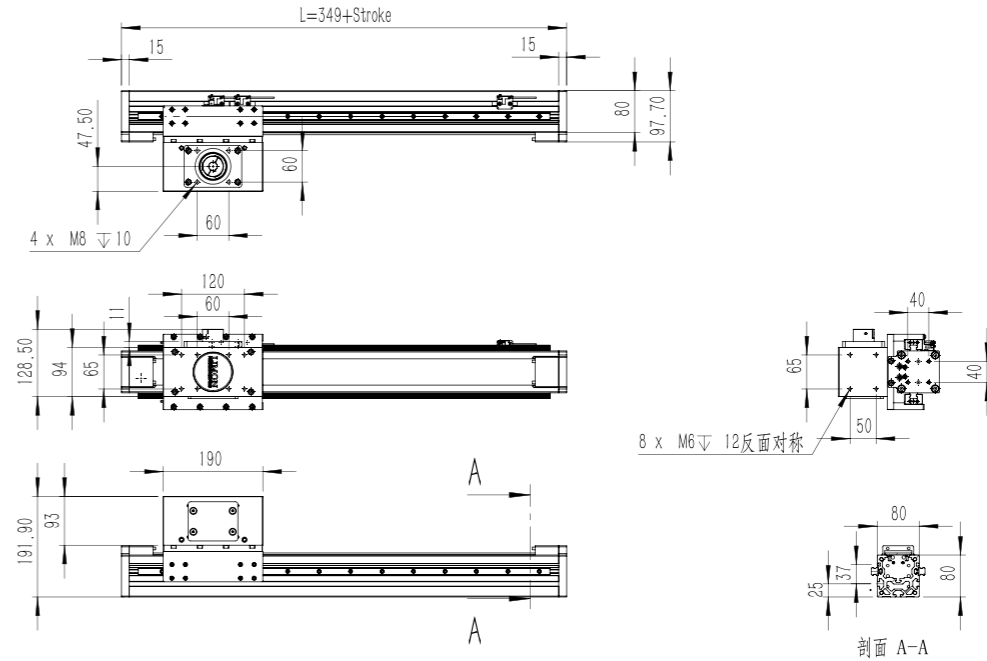
注4: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件.

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



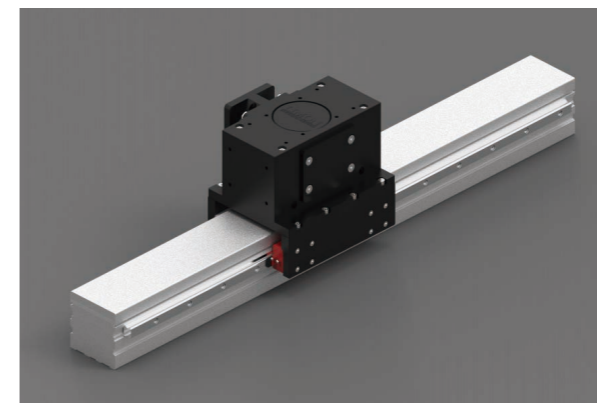
2D&3D文檔下載請至
www.limonrobot.cn

HTZ 80



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

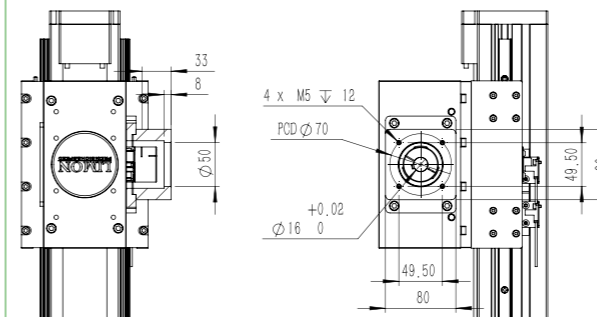
馬達座尺寸圖 Dimensional Drawing of Motor Base



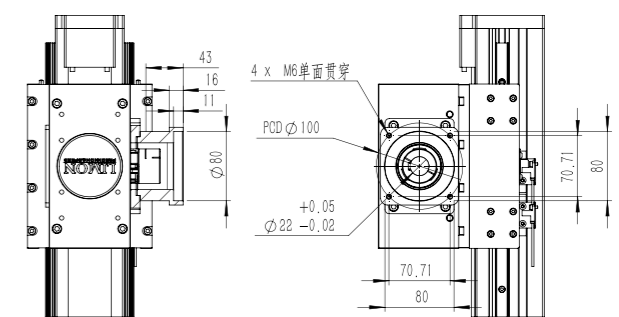
#注1: 此零件為選購件, 如需訂購請在下單時備注.

Note 1: This is optional accessory, please remark if needed.

I80-馬達座-GB2

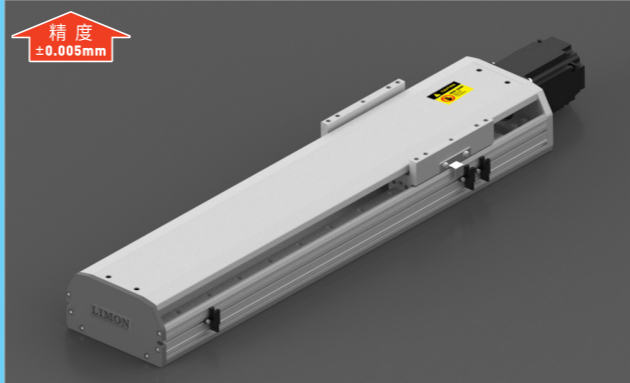


I80-馬達座-GB3

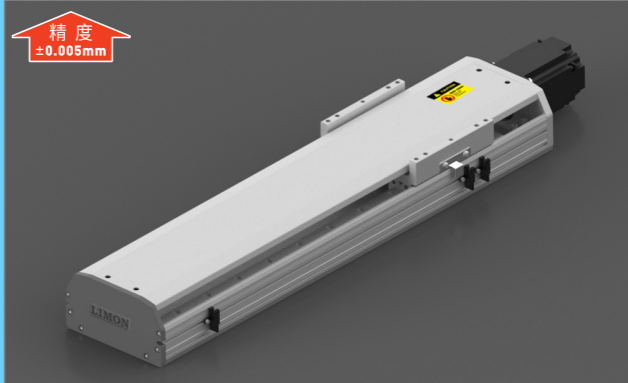


亞標半密式螺桿驅動型

Sub-standard semi-tight screw drive type



YSO 135



YSO 135G



YSO 170



YSO 220

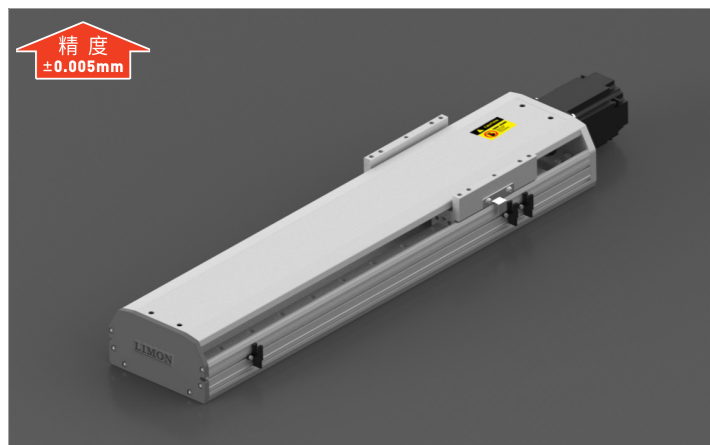
YSO 135 亞標半密式螺桿驅動型

Sub-standard semi-tight screw drive type

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 | 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P209.



最大動態力和力矩

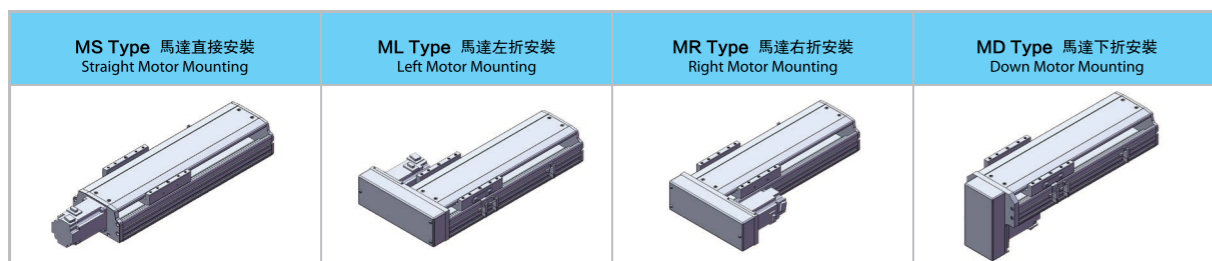
Max Permissible Forces And Torques

| 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



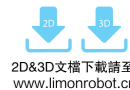
基本規格 Basic Specification

| YSO135 | | 2P(導軌滑塊數量)Block quantity | | | | 4P(導軌滑塊數量)Block quantity | | | | |
|--------------------------------|--|--------------------------|------|------|------|--------------------------|------|------|------|----|
| 技術參數 | 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) | 60 | 45 | 40 | 30 | 100 | 80 | 60 | 45 |
| | | 垂直使用Vertical (kg) | 20 | 15 | 12 | 8 | 50 | 30 | 22 | 16 |
| | 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 | 0.12 | 0.2 | 0.22 | 0.12 | 0.15 | 0.2 | 0.22 | |
| 最大扭矩 Max. Driving Torque (N·m) | 10.9 | 12.5 | 14 | 16.7 | 10.9 | 12.5 | 14 | 16.7 | | |
| 基本規格 | 標準行程 Stroke (mm) | 100-1250 mm/ 50 Pitch | | | | | | | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 200/400 | | | | | | | | |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | ø16 / ø20 | | | | | | | | |
| | 高剛性直線滑軌 Linear Guide (mm) | 15# × 2 PCS | | | | | | | | |
| | 主機版面最大外形 Max Outline of Main Engine's Cross Section (mm) | 135 × 78 | | | | | | | | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | | | | | | | | |

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

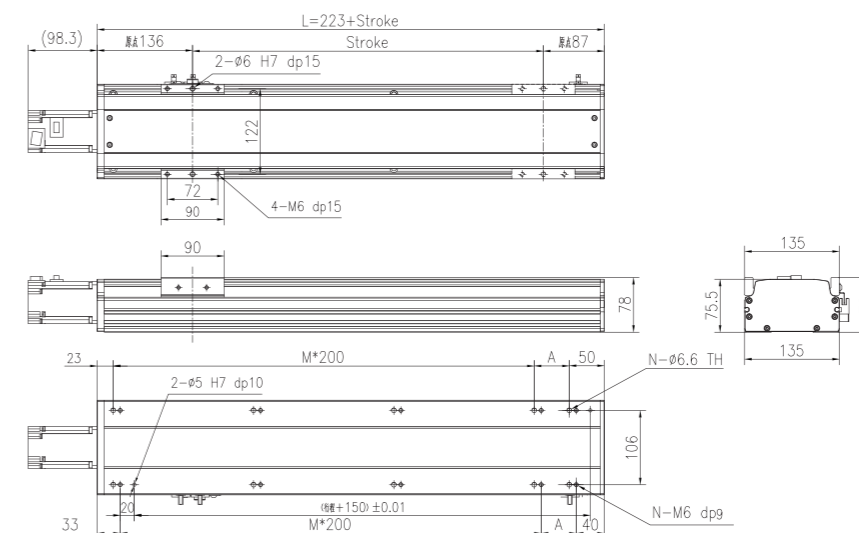
亞標半密式螺桿驅動型 YSO 135

Sub-standard semi-tight screw drive type



2D&3D文檔下載請至
www.limonrobot.cn

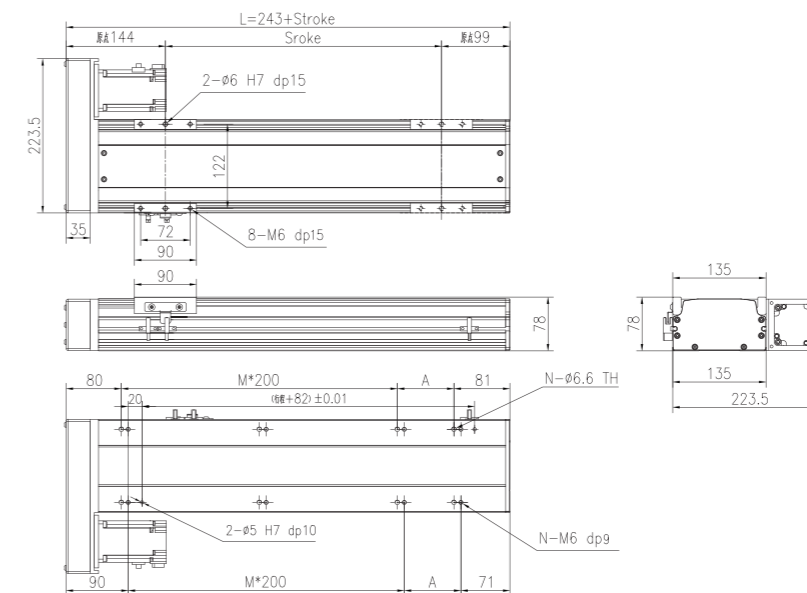
YSO135-2P-MS 馬達直接安裝 Straight Motor Mounting



| 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 | 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) | 6.0 | 6.4 | 6.9 | 7.4 | 7.9 | 8.3 | 8.8 | 9.3 | 9.8 | 10.2 | 10.7 | 11.2 | 11.7 | 12.1 | 12.6 | 13.0 | 13.6 | 14.0 | 14.5 | 15.0 | 15.5 | 15.9 | 16.4 | 16.9 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 20 | 1000 | | | | | | | | | | | | | | | | | | | | | | |
| | 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.

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



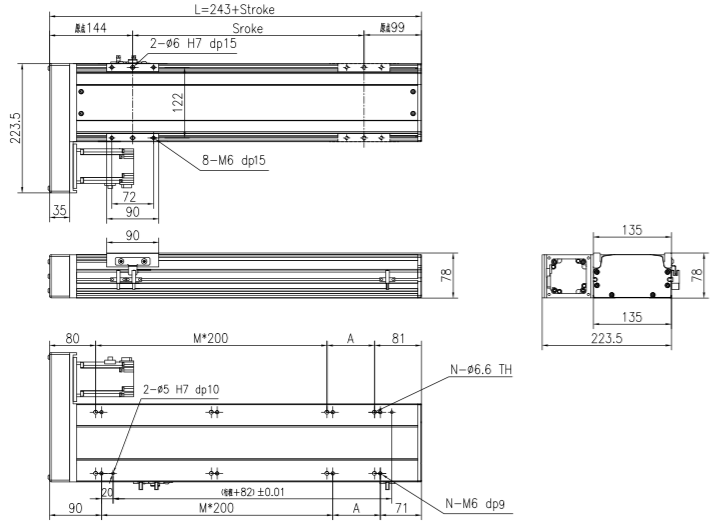
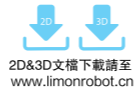
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|-------------------------|-------------|------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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) | 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 135 亞標半密式螺桿驅動型

Sub-standard semi-tight screw drive type

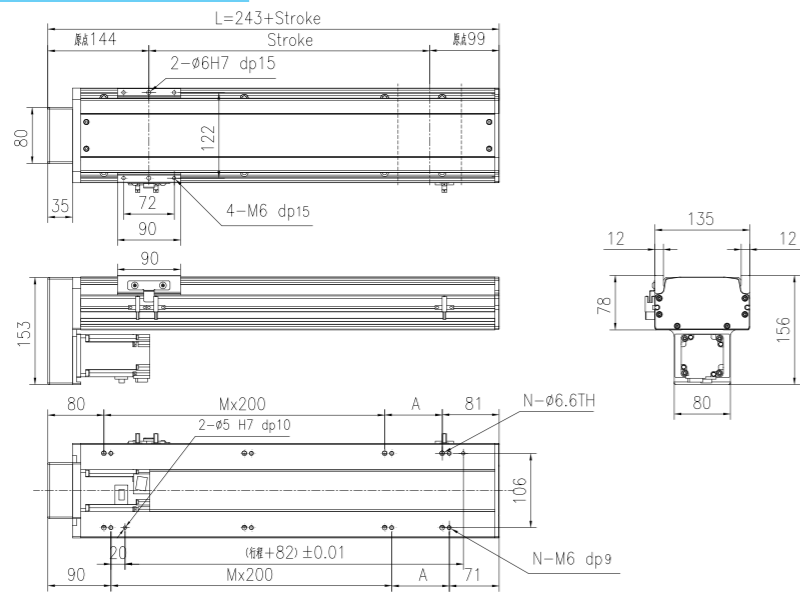
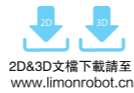
YSO135-2P-MR 馬達右折安裝 Right Motor Mounting



| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|-------------------------------|-------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|
| L | 343 | 393 | 443 | 493 | 543 | 593 | 643 | 693 | 743 | 793 | 843 | 893 | 943 | 993 | 1043 | 1093 | 1143 | 1193 | 1243 | 1293 | 1343 | 1393 | 1443 | 1493 |
| A | 182 | 32 | 82 | 132 | 182 | 232 | 282 | 332 | 382 | 432 | 482 | 532 | 582 | 632 | 682 | 732 | 782 | 832 | 882 | 932 | 982 | 1032 | 1082 | 1132 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 |
| 重量 Weight (kg) | 7.0 | 7.4 | 7.9 | 8.4 | 8.9 | 9.3 | 9.8 | 10.3 | 10.8 | 11.2 | 11.7 | 12.2 | 12.7 | 13.1 | 13.6 | 14.1 | 14.6 | 15.0 | 15.5 | 16.0 | 16.5 | 16.9 | 17.4 | 17.9 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 20 | | | | | | | | | | | | | | | | | | | 1000 | 650 | 500 | 450 | |
| | 導程 Pitch 16 | | | | | | | | | | | | | | | | | | | 800 | 520 | 400 | 360 | |
| | 導程 Pitch 10 | | | | | | | | | | | | | | | | | | | 500 | 325 | 250 | 225 | |
| | 導程 Pitch 05 | | | | | | | | | | | | | | | | | | | 250 | 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.

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



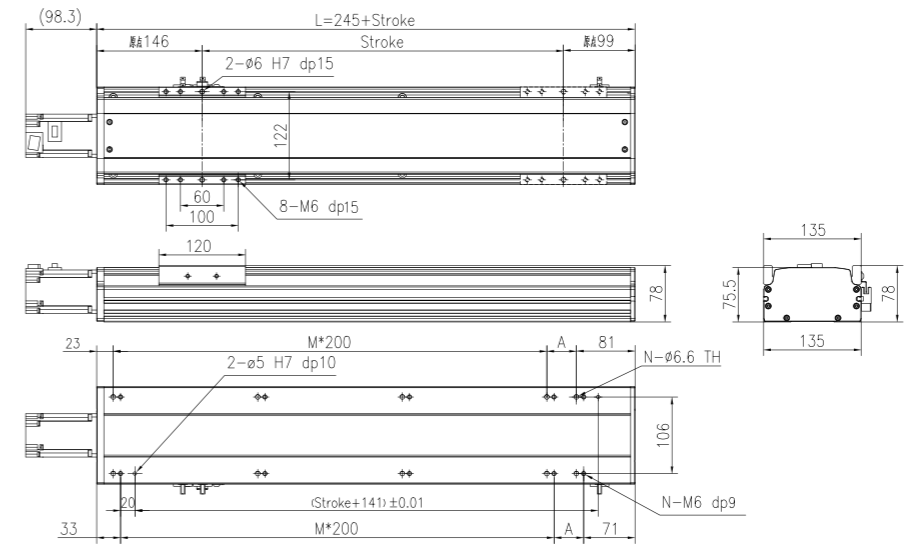
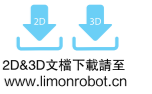
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|-------------------------------|-------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|
| L | 343 | 393 | 443 | 493 | 543 | 593 | 643 | 693 | 743 | 793 | 843 | 893 | 943 | 993 | 1043 | 1093 | 1143 | 1193 | 1243 | 1293 | 1343 | 1393 | 1443 | 1493 |
| A | 182 | 32 | 82 | 132 | 182 | 232 | 282 | 332 | 382 | 432 | 482 | 532 | 582 | 632 | 682 | 732 | 782 | 832 | 882 | 932 | 982 | 1032 | 1082 | 1132 |
| M | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 |
| 重量 Weight (kg) | 7.0 | 7.4 | 7.9 | 8.4 | 8.9 | 9.3 | 9.8 | 10.3 | 10.8 | 11.2 | 11.7 | 12.2 | 12.7 | 13.1 | 13.6 | 14.1 | 14.6 | 15.0 | 15.5 | 16.0 | 16.5 | 16.9 | 17.4 | 17.9 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 20 | | | | | | | | | | | | | | | | | | | 1000 | 650 | 500 | 450 | |
| | 導程 Pitch 16 | | | | | | | | | | | | | | | | | | | 800 | 520 | 400 | 360 | |
| | 導程 Pitch 10 | | | | | | | | | | | | | | | | | | | 500 | 325 | 250 | 225 | |
| | 導程 Pitch 05 | | | | | | | | | | | | | | | | | | | 250 | 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.

亞標半密式螺桿驅動型 YSO 135

Sub-standard semi-tight screw drive type

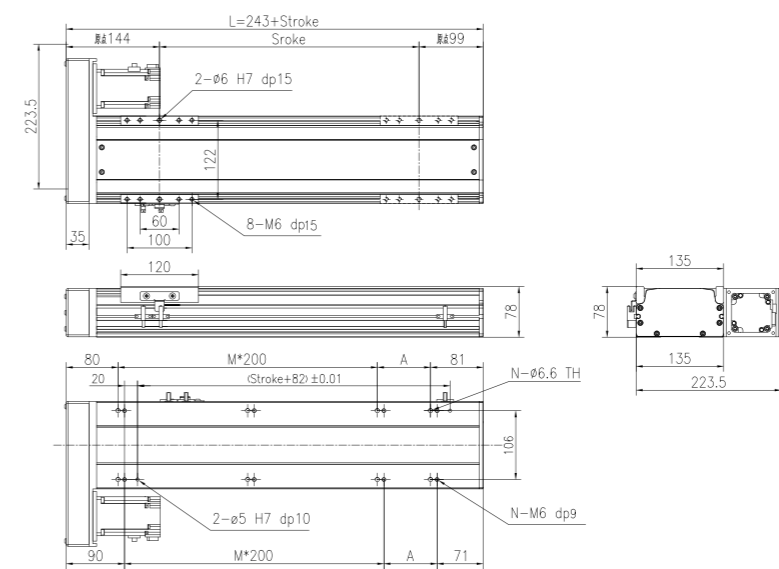
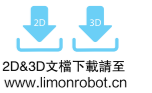
YSO135-4P-MS 馬達直接安裝 StRight Motor Mounting



| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|-------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|
| L | 345 | 395 | 445 | 495 | 545 | 595 | 645 | 695 | 745 | 795 | 845 | 895 | 945 | 995 | 1045 | 1095 | 1145 | 1195 | 1245 | 1295 | 1345 | 1395 | 1445 | 1495 |
| A | 41 | 91 | 141 | 191 | 241 | 291 | 341 | 391 | 441 | 491 | 541 | 591 | 641 | 691 | 741 | 791 | 841 | 891 | 941 | 991 | 1041 | 1091 | 1141 | 1191 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| 重量 Weight (kg) | 6.2 | 6.6 | 7.1 | 7.6 | 8.1 | 8.5 | 9.0 | 9.5 | 10.0 | 10.4 | 10.9 | 11.4 | 11.9 | 12.3 | 12.8 | 13.3 | 13.8 | 14.2 | 14.7 | 15.2 | 15.7 | 16.1 | 16.6 | 17.1 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 20 | | | | | | | | | | | | | | | | | | | 1000 | 650 | 500 | 450 | |
| | 導程 Pitch 16 | | | | | | | | | | | | | | | | | | | 800 | 520 | 400 | 360 | |
| | 導程 Pitch 10 | | | | | | | | | | | | | | | | | | | 500 | 325 | 250 | 225 | |
| | 導程 Pitch 05 | | | | | | | | | | | | | | | | | | | 250 | 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.

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



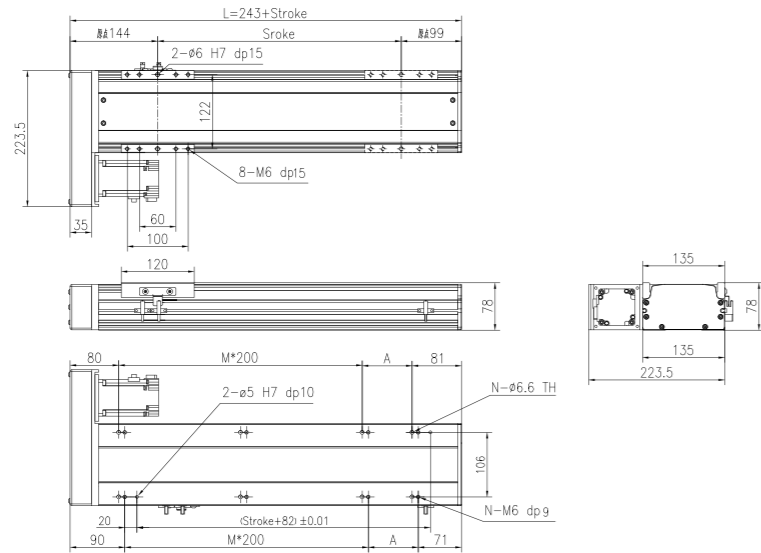
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|-------------------------------|-------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|
| L | 343 | 393 | 443 | 493 | 543 | 593 | 643 | 693 | 743 | 793 | 843 | 893 | 943 | 993 | 1043 | 1093 | 1143 | 1193 | 1243 | 1293 | 1343 | 1393 | 1443 | 1493 |
| A | 182 | 32 | 82 | 132 | 182 | 232 | 282 | 332 | 382 | 432 | 482 | 532 | 582 | 632 | 682 | 732 | 782 | 832 | 882 | 932 | 982 | 1032 | 1082 | 1132 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 |
| 重量 Weight (kg) | 7.2 | 7.6 | 8.1 | 8.6 | 9.1 | 9.5 | 10.0 | 10.5 | 11.0 | 11.4 | 11.9 | 12.4 | 12.9 | 13.3 | 13.8 | 14.3 | 14.8 | 15.2 | 15.7 | 16.2 | 16.7 | 17.1 | 17.6 | 18.1 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 20 | | | | | | | | | | | | | | | | | | | 1000 | 650 | 500 | 450 | |
| | 導程 Pitch 16 | | | | | | | | | | | | | | | | | | | 800 | 520 | 400 | 360 | |
| | 導程 Pitch 10 | | | | | | | | | | | | | | | | | | | 500 | 325 | 250 | 225 | |
| | 導程 Pitch 05 | | | | | | | | | | | | | | | | | | | 250 | 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.

YSO 135 亞標半密式螺桿驅動型

Sub-standard semi-tight screw drive type

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

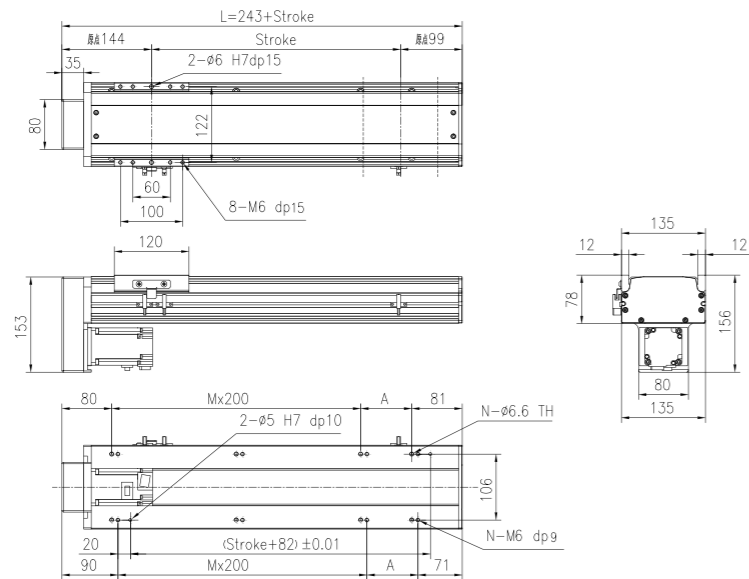


2D&3D文檔下載請至
www.limonrobot.cn

| 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 | 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) | 7.2 | 7.6 | 8.1 | 8.6 | 9.1 | 9.5 | 10.0 | 10.5 | 11.0 | 11.4 | 11.9 | 12.4 | 12.9 | 13.3 | 13.8 | 14.3 | 14.8 | 15.2 | 15.7 | 16.2 | 16.7 | 17.1 | 17.6 | 18.1 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 20 | 1000 | | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | | |
| | 導程 Pitch 16 | 800 | | | | | | | | | | | | | | | | | 640 | 520 | 400 | 360 | | |
| | 導程 Pitch 10 | 500 | | | | | | | | | | | | | | | | | 400 | 325 | 250 | 225 | | |
| | 導程 Pitch 05 | 250 | | | | | | | | | | | | | | | | | 200 | 162.5 | 125 | 112.5 | | |

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

YSO135-4P-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 | 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) | 7.2 | 7.6 | 8.1 | 8.6 | 9.1 | 9.5 | 10.0 | 10.5 | 11.0 | 11.4 | 11.9 | 12.4 | 12.9 | 13.3 | 13.8 | 14.3 | 14.8 | 15.2 | 15.7 | 16.2 | 16.7 | 17.1 | 17.6 | 18.1 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 20 | 1000 | | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | | |
| | 導程 Pitch 16 | 800 | | | | | | | | | | | | | | | | | 640 | 520 | 400 | 360 | | |
| | 導程 Pitch 10 | 500 | | | | | | | | | | | | | | | | | 400 | 325 | 250 | 225 | | |
| | 導程 Pitch 05 | 250 | | | | | | | | | | | | | | | | | 200 | 162.5 | 125 | 112.5 | | |

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

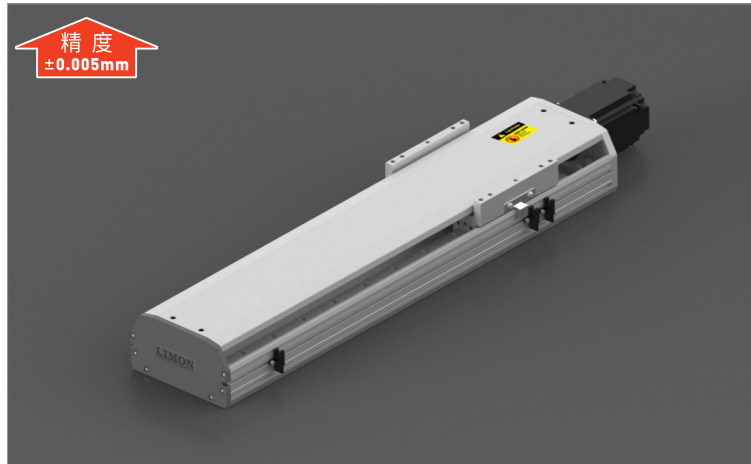
YSO 135G 亞標半密式螺桿驅動型

Sub-standard semi-tight screw drive type

訂購型號代碼 Code

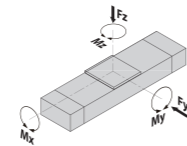
| | | | | | | | | |
|---------------|----------------------|-------------------|-------------------------|---|----------------------|---|---|------------------------|
| YSO135G | L10 | 500 | 4P | MS | DB | M40 | P3 | A001 |
| 本體型號 Item NO. | 螺桿導程 Ball Screw Lead | 行程 Stroke | 直線導軌滑塊數量 Block Quantity | 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 16 20 | 100-1250, 間隔Gap50 | 4P | MS: 馬達直接安裝 Straight Motor Mounting ML: 馬達左折安裝 Left Motor Mounting MR: 馬達右折安裝 Right Motor Mounting MD: 馬達下折安裝 Down Motor Mounting | 未填寫: 無滑塊 DB: 輔助滑塊 | M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K - | P1: 1祇 1PCS P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 NoMark/NoSensor | |

注: 輔助滑塊選項相關參數參見樣本P209.



最大動態力和力矩

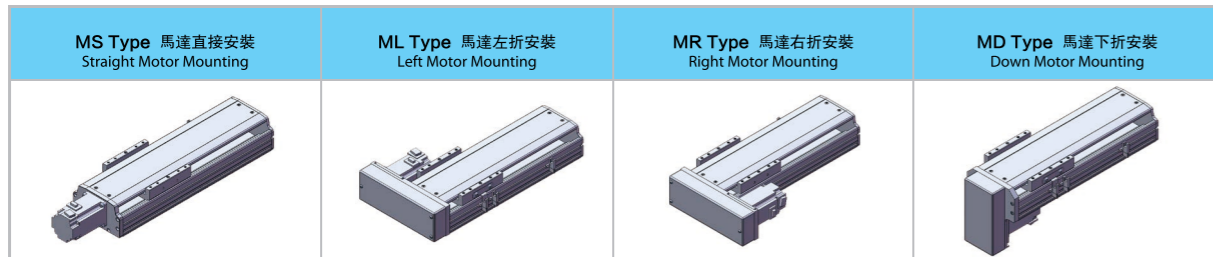
Max Permissible Forces And Torques



| 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

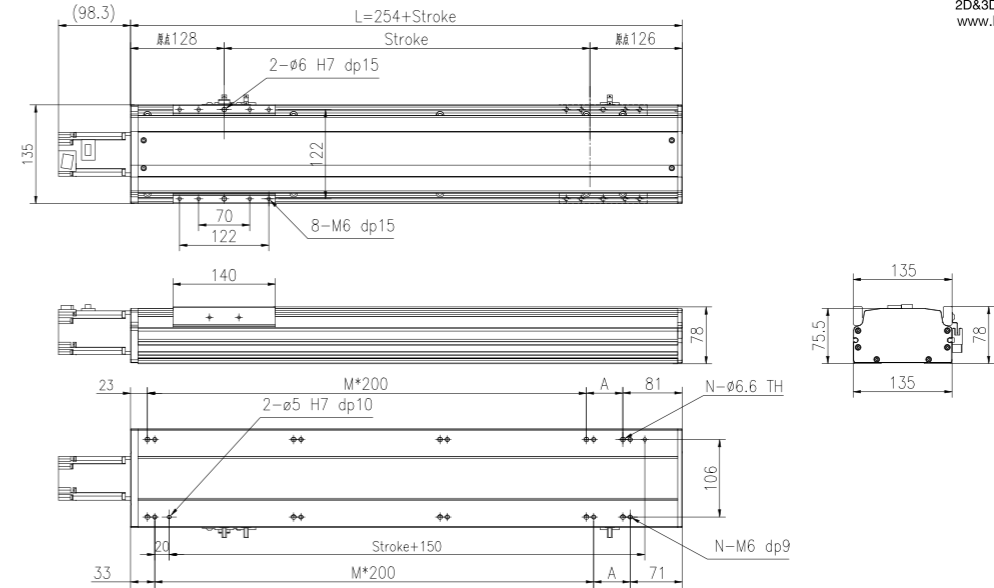
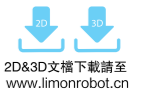
| YSO135G | | 4P(導軌滑塊數量)Block quantity | | | | |
|--------------------------------|---|--------------------------|------|------|------|----|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.005 | | | | |
| | 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | 16 | 20 | |
| | 最高速度 Maximum Speed (mm/s) | 250 | 500 | 800 | 1000 | |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 100 | 80 | 60 | 45 |
| | | 垂直使用Vertical (kg) | 50 | 30 | 22 | 16 |
| | 定格推力 Rated Thrust (N) | 683 | 341 | 213 | 174 | |
| | 最大空載扭矩 Max. No-load Driving Torque (N·m) | 0.12 | 0.15 | 0.2 | 0.22 | |
| 最大扭矩 Max. Driving Torque (N·m) | 10.9 | 12.5 | 14 | 16.7 | | |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 100-1250 mm/ 50 Pitch | | | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 200/400 | | | | |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | Ø16 / Ø20 | | | | |
| | 高剛性直線滑軌 Linear Guide (mm) | 15# × 2 PCS | | | | |
| | 主機版面最大外形 Max Outline of Main Engine's Cross Section (mm) | 135 × 78 | | | | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | | | | |

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2: 測定條件為無力矩的理論數據, 根據力矩和加速度數據會相應改變, 具體請參考選型軟件。
#Note 2: Date changes 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 135G

Sub-standard semi-tight screw drive type

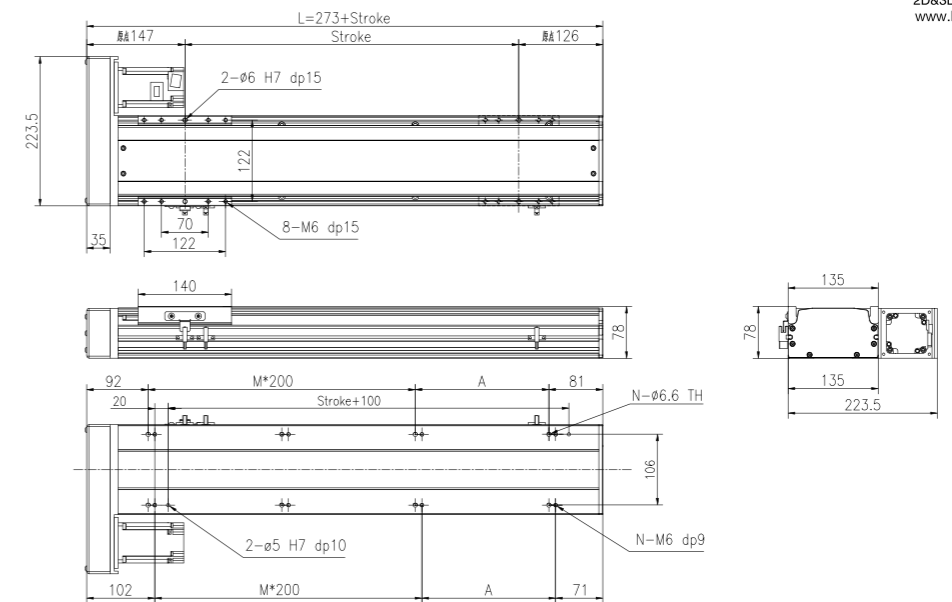
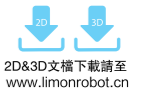
YSO135G-4P-MS 馬達直接安裝 StRight Motor Mounting



| 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 | 354 | 404 | 454 | 504 | 554 | 604 | 654 | 704 | 754 | 804 | 854 | 904 | 954 | 1004 | 1054 | 1104 | 1154 | 1204 | 1254 | 1304 | 1354 | 1404 | 1454 | 1504 |
| 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 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| 重量 Weight (kg) | 6.2 | 6.6 | 7.1 | 7.6 | 8.1 | 8.6 | 9.0 | 9.5 | 10.0 | 10.4 | 10.9 | 11.4 | 11.9 | 12.3 | 12.8 | 13.3 | 13.8 | 14.2 | 14.7 | 15.2 | 15.7 | 16.1 | 16.6 | 17.1 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 20: 1000 | | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | | | |
| 導程 Pitch 16 | 800 | | | | | | | | | | | | | | | | | 640 | 520 | 400 | 360 | | | |
| 導程 Pitch 10 | 500 | | | | | | | | | | | | | | | | | 400 | 325 | 250 | 225 | | | |
| 導程 Pitch 05 | 250 | | | | | | | | | | | | | | | | | 200 | 162.5 | 125 | 112.5 | | | |

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

YSO135G-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 | 373 | 423 | 473 | 523 | 573 | 623 | 673 | 723 | 773 | 823 | 873 | 923 | 973 | 1023 | 1073 | 1123 | 1173 | 1223 | 1273 | 1323 | 1373 | 1423 | 1473 | 1523 |
| A | 200 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 |
| M | 0 | 1 | 1 | 1 | 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 | 14 | 14 | 14 | 14 | 14 | 16 | 16 | 16 |
| 重量 Weight (kg) | 7.2 | 7.6 | 8.1 | 8.6 | 9.1 | 9.5 | 10.0 | 10.5 | 11.0 | 11.4 | 11.9 | 12.4 | 12.9 | 13.3 | 13.8 | 14.3 | 14.8 | 15.2 | 15.7 | 16.2 | 16.7 | 17.1 | 17.6 | 18.1 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 20: 1000 | | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | | | |
| 導程 Pitch 16 | 800 | | | | | | | | | | | | | | | | | 640 | 520 | 400 | 360 | | | |
| 導程 Pitch 10 | 500 | | | | | | | | | | | | | | | | | 400 | 325 | 250 | 225 | | | |
| 導程 Pitch 05 | 250 | | | | | | | | | | | | | | | | | 200 | 162.5 | 125 | 112.5 | | | |

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

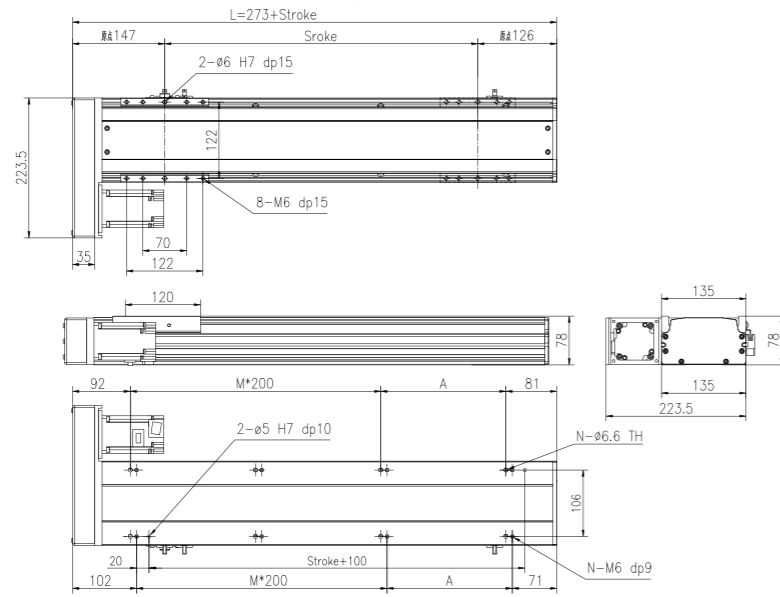
YSO 135G 亞標半密式螺桿驅動型

Sub-standard semi-tight screw drive type

YSO135G-4P-MR

馬達右折安裝 Right Motor Mounting

2D&3D文檔下載請至
www.limonrobot.cn



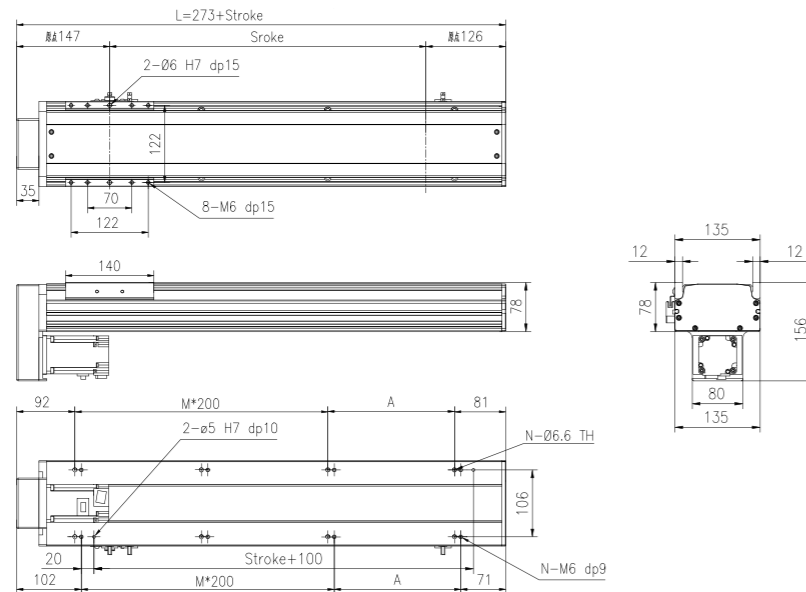
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|------|
| L | 373 | 423 | 473 | 523 | 573 | 623 | 673 | 723 | 773 | 823 | 873 | 923 | 973 | 1023 | 1073 | 1123 | 1173 | 1223 | 1273 | 1323 | 1373 | 1423 | 1473 | 1523 |
| 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 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 |
| 重量 Weight (kg) | 7.2 | 7.6 | 8.1 | 8.6 | 9.1 | 9.5 | 10.0 | 10.5 | 11.0 | 11.4 | 11.9 | 12.4 | 12.9 | 13.3 | 13.8 | 14.3 | 14.8 | 15.2 | 15.7 | 16.2 | 16.7 | 17.1 | 17.6 | 18.1 |
| 最高速度 Max speed (mm/sec) | | | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | | | |
| 導程 Pitch 20 | | | | | | | | | | | | | | | | | | 1000 | | | | | | |
| 導程 Pitch 16 | | | | | | | | | | | | | | | | | | 800 | | | | | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | | 500 | | 640 | 520 | 400 | 360 | |
| 導程 Pitch 05 | | | | | | | | | | | | | | | | | | 250 | | 400 | 325 | 250 | 225 | |
| | | | | | | | | | | | | | | | | | | 200 | 162.5 | 125 | 112.5 | | | |

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

YSO135G-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 | 373 | 423 | 473 | 523 | 573 | 623 | 673 | 723 | 773 | 823 | 873 | 923 | 973 | 1023 | 1073 | 1123 | 1173 | 1223 | 1273 | 1323 | 1373 | 1423 | 1473 | 1523 |
| 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 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 |
| 重量 Weight (kg) | 7.2 | 7.6 | 8.1 | 8.6 | 9.1 | 9.5 | 10.0 | 10.5 | 11.0 | 11.4 | 11.9 | 12.4 | 12.9 | 13.3 | 13.8 | 14.3 | 14.8 | 15.2 | 15.7 | 16.2 | 16.7 | 17.1 | 17.6 | 18.1 |
| 最高速度 Max speed (mm/sec) | | | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | | | |
| 導程 Pitch 20 | | | | | | | | | | | | | | | | | | 1000 | | | | | | |
| 導程 Pitch 16 | | | | | | | | | | | | | | | | | | 800 | | | | | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | | 500 | | 640 | 520 | 400 | 360 | |
| 導程 Pitch 05 | | | | | | | | | | | | | | | | | | 250 | | 400 | 325 | 250 | 225 | |
| | | | | | | | | | | | | | | | | | | 200 | 162.5 | 125 | 112.5 | | | |

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

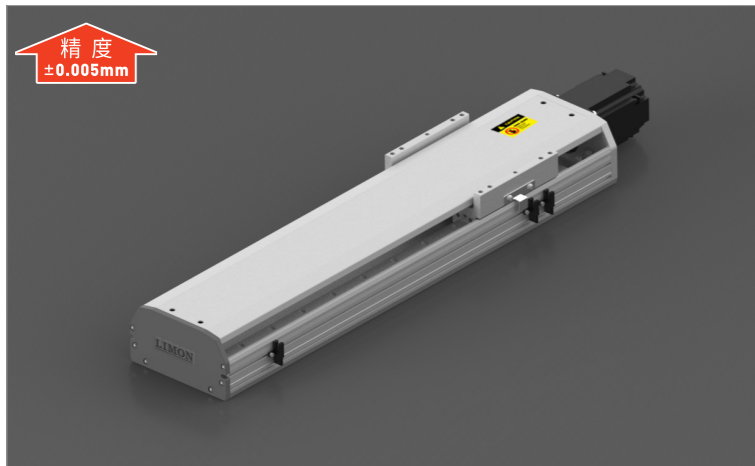
YSO 170 亞標半密式螺桿驅動型

Sub-standard semi-tight screw drive type

訂購型號代碼 Code

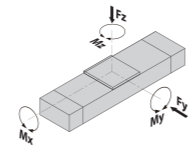
| | | | | | | | | |
|---------------|----------------------|-------------------|-------------------------|---|-----------------------|--|---|------------------------|
| YSO170 | L10 | 500 | 4P | MS | DB | M40 | P3 | A001 |
| 本體型號 Item NO. | 螺桿導程 Ball Screw Lead | 行程 Stroke | 直線導軌滑塊數量 Block Quantity |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

注: 輔助滑塊選項相關參數參見樣本P209.



最大動態力和力矩

Max Permissible Forces And Torques

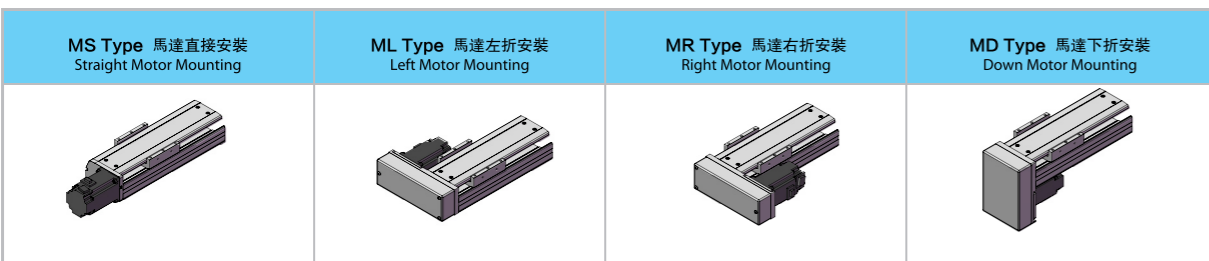


| Type | 4P |
|------------|------|
| F(y) (N) | 7463 |
| F(z) (N) | 7463 |
| M(x) (N·m) | 339 |
| M(y) (N·m) | 178 |
| M(z) (N·m) | 742 |

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

| 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) | 250 | 500 | 1000 | 2000 | |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 120 | 100 | 85 | 60 |
| | | 垂直使用Vertical (kg) | 60 | 50 | 35 | 20 |
| | 定格推力 Rated Thrust (N) | 2563 | 1281 | 640 | 320 | |
| | 最大空載扭矩 Max. No-load Driving Torque (N·m) | 0.1 | 0.12 | 0.16 | 0.2 | |
| 最大扭矩 Max. Driving Torque (N·m) | 10.9 | 12.5 | 14 | 16 | | |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 100-1250 mm/ 50 Pitch | | | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 400 / 750 | | | | |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | ø20 / ø25 | | | | |
| | 高剛性直線滑軌 Linear Guide (mm) | 20# × 2 PCS | | | | |
| | 主機版面最大外形 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.

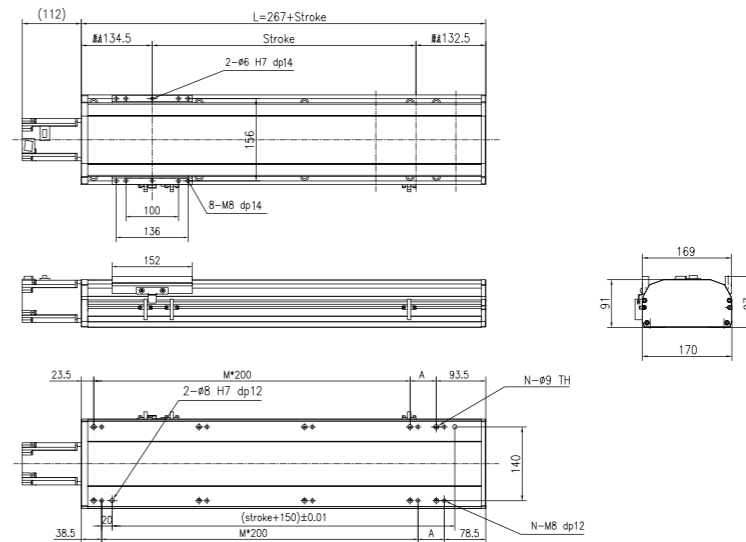
#注2: 測定條件為無力矩的理論數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。

#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

Sub-standard semi-tight screw drive type

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



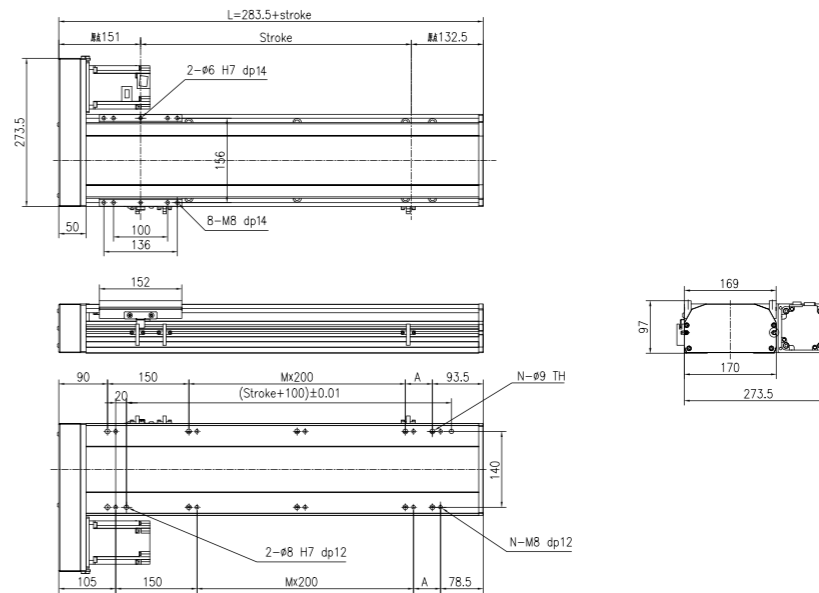
2D&3D文檔下載請至
www.limonrobot.cn

| 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 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| 重量 Weight (kg) | 11.8 | 12.6 | 13.4 | 14.2 | 15 | 15.7 | 16.5 | 17.3 | 18.2 | 19 | 19.8 | 20.6 | 21.4 | 22.2 | 23 | 23.8 | 24.6 | 25.4 | 26.2 | 27 | 27.8 | 28.6 | 29.4 | 30.2 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 40 | | | | | | | | | | | | | | | | 1600 | | 1500 | | 1000 | | 900 | |
| | 導程 Pitch 20 | | | | | | | | | | | | | | | | 1000 | | 650 | | 500 | | 450 | |
| | 導程 Pitch 10 | | | | | | | | | | | | | | | | 500 | | 325 | | 250 | | 225 | |
| | 導程 Pitch 05 | | | | | | | | | | | | | | | | 250 | | 200 | | 162.5 | | 125 | |

#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 | 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 | | 1500 | | 1000 | | 900 | |
| | 導程 Pitch 20 | | | | | | | | | | | | | | | | 1000 | | 650 | | 500 | | 450 | |
| | 導程 Pitch 10 | | | | | | | | | | | | | | | | 500 | | 325 | | 250 | | 225 | |
| | 導程 Pitch 05 | | | | | | | | | | | | | | | | 250 | | 200 | | 162.5 | | 125 | |

#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。

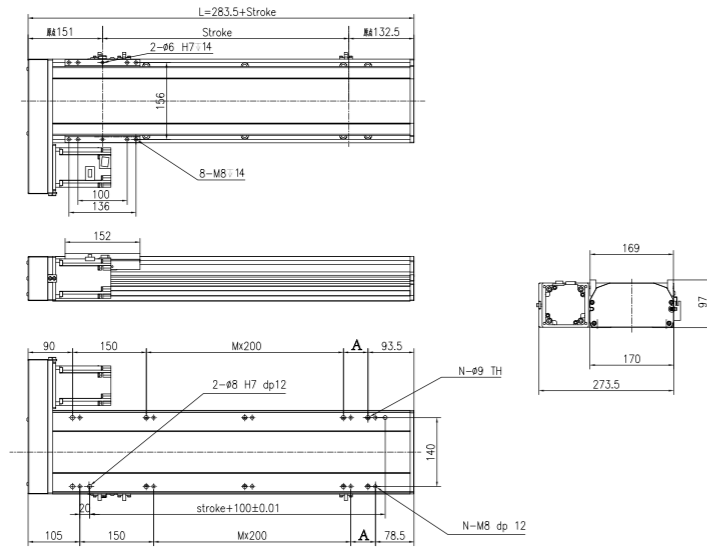
#Note1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO 170 亞標半密式螺桿驅動型

Sub-standard semi-tight screw drive type

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

2D&3D文檔下載請至
www.limonrobot.cn

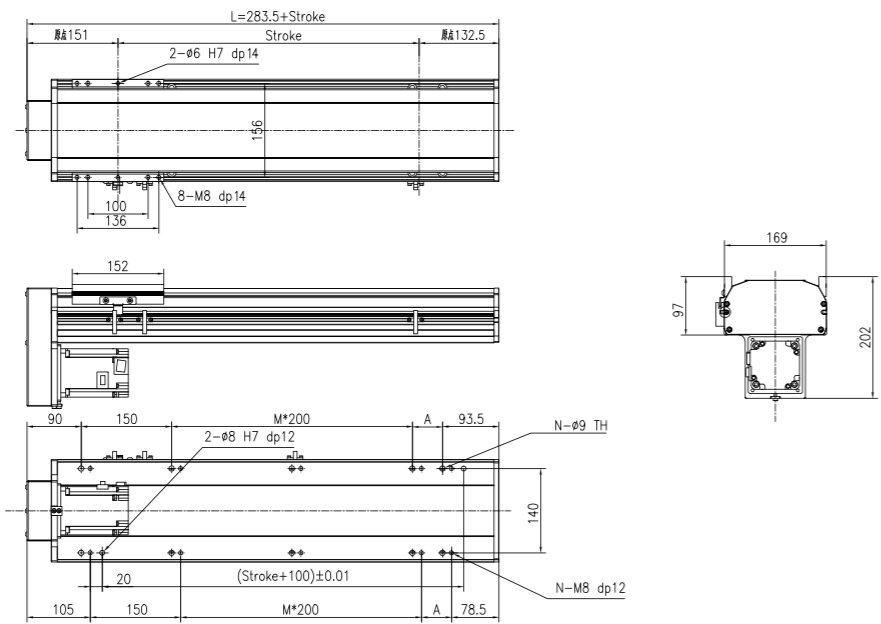


| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| L | 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) | | | | | | | | | | | | | | | | | 1600 | 1500 | 1000 | 900 | | | | |
| 導程 Pitch 40 | | | | | | | | | | | | | | | | | 2000 | | | | | | | |
| 導程 Pitch 20 | | | | | | | | | | | | | | | | | 1000 | | | | | | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | 500 | | | | | | | |
| 導程 Pitch 05 | | | | | | | | | | | | | | | | | 250 | | | | | | | |

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

YSO170-4P-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 | 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) | | | | | | | | | | | | | | | | | 1600 | 1500 | 1000 | 900 | | | | |
| 導程 Pitch 40 | | | | | | | | | | | | | | | | | 2000 | | | | | | | |
| 導程 Pitch 20 | | | | | | | | | | | | | | | | | 1000 | | | | | | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | 500 | | | | | | | |
| 導程 Pitch 05 | | | | | | | | | | | | | | | | | 250 | | | | | | | |

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

YSO 220 亞標半密式螺桿驅動型

Sub-standard semi-tight screw drive type

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 32 | 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 | |

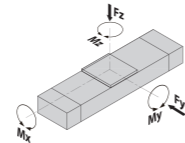
注: 輔助滑塊選項相關參數參見樣本P209.



精度 ±0.005mm

最大動態力和力矩

Max Permissible Forces And Torques

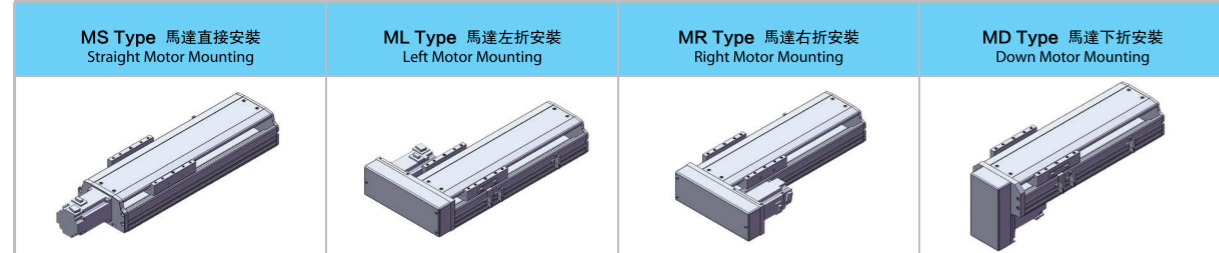


| Type | 4P |
|-------------|---------|
| ■F(y) (N) | 11923.1 |
| ■F(z) (N) | 11923.1 |
| ■M(x) (N·m) | 1203.8 |
| ■M(y) (N·m) | 528.5 |
| ■M(z) (N·m) | 760.8 |

除了滿足最大負載和力矩外, 還必須滿足以下公式:

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

馬達安裝方向 Motor Mounting Position Version



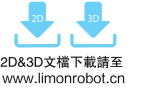
基本規格 Basic Specification

| YSO220 | | 4P(導軌滑塊數量) Block Quantity | | | | |
|--------------------------------|---|---------------------------|------|------|------|----|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.005 | | | | |
| | 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | 25 | 32 | |
| | 最高速度 Maximum Speed (mm/s) | 250 | 500 | 1250 | 2000 | |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 160 | 160 | 140 | 80 |
| | | 垂直使用Vertical (kg) | 80 | 70 | 45 | 30 |
| | 定額推力 Rated Thrust (N) | 2563 | 1281 | 640 | 320 | |
| | 最大空載扭矩 Max. No-load Driving Torque (N·m) | 0.1 | 0.12 | 0.16 | 0.2 | |
| 最大扭矩 Max. Driving Torque (N·m) | 10.9 | 12.5 | 14 | 16 | | |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 100-1500 mm/ 50 Pitch | | | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 750 | | | | |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | ø25 / ø32 | | | | |
| | 高剛性直線滑軌 Linear Guide (mm) | 25# × 2 PCS | | | | |
| | 主機版面最大外形 Max Outline of Main Engine's Cross Section (mm) | 230 × 97 | | | | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | | | | |

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

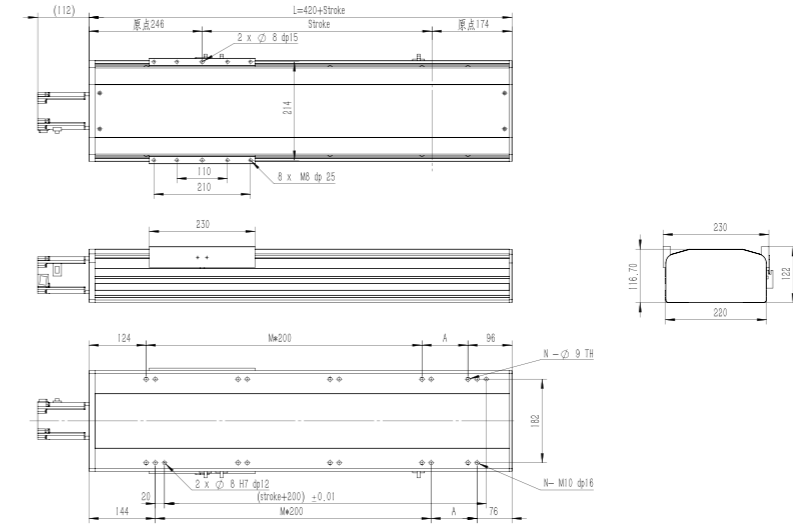
亞標半密式螺桿驅動型 YSO 220

Sub-standard semi-tight screw drive type



2D&3D文件下載請至
www.limonrobot.cn

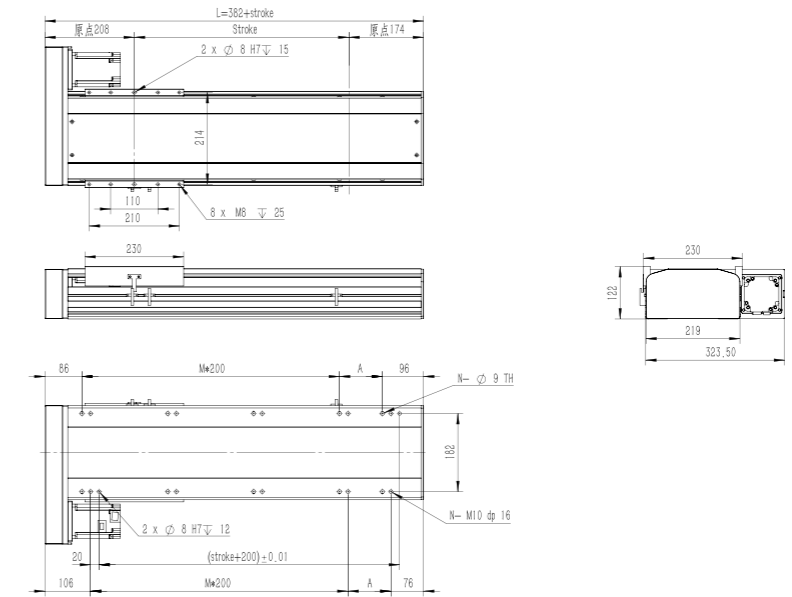
YSO220-MS 馬達直接安裝 Straight Motor Mounting



| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
|----------------------------|-------------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L | 470 | 520 | 570 | 620 | 670 | 720 | 770 | 820 | 870 | 920 | 970 | 1020 | 1070 | 1120 | 1170 | 1220 | 1270 | 1320 | 1370 | 1420 | 1470 | 1520 | 1570 | 1620 | 1670 | 1720 | 1770 | 1820 | 1870 | 1920 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 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) | 導程 Pitch 40 | 2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 25 | 1250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO220-ML 馬達左折安裝 Left Motor Mounting



| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
|----------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L | 432 | 482 | 532 | 582 | 632 | 682 | 732 | 782 | 832 | 882 | 932 | 982 | 1032 | 1082 | 1132 | 1182 | 1232 | 1282 | 1332 | 1382 | 1432 | 1482 | 1532 | 1582 | 1632 | 1682 | 1732 | 1782 | 1832 | 1882 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 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) | 導程 Pitch 40 | 2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 25 | 1250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 10 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 05 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

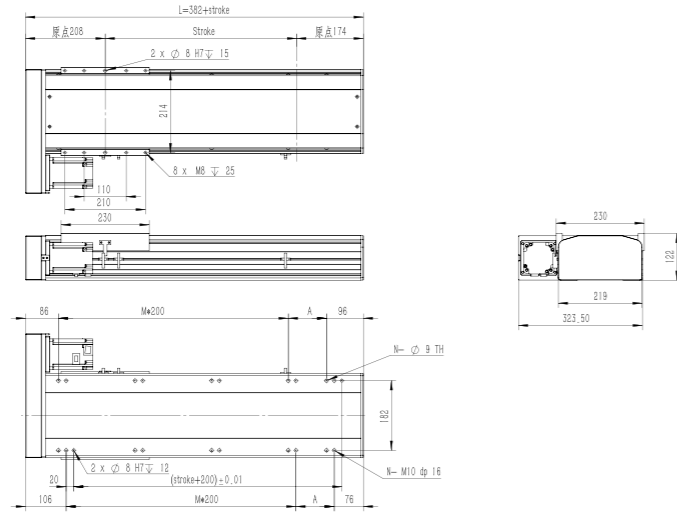
#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO 220 亞標半密式螺桿驅動型

Sub-standard semi-tight screw drive type

YSO220-MR 馬達右折安裝 Right Motor Mounting

2D&3D文檔下載請至
www.limonrobot.cn

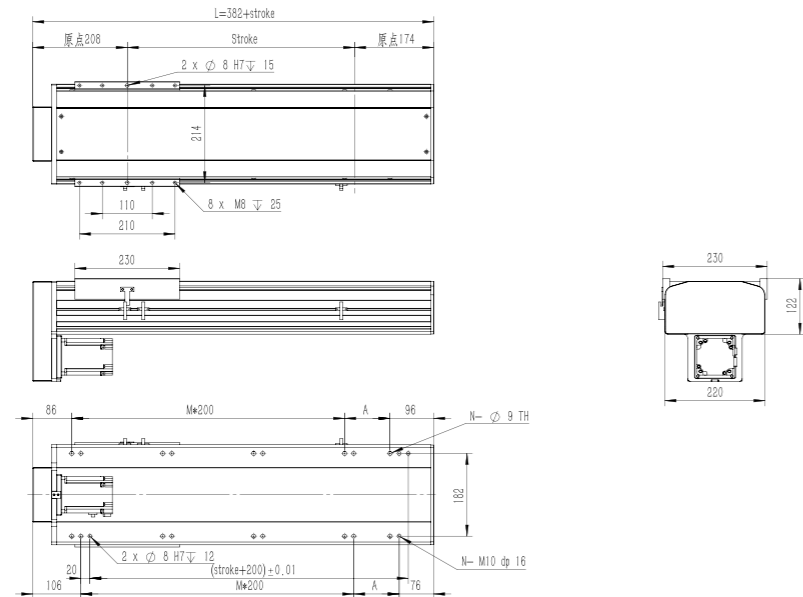


| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | | |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|--|-----|--|
| 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 | | 1125 | | 1000 | | 875 | | 750 | | 625 | | 500 | | | |
| 導程 Pitch 25 | | | | | | | | | | | | | | | | | | | 500 | | 450 | | 400 | | 350 | | 300 | | 250 | | 200 | | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | | | 250 | | 225 | | 200 | | 175 | | 150 | | 125 | | 100 | | | |
| 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.

YSO220-MD 馬達下折安裝 Down Motor Mounting

2D&3D文檔下載請至
www.limonrobot.cn



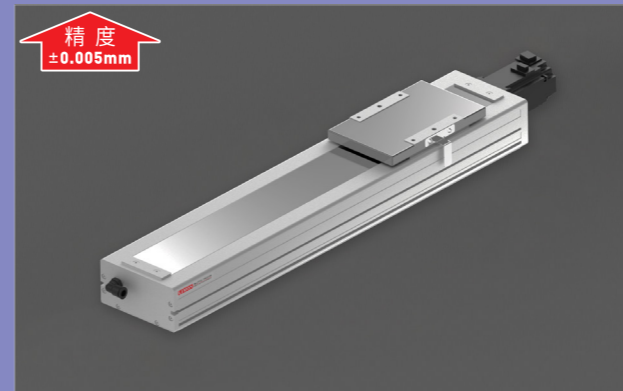
| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | | |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|--|-----|--|
| 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 | | 1125 | | 1000 | | 875 | | 750 | | 625 | | 500 | | | |
| 導程 Pitch 25 | | | | | | | | | | | | | | | | | | | 500 | | 450 | | 400 | | 350 | | 300 | | 250 | | 200 | | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | | | 250 | | 225 | | 200 | | 175 | | 150 | | 125 | | 100 | | | |
| 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.

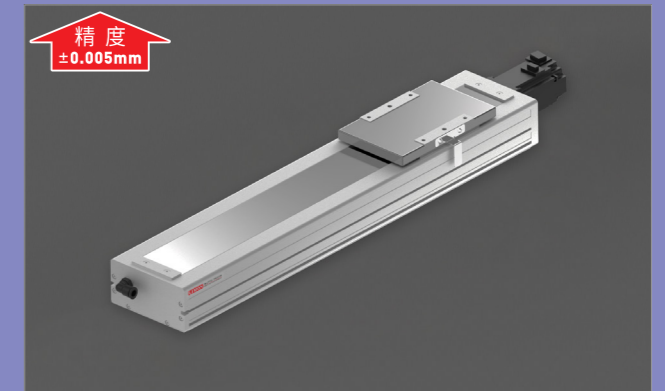
LIMON
PRECISION & SPEED

亞標全密式螺桿驅動型

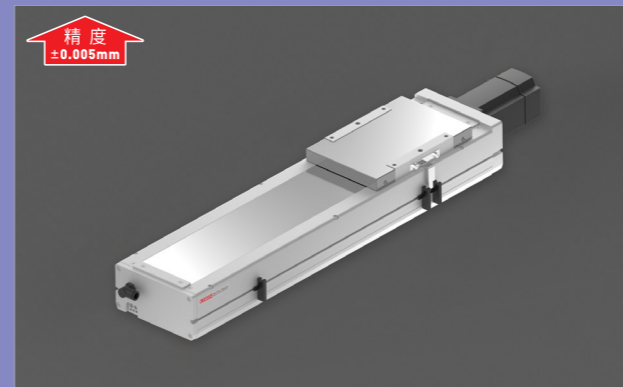
Sub-standard full-tight screw drive type



YSC 135



YSC 135G



YSC 170

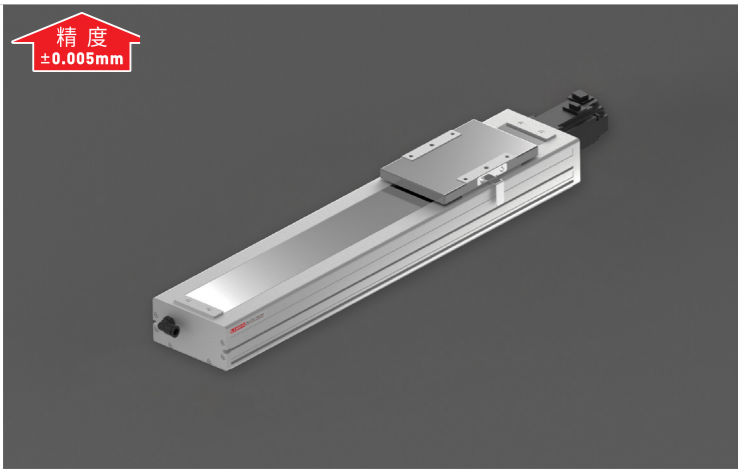
YSC 135 亞標全密式螺桿驅動型

Sub-standard full-tight screw drive type

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 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. |
| | 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 | | 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P209.



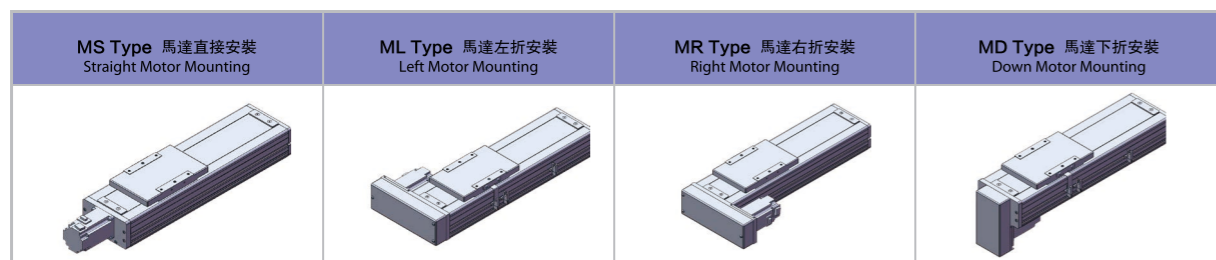
最大動態力和力矩

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

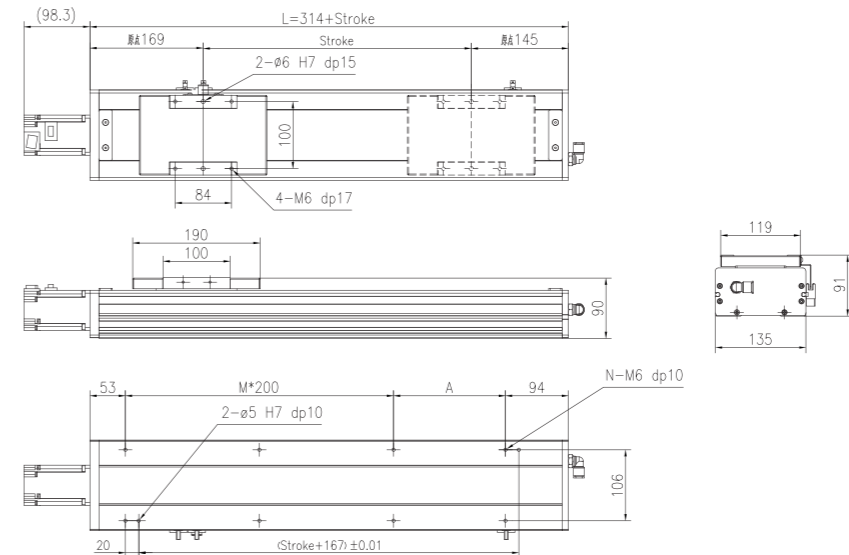
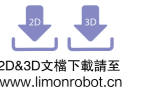
| YSC135 | | 4P(導軌滑塊數量) Block Quantity | | | | |
|--------------------------------|---|---------------------------|------|------|------|----|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.005 | | | | |
| | 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | 16 | 20 | |
| | 最高速度 Maximum Speed (mm/s) | *注1*Note1 | | | | |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 100 | 80 | 60 | 45 |
| | | 垂直使用Vertical (kg) | 50 | 30 | 22 | 16 |
| | 定額推力 Rated Thrust (N) | 683 | 341 | 213 | 174 | |
| | 最大空載扭矩 Max. No-load Driving Torque (N·m) | 0.12 | 0.15 | 0.2 | 0.22 | |
| 最大扭矩 Max. Driving Torque (N·m) | 10.9 | 12.5 | 14 | 16.7 | | |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 100-1250 mm/ 50 Pitch | | | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 200/400 | | | | |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | ø16 / ø20 | | | | |
| | 高剛性直線滑軌 Linear Guide (mm) | 15# × 2 PCS | | | | |
| | 主機版面最大外形 Max Outline of Main Engine's Cross Section (mm) | 135 × 91 | | | | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | | | | |

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

亞標全密式螺桿驅動型 YSC 135

Sub-standard full-tight screw drive type

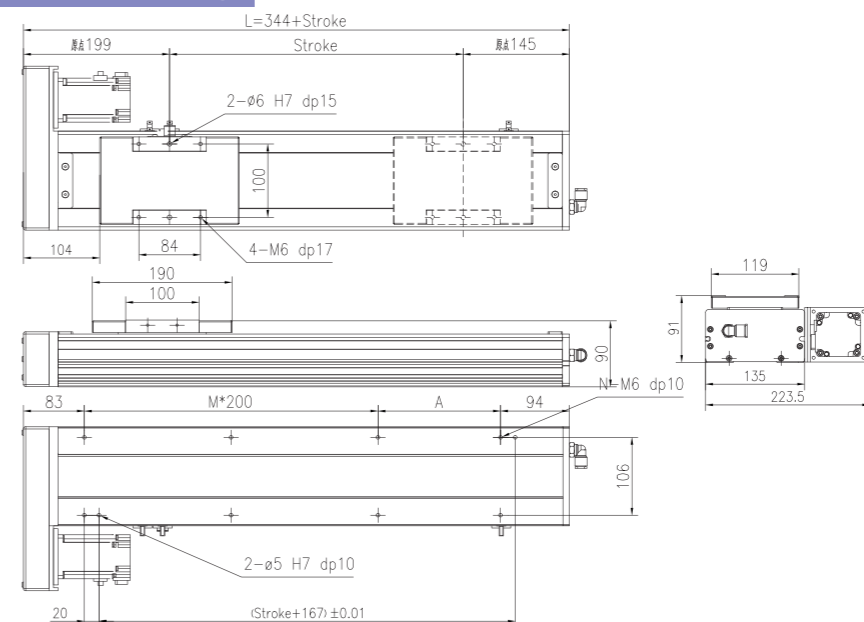
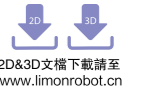
YSC135-4P-MS 馬達直接安裝 Straight Motor Mounting



| 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 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | |
| | | | | | | | | | | | | | | | | | | | | 640 | 520 | 400 | 360 | |
| | | | | | | | | | | | | | | | | | | | | 400 | 325 | 250 | 225 | |
| | | | | | | | | | | | | | | | | | | | | 200 | 162.5 | 125 | 112.5 | |

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

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



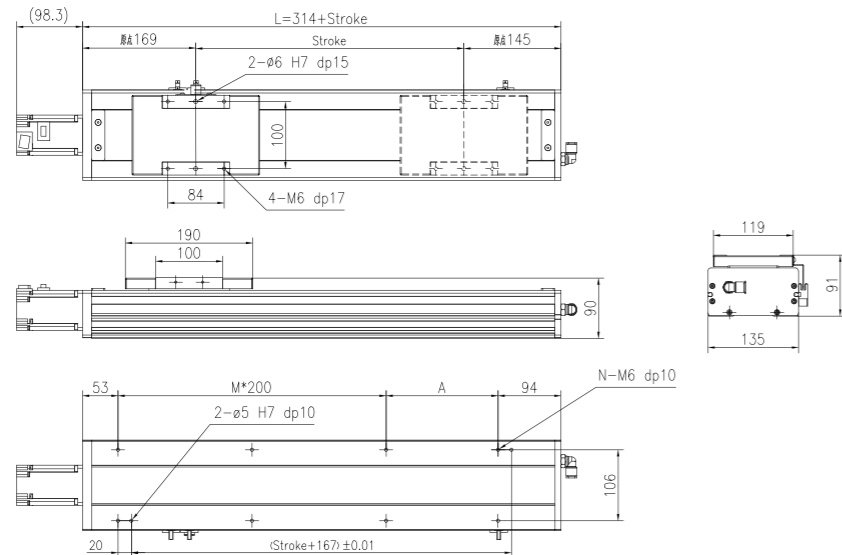
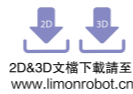
| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|----------------------------|-------------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|
| 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 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | |
| | | | | | | | | | | | | | | | | | | | | 640 | 520 | 400 | 360 | |
| | | | | | | | | | | | | | | | | | | | | 400 | 325 | 250 | 225 | |
| | | | | | | | | | | | | | | | | | | | | 200 | 162.5 | 125 | 112.5 | |

#注1: 行程超過900mm時, 可能會產生嚴重的共振現象, 此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.
#注2: 此表格對應數據為ø20螺桿的危險速度, ø16螺桿參照YSO100(P19頁)。
#Note2: This sheet's data is dangerous speed of ball screw ø20. Data of ø16 is referred to YSO100(P19)

YSC 135 亞標全密式螺桿驅動型

Sub-standard full-tight screw drive type

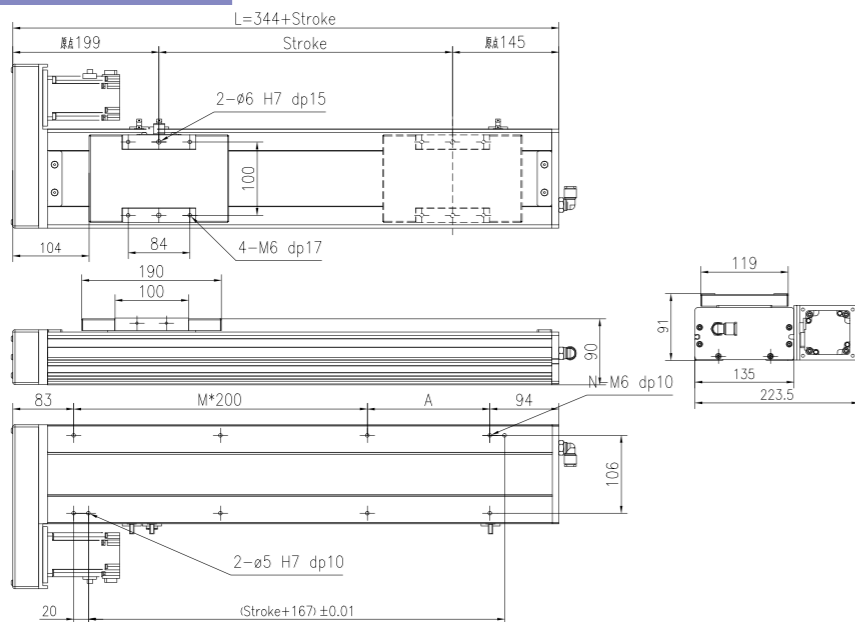
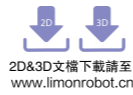
YSC135-4P-MS 馬達直接安裝 Straight Motor Mounting



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

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

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

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

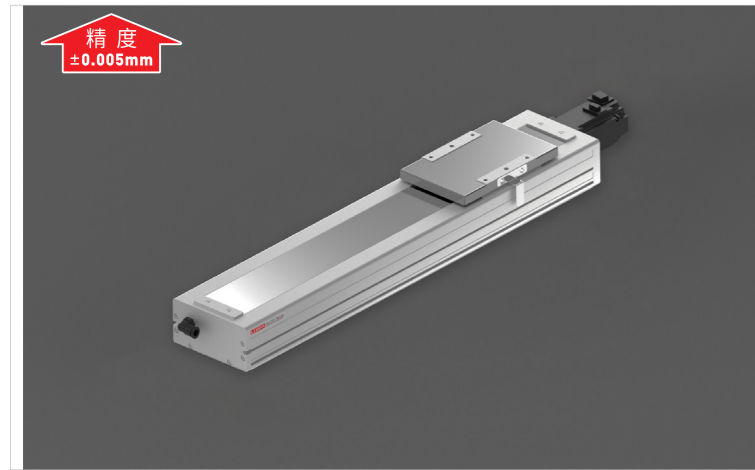
YSC 135G 亞標全密式螺桿驅動型

Sub-standard full-tight screw drive type

訂購型號代碼 Code

| | | | | | | | | |
|---------------|----------------------|---------------------|-------------------------|---|----------------------|---|--|------------------------|
| YSC135G | 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 | 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 - 1K - | P1: 1祇 1PCS P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 No Mark: NoSensor | |

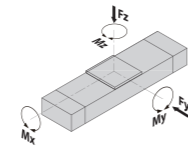
注: 輔助滑塊選項相關參數參見樣本P209.



精度
±0.005mm

最大動態力和力矩

Max Permissible Forces And Torques

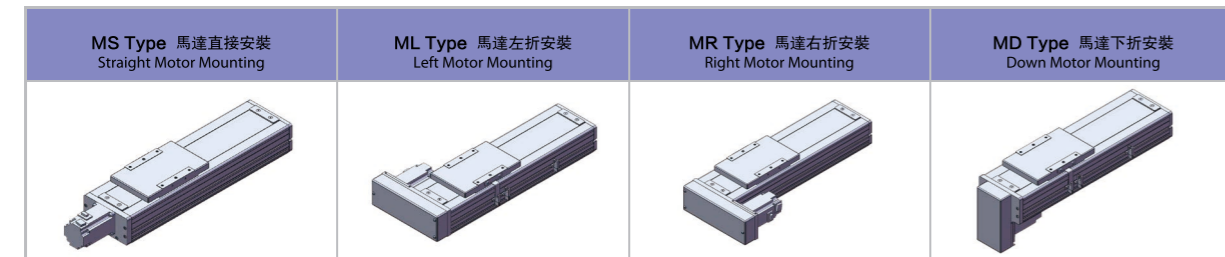


| Type | 2P | 4P |
|------------|------|------|
| F(y) (N) | 2684 | 5370 |
| F(z) (N) | 2684 | 5370 |
| M(x) (N·m) | 95 | 142 |
| M(y) (N·m) | 32 | 104 |
| M(z) (N·m) | 172 | 346 |

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

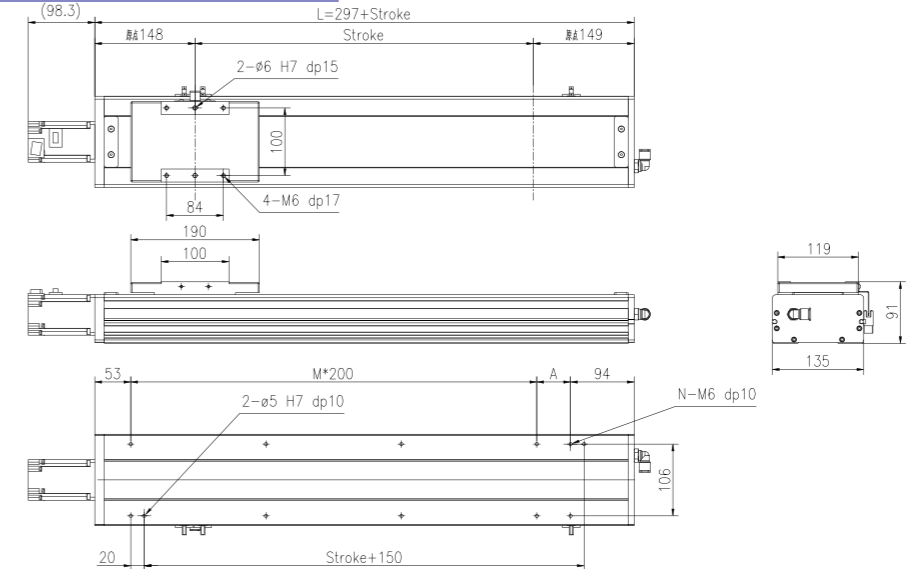
| YSC135G | | 4P(導軌滑塊數量) Block Quantity | | | | |
|---|--|---------------------------|------|------|------|----|
| 技術參數 Technical Parameters | 位置重複精度 Repetitive Accuracy (mm) | ±0.005 | | | | |
| | 螺桿導程 Ball Screw Lead (mm) | 5 | 10 | 16 | 20 | |
| | 最高速度 Maximum Speed (mm/s) | 250 500 800 1000 | | | | |
| | 最大可搬重量 Maximum Payload | 水平使用Horizontal (kg) | 100 | 80 | 60 | 45 |
| | | 垂直使用Vertical (kg) | 50 | 30 | 22 | 16 |
| | 定額推力 Rated Thrust (N) | 683 | 341 | 213 | 174 | |
| | 最大空載扭矩 Max. No-load Driving Torque (N·m) | 0.12 | 0.15 | 0.2 | 0.22 | |
| 最大扭矩 Max. Driving Torque (N·m) | 10.9 | 12.5 | 14 | 16.7 | | |
| 基本規格 Basic Specification | 標準行程 Stroke (mm) | 100-1250 mm/ 50 Pitch | | | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 200/400 | | | | |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | Ø16 / Ø20 | | | | |
| | 高剛性直線滑軌 Linear Guide (mm) | 15# × 2 PCS | | | | |
| 主機截面最大外形 Max Outline of Main Engine's Cross Section (mm) | 135 × 91 | | | | | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | | | | |

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

亞標全密式螺桿驅動型 YSC 135G

Sub-standard full-tight screw drive type

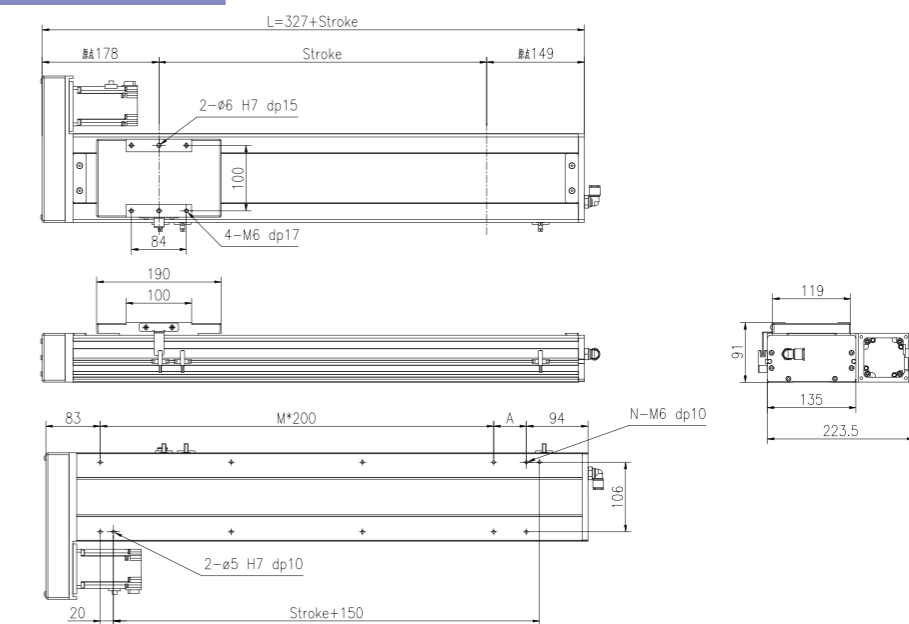
YSC135G-4P-MS 馬達直接安裝 Straight Motor Mounting



| 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.

YSC135G-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 | 427 | 477 | 527 | 577 | 627 | 677 | 727 | 777 | 827 | 877 | 927 | 977 | 1027 | 1077 | 1127 | 1177 | 1227 | 1277 | 1327 | 1377 | 1427 | 1477 | 1527 | 1577 |
| A | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| 重量 Weight (kg) | 8.6 | 9.1 | 9.6 | 10.0 | 10.5 | 11.0 | 11.5 | 11.9 | 12.4 | 12.9 | 13.4 | 13.8 | 14.3 | 14.8 | 15.3 | 15.7 | 16.2 | 16.7 | 17.2 | 17.6 | 18.1 | 18.6 | 19.1 | 19.5 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 20 | 1000 | | | | | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 16 | 800 | | | | | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 10 | 500 | | | | | | | | | | | | | | | | | | | | | | |
| | 導程 Pitch 05 | 250 | | | | | | | | | | | | | | | | | | | | | | |

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

2D&3D文檔下載請至
www.limonrobot.cn

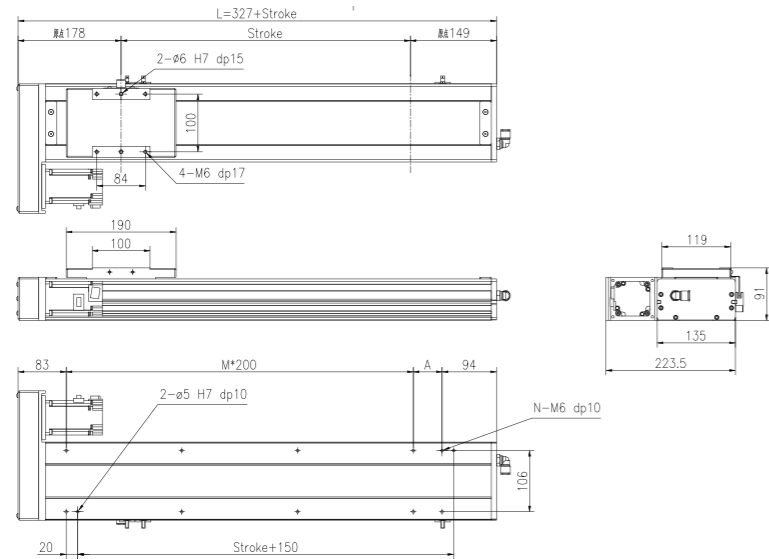
2D&3D文檔下載請至
www.limonrobot.cn

YSC 135G 亞標全密式螺桿驅動型

Sub-standard full-tight screw drive type

YSC135G-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 | 427 | 477 | 527 | 577 | 627 | 677 | 727 | 777 | 827 | 877 | 927 | 977 | 1027 | 1077 | 1127 | 1177 | 1227 | 1277 | 1327 | 1377 | 1427 | 1477 | 1527 | 1577 |
| A | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| 重量 Weight (kg) | 8.6 | 9.1 | 9.6 | 10.0 | 10.5 | 11.0 | 11.5 | 11.9 | 12.4 | 12.9 | 13.4 | 13.8 | 14.3 | 14.8 | 15.3 | 15.7 | 16.2 | 16.7 | 17.2 | 17.6 | 18.1 | 18.6 | 19.1 | 19.5 |
| 最高速度 Max speed (mm/sec) | | | | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | | |
| 導程 Pitch 20 | | | | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | | |
| 導程 Pitch 16 | | | | | | | | | | | | | | | | | | | 640 | 520 | 400 | 360 | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | | | 400 | 325 | 250 | 225 | | |
| 導程 Pitch 05 | | | | | | | | | | | | | | | | | | | 200 | 162.5 | 125 | 112.5 | | |

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

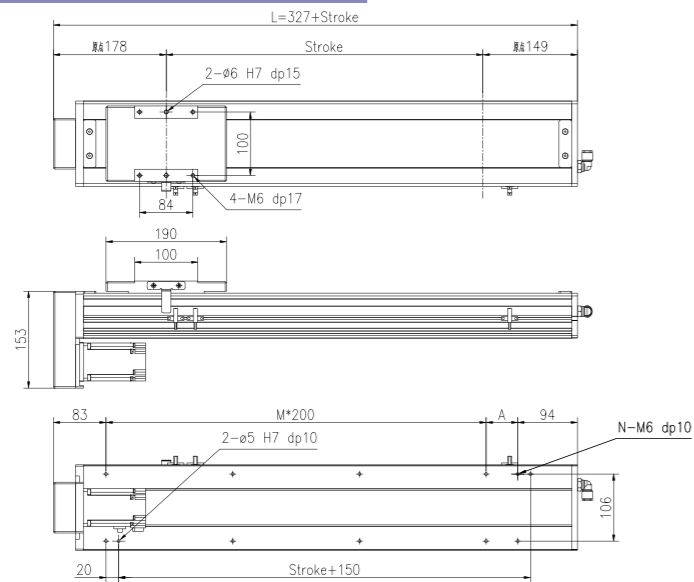
#Note1: When the stroke is more than 900mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

#注2: 此表格對應數據為ø20螺桿的危險速度, ø16螺桿參照YSO100(P19頁)。

#Note2: This sheet's data is dangerous speed of ball screw ø20. Data of ø16 is referred to YSO100(P19)

YSC135G-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 | 427 | 477 | 527 | 577 | 627 | 677 | 727 | 777 | 827 | 877 | 927 | 977 | 1027 | 1077 | 1127 | 1177 | 1227 | 1277 | 1327 | 1377 | 1427 | 1477 | 1527 | 1577 |
| A | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 | 67 | 117 | 167 | 17 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| 重量 Weight (kg) | 8.6 | 9.1 | 9.6 | 10.0 | 10.5 | 11.0 | 11.5 | 11.9 | 12.4 | 12.9 | 13.4 | 13.8 | 14.3 | 14.8 | 15.3 | 15.7 | 16.2 | 16.7 | 17.2 | 17.6 | 18.1 | 18.6 | 19.1 | 19.5 |
| 最高速度 Max speed (mm/sec) | | | | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | | |
| 導程 Pitch 20 | | | | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | | |
| 導程 Pitch 16 | | | | | | | | | | | | | | | | | | | 640 | 520 | 400 | 360 | | |
| 導程 Pitch 10 | | | | | | | | | | | | | | | | | | | 400 | 325 | 250 | 225 | | |
| 導程 Pitch 05 | | | | | | | | | | | | | | | | | | | 200 | 162.5 | 125 | 112.5 | | |

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

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

#注2: 此表格對應數據為ø20螺桿的危險速度, ø16螺桿參照YSO100(P19頁)。

#Note2: This sheet's data is dangerous speed of ball screw ø20. Data of ø16 is referred to YSO100(P19)

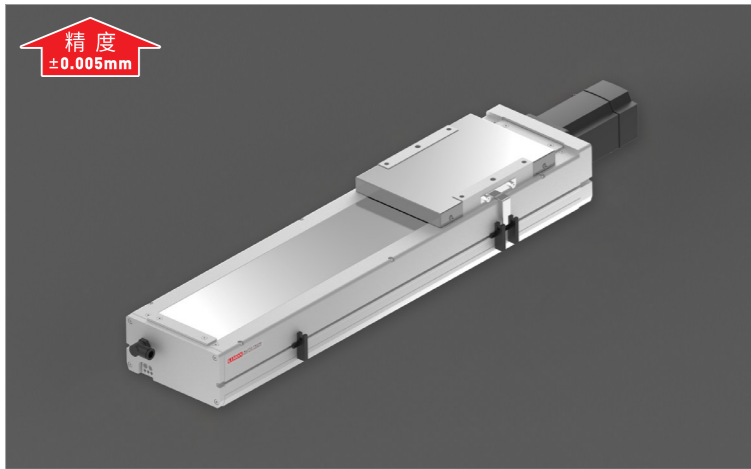
YSC 170 亞標全密式螺桿驅動型

Sub-standard full-tight screw drive type

訂購型號代碼 Code

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

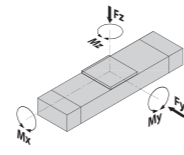
注: 輔助滑塊選項相關參數參見樣本P209.



精度
±0.005mm

最大動態力和力矩

Max Permissible Forces And Torques

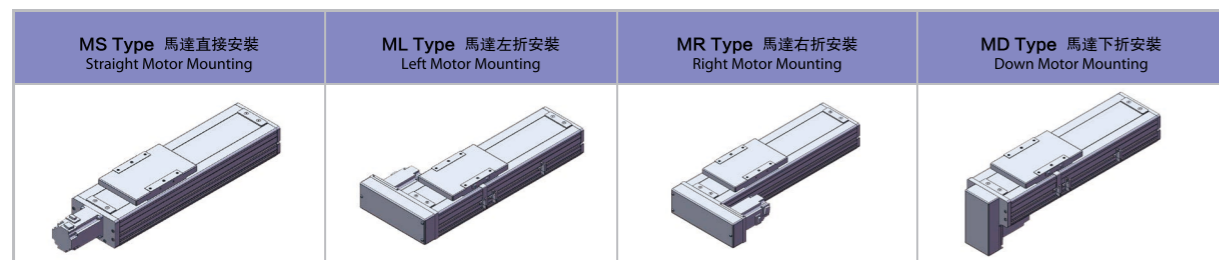


| Type | 4P |
|--------------|------|
| ■ F(y) (N) | 7463 |
| ■ F(z) (N) | 7463 |
| ■ M(x) (N·m) | 339 |
| ■ M(y) (N·m) | 178 |
| ■ M(z) (N·m) | 742 |

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



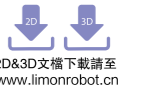
基本規格 Basic Specification

| 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) | *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 | |
| 基本規格 Basic Specification | 最大空載扭矩 Max. No-load Driving Torque (N·m) | 0.1 | 0.12 | 0.16 | 0.2 | |
| | 最大扭矩 Max. Driving Torque (N·m) | 10.9 | 12.5 | 14 | 16 | |
| | 標準行程 Stroke (mm) | 100-1250 mm/ 50 Pitch | | | | |
| | AC伺服馬達容量 AC Servo Motor Output (W) | 400 / 750 | | | | |
| | 滾珠螺桿外徑 Ball Screw Diameter (mm) | ø20 / ø25 | | | | |
| | 高剛性直線滑軌 Linear Guide (mm) | 20# × 2 PCS | | | | |
| 主機版面最大外形 Max Outline of Main Engine's Cross Section (mm) | 170 × 107 | | | | | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | | | | |

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

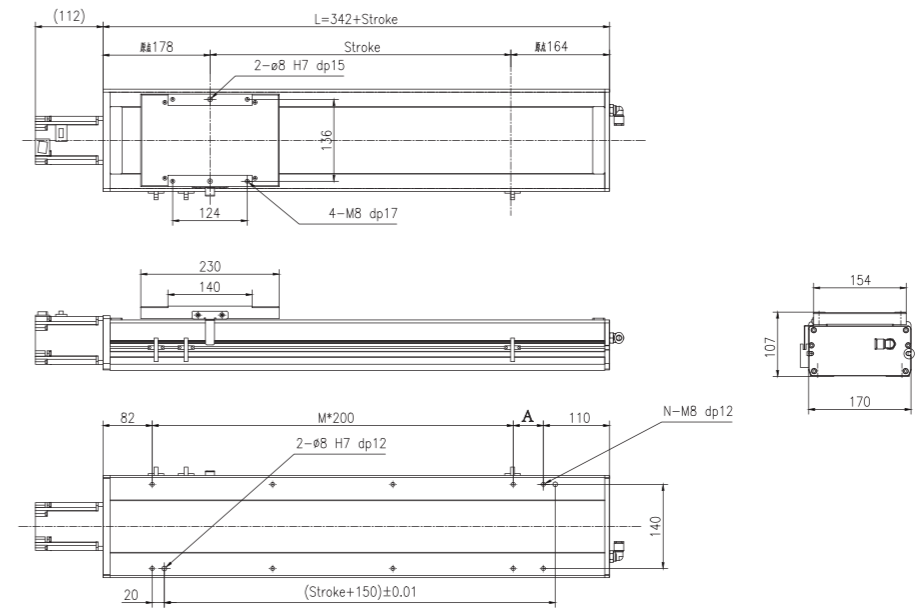
亞標全密式螺桿驅動型 YSC 170

Sub-standard full-tight screw drive type



2D&3D文檔下載請至
www.limonrobot.cn

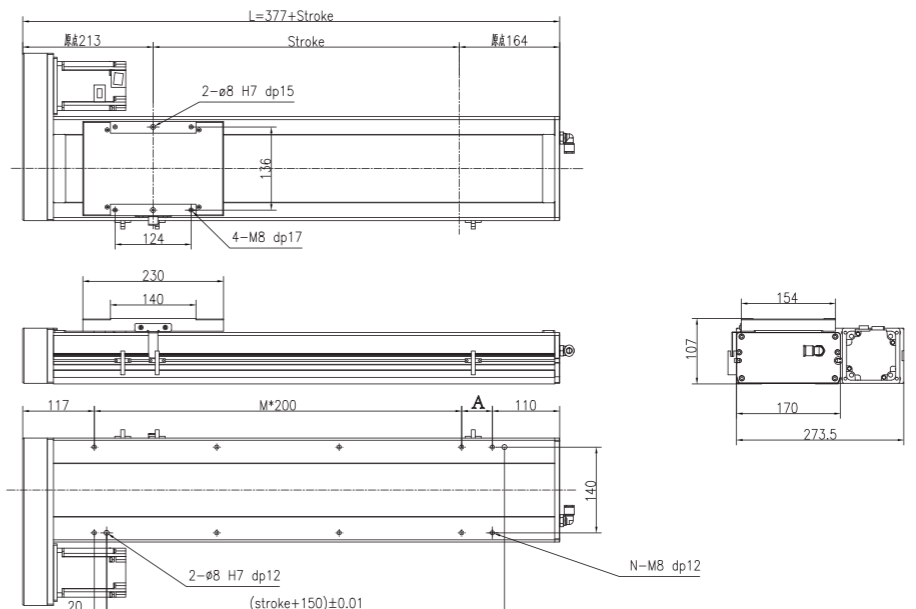
YSC170-4P-MS 馬達直接安裝 Straight Motor Mounting



| 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 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| 重量 Weight (kg) | 14.8 | 15.6 | 16.4 | 17.2 | 17.9 | 18.7 | 19.5 | 20.3 | 21.0 | 21.8 | 22.6 | 23.4 | 24.1 | 24.9 | 25.7 | 26.5 | 27.2 | 28.0 | 28.8 | 29.6 | 30.4 | 31.2 | 32.0 | 32.8 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 40 | | | | | | | | | | | | | | | | 1600 | 1500 | 1000 | 900 | | | | |
| | 導程 Pitch 20 | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | | | | |
| | 導程 Pitch 10 | | | | | | | | | | | | | | | | 400 | 325 | 250 | 225 | | | | |
| | 導程 Pitch 05 | | | | | | | | | | | | | | | | 200 | 162.5 | 125 | 112.5 | | | | |

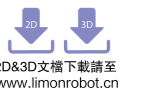
#注1: 行程超過850mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。
#Note1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSC170-4P-ML 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 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| 重量 Weight (kg) | 14.8 | 15.6 | 16.4 | 17.2 | 17.9 | 18.7 | 19.5 | 20.3 | 21.0 | 21.8 | 22.6 | 23.4 | 24.1 | 24.9 | 25.7 | 26.5 | 27.2 | 28.0 | 28.8 | 29.6 | 30.4 | 31.2 | 32.0 | 32.8 |
| 最高速度 Max speed (mm/sec) | 導程 Pitch 40 | | | | | | | | | | | | | | | | 1600 | 1500 | 1000 | 900 | | | | |
| | 導程 Pitch 20 | | | | | | | | | | | | | | | | 800 | 650 | 500 | 450 | | | | |
| | 導程 Pitch 10 | | | | | | | | | | | | | | | | 400 | 325 | 250 | 225 | | | | |
| | 導程 Pitch 05 | | | | | | | | | | | | | | | | 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.



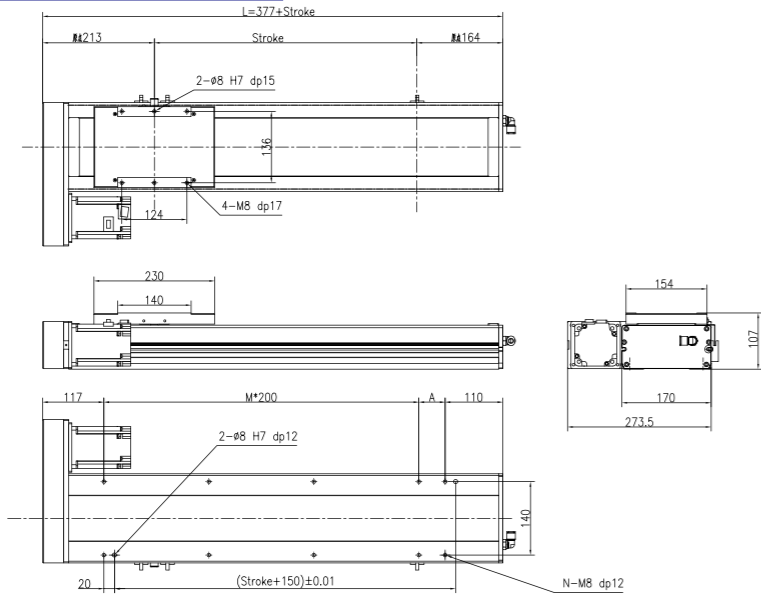
2D&3D文檔下載請至
www.limonrobot.cn

YSC 170 亞標全密式螺桿驅動型

Sub-standard full-tight screw drive type

YSC170-4P-MR 馬達右折安裝 Right Motor Mounting

2D&3D文檔下載請至
www.limonrobot.cn

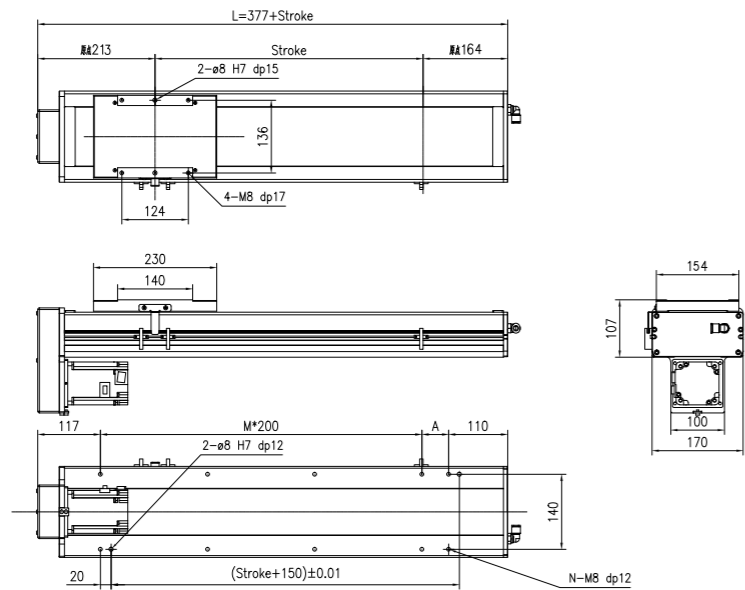


| 行程 Stroke (mm) | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------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

YSC170-4P-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 | 477 | 527 | 577 | 627 | 677 | 727 | 777 | 827 | 877 | 927 | 977 | 1027 | 1077 | 1127 | 1177 | 1227 | 1277 | 1327 | 1377 | 1427 | 1477 | 1527 | 1577 | 1627 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| 重量 Weight (kg) | 14.8 | 15.6 | 16.4 | 17.2 | 17.9 | 18.7 | 19.5 | 20.3 | 21.0 | 21.8 | 22.6 | 23.4 | 24.1 | 24.9 | 25.7 | 26.5 | 27.2 | 28.0 | 28.8 | 29.6 | 30.4 | 31.2 | 32.0 | 32.8 |
| 最高速度 Max speed (mm/sec) | 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.

LIMON
PRECISION & SPEED

亞標半密式同步帶驅動型

Sub-standard semi-dense synchronous belt drive type



YTO 135



YTO 170



YTO 220

YTO135 亞標半密式同步帶驅動型

Sub-standard semi-dense synchronous belt drive type

訂購型號代碼 Code

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

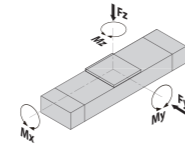
| | | | | | | | |
|----------------------|--|--------------------------------------|--|--|--|---|-------------------------------|
| 本體型號 Item NO. | 行程 Stroke 100-4000 間隔Gap100 | 直線導軌滑塊數量 Block Quantity 4P | 馬達方向 Motor Mounting Position D01 D02 D03 D04 D05 D06 D07 D08 D09 | 輔助滑塊 Auxiliary Block 未填寫單滑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

注: 輔助滑塊選項相關參數參見樣本P209.



最大動態力和力矩

Max Permissible Forces And Torques

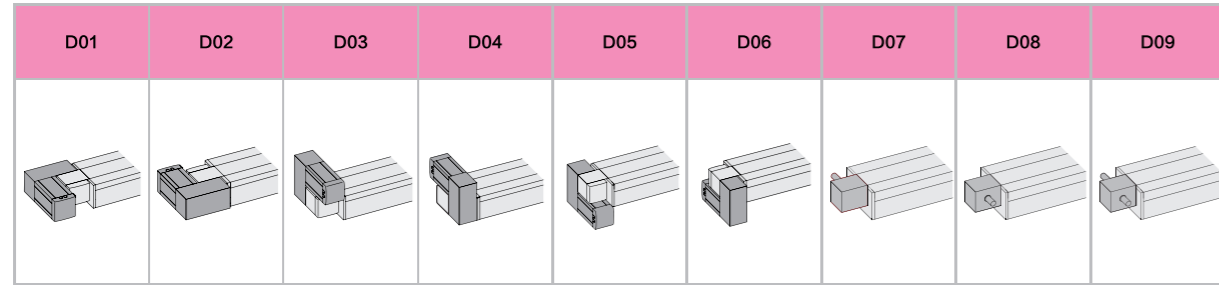


| Type | 4P |
|------------|------|
| F(y) (N) | 5370 |
| F(z) (N) | 5370 |
| M(x) (N·m) | 142 |
| M(y) (N·m) | 104 |
| M(z) (N·m) | 346 |

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

| YTO135 | | 4P(導軌滑塊數量) Block Quantity | |
|--|--|---------------------------|----|
| 技術參數 | 位置重複精度 Repetitive Accuracy (mm) | ±0.05 | |
| | 皮帶輪導程 Pulley Lead (mm) | 110 / 50 #注2#Note2 | |
| | 皮帶型號 Belt type | 5M-25 | |
| | 最高速度 Maximum Speed (mm/s) | 3000 | |
| | 最大可搬重量 Maximum Payload | 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 | 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 | |
| | 主機版面最大外形 Max Outline of Main Engine's Cross Section (mm) | 135 × 93 | |
| | 原點感應器 Home Sensor | EE-SX672(NPN) | |

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

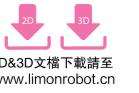
#Note1: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

#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.

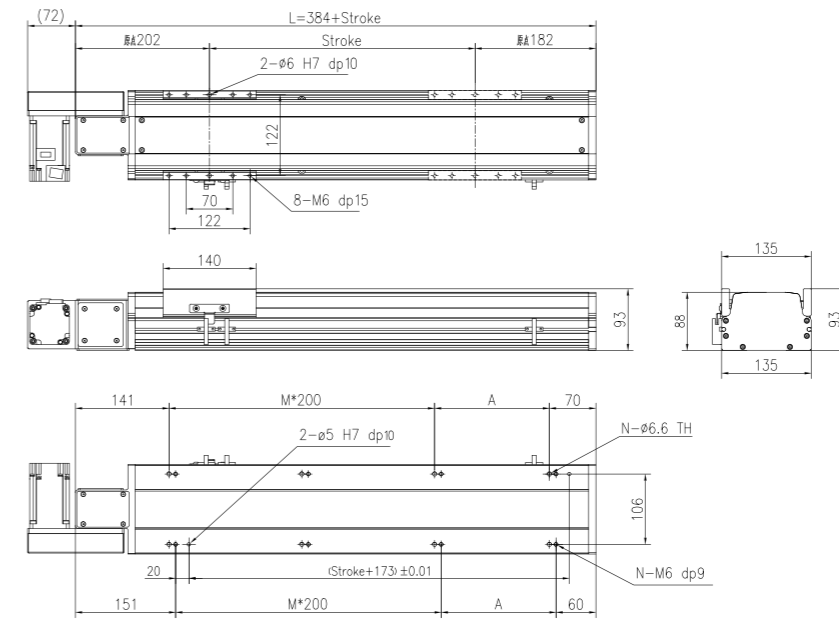
亞標半密式同步帶驅動型 YTO135

Sub-standard semi-dense synchronous belt drive type



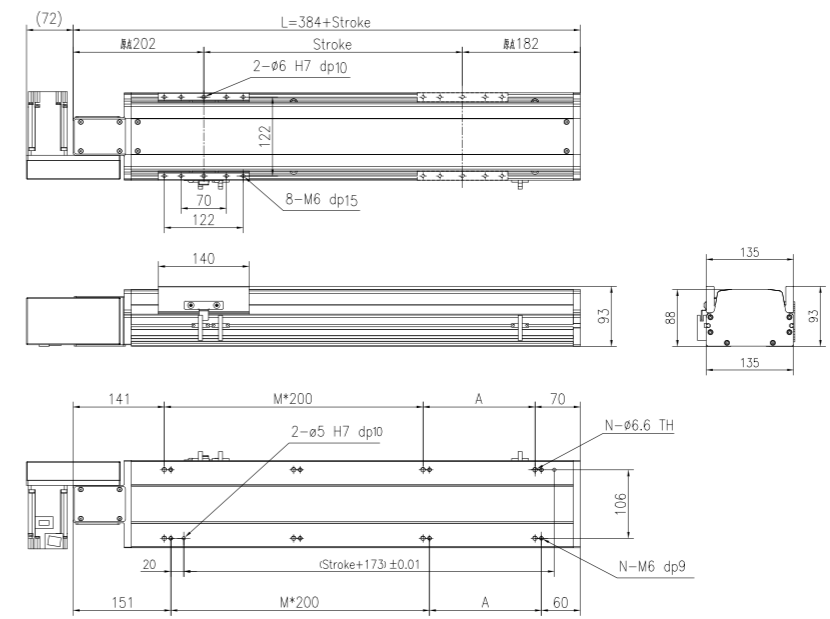
2D&3D文件下載請至
www.limonrobot.cn

YTO135-4P-D01

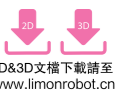


| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

YTO135-4P-D02



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

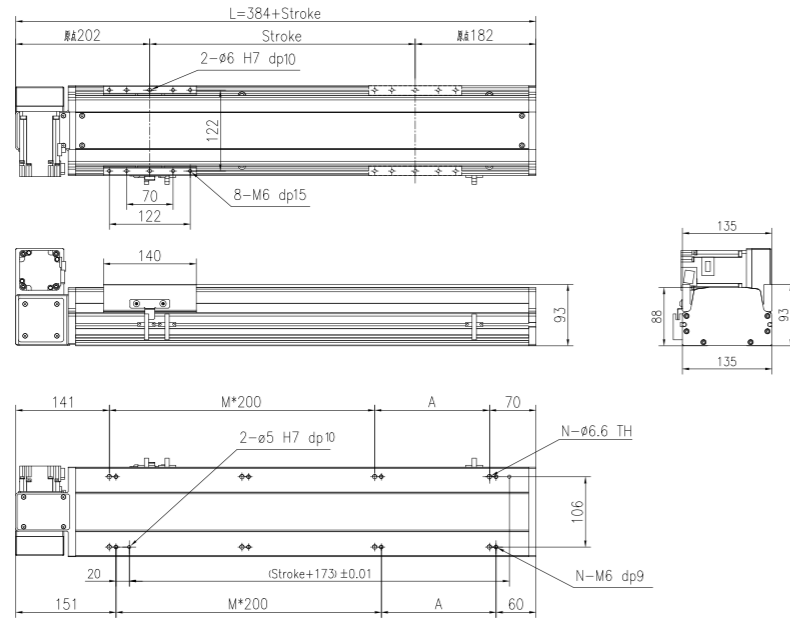


2D&3D文件下載請至
www.limonrobot.cn

YTO135 亞標半密式同步帶驅動型

Sub-standard semi-dense synchronous belt drive type

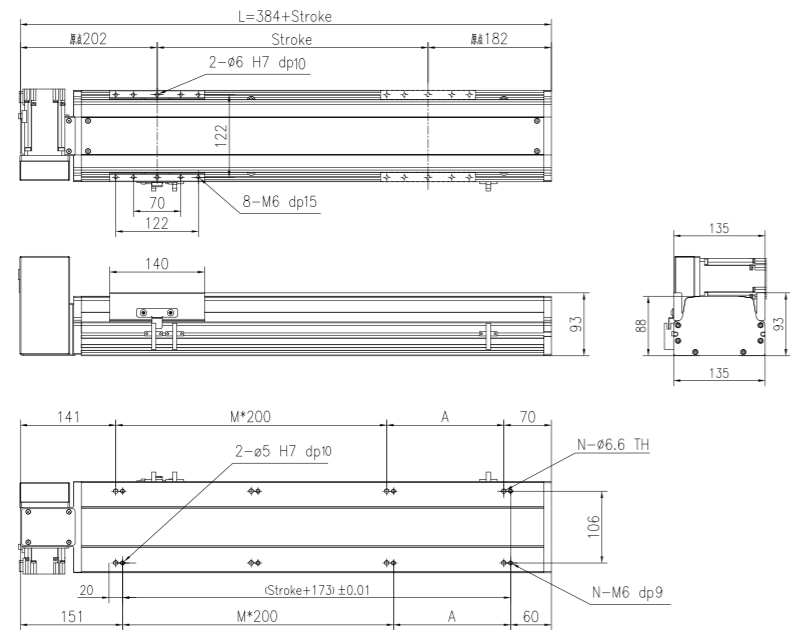
YTO135-4P-D03



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 | 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



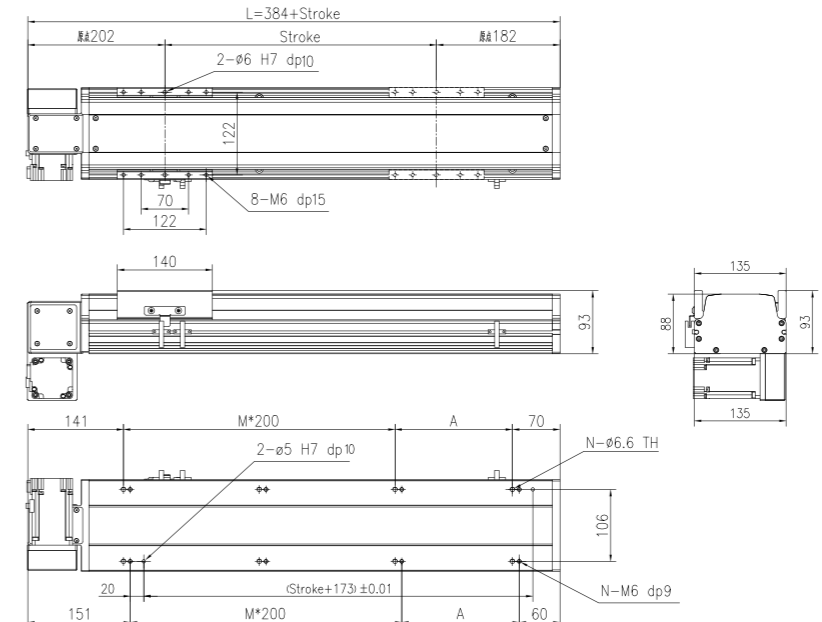
2D&3D文檔下載請至
www.limonrobot.cn

| 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 |

亞標半密式同步帶驅動型 YTO135

Sub-standard semi-dense synchronous belt drive type

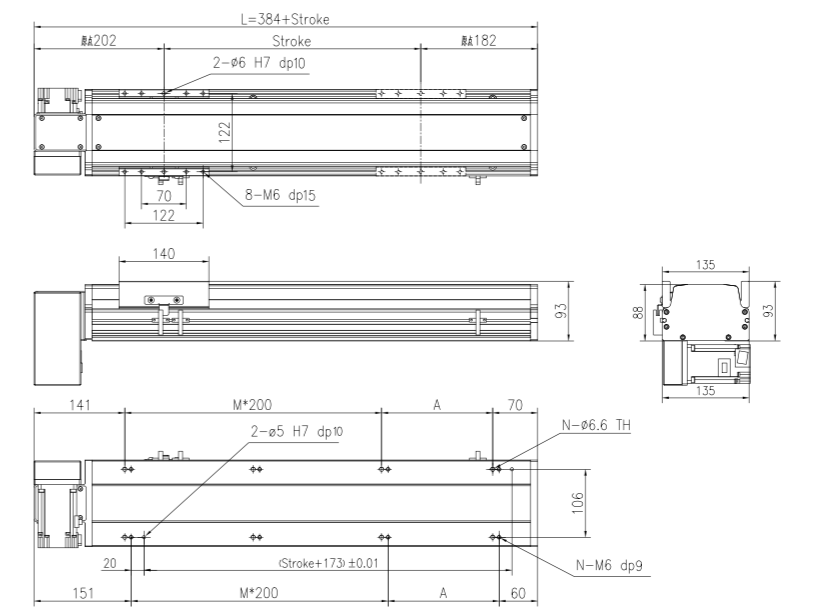
YTO135-4P-D05



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 | 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



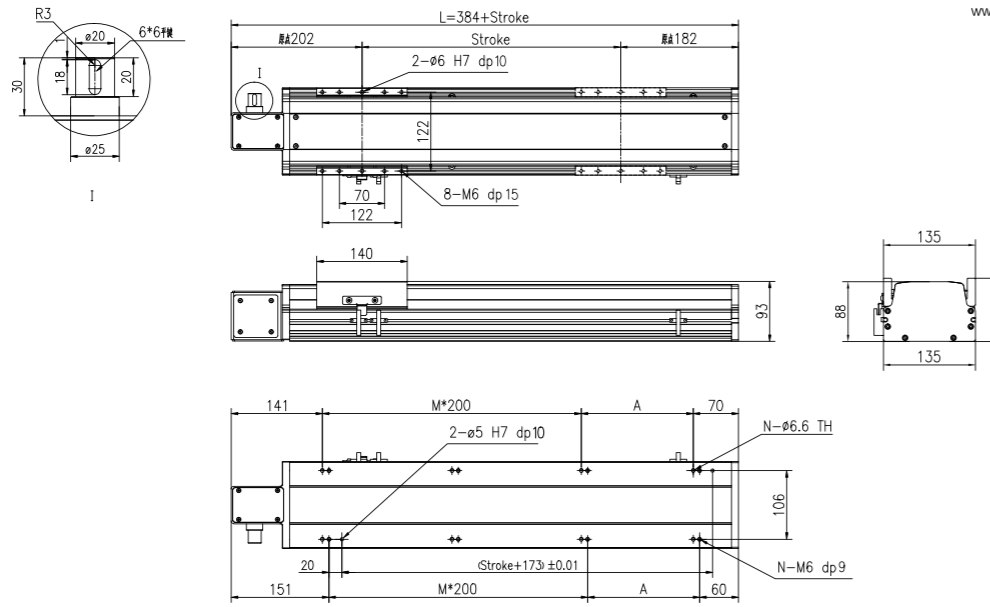
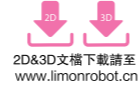
2D&3D文檔下載請至
www.limonrobot.cn

| 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

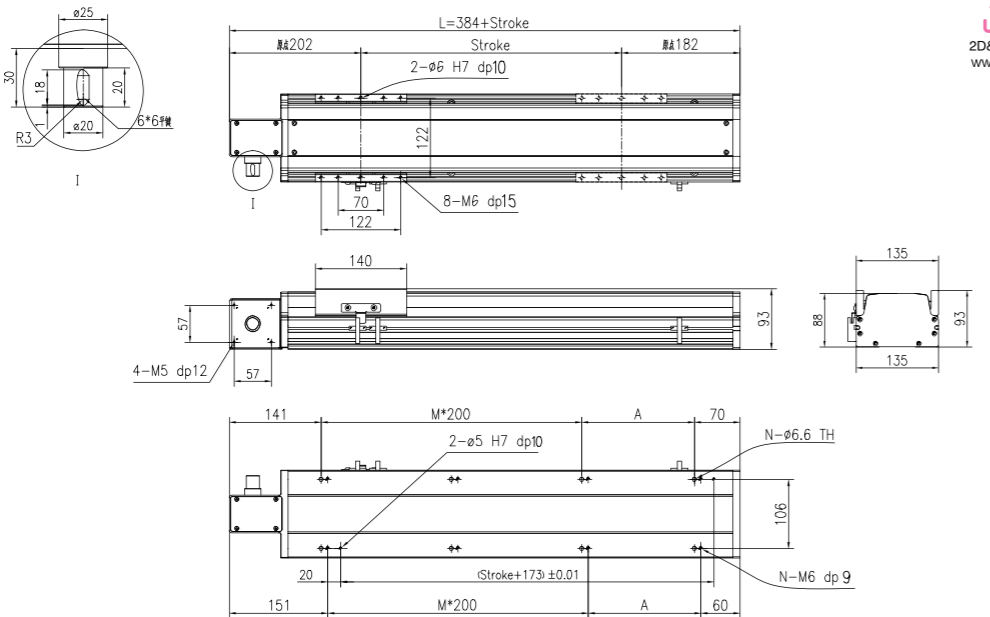
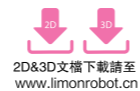
Sub-standard semi-dense synchronous belt drive type

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

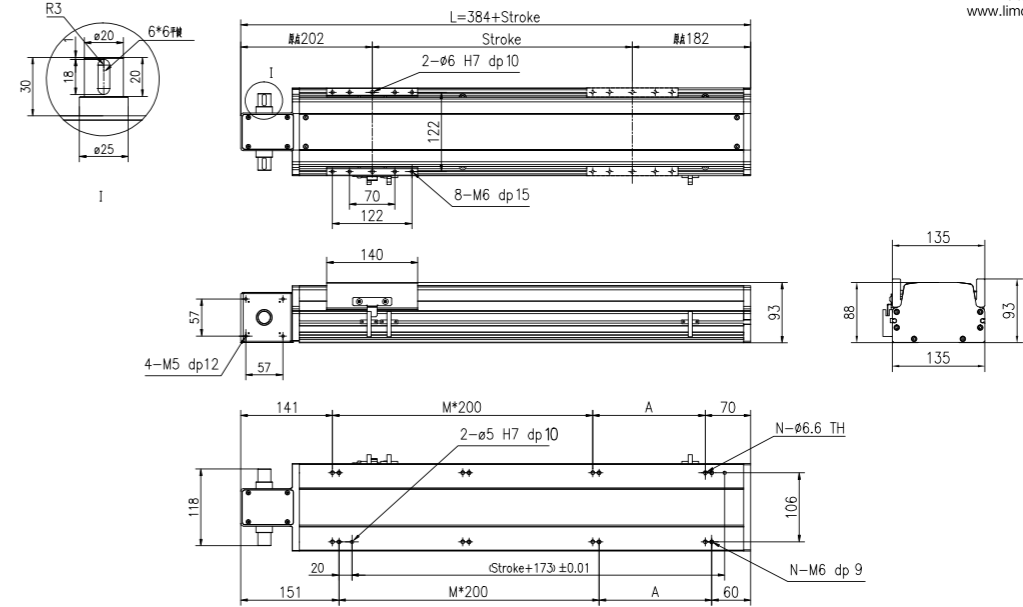
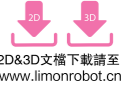


| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

Sub-standard semi-dense synchronous belt drive type

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 |

YTO170 亞標半密式同步帶驅動型

Sub-standard semi-dense synchronous belt drive type

訂購型號代碼 Code

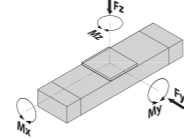
| | | | | | | | |
|---------------|---------------------------------|-------------------------------|---|--|--|---|------------------------|
| YTO170 | 500 | 4P | D01 | DB <small>注</small> | M40 | P3 | A001 |
| 本體型號 Item NO. | 行程 Stroke 100-4000, 間隔Gap100 | 直線導軌滑塊數量 Block Quantity 4P | 馬達方向 Motor Mounting Position D01 D02 D03 D04 D05 D06 D07 D08 D09 | 輔助滑塊 Auxiliary Block 未填寫: 單滑塊 DB: 輔助滑塊 | 馬達廠牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K - | 限位傳感器數量 Photoelectric Sensor P1: 1 祇 1PC P2: 2 祇 2PCS P3: 3 祇 3PCS 未標記: 無 No Mark/No Sensor | 特注式樣 Special Order No. |

注: 輔助滑塊選項相關參數參見樣本P209.



最大動態力和力矩

Max Permissible Forces And Torques

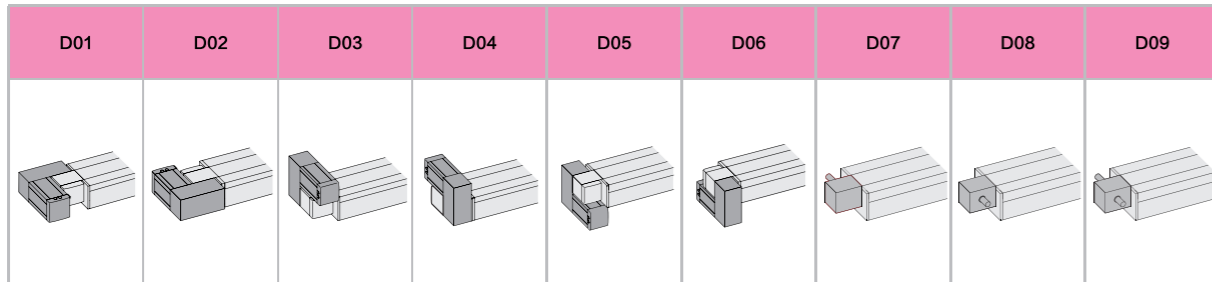


| Type | 4P |
|--------------|------|
| ■ F(y) (N) | 7463 |
| ■ F(z) (N) | 7463 |
| ■ M(x) (N·m) | 339 |
| ■ M(y) (N·m) | 178 |
| ■ M(z) (N·m) | 742 |

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

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

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

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

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

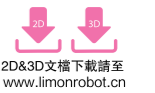
#Note1: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

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

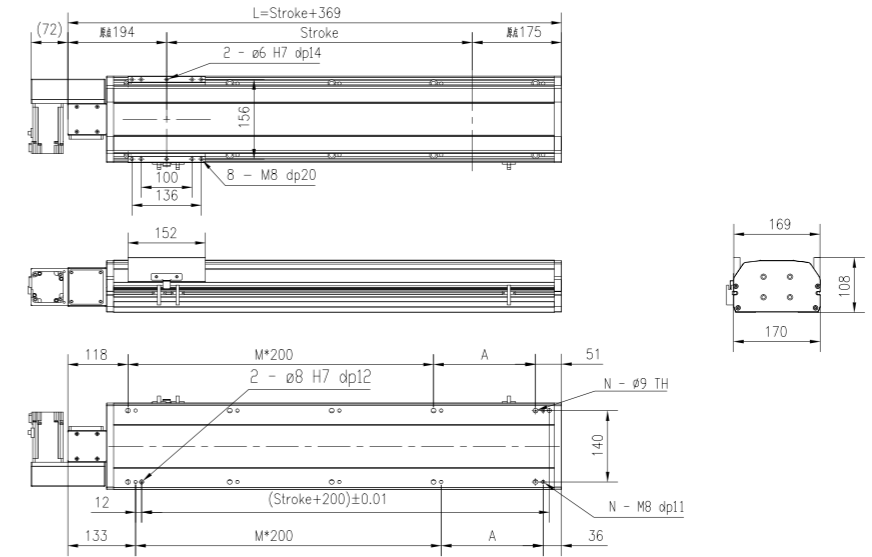
#Note2: Pulley's original lead is 100mm, which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

亞標半密式同步帶驅動型 YTO170

Sub-standard semi-dense synchronous belt drive type

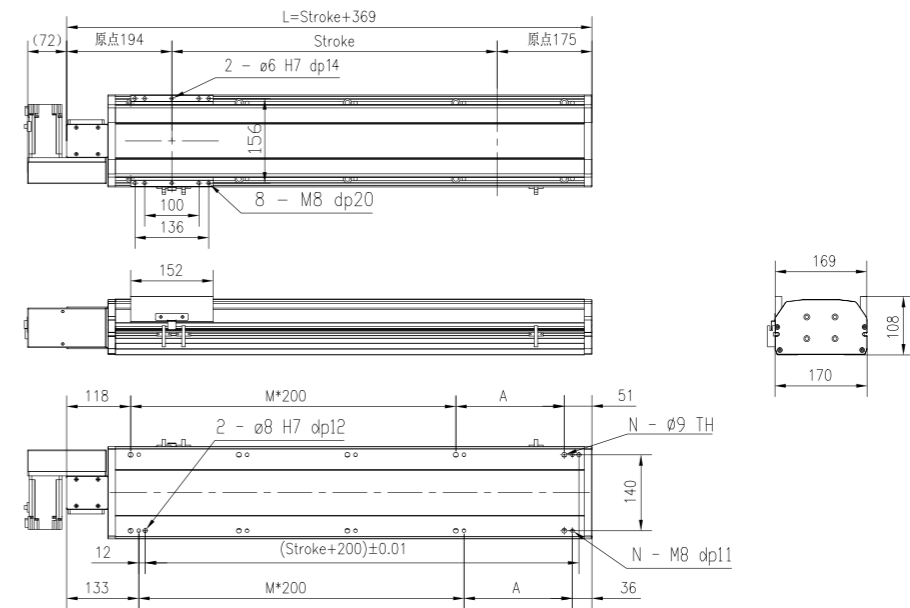


YTO170-4P-D01

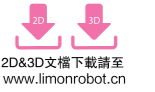


| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

YTO170-4P-D02



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

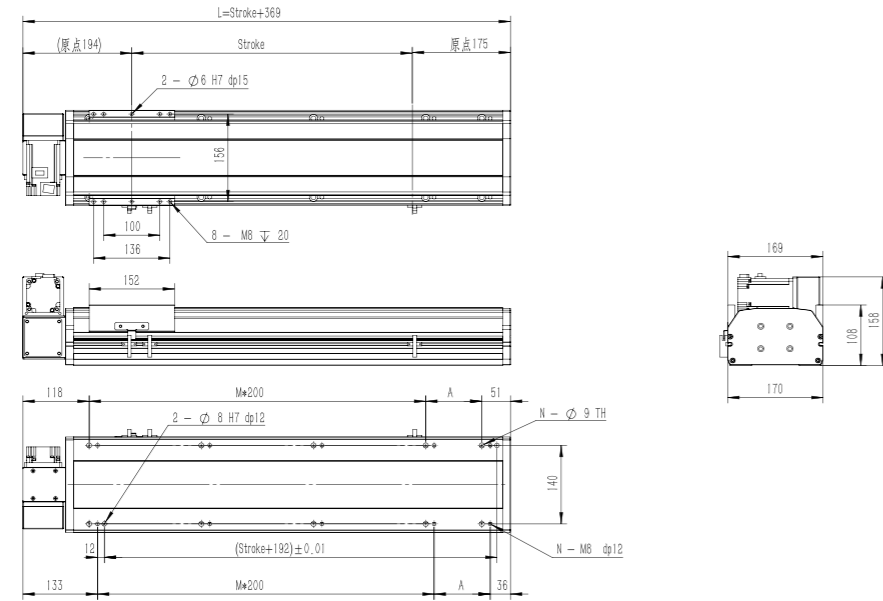


YTO 170 亞標半密式同步帶驅動型

Sub-standard semi-dense synchronous belt drive type

YTO170-4P-D03

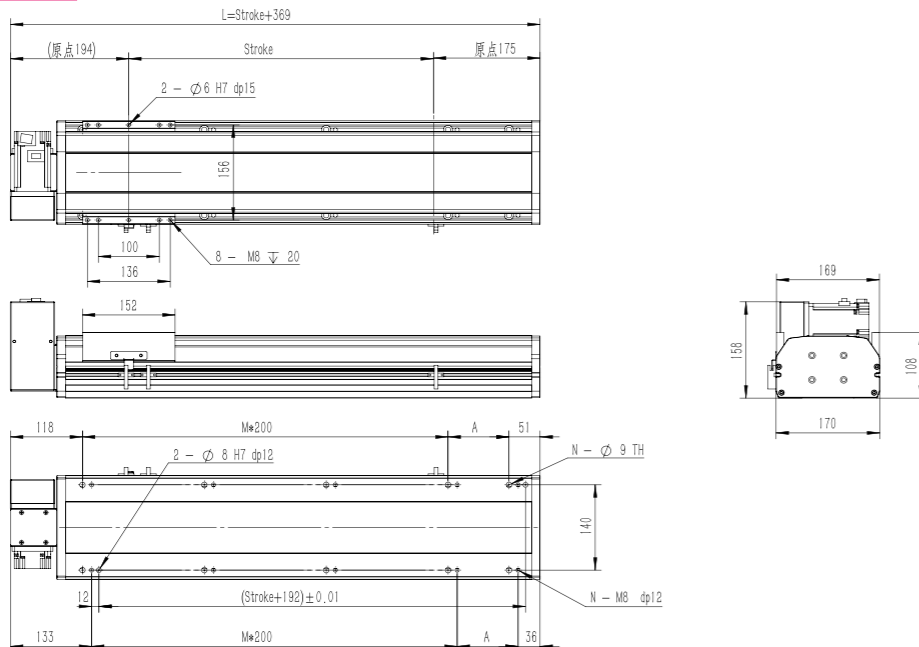
2D&3D文檔下載請至
www.limonrobot.cn



| 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 | 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

2D&3D文檔下載請至
www.limonrobot.cn



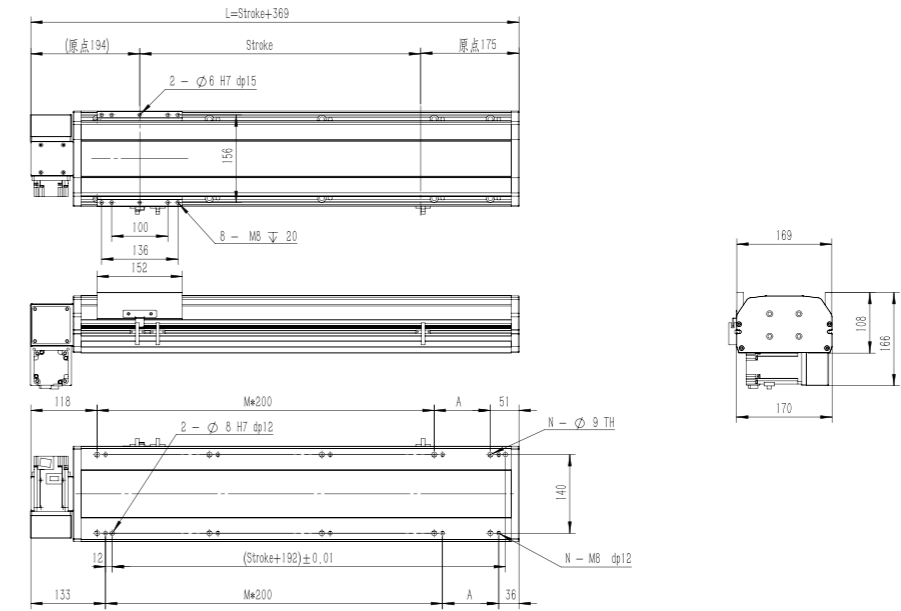
| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

亞標半密式同步帶驅動型 YTO 170

Sub-standard semi-dense synchronous belt drive type

YTO170-4P-D05

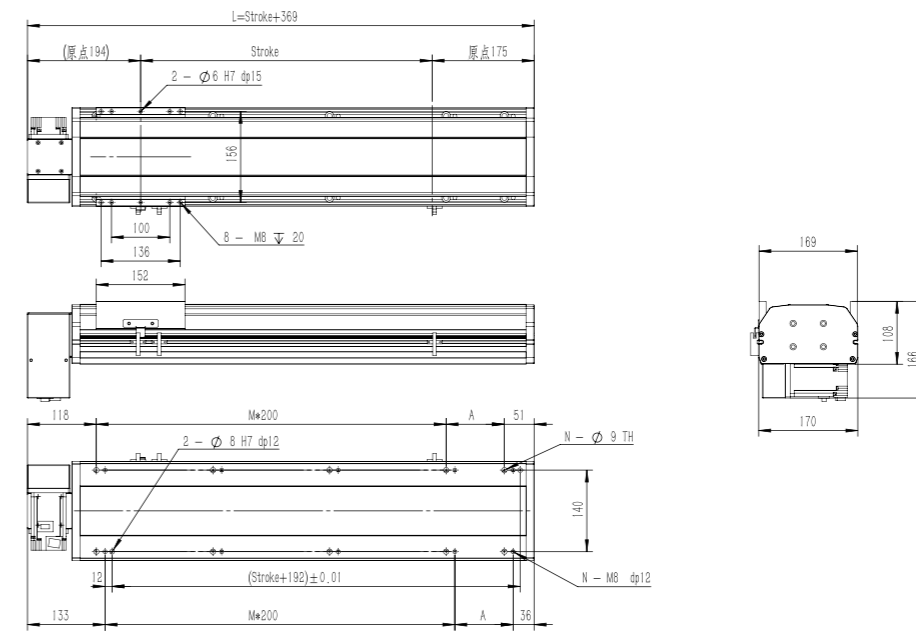
2D&3D文檔下載請至
www.limonrobot.cn



| 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 | 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

2D&3D文檔下載請至
www.limonrobot.cn



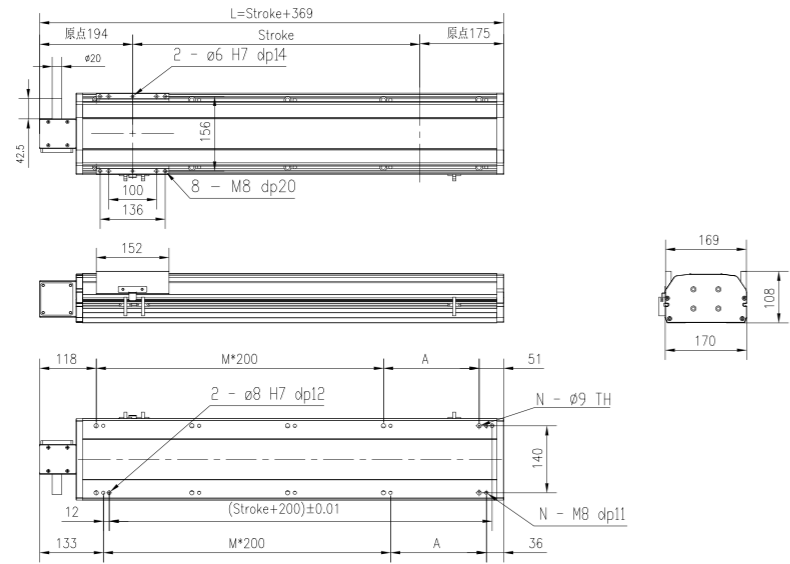
| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

Sub-standard semi-dense synchronous belt drive type

YTO170-4P-D07

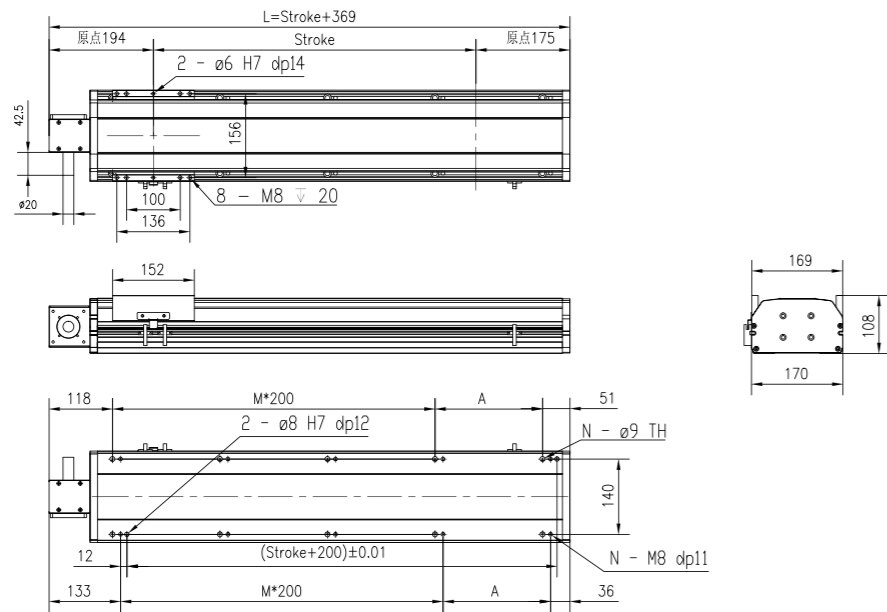
2D&3D文檔下載請至
www.limonrobot.cn



| 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 | 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

2D&3D文檔下載請至
www.limonrobot.cn



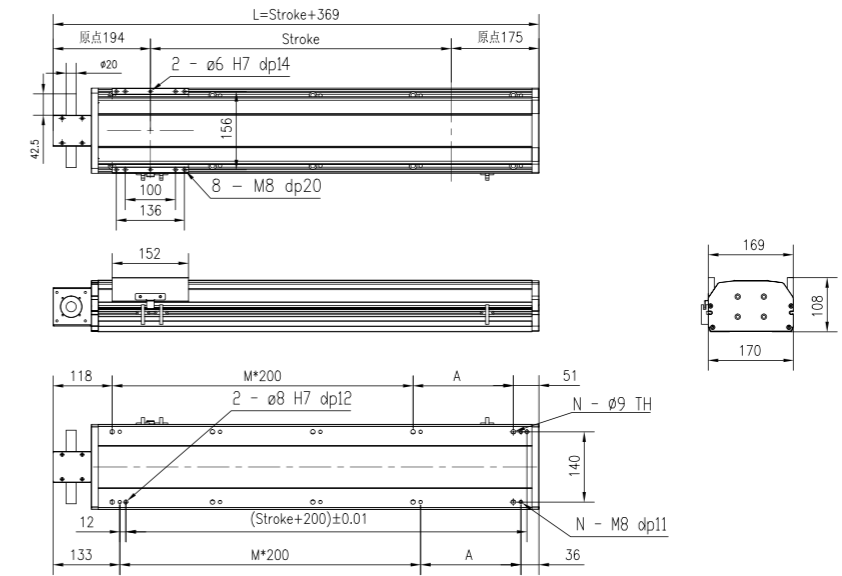
| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

亞標半密式同步帶驅動型 YTO 170

Sub-standard semi-dense synchronous belt drive type

YTO170-4P-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 | 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 Series

YTO 220 亞標半密式同步帶驅動型

Sub-standard semi-dense synchronous belt drive type

訂購型號代碼 Code

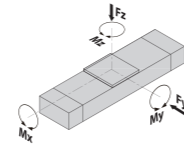
YTO220 - 500 - 4P - D01 - DB - M75 - P3 - A001

| 本體型號 Item NO. | 行程 Stroke | 直線導軌滑塊數量 Block Quantity | 馬達方向 Motor Mounting Position | 輔助滑塊 Auxiliary Block | 馬達廠牌、功率 Motor Brand, Power Output | 限位傳感器數量 Photoelectric Sensor | 特注式樣 Special Order No. |
|------------------|-----------|-------------------------|---|----------------------|---|--|------------------------|
| 100-3050,間隔Gap50 | 4P | 4P | D01 D02 D03 D04 D05 D06 D07 D08 D09 | 未填:無滑塊 DB:輔助滑塊 | M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 - Y 安川 Yaskawa 40 - D 台達 Delta 75 750W 1K - | P1: 1祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 No Mark/No Sensor | |

注: 輔助滑塊選項相關參數參見樣本P209.



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



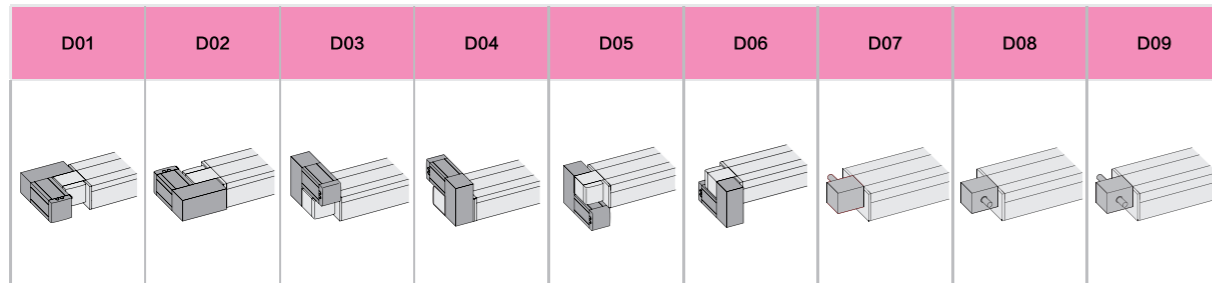
| Type | 4P |
|-------------|---------|
| ■F(y) (N) | 10333.3 |
| ■F(z) (N) | 10333.3 |
| ■M(x) (N·m) | 2052 |
| ■M(y) (N·m) | 2052 |
| ■M(z) (N·m) | 1810 |

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 |
| 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) | 100-4050 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 | |
| | 主機版面最大外形 Max Outline of Main Engine's Cross Section (mm) | 230 × 134 | |
| 原點感應器 Home Sensor | | EE-SX672(NPN) | |

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

#Note1: Date changes 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。

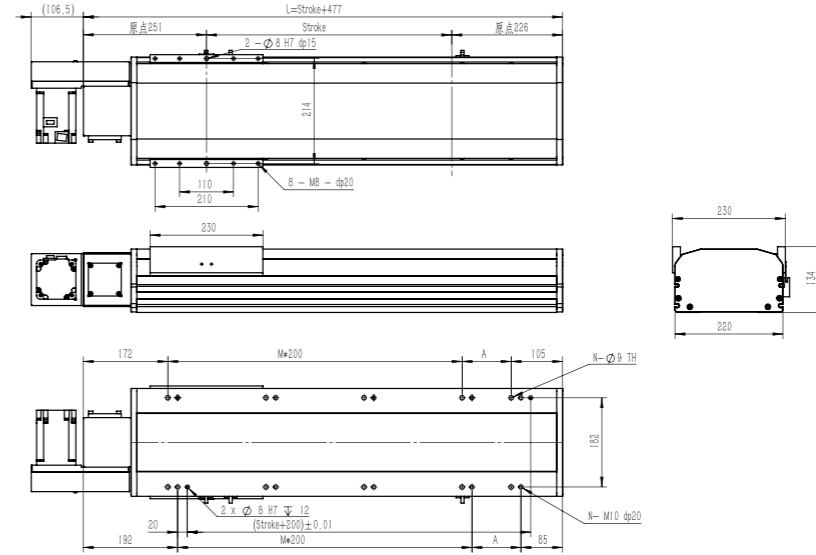
#Note 2: Pulley's original lead is 100mm, which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.

亞標半密式同步帶驅動型 YTO 220

Sub-standard semi-dense synchronous belt drive type

YTO220-D01

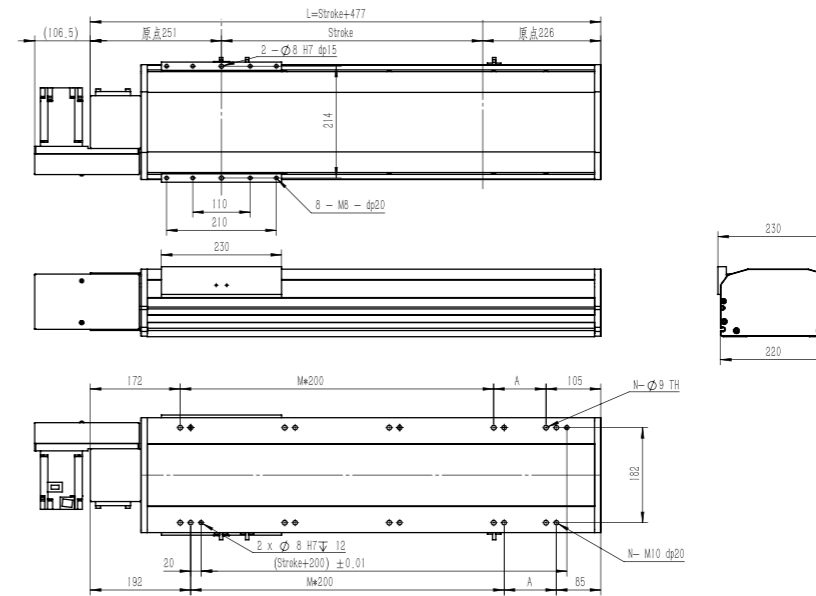
2D&3D文檔下載請至
www.limonrobot.cn



| 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 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 | |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | |
| 重量 Weight(kg) | 28.8 | 30 | 31.2 | 32.4 | 33.6 | 34.8 | 36 | 37.2 | 38.4 | 39.6 | 40.8 | 42 | 43.2 | 44.4 | 45.6 | 46.8 | 48 | 49.2 | 50.4 | 51.6 | 52.8 | 54 | 55.2 | 56.4 | 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 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
| M | 8 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 16 | 16 | |
| 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-D02

2D&3D文檔下載請至
www.limonrobot.cn

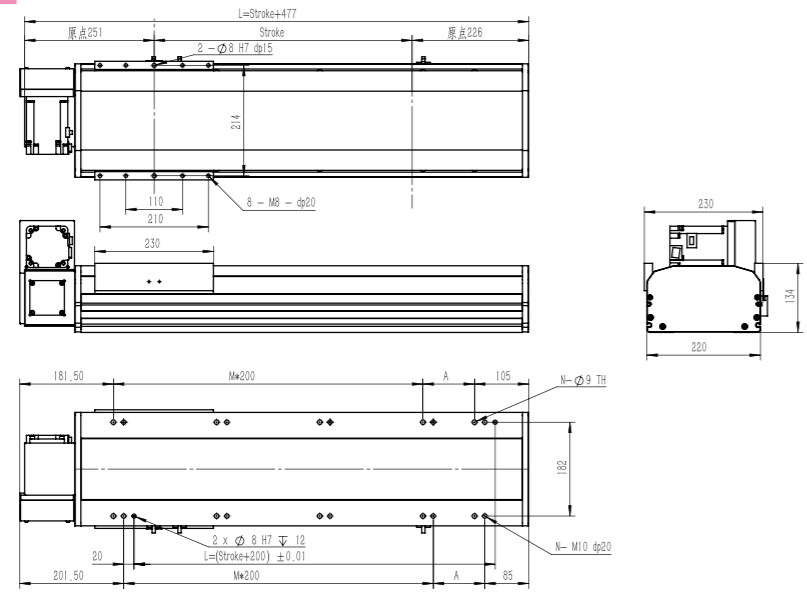


| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 | |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|
| 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 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 | |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | |
| 重量 Weight(kg) | 28.8 | 30 | 31.2 | 32.4 | 33.6 | 34.8 | 36 | 37.2 | 38.4 | 39.6 | 40.8 | 42 | 43.2 | 44.4 | 45.6 | 46.8 | 48 | 49.2 | 50.4 | 51.6 | 52.8 | 54 | 55.2 | 56.4 | 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 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
| M | 8 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 16 | 16 | |
| 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 | | |

YTO 220 亞標半密式同步帶驅動型

Sub-standard semi-dense synchronous belt drive type

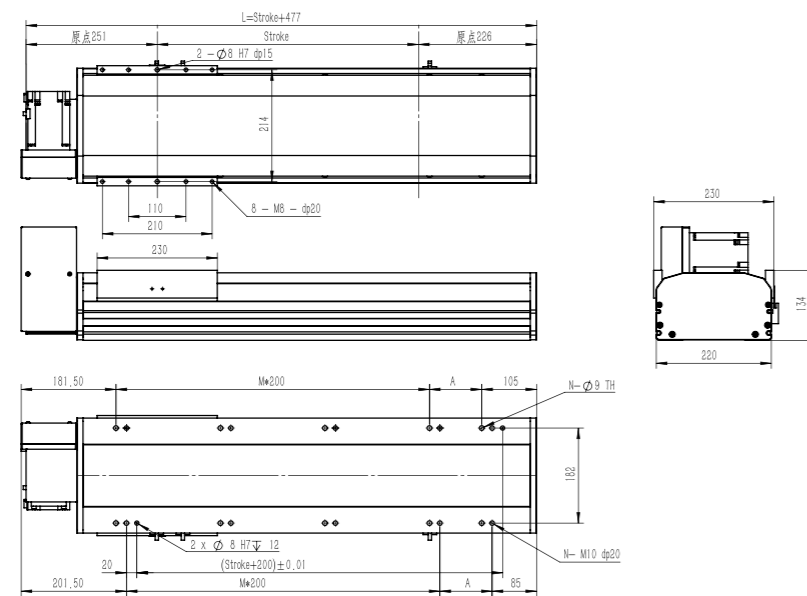
YTO220-D03



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 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 | |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | |
| 重量 Weight(kg) | 28.8 | 30 | 31.2 | 32.4 | 33.6 | 34.8 | 36 | 37.2 | 38.4 | 39.6 | 40.8 | 42 | 43.2 | 44.4 | 45.6 | 46.8 | 48 | 49.2 | 50.4 | 51.6 | 52.8 | 54 | 55.2 | 56.4 | 59.2 | 59.8 | 60 | 61.2 | 62.4 | 63.6 | 64.8 | |
| 行程 Stroke(mm) | 1600 | 1650 | 1700 | 1750 | 1800 | 1850 | 1900 | 1950 | 2000 | 2050 | 2100 | 2150 | 2200 | 2250 | 2300 | 2350 | 2400 | 2450 | 2500 | 2550 | 2600 | 2650 | 2700 | 2750 | 2800 | 2850 | 2900 | 2950 | 3000 | 3050 | | |
| L | 2077 | 2127 | 2177 | 2227 | 2277 | 2327 | 2377 | 2427 | 2477 | 2527 | 2577 | 2627 | 2677 | 2727 | 2777 | 2827 | 2877 | 2927 | 2977 | 3027 | 3077 | 3127 | 3177 | 3227 | 3277 | 3327 | 3377 | 3427 | 3477 | 3527 | | |
| A | 200 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
| 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 | 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-D04



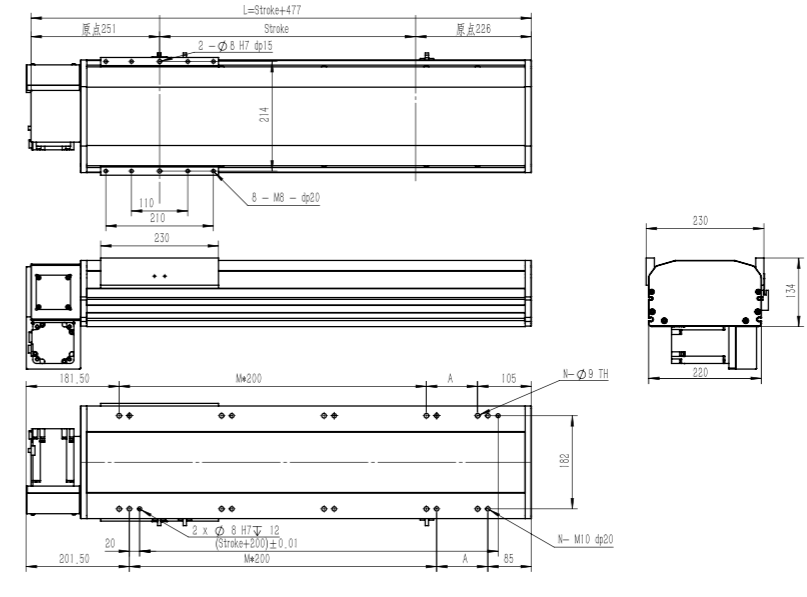
2D&3D文檔下載請至
www.limonrobot.cn

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

Sub-standard semi-dense synchronous belt drive type

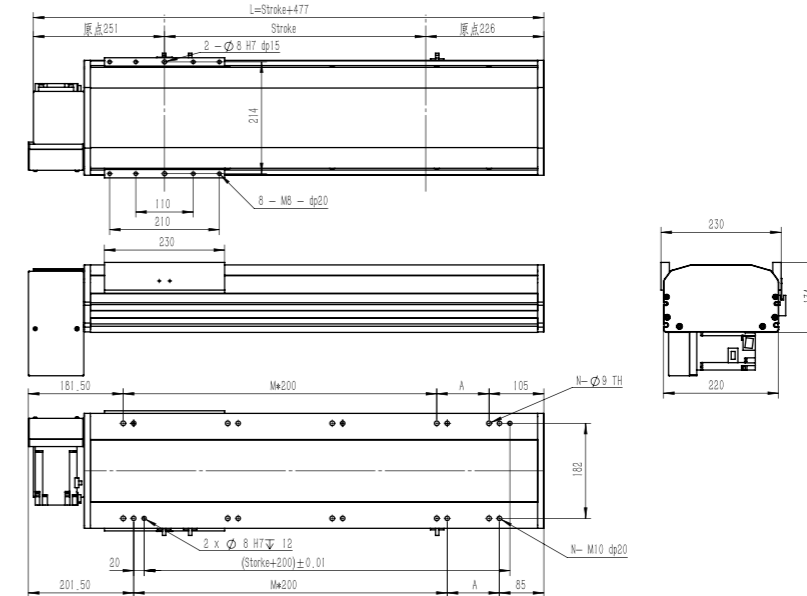
YTO220-D05



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 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 | |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 | 20 | |
| 重量 Weight(kg) | 28.8 | 30 | 31.2 | 32.4 | 33.6 | 34.8 | 36 | 37.2 | 38.4 | 39.6 | 40.8 | 42 | 43.2 | 44.4 | 45.6 | 46.8 | 48 | 49.2 | 50.4 | 51.6 | 52.8 | 54 | 55.2 | 56.4 | 59.2 | 59.8 | 60 | 61.2 | 62.4 | 63.6 | 64.8 | |
| 行程 Stroke(mm) | 1600 | 1650 | 1700 | 1750 | 1800 | 1850 | 1900 | 1950 | 2000 | 2050 | 2100 | 2150 | 2200 | 2250 | 2300 | 2350 | 2400 | 2450 | 2500 | 2550 | 2600 | 2650 | 2700 | 2750 | 2800 | 2850 | 2900 | 2950 | 3000 | 3050 | | |
| L | 2077 | 2127 | 2177 | 2227 | 2277 | 2327 | 2377 | 2427 | 2477 | 2527 | 2577 | 2627 | 2677 | 2727 | 2777 | 2827 | 2877 | 2927 | 2977 | 3027 | 3077 | 3127 | 3177 | 3227 | 3277 | 3327 | 3377 | 3427 | 3477 | 3527 | | |
| A | 200 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
| 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 | 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-D06



2D&3D文檔下載請至
www.limonrobot.cn

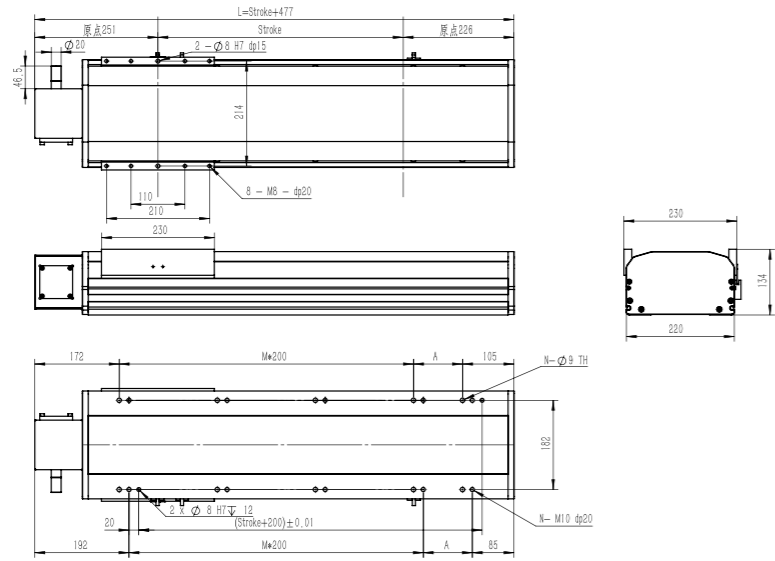
| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | | | | | | | | | | | |

YTO 220 亞標半密式同步帶驅動型

Sub-standard semi-dense synchronous belt drive type

YTO220-D07

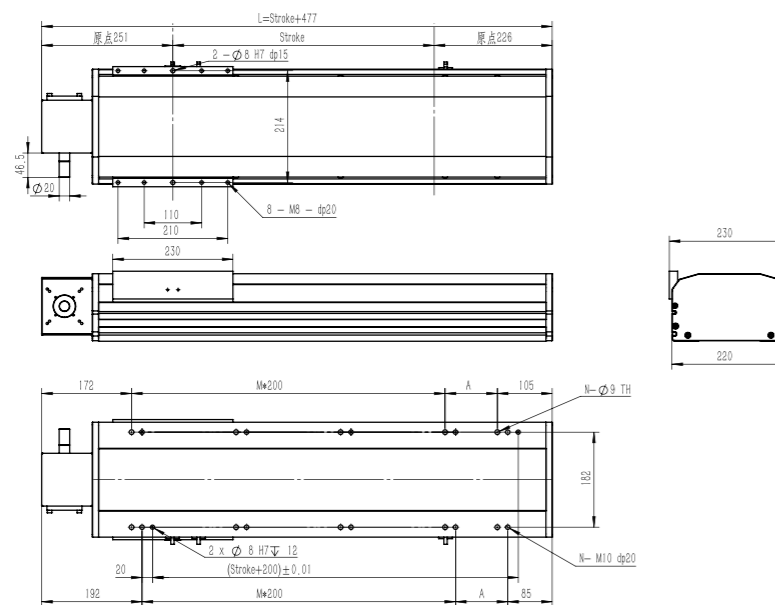
2D&3D文檔下載請至
www.limonrobot.cn



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

YTO220-D08

2D&3D文檔下載請至
www.limonrobot.cn



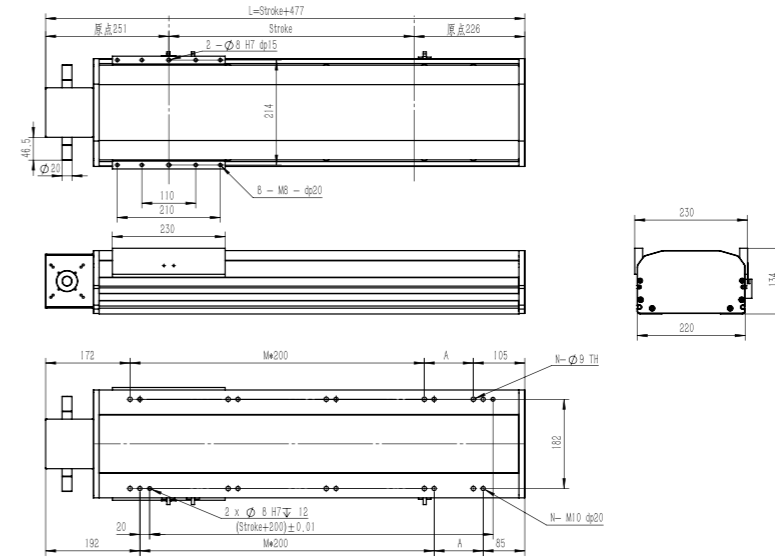
| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|
| 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 | 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 | 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

Sub-standard semi-dense synchronous belt drive type

YTO220-D09

2D&3D文檔下載請至
www.limonrobot.cn

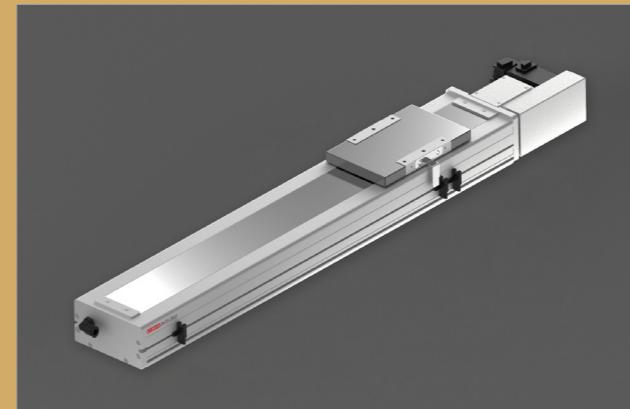


| 行程 Stroke(mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|
| 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 | 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 | 30 | 30 | 30 | 30 | 32 | 32 | 32 | 32 | 34 | 34 | 34 | 34 | 36 | | |
| 重量 Weight(kg) | 66 | 67.2 | 68.4 | 69.6 | 70.8 | 72 | 73.2 | 74.4 | 75.6 | 76.8 | 78 | 79.2 | 80.4 | 81.6 | 82.8 | 84 | 85.2 | 86.4 | 87.6 | 88.8 | 90 | 91.2 | 92.4 | 93.6 | 94.8 | 96 | 97.2 | 98.4 | 99.6 | 100.8 | |

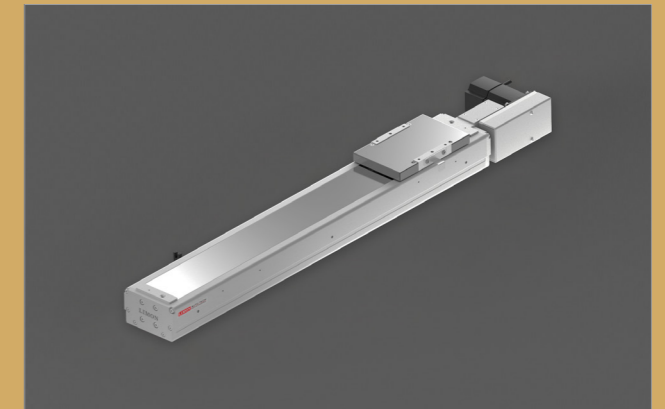
YTO Series

亞標全密式同步帶驅動型

Sub-standard full-density synchronous belt drive type



YTC 135



YTC 170

YTC135 亞標全密式同步帶驅動型

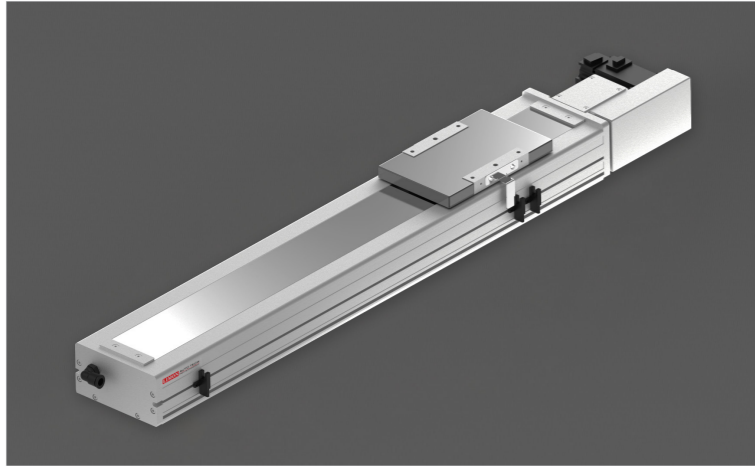
Sub-standard full-density synchronous belt drive type

訂購型號代碼 Code

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

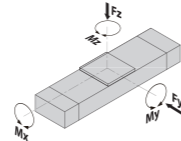
| | | | | | | | |
|--------------------------------|--|---|---|--|---|---|--|
| YTC135 本體型號 Item NO. | 500 行程 Stroke 100-4000, 間隔Gap100 | 4P 直線導軌滑塊數量 Block Quantity 4P | D01 馬達方向 Motor Mounting Position | DB^注 輔助滑塊 Auxiliary Block 未填寫:單滑塊 DB:輔助滑塊 | M40 馬達廠牌、功率 Motor Brand, Power Output | P3 限位傳感器數量 Photoelectric Sensor | A001 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 | P1: 1 1 1PC P2: 2 2 2PCS P3: 3 3 3PCS 未標記: 無 NoMark: NoSensor | |

注: 輔助滑塊選項相關參數參見樣本P209.



最大動態力和力矩

Max Permissible Forces And Torques

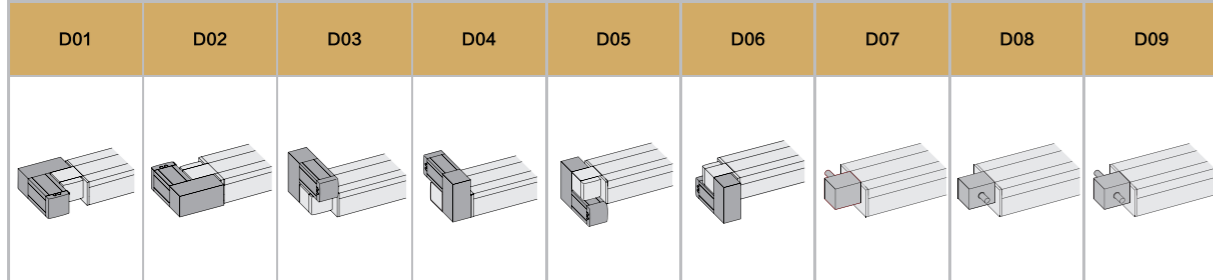


| Type | 4P |
|--------------|------|
| ■ F(y) (N) | 5370 |
| ■ F(z) (N) | 5370 |
| ■ M(x) (N·m) | 142 |
| ■ M(y) (N·m) | 104 |
| ■ M(z) (N·m) | 346 |

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 |
| | 高剛性直線滑軌 Linear Guide (mm) | 15# × 2 PCS |
| 主機截面最大外形 Max Outline of Main Engine's Cross Section (mm) | 135 × 91 | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | |

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

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

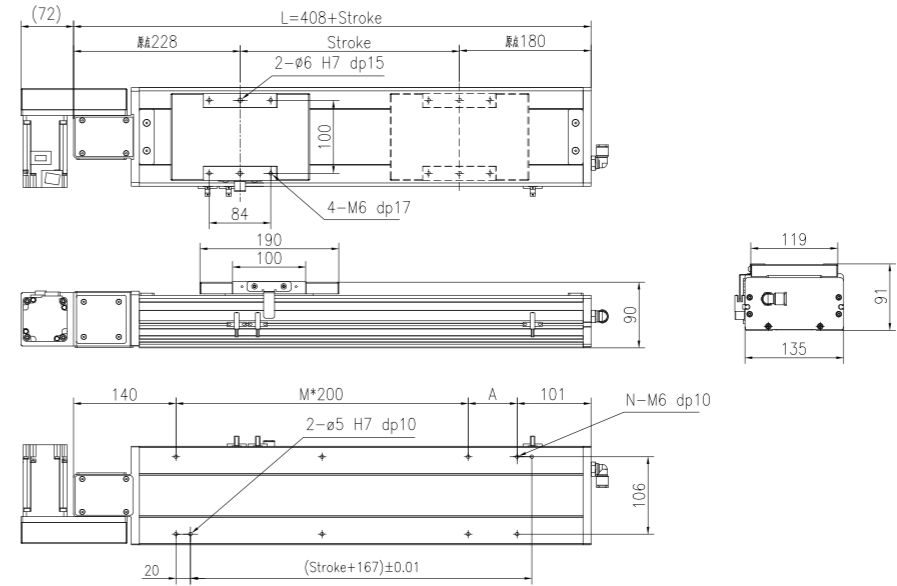
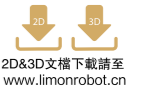
#注2: 皮帶輪原始導程為110mm, 標準品默認附減速機構, 減速後導程為50mm。

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

亞標全密式同步帶驅動型 YTC135

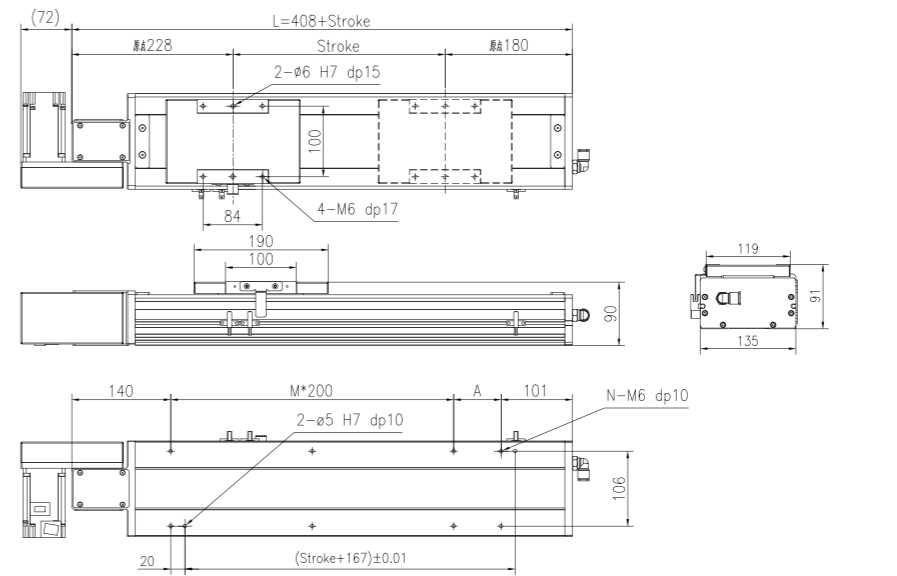
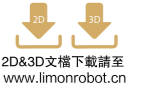
Sub-standard full-density synchronous belt drive type

YTC135-4P-D01



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

YTC135-4P-D02

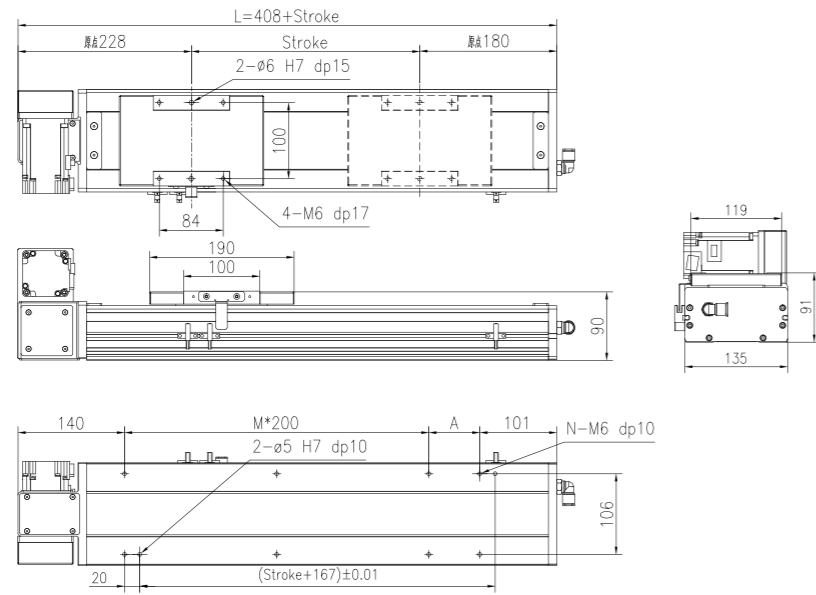


| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

YTC135 亞標全密式同步帶驅動型

Sub-standard full-density synchronous belt drive type

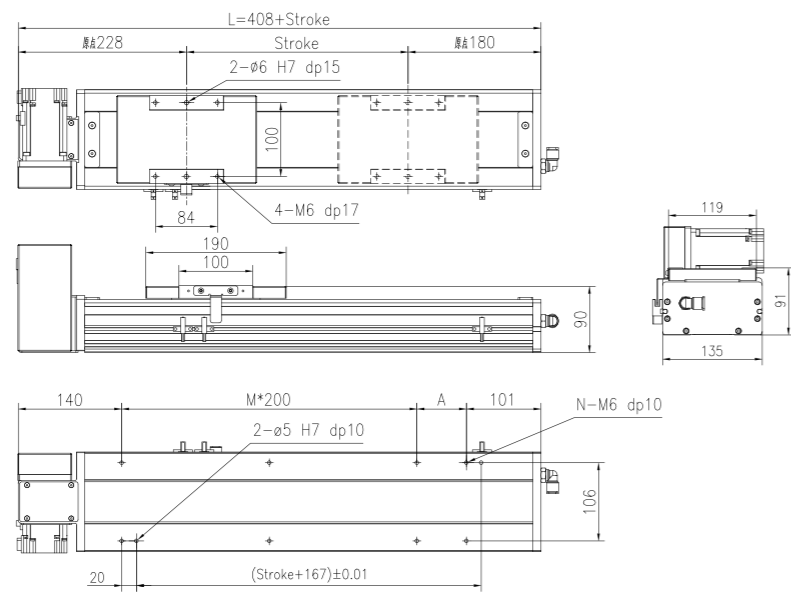
YTC135-4P-D03



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



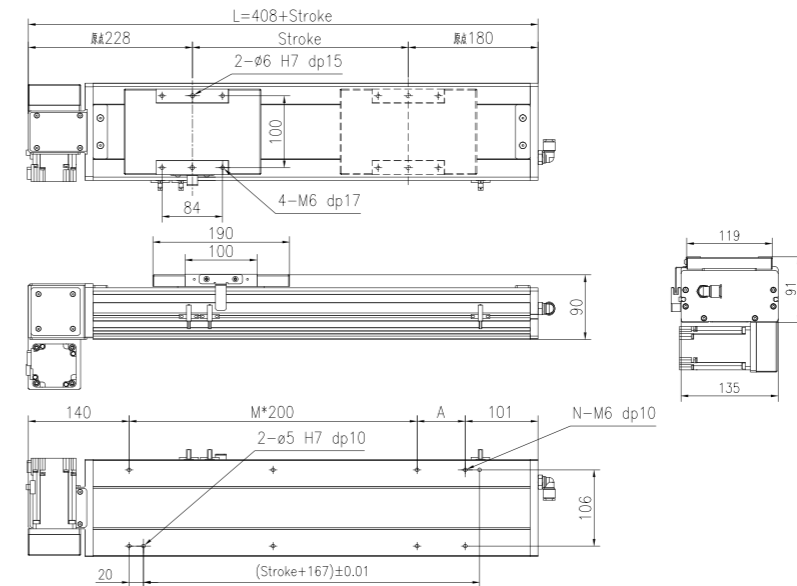
2D&3D文檔下載請至
www.limonrobot.cn

| 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

Sub-standard full-density synchronous belt drive type

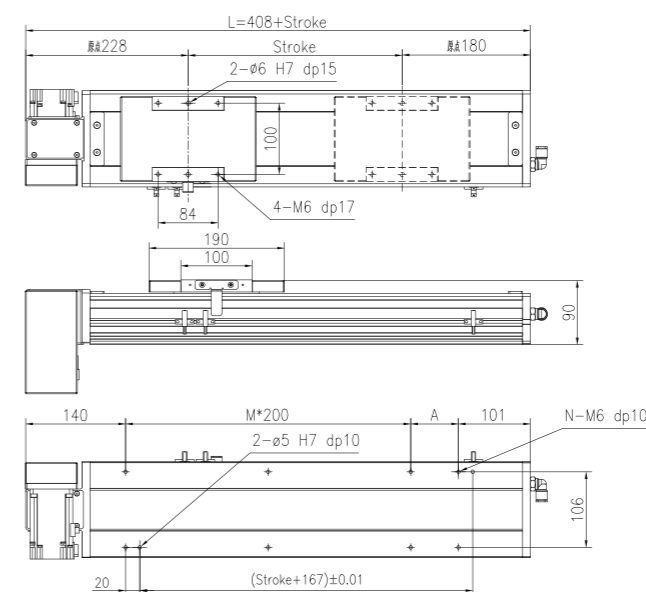
YTC135-4P-D05



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



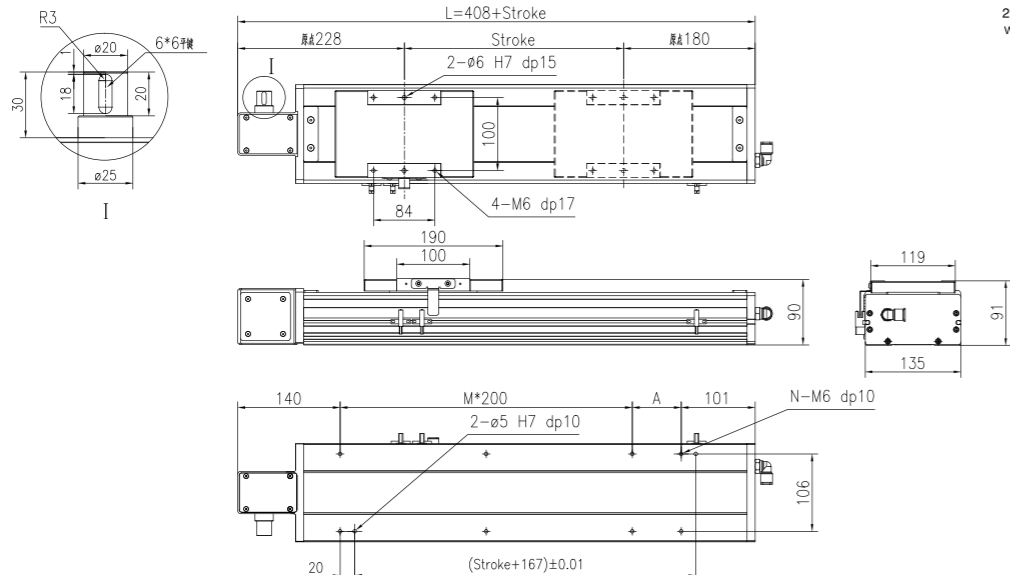
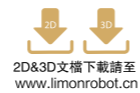
2D&3D文檔下載請至
www.limonrobot.cn

| 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

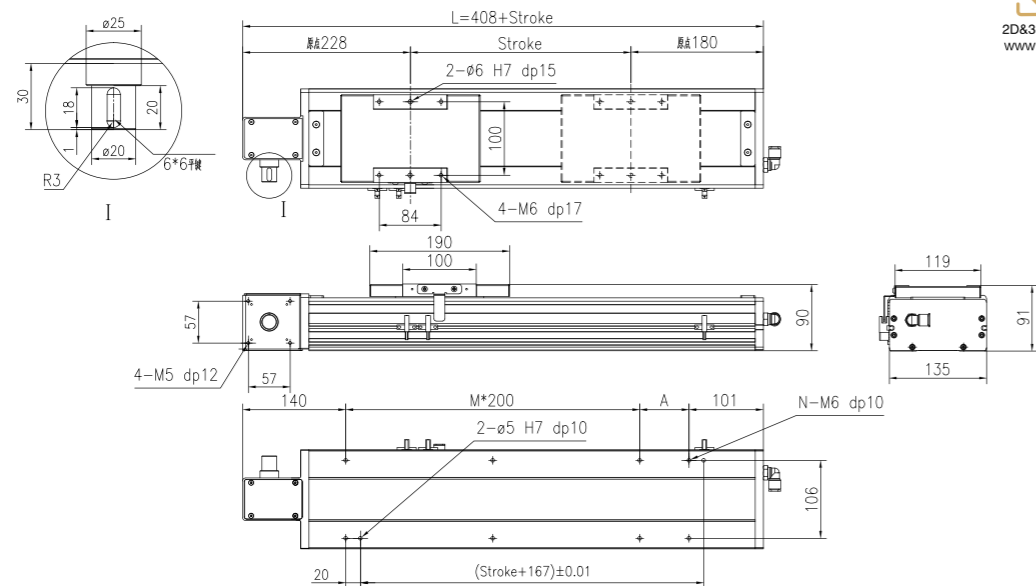
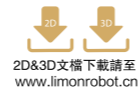
Sub-standard full-density synchronous belt drive type

YTC135-4P-D07



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

YTC135-4P-D08

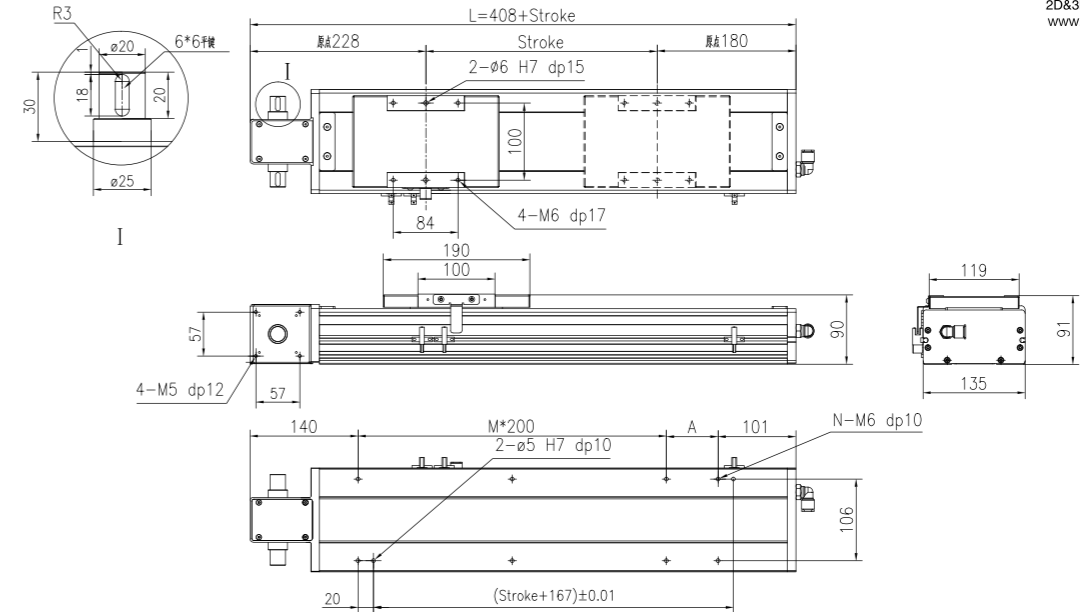
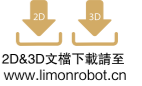


| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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

亞標全密式同步帶驅動型 YTC135

Sub-standard full-density synchronous belt drive type

YTC135-4P-D09



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

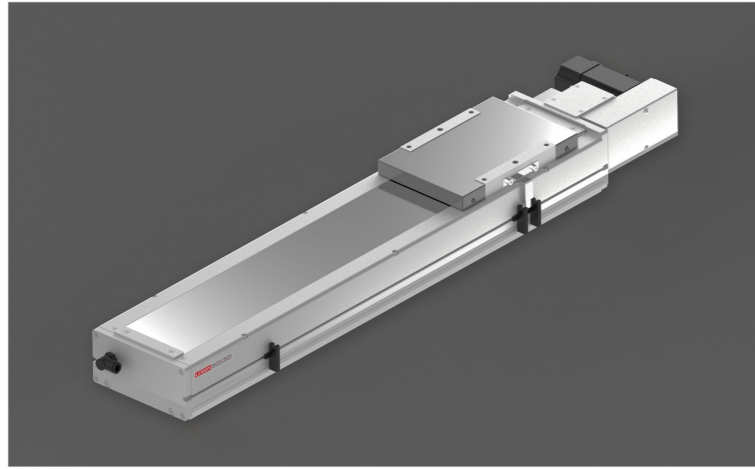
YTC170 亞標全密式同步帶驅動型

Sub-standard full-density synchronous belt drive type

訂購型號代碼 Code

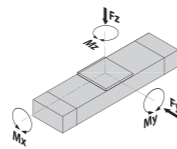
| | | | | | | | |
|---------------|---------------------------------|-------------------------------|---|---|--|---|------------------------|
| YTC170 | - 500 - | - 4P - | - D01 - | - DB - | - M40 - | - P3 - | - A001 |
| 本體型號 Item NO. | 行程 Stroke 100~4000, 間隔Gap100 | 直線導軌滑塊數量 Block Quantity 4P | 馬達方向 Motor Mounting Position D01 D02 D03 D04 D05 D06 D07 D08 D09 | 輔助滑塊 Auxiliary Block 未填寫:單滑塊 DB...:輔助滑塊 | 馬達廠牌、功率 Motor Brand, Power Output M 三菱 Mitsubishi 10 - P 松下 Panasonic 20 200W Y 安川 Yaskawa 40 400W D 台達 Delta 75 - 1K - | 限位傳感器數量 Photoelectric Sensor P1: 1祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 No Mark: No Sensor | 特注式樣 Special Order No. |

注: 輔助滑塊選項相關參數參見樣本P209.



最大動態力和力矩

Max Permissible Forces And Torques

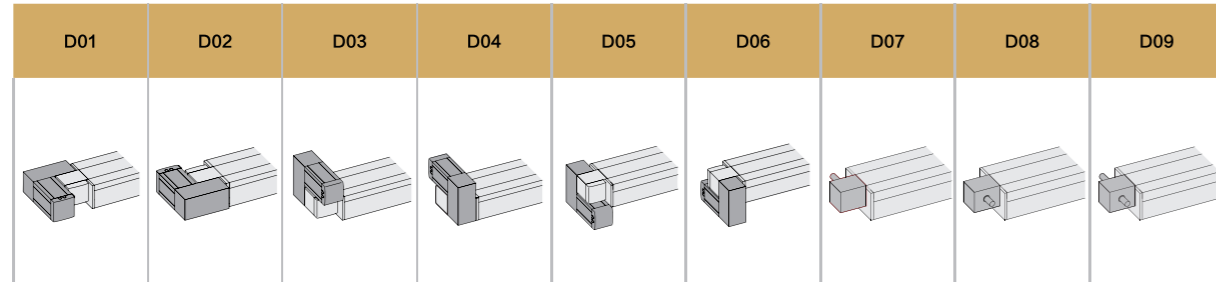


| Type | 4P |
|----------------|------|
| ■ F(y) (N) | 7463 |
| ■ F(z) (N) | 7463 |
| ■ M(x) (N · m) | 339 |
| ■ M(y) (N · m) | 178 |
| ■ M(z) (N · m) | 742 |

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 |
| 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 | |
| 主機載面最大外形 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.

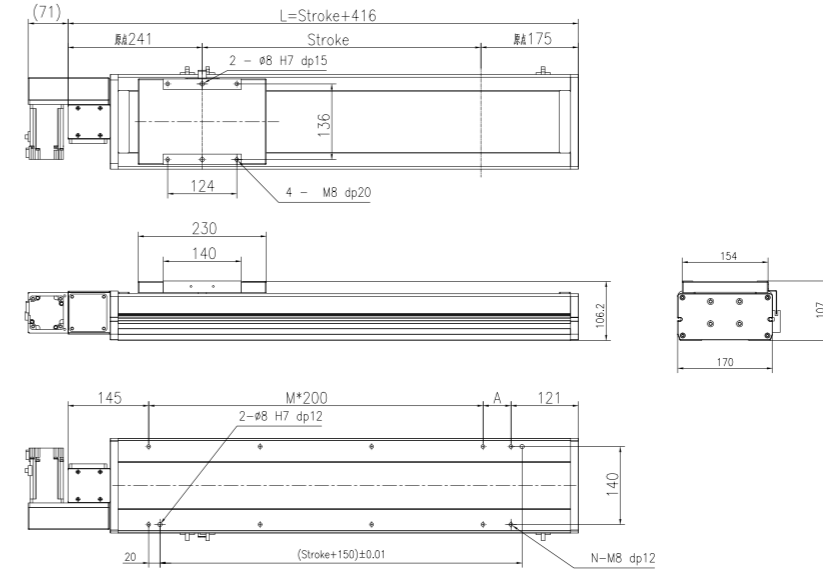
#注2: 皮帶輪原始導程為100mm, 標準品默認附減速機構, 減速後導程為40mm。

#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

Sub-standard full-density synchronous belt drive type

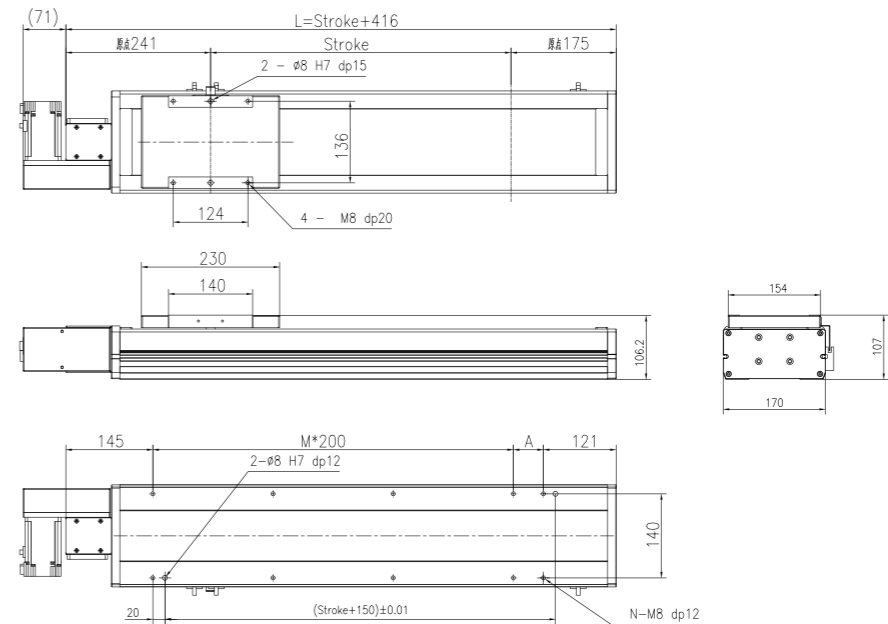
YTC170-4P-D01



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



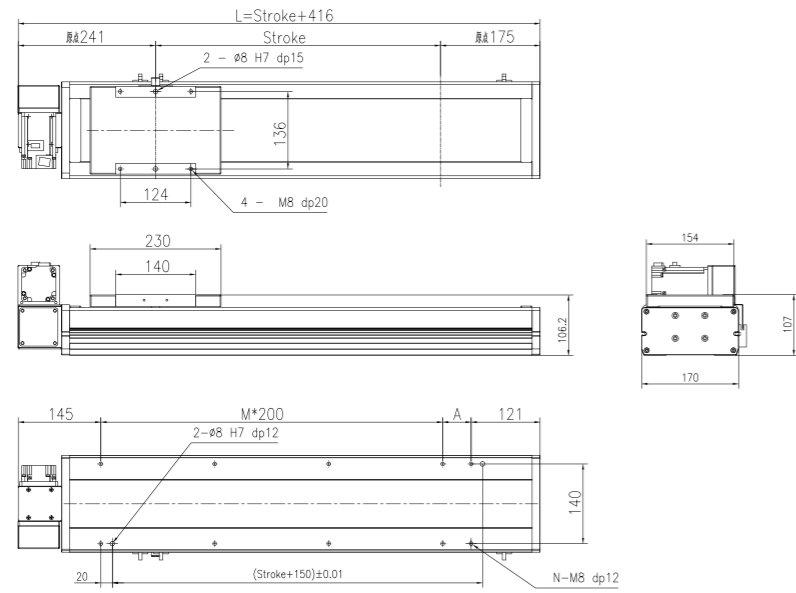
2D&3D文檔下載請至
www.limonrobot.cn

| 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

Sub-standard full-density synchronous belt drive type

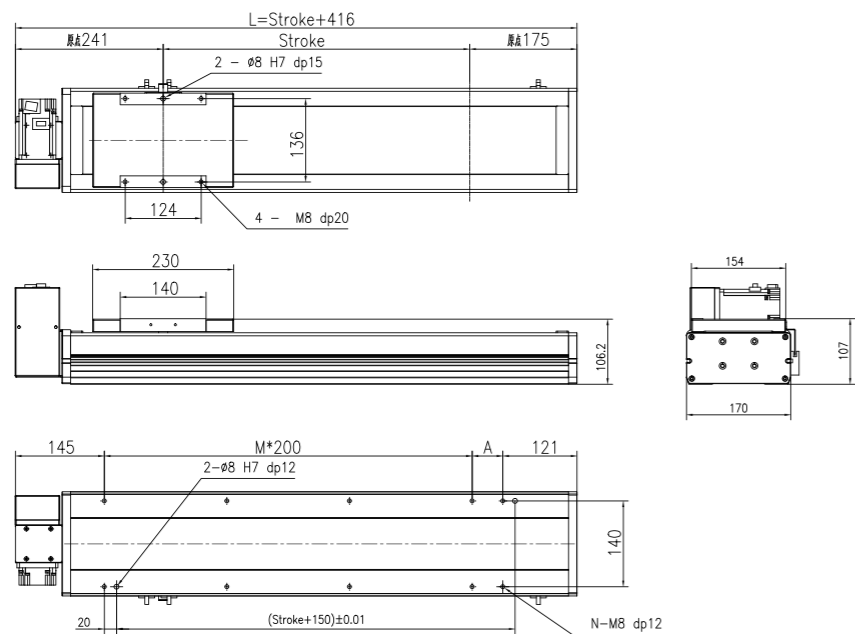
YTC170-4P-D03



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



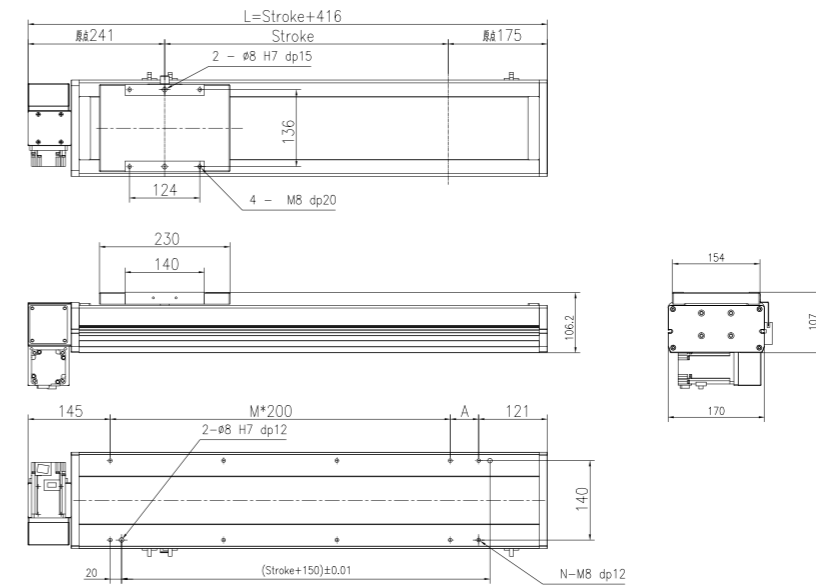
2D&3D文檔下載請至
www.limonrobot.cn

| 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

Sub-standard full-density synchronous belt drive type

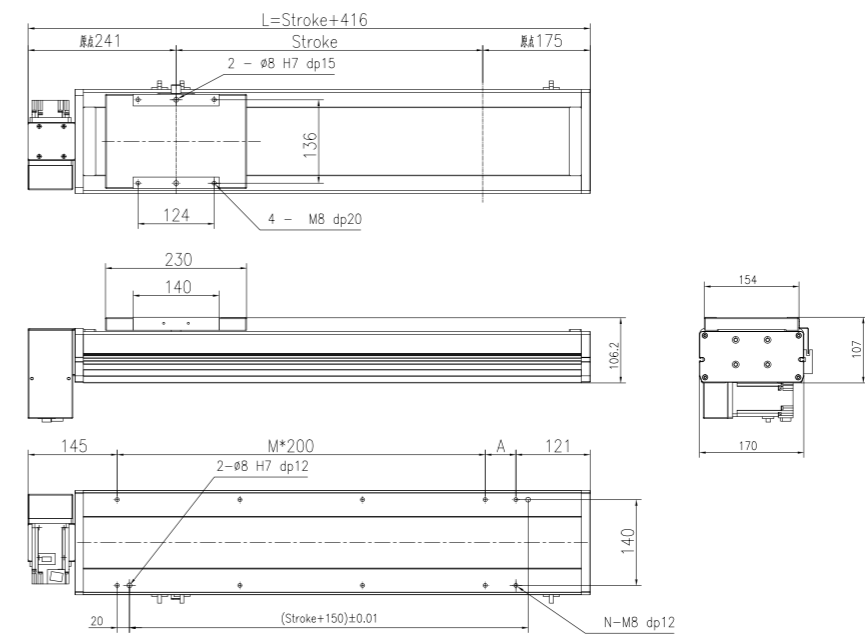
YTC170-4P-D05



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



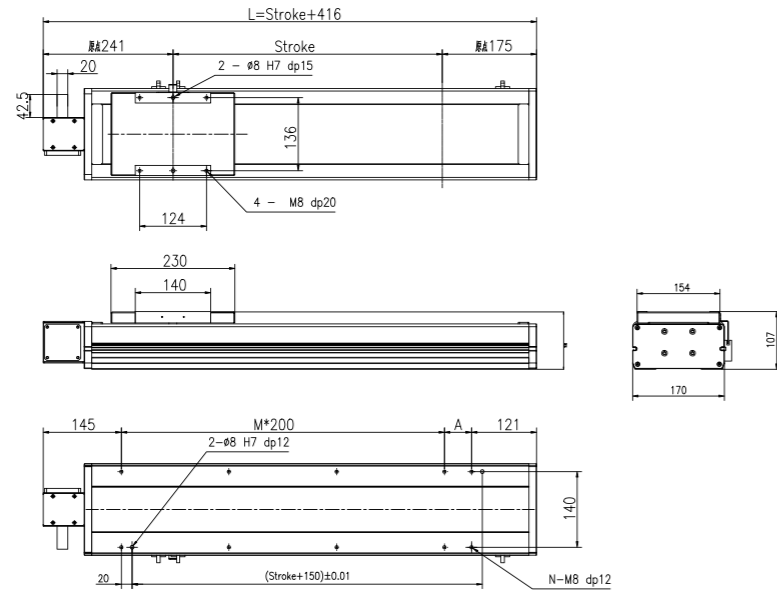
2D&3D文檔下載請至
www.limonrobot.cn

| 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

Sub-standard full-density synchronous belt drive type

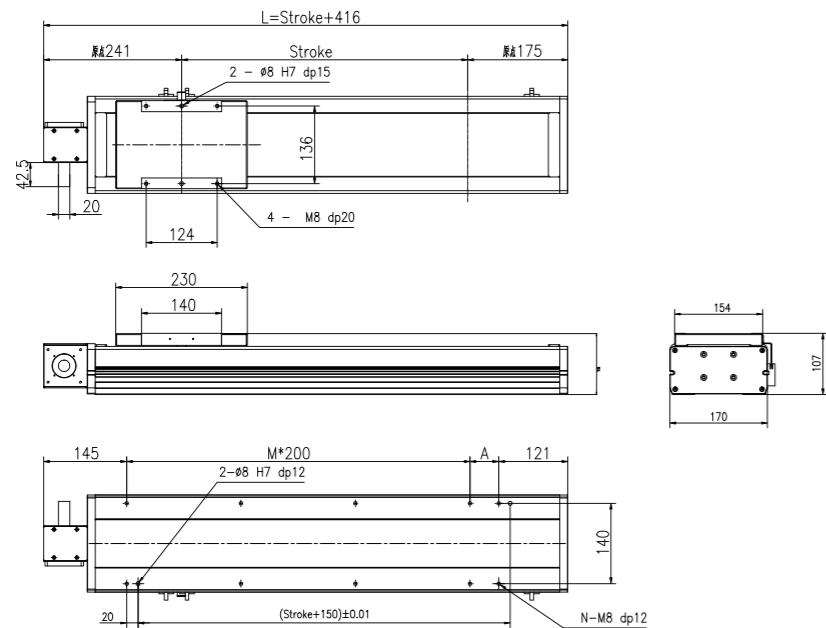
YTC170-4P-D07



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



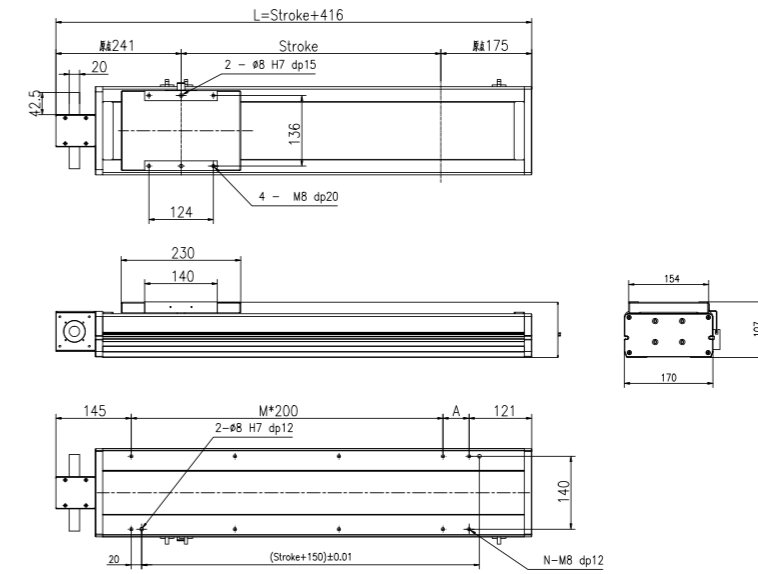
2D&3D文檔下載請至
www.limonrobot.cn

| 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

Sub-standard full-density synchronous belt drive type

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 |

YTC Series

有鐵芯式綫性馬達驅動

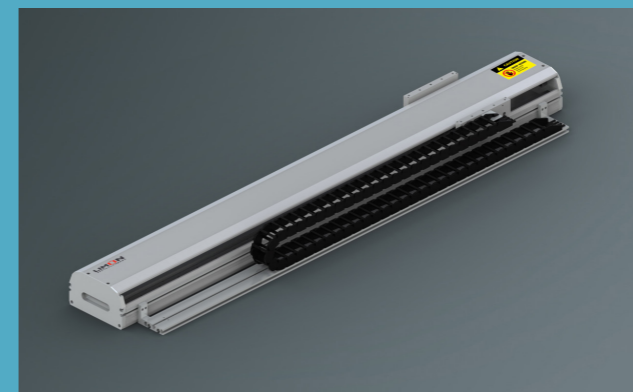
Linear Motor Driven Type With Iron Core



GLC 50 / 80



MLO 110 / 135



ZLO 17 / 22

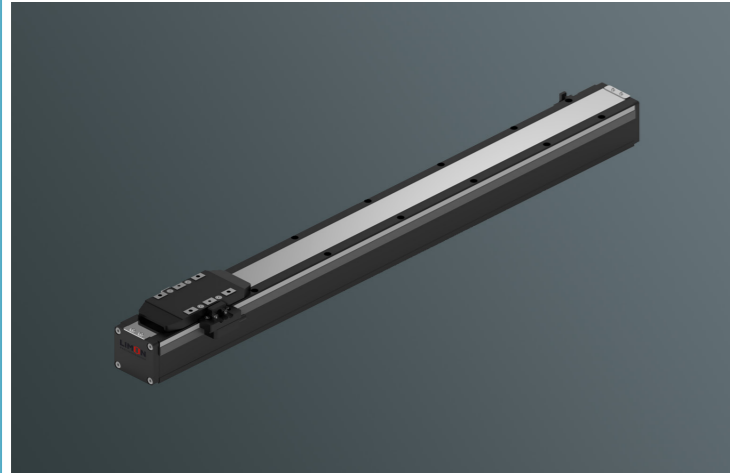


WLO 14 / 17 / 22

GLC 50 GLC系列有鐵芯式綫性馬達驅動

GLC Series Linear Motor Driven Type With Iron Core

| | | | | | | | |
|---------------|--|--|---|--|--|---|--|
| 型號訂購碼 Code | GLC 50 | C1 | 500 | 3L | M | P | P3 |
| | GLC 50D2 | C1 | 500 | 3L | M | P | P3 |
| 本體型號 Item NO. | GLC 50 單動子型 Single Carriage GLC 50D2 雙動子型 Double Carriage | 綫圈規格 Coil Size C1:標準型動子 Standard Coil | 行程 Stroke 50-1650, 間隔/Gap50 120-1520, 間隔/Gap100 | 綫圈長度 Wire Length 3L:3m 5L:5m 8L:8m | 編碼器 Encoder G: 光學尺 Optical Scale M: 磁性尺 Magnetic Scale B: 編碼器 Encoder | 驅動器 Driver S: 高創 Servotronic P: 松下 Panasonic | 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: None |



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

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

除了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:

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

履帶取出方向 Caterpillar Band Entry Location

| GLC-50 | | | | GLC-50D2 | | 廠牌 Brand | 驅動器記號 Mark | 驅動器型號 Driver Model | 接線訊號 Connection Signal |
|------------------------------------|--------------------------------------|-----------------------------------|-------------------------------------|------------------------|--------------------------|-------------------|---------------|-----------------------|---------------------------|
| RH 水平右側取出 RH Right & Horizontal | RW 壁掛右側取出 RW Right & Wall-hanging | LH 水平左側取出 LH Left & Horizontal | LW 壁掛左側取出 LW Left & Wall-hanging | H 水平安裝 H Horizontal | W 側掛安裝 W Wall-hanging | 高創 Servotronic | S | CDHD-AP1 CDHD-EC1 | 脈衝 EtherCAT |
| | | | | | | 松下 Panasonic | P | MBDLN-SL MBDLN-BL | 脈衝 EtherCAT |

注：請務必按導線槽方向圖和各規格圖規定的方向進行設置。規定以外的安裝會導致故障發生，請務必加以注意。
Note: Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

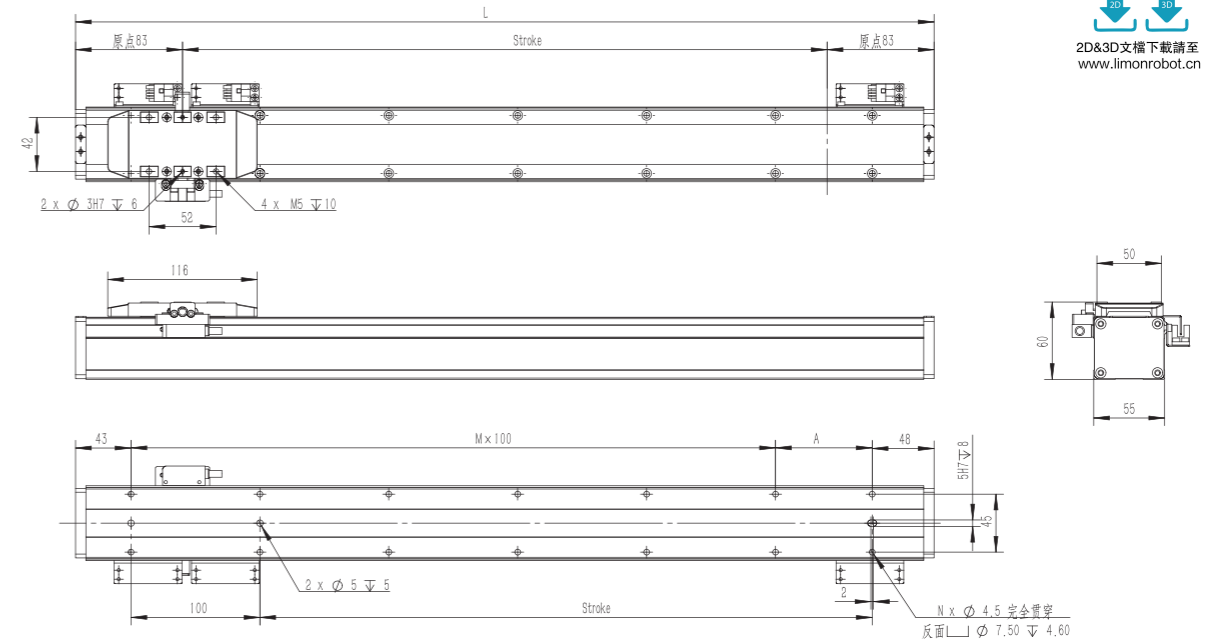
基本規格 Basic Specification

| 技術參數 Technical Parameters | 機型 Type | GLC-50 | GLC-50D2 | |
|-----------------------------------|--|---|-------------------------|--|
| | 驅動方式 Driving Method | 有鐵芯平板綫性馬達 Linear Motor Driven Type With Iron Core | | |
| 位置重複精度(μ) Repetitive Accuracy | ±2 μm | | | |
| 綫性度 Strength | X-X | 20 μm/300mm | | |
| | Y-Y | 20 μm/300mm | | |
| 最大負載(加速度1G工況下) Max load | 5 kg | | | |
| 最大速度(MM/S) Max Speed | 4 m/s | | | |
| 最大加速度(M/S²) Max Accelerated Speed | 4G | | | |
| 馬達參數 Technical Parameters | 峰值電流 (Peak Current) | 3.6Arms | | |
| | 持續電流 (Continuous Current) | 0.9Arms | | |
| | 峰值推力 (Peak Thrust) | 150 N | | |
| | 持續推力 (N) Continuous Thrust(N) | 50 N | | |
| 相間電阻 (Interphase Resistance) | 24.6 Ω | | | |
| | 相間電感 (Interphase Inductance) | 70.2 mH | | |
| | 磁極距 (Maagnetic Pole Distance) | 20mm | | |
| 基本規格 Basic Specification | 標準行程 (mm) Standard Stroke | 50-1650 mm / 50 pitch | 120-1520 mm / 100 pitch | |
| | 主機載面最大外形: Max Outline of Main Engine's Cross Section | 55 × 60 | | |
| 原點感應器 Home Sensor | PM-Y45(NPN) | | | |

GLC 50 GLC系列有鐵芯式綫性馬達驅動

GLC Series Linear Motor Driven Type With Iron Core

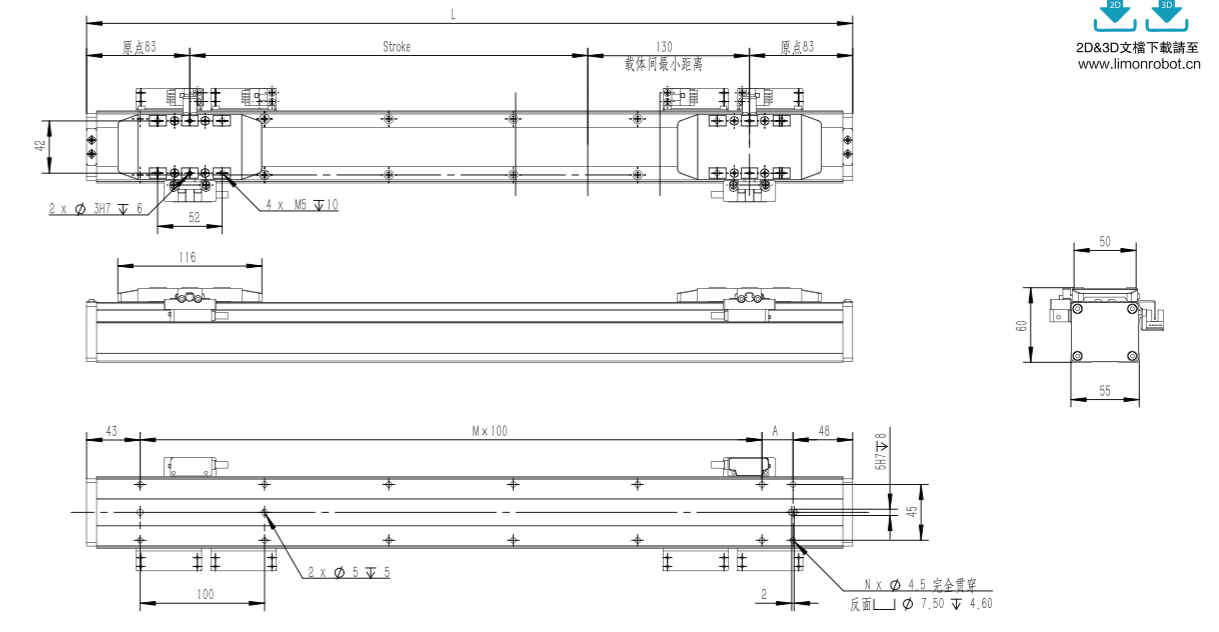
GLC50-C1



| 行程 Stroke (mm) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 | 1600 | 1650 |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 216 | 266 | 316 | 366 | 416 | 466 | 516 | 566 | 616 | 666 | 716 | 766 | 816 | 866 | 916 | 966 | 1016 | 1066 | 1116 | 1166 | 1216 | 1266 | 1316 | 1366 | 1416 | 1466 | 1516 | 1566 | 1616 | 1666 | 1716 | 1766 | 1816 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 15 | 15 | 16 | 16 | 17 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 | 32 | 32 | 34 | 34 | 36 | 36 | 38 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 |

2D&3D文檔下載請至
www.limonrobot.cn

GLC50D2-C1



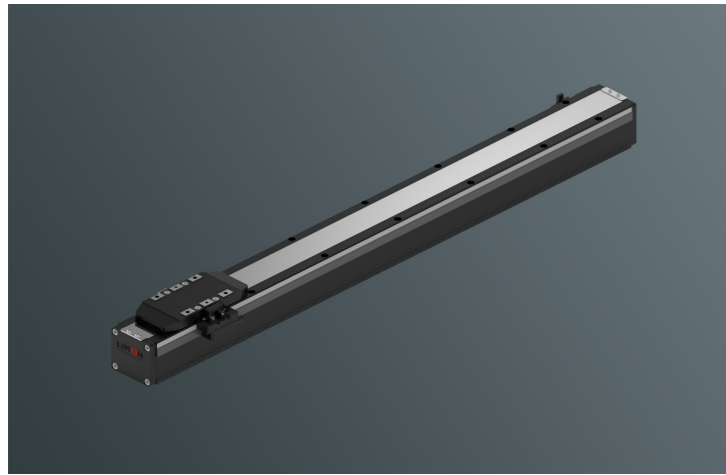
| 行程 Stroke (mm) | 120 | 220 | 320 | 420 | 520 | 620 | 720 | 820 | 920 | 1020 | 1120 | 1220 | 1320 | 1420 | 1520 |
|----------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 416 | 516 | 616 | 716 | 816 | 916 | 1016 | 1116 | 1216 | 1316 | 1416 | 1516 | 1616 | 1716 | 1816 |
| M | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| N | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 |
| A | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |

2D&3D文檔下載請至
www.limonrobot.cn

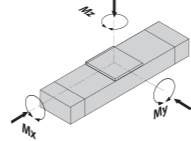
GLC 80 GLC系列有鐵芯式綫性馬達驅動

GLC Series Linear Motor Driven Type With Iron Core

| | | | | | | | | |
|---------------|--------------------------------|----------------------------------|---------------------------|----------------------|-------------------------|--|--|---|
| 型號訂購碼 Code | GLC 80 | C1 | 500 | 3L | M | P | P3 | |
| | GLC 80D2 | C1 | 500 | 3L | M | P | P3 | |
| 本體型號 Item NO. | GLC 80 單動子型 Single Carriage | GLC 80D2 雙動子型 Double Carriage | 線圈規格 Coil Size | 行程 Stroke | 纜線長度 Wire Length | 編碼器 Encoder | 驅動器 Driver | 限位傳感器數量 Photoelectric Sensor |
| | 50-1650, 間隔/Gap50 | 100-1500, 間隔/Gap100 | C1:標準型動子 Standard Coil | 50-1650, 間隔/Gap50 | 3L:3m 5L:5m 8L:8m | G: 光學尺 Optical Scale M: 磁性尺 Magnetic Scale B: 編碼器 Encoder | S: 高創 Servotrix P: 松下 Panasonic | P1: 1祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 No Mark: None |



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

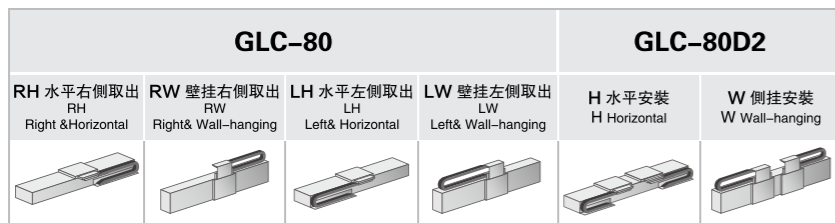


| Type | GLC 80 |
|------------|--------|
| M(x) (N·m) | 626 |
| M(y) (N·m) | 318 |
| M(z) (N·m) | 318 |

除了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:

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

履帶取出方向 Caterpillar Band Entry Location



搭配驅動器一覽表 Driver

| 廠牌 Brand | 驅動器記號 Mark | 驅動器型號 Driver Model | 接線訊號 Connection Signal |
|-----------------|---------------|-----------------------|---------------------------|
| 高創 Servotrix | S | CDHD-AP1 | 脈衝 |
| | | CDHD-EC1 | EtherCAT |
| 松下 Panasonic | P | MBDLN-SL | 脈衝 |
| | | MBDLN-BL | EtherCAT |

注：請務必按導線槽方向圖和各規格圖規定的方向進行設置。規定以外的安裝會導致故障發生，請務必加以注意。
Note: Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

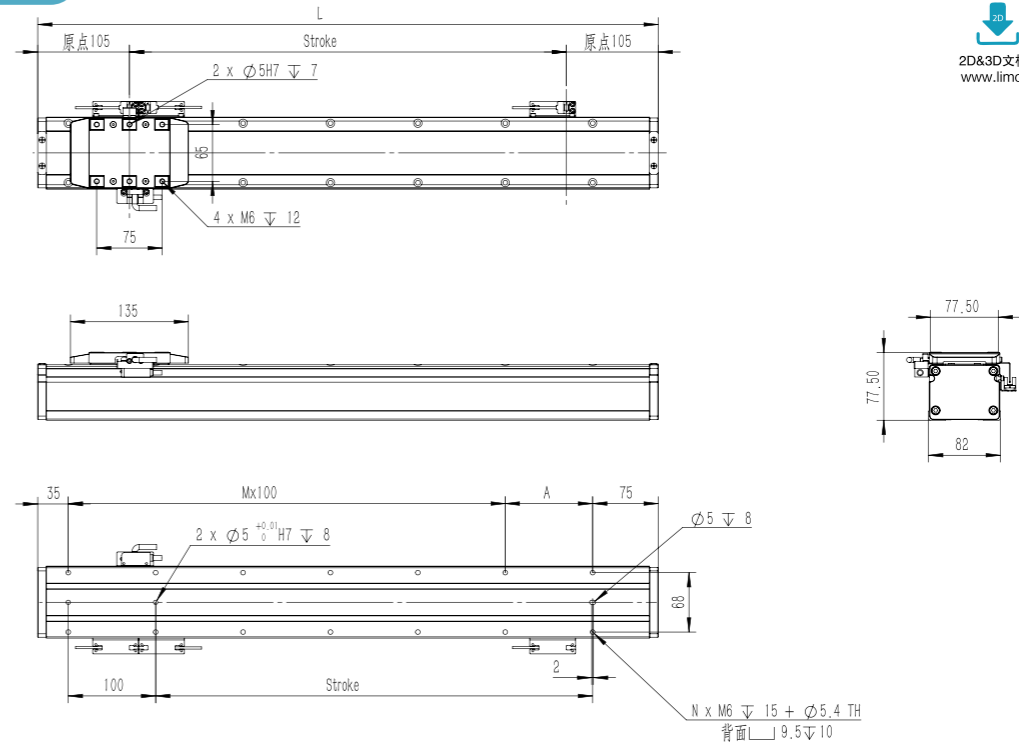
基本規格 Basic Specification

| 技術參數 Technical Parameters | 機型 Type | GLC-80 | GLC-80D2 |
|-----------------------------------|--|-----------------------|---|
| | 驅動方式 Driving Method | | 有鐵芯平板綫性馬達 Linear Motor Driven Type With Iron Core |
| 位置重複精度(μ) Repetitive Accuracy | | ±2 μm | |
| 綫性度 Strength | X-X | 20 μm/300mm | |
| | Y-Y | 20 μm/300mm | |
| 最大負載(加速度1G工況下) Max load | | 20 kg | |
| 最大速度(MM/S) Max Speed | | 4 m/s | |
| 最大加速度(M/S²) Max Accelerated Speed | | 4G | |
| 馬達參數 Technical Parameters | 峰值電流 (Peak Current) | 9Arms | |
| | 持續電流 (Continuous Current) | 2.4Arms | |
| | 峰值推力 (Peak Thrust) | 257 N | |
| | 持續推力 (N) Continuous Thrust(N) | 82 N | |
| 相間電阻 (Interphase Resistance) | 3.1 Ω | | |
| 相間電感 (Interphase Inductance) | 15.5 mH | | |
| 磁極距 (Maagnetic Pole Distance) | 24mm | | |
| 基本規格 Basic Specification | 標準行程 (mm) Standard Stroke | 50-1650 mm / 50 pitch | 100-1500 mm / 100pitch |
| | 主機載面最大外形: Max Outline of Main Engine's Cross Section | 82 × 77.5 | |
| 原點感應器 Home Sensor | PM-Y45(NPN) | | |

GLC 80 GLC系列有鐵芯式綫性馬達驅動

GLC Series Linear Motor Driven Type With Iron Core

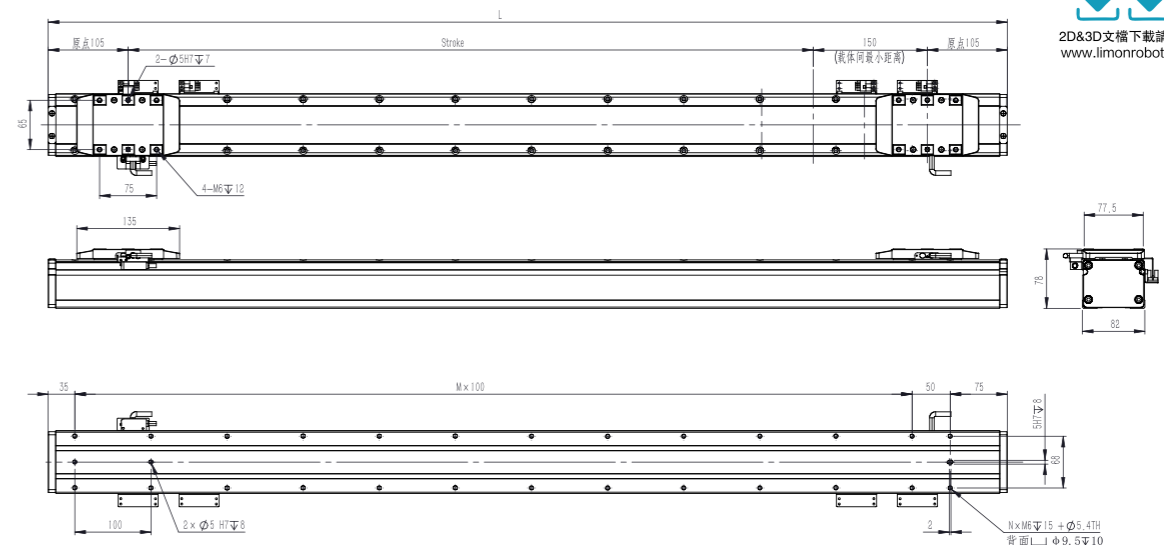
GLC80-C1



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 | 1600 | 1650 |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 260 | 310 | 360 | 410 | 460 | 510 | 560 | 610 | 660 | 710 | 760 | 810 | 860 | 910 | 960 | 1010 | 1060 | 1110 | 1160 | 1210 | 1260 | 1310 | 1360 | 1410 | 1460 | 1510 | 1560 | 1610 | 1660 | 1710 | 1760 | 1810 | 1860 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 15 | 15 | 16 | 16 | 17 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 | 32 | 32 | 34 | 34 | 36 | 36 | 38 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |

GLC80D2-C1



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 |
|----------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 460 | 560 | 660 | 760 | 860 | 960 | 1060 | 1160 | 1260 | 1360 | 1460 | 1560 | 1660 | 1760 | 1860 |
| M | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| N | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |

MLO 110

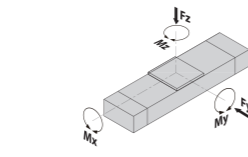
GLC系列有鐵芯式綫性馬達驅動
GLC Series Linear Motor Driven Type With Iron Core

| | | | | | | | | | |
|------------|----------|----|-----|----|---|---|----|---|----|
| 型號訂購碼 Code | MLO110 | C1 | 500 | 3L | M | P | RH | T | P3 |
| | MLO110D2 | C1 | 500 | 3L | M | P | | T | P3 |

| 本體型號 Item NO. | 綫圈規格 Coil Size | 行程 Stroke | 綫纜長度 Wire Length | 編碼器 Encoder | 驅動器 Driver | 履帶取出方向 Caterpillar Band Entry Location | 拖鏈 Drag chain | 限位傳感器數量 Photoelectric Sensor |
|-------------------------------|------------------------|--------------------|------------------|---|---------------------------------------|--|--|--|
| MLO 110 單動子型 Single Carriage | C1:標準型動子 Standard Coil | 100-4500 間隔/Gap100 | 3L:3m | G: 光學尺 Optical Scale | S: 高創 Servotronics P: 松下 Panasonic | RH:水平右側取出 Horizontal,Right LH:水平左側取出 Horizontal,Left RW:壁掛右側取出 Wall-hanging,Right LW:壁掛左側取出 Wall-hanging,Left | T: 含拖鏈 With Drag chain 未標記: 無 No Mark: None | P1: 1祇 1PC P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 No Mark: None |
| MLO110D2 雙動子型 Double Carriage | C2:加長型動子 Extended Coil | | 5L:5m 8L:8m | M: 磁性尺 Magnetic Scale B: 編碼器 Encoder | | | | |



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



| 規格 Type | MLO110-C1 | MLO110-C2 |
|--------------|-----------|-----------|
| ■ F(y) (N·m) | 4295 | 5580 |
| ■ F(z) (N·m) | 4295 | 5580 |
| ■ M(x) (N·m) | 112 | 112 |
| ■ M(y) (N·m) | 83 | 145 |
| ■ M(z) (N·m) | 276 | 465 |

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

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

履帶取出方向 Caterpillar Band Entry Location

| MLO-110 | | | | MLO-110D2 | | 廠牌 Brand | 驅動器記號 Mark | 驅動器型號 Driver Model | 接綫訊號 Connection Signal |
|---------------------------------|-----------------------------------|--------------------------------|----------------------------------|---------------------|-----------------------|-----------------|------------|----------------------|------------------------|
| RH 水平右側取出 RH Right & Horizontal | RW 壁掛右側取出 RW Right & Wall-hanging | LH 水平左側取出 LH Left & Horizontal | LW 壁掛左側取出 LW Left & Wall-hanging | H 水平安裝 H Horizontal | W 側掛安裝 W Wall-hanging | 高創 Servotronics | S | CDHD-AP1 CDHD-EC1 | 脈衝 EtherCAT |
| | | | | | | 松下 Panasonic | P | MBDLN-SL MBDLN-BL | 脈衝 EtherCAT |

注：請務必按導綫槽方向圖和各規格圖規定的方向進行設置。規定以外的安裝會導致故障發生，請務必加以注意。
Note: Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

基本規格 Basic Specification

| 技術參數 Technical Parameters | 機型 Type | MLO110-C1 | MLO110D2-C1 | MLO110-C2 | MLO110D2-C2 |
|-----------------------------------|--|-------------------------|---|-----------|-------------|
| | 驅動方式 Driving Method | | 有鐵芯平板綫性馬達 Linear Motor Driven Type With Iron Core | | |
| 位置重複精度(μ) Repetitive Accuracy | | ±2 μm | | | |
| 綫性度 Strength | X-X | 20 μm/300mm | | | |
| | Y-Y | 20 μm/300mm | | | |
| 最大負載(加速度1G工況下) Max load | | 25 kg | | 50 kg | |
| 最大速度(MM/S) Max Speed | | 4 m/s | | | |
| 最大加速度(M/S²) Max Accelerated Speed | | 4G | | | |
| 馬達參數 Technical Parameters | 峰值電流 (Peak Current) | 7.2 Arms | | 7.1 Arms | |
| | 持續電流 (Continuous Current) | 3.6 Arms | | 3.5 Arms | |
| | 峰值推力 (Peak Thrust) | 240 N | | 480 N | |
| | 持續推力 (N) Continuous Thrust(N) | 120 N | | 240 N | |
| 相間電阻 (Interphase Resistance) | | 3.6 Ω | | 6.9 Ω | |
| | 相間電感 (Interphase Inductance) | 19.4 mH | | 38.7 mH | |
| | 磁極距 (Magnetic Pole Distance) | 24mm | | | |
| 基本規格 Basic Specification | 標準行程 (mm) Standard Stroke | 100-4500 mm / 100 pitch | | | |
| | 主機截面最大外形: Max Outline of Main Engine's Cross Section | 110*96 | | | |
| | 原點感應器 Home Sensor | PM-T45(NPN) | | | |

GLC系列有鐵芯式綫性馬達驅動
GLC Series Linear Motor Driven Type With Iron Core

MLO 110

MLO110-C1

| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 |
|----------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 320 | 420 | 520 | 620 | 720 | 820 | 920 | 1020 | 1120 | 1220 | 1320 | 1420 | 1520 | 1620 | 1720 | 1820 | 1920 | 2020 | 2120 | 2220 | 2320 | 2420 | 2520 |
| M | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 17 | 18 | 18 | 19 | 20 |
| N | 6 | 8 | 8 | 10 | 12 | 14 | 16 | 18 | 18 | 20 | 22 | 24 | 26 | 28 | 28 | 30 | 32 | 34 | 36 | 38 | 38 | 40 | 42 |
| A | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 |

| 行程 Stroke (mm) | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 | 4100 | 4200 | 4300 | 4400 | 4500 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 2620 | 2720 | 2820 | 2920 | 3020 | 3120 | 3220 | 3320 | 3420 | 3520 | 3620 | 3720 | 3820 | 3920 | 4020 | 4120 | 4220 | 4320 | 4420 | 4520 | 4620 | 4720 |
| M | 21 | 22 | 23 | 23 | 24 | 25 | 26 | 27 | 28 | 28 | 29 | 30 | 31 | 32 | 33 | 33 | 34 | 35 | 36 | 37 | 38 | 38 |
| N | 44 | 46 | 48 | 48 | 50 | 52 | 54 | 56 | 58 | 58 | 60 | 62 | 64 | 66 | 68 | 68 | 70 | 72 | 74 | 76 | 78 | 78 |
| A | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 |

2D&3D文檔下載請至
www.limonrobot.cn

MLO Series

MLO110D2-C1

| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 |
|----------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 470 | 570 | 670 | 770 | 870 | 970 | 1070 | 1170 | 1270 | 1370 | 1470 | 1570 | 1670 | 1770 | 1870 | 1970 | 2070 | 2170 | 2270 | 2370 | 2470 | 2570 | 2670 |
| M | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 14 | 15 | 15 | 16 | 17 | 18 | 19 | 20 | 20 | 21 |
| N | 8 | 10 | 12 | 12 | 14 | 16 | 18 | 20 | 22 | 22 | 24 | 26 | 28 | 30 | 32 | 32 | 34 | 36 | 38 | 40 | 42 | 42 | 44 |
| A | 55 | 45 | 35 | 85 | 75 | 65 | 55 | 45 | 35 | 85 | 75 | 65 | 55 | 45 | 35 | 85 | 75 | 65 | 55 | 45 | 35 | 85 | 75 |

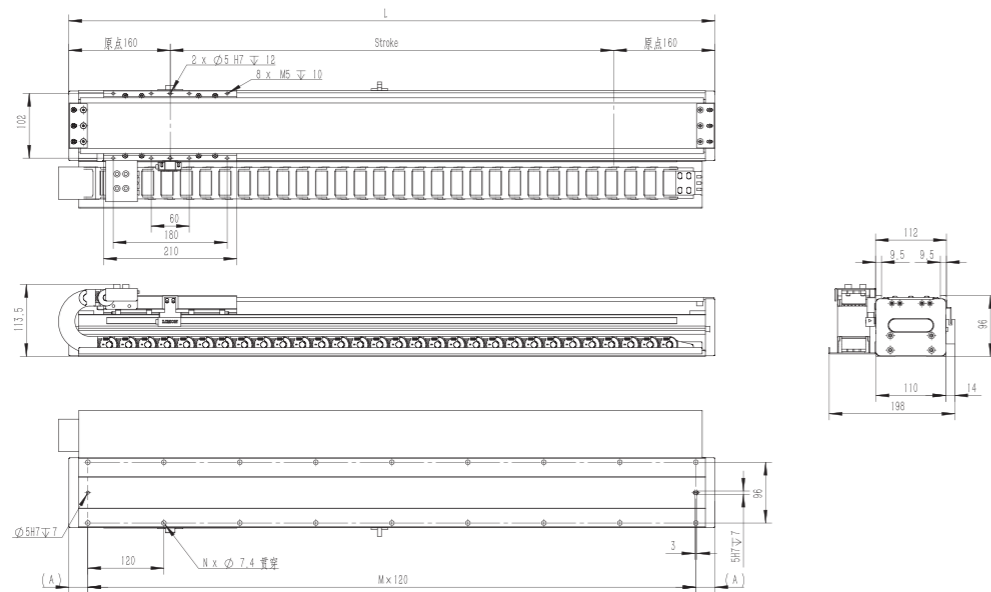
| 行程 Stroke (mm) | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 | 4100 | 4200 | 4300 | 4400 | 4500 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 2770 | 2870 | 2970 | 3070 | 3170 | 3270 | 3370 | 3470 | 3570 | 3670 | 3770 | 3870 | 3970 | 4070 | 4170 | 4270 | 4370 | 4470 | 4570 | 4670 | 4770 | 4870 |
| M | 22 | 23 | 24 | 25 | 25 | 26 | 27 | 28 | 29 | 30 | 30 | 31 | 32 | 33 | 34 | 35 | 35 | 36 | 38 | 38 | 39 | 40 |
| N | 46 | 48 | 50 | 52 | 54 | 56 | 58 | 60 | 62 | 62 | 64 | 66 | 68 | 70 | 72 | 72 | 74 | 76 | 78 | 80 | 82 | 82 |
| A | 65 | 55 | 45 | 35 | 85 | 75 | 65 | 55 | 45 | 35 | 85 | 75 | 65 | 55 | 45 | 35 | 85 | 75 | 65 | 55 | 45 | 35 |

2D&3D文檔下載請至
www.limonrobot.cn

MLO 110 GLC系列有鐵芯式綫性馬達驅動

GLC Series Linear Motor Driven Type With Iron Core

MLO110-C2

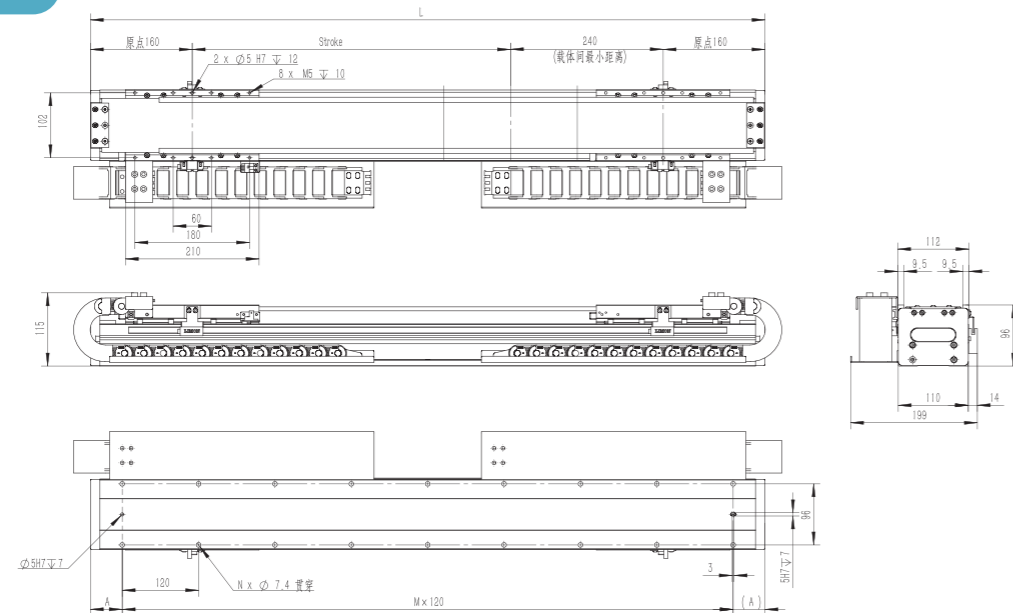


2D&3D文檔下載請至
www.limonrobot.cn

| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 |
|----------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 420 | 520 | 620 | 720 | 820 | 920 | 1020 | 1120 | 1220 | 1320 | 1420 | 1520 | 1620 | 1720 | 1820 | 1920 | 2020 | 2120 | 2220 | 2320 | 2420 | 2520 | 2620 |
| M | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 17 | 18 | 18 | 19 | 20 | 21 |
| N | 8 | 8 | 10 | 12 | 14 | 16 | 18 | 18 | 20 | 22 | 24 | 26 | 28 | 28 | 30 | 32 | 34 | 36 | 38 | 38 | 40 | 42 | 44 |
| A | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 |

| 行程 Stroke (mm) | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 | 4100 | 4200 | 4300 | 4400 | 4500 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 2720 | 2820 | 2920 | 3020 | 3120 | 3220 | 3320 | 3420 | 3520 | 3620 | 3720 | 3820 | 3920 | 4020 | 4120 | 4220 | 4320 | 4420 | 4520 | 4620 | 4720 | 4820 |
| M | 22 | 23 | 23 | 24 | 25 | 26 | 27 | 28 | 28 | 29 | 30 | 31 | 32 | 33 | 33 | 34 | 35 | 36 | 37 | 38 | 38 | 39 |
| N | 46 | 48 | 48 | 50 | 52 | 54 | 56 | 58 | 58 | 60 | 62 | 64 | 66 | 68 | 68 | 70 | 72 | 74 | 76 | 78 | 78 | 80 |
| A | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 |

MLO110D2-C2



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 | 2100 | 2200 | 2300 |
|----------------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 660 | 760 | 860 | 960 | 1060 | 1160 | 1260 | 1360 | 1460 | 1560 | 1660 | 1760 | 1860 | 1960 | 2060 | 2160 | 2260 | 2360 | 2460 | 2560 | 2660 | 2760 | 2860 |
| M | 5 | 5 | 6 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 14 | 15 | 15 | 16 | 17 | 18 | 19 | 20 | 20 | 21 | 22 | 23 |
| N | 12 | 12 | 14 | 16 | 18 | 20 | 22 | 22 | 24 | 26 | 28 | 30 | 32 | 32 | 34 | 36 | 38 | 40 | 42 | 42 | 44 | 46 | 48 |
| A | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 |

| 行程 Stroke (mm) | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 | 4100 | 4200 | 4300 | 4400 | 4500 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 2960 | 3060 | 3160 | 3260 | 3360 | 3460 | 3560 | 3660 | 3760 | 3860 | 3960 | 4060 | 4160 | 4260 | 4360 | 4460 | 4560 | 4660 | 4760 | 4860 | 4960 | 5060 |
| M | 24 | 25 | 25 | 26 | 27 | 28 | 29 | 30 | 30 | 31 | 32 | 33 | 34 | 35 | 35 | 36 | 37 | 38 | 39 | 40 | 40 | 41 |
| N | 50 | 52 | 52 | 54 | 56 | 58 | 60 | 62 | 62 | 64 | 66 | 68 | 70 | 72 | 72 | 74 | 76 | 78 | 80 | 82 | 82 | 84 |
| A | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 |

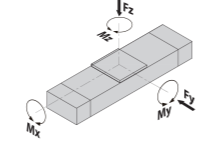
MLO 135 MLO系列有鐵芯式綫性馬達驅動

MLO Series Linear Motor Driven Type With Iron Core

| | | | | | | | | | |
|------------------|---|---|------------------------------------|--|--|--|--|--|--|
| 型號訂購碼 Code | MLO135 | C1 | 500 | 3L | M | P | RH | T | P3 |
| | MLO135D2 | C1 | 500 | 3L | M | P | | T | P3 |
| 本體型號 Item NO. | MLO 135 單動子型 Single Carriage MLO135D2 雙動子型 Double Carriage | 綫圈規格 Coil Size C1:標準型動子 Standard Coil C2:加長型動子 Extended Coil | 行程 Stroke 100-4500 間隔/Gap100 | 綫纜長度 Wire Length 3L:3m 5L:5m 8L:8m | 編碼器 Encoder G: 光學尺 Optical Scale M: 磁性尺 Magnetic Scale B: 編碼器 Encoder | 驅動器 Driver S: 高創 Servotronics P: 松下 Panasonic | 履帶取出方向 Caterpillar Band Entry Location RH:水平右側取出 Horizontal, Right LH:水平左側取出 Horizontal, Left RW:壁掛右側取出 Wall-hanging, Right LW:壁掛左側取出 Wall-hanging, Left | 拖鏈 Drag chain T: 含拖鏈 With Drag chain 未標記: 無 No Mark: None | 限位傳感器數量 Photoelectric Sensor P1: 1板 1PC P2: 2板 2PCS P3: 3板 3PCS 未標記: 無 No Mark: None |



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



| 規格 Type | MLO135-C1 | MLO135-C2 |
|--------------|-----------|-----------|
| ■ F(y) (N·m) | 5370 | 6980 |
| ■ F(z) (N·m) | 5370 | 6980 |
| ■ M(x) (N·m) | 142 | 142 |
| ■ M(y) (N·m) | 104 | 180 |
| ■ M(z) (N·m) | 346 | 582 |

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

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

履帶取出方向 Caterpillar Band Entry Location

| MLO-135 | | | | MLO-135D2 | |
|------------------------------------|--------------------------------------|-----------------------------------|-------------------------------------|------------------------|--------------------------|
| RH 水平右側取出 RH Right & Horizontal | RW 壁掛右側取出 RW Right & Wall-hanging | LH 水平左側取出 LH Left & Horizontal | LW 壁掛左側取出 LW Left & Wall-hanging | H 水平安裝 H Horizontal | W 側掛安裝 W Wall-hanging |

搭配驅動器一覽表 Driver

| 廠牌 Brand | 驅動器記號 Mark | 驅動器型號 Driver Model | 接線訊號 Connection Signal |
|-----------------|------------|--------------------|------------------------|
| 高創 Servotronics | S | CDHD-AP1 | 脈衝 |
| | | CDHD-EC1 | EtherCAT |
| 松下 Panasonic | P | MBDLN-SL | 脈衝 |
| | | MBDLN-BL | EtherCAT |

注：請務必按導線槽方向圖和各規格圖規定的方向進行設置。規定以外的安裝會導致故障發生，請務必加以注意。
Note: Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

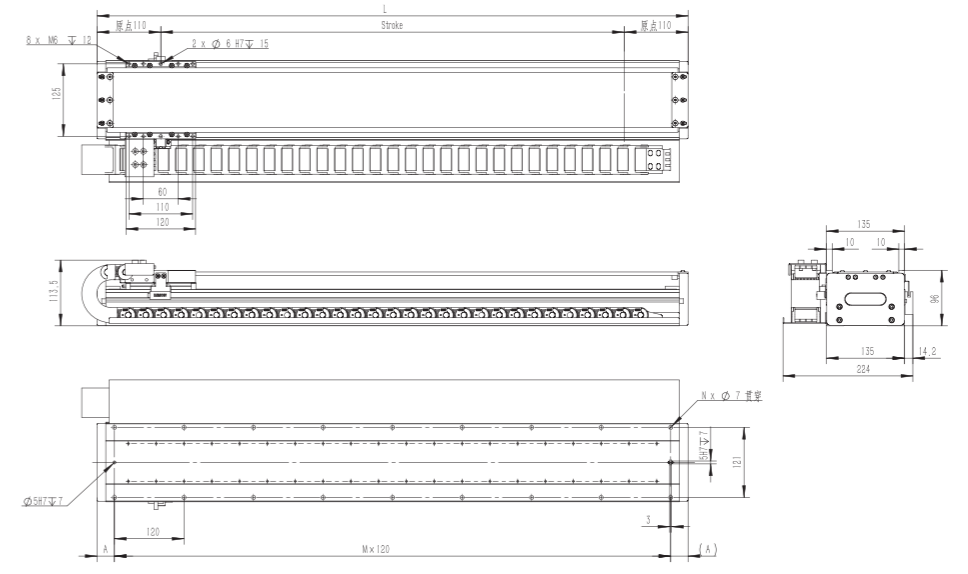
基本規格 Basic Specification

| 技術參數 Technical Parameters | 機型 Type | MLO135-C1 | MLO135D2-C1 | MLO135-C2 | MLO135D2-C2 |
|--|-------------------------------|---|-------------|-----------|-------------|
| | 驅動方式 Driving Method | 有鐵芯平板綫性馬達 Linear Motor Driven Type With Iron Core | | | |
| 位置重複精度 (μ) Repetitive Accuracy | ±2 μm | | | | |
| 綫性度 Strength | X-X | 20 μm/300mm | | | |
| | Y-Y | 20 μm/300mm | | | |
| 最大負載 (加速度1G工況下) Max load | 40 kg | | 80 kg | | |
| 最大速度 (MM/S) Max Speed | 4 m/s | | | | |
| 最大加速度 (M/S²) Max Accelerated Speed | 4G | | | | |
| 馬達參數 Technical Parameters | 峰值電流 (Peak Current) | 7.2 Arms | | 21.9 Arms | |
| | 持續電流 (Continuous Current) | 3.6 Arms | | 7.3 Arms | |
| | 峰值推力 (Peak Thrust) | 480 N | | 1200 N | |
| | 持續推力 (N) Continuous Thrust(N) | 240 N | | 480 N | |
| | 相間電阻 (Interphase Resistance) | 5.4 Ω | | 2.8 Ω | |
| 相間電感 (Interphase Inductance) | 30 mH | | 16.1 mH | | |
| 磁極距 (Maagnetic Pole Distance) | 24mm | | | | |
| 標準行程 (mm) Standard Stroke | 100-4500 mm / 100 pitch | | | | |
| 主機版面最大外形: Max Outline of Main Engine's Cross Section | 135*96 | | | | |
| 原點感應器 Home Sensor | PM-Y45(NPN) | | | | |

MLO系列有鐵芯式綫性馬達驅動 MLO 135

MLO Series Linear Motor Driven Type With Iron Core

MLO135-C1

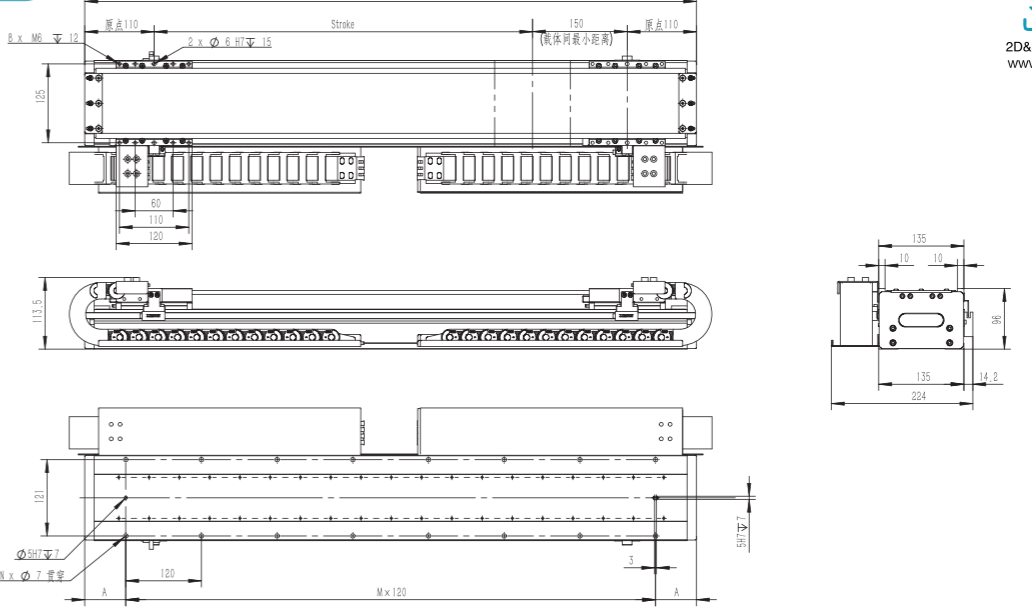


| 行程 Stroke (mm) | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | |
|----------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 320 | 420 | 520 | 620 | 720 | 820 | 920 | 1020 | 1120 | 1220 | 1320 | 1420 | 1520 | 1620 | 1720 | 1820 | 1920 | 2020 | 2120 | 2220 | 2320 | 2420 | 2520 |
| M | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 18 | 19 | 20 | |
| N | 6 | 8 | 8 | 10 | 12 | 14 | 16 | 18 | 18 | 20 | 22 | 24 | 26 | 28 | 28 | 30 | 32 | 34 | 36 | 38 | 38 | 40 | 42 |
| A | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 |

| 行程 Stroke (mm) | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 | 4100 | 4200 | 4300 | 4400 | 4500 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 2620 | 2720 | 2820 | 2920 | 3020 | 3120 | 3220 | 3320 | 3420 | 3520 | 3620 | 3720 | 3820 | 3920 | 4020 | 4120 | 4220 | 4320 | 4420 | 4520 | 4620 | 4720 |
| M | 21 | 22 | 23 | 23 | 24 | 25 | 26 | 27 | 28 | 28 | 29 | 30 | 31 | 32 | 33 | 33 | 34 | 35 | 36 | 37 | 38 | 38 |
| N | 44 | 46 | 48 | 48 | 50 | 52 | 54 | 56 | 58 | 58 | 60 | 62 | 64 | 66 | 68 | 68 | 70 | 72 | 74 | 76 | 78 | 78 |
| A | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 |

2D&3D文檔下載請至
www.limonrobot.cn

MLO135D2-C1



| 行程 Stroke (mm) | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | |
|----------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 470 | 570 | 670 | 770 | 870 | 970 | 1070 | 1170 | 1270 | 1370 | 1470 | 1570 | 1670 | 1770 | 1870 | 1970 | 2070 | 2170 | 2270 | 2370 | 2470 | 2570 | 2670 |
| M | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 14 | 15 | 15 | 16 | 17 | 18 | 19 | 20 | 20 | 21 |
| N | 8 | 10 | 12 | 12 | 14 | 16 | 18 | 20 | 22 | 22 | 24 | 26 | 28 | 30 | 32 | 32 | 34 | 36 | 38 | 40 | 42 | 42 | 44 |
| A | 55 | 45 | 35 | 85 | 75 | 65 | 55 | 45 | 35 | 85 | 75 | 65 | 55 | 45 | 35 | 85 | 75 | 65 | 55 | 45 | 35 | 85 | 75 |

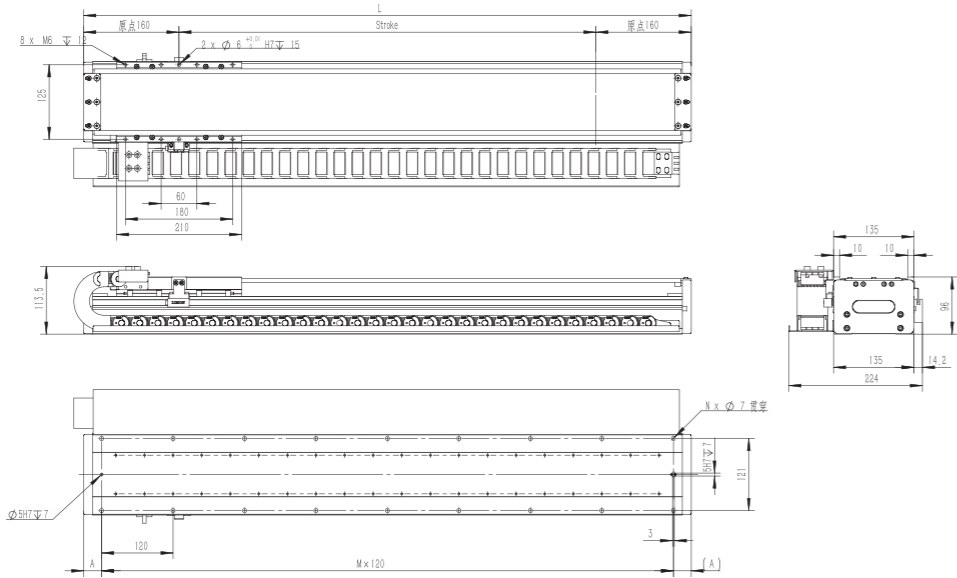
| 行程 Stroke (mm) | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 | 4100 | 4200 | 4300 | 4400 | 4500 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 2770 | 2870 | 2970 | 3070 | 3170 | 3270 | 3370 | 3470 | 3570 | 3670 | 3770 | 3870 | 3970 | 4070 | 4170 | 4270 | 4370 | 4470 | 4570 | 4670 | 4770 | 4870 |
| M | 22 | 23 | 24 | 25 | 25 | 26 | 27 | 28 | 29 | 30 | 30 | 31 | 32 | 33 | 34 | 35 | 35 | 36 | 37 | 38 | 39 | 40 |
| N | 46 | 48 | 50 | 52 | 52 | 54 | 56 | 58 | 60 | 62 | 62 | 64 | 66 | 68 | 70 | 72 | 72 | 74 | 76 | 78 | 80 | 82 |
| A | 65 | 55 | 45 | 35 | 85 | 75 | 65 | 55 | 45 | 35 | 85 | 75 | 65 | 55 | 45 | 35 | 85 | 75 | 65 | 55 | 45 | 35 |

2D&3D文檔下載請至
www.limonrobot.cn

MLO 135 MLO系列有鐵芯式綫性馬達驅動

MLO Series Linear Motor Driven Type With Iron Core

MLO135-C2

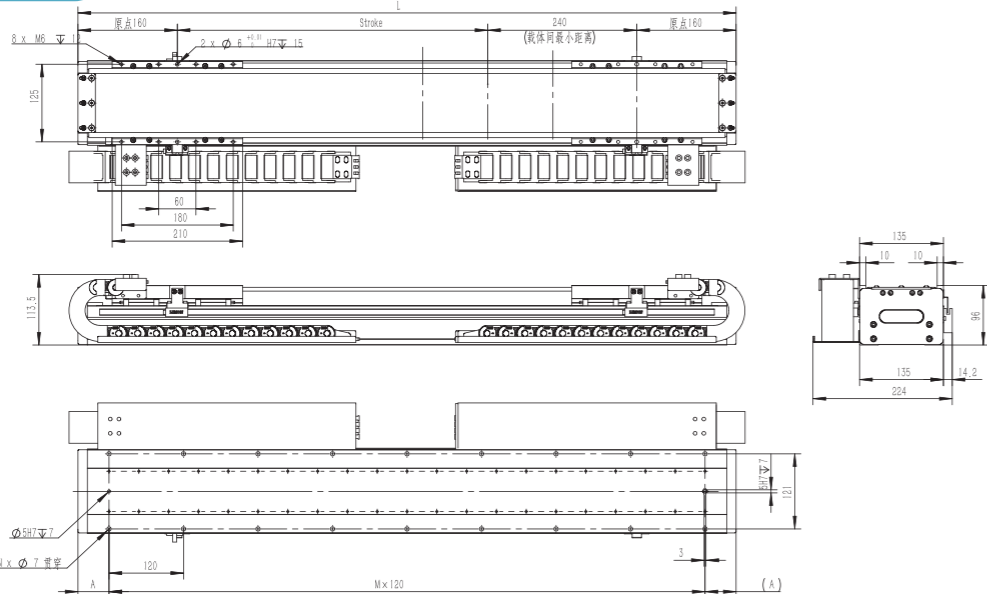


2D&3D文檔下載請至
www.limonrobot.cn

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程 Stroke (mm) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 |
| 總長 Length (L) | 420 | 520 | 620 | 720 | 820 | 920 | 1020 | 1120 | 1220 | 1320 | 1420 | 1520 | 1620 | 1720 | 1820 | 1920 | 2020 | 2120 | 2220 | 2320 | 2420 | 2520 | 2620 |
| M | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 17 | 18 | 18 | 19 | 20 | 21 |
| N | 8 | 8 | 10 | 12 | 14 | 16 | 18 | 18 | 20 | 22 | 24 | 26 | 28 | 28 | 30 | 32 | 34 | 36 | 38 | 38 | 40 | 42 | 44 |
| A | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 |

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程 Stroke (mm) | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 | 4100 | 4200 | 4300 | 4400 | 4500 |
| 總長 Length (L) | 2720 | 2820 | 2920 | 3020 | 3120 | 3220 | 3320 | 3420 | 3520 | 3620 | 3720 | 3820 | 3920 | 4020 | 4120 | 4220 | 4320 | 4420 | 4520 | 4620 | 4720 | 4820 |
| M | 22 | 23 | 23 | 24 | 25 | 26 | 27 | 28 | 28 | 29 | 30 | 31 | 32 | 33 | 33 | 34 | 35 | 36 | 37 | 38 | 38 | 39 |
| N | 46 | 48 | 48 | 50 | 52 | 54 | 56 | 58 | 58 | 60 | 62 | 64 | 66 | 68 | 68 | 70 | 72 | 74 | 76 | 78 | 78 | 80 |
| A | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 |

MLO135D2-C2



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 | 2100 | 2200 | 2300 |
| 總長 Length (L) | 660 | 760 | 860 | 960 | 1060 | 1160 | 1260 | 1360 | 1460 | 1560 | 1660 | 1760 | 1860 | 1960 | 2060 | 2160 | 2260 | 2360 | 2460 | 2560 | 2660 | 2760 | 2860 |
| M | 5 | 5 | 6 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 14 | 15 | 15 | 16 | 17 | 18 | 19 | 20 | 20 | 21 | 22 | 23 |
| N | 12 | 12 | 14 | 16 | 18 | 20 | 22 | 22 | 24 | 26 | 28 | 30 | 32 | 32 | 34 | 36 | 38 | 40 | 42 | 42 | 44 | 46 | 48 |
| A | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 |

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程 Stroke (mm) | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 | 4100 | 4200 | 4300 | 4400 | 4500 |
| 總長 Length (L) | 2960 | 3060 | 3160 | 3260 | 3360 | 3460 | 3560 | 3660 | 3760 | 3860 | 3960 | 4060 | 4160 | 4260 | 4360 | 4460 | 4560 | 4660 | 4760 | 4860 | 4960 | 5060 |
| M | 24 | 25 | 25 | 26 | 27 | 28 | 29 | 30 | 30 | 31 | 32 | 33 | 34 | 35 | 35 | 36 | 37 | 38 | 39 | 40 | 40 | 41 |
| N | 50 | 52 | 52 | 54 | 56 | 58 | 60 | 62 | 62 | 64 | 66 | 68 | 70 | 72 | 72 | 74 | 76 | 78 | 80 | 82 | 82 | 84 |
| A | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 | 60 | 50 | 40 | 30 | 80 | 70 |

ZLO 17 ZLO系列有鐵芯式綫性馬達驅動

ZLO Series Linear Motor Driven Type With Iron Core

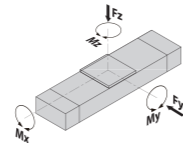
型號訂購碼 Code ZLO 17 C1 500 3L M P RH T P3

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

| 本體型號 Item NO. | 綫圈規格 Coil Size | 行程 Stroke | 綫圈長度 Wire Length | 編碼器 Encoder | 驅動器 Driver | 履帶取出方向 Caterpillar Band Entry Location | 安裝方式 Mounting | 拖鏈 Drag chain | 限位傳感器數量 Photoelectric Sensor |
|------------------------------|-------------------------|--------------------|------------------|-----------------------|-------------------|--|---------------------|-----------------------|------------------------------|
| ZLO17 單動子型 Single Carriage | C1:標準型動子 Standard Coil | 180-2460 間隔/Gap120 | 3L:3m | G: 光學尺 Optical Scale | S: 高創 Servotronic | RH:水平右側取出 Horizontal,Right | H:水平安裝 Horizontal | T:含拖鏈 With Drag chain | P1: 1祇 1PC |
| ZLO17D2 雙動子型 Double Carriage | C2:加長型動子 Extended Coil | | 5L:5m | M: 磁性尺 Magnetic Scale | P: 松下 Panasonic | LH:水平左側取出 Horizontal,Left | W:側掛安裝 Wall-hanging | 未標記: 無 No Mark: None | P2: 2祇 2PCS |
| | C3:超長型動子 Ultralong Coil | | 8L:8m | | | RW:壁掛右側取出 Wall-hanging,Right | | | P3: 3祇 3PCS |
| | | | | | | LW:壁掛左側取出 Wall-hanging,Left | | | 未標記: 無 No Mark: None |



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



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

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

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

履帶取出方向 Caterpillar Band Entry Location

| ZLO-17 | | | | ZLO-17D2 | | 廠牌 Brand | 驅動器記號 Mark | 驅動器型號 Driver Model | 接線訊號 Connection Signal |
|---------------------------------|-----------------------------------|--------------------------------|----------------------------------|---------------------|-----------------------|----------------|------------|--------------------|------------------------|
| RH 水平右側取出 RH Right & Horizontal | RW 壁掛右側取出 RW Right & Wall-hanging | LH 水平左側取出 LH Left & Horizontal | LW 壁掛左側取出 LW Left & Wall-hanging | H 水平安裝 H Horizontal | W 側掛安裝 W Wall-hanging | 高創 Servotronic | S | CDHD-AP1 | 脈衝 |
| | | | | | | 松下 Panasonic | P | MBDLN-SL | 脈衝 |
| | | | | | | | | MBDLN-BL | EtherCAT |

注：請務必按導線槽方向圖和各規格圖規定的方向進行設置。規定以外的安裝會導致故障發生，請務必加以注意。
Note: Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

基本規格 Basic Specification

| 機型 Type | ZLO17-C1 | ZLO17-C2 | ZLO17-C3 |
|--|---|----------|----------|
| 技術參數 Technical Parameters | | | |
| 驅動方式 Driving Method | 有鐵芯平板綫性馬達 Linear Motor Driven Type With Iron Core | | |
| 位置重複精度(μ) Repetitive Accuracy | 5 #1 | | |
| 持續推力 (N) Continuous Thrust(N) | 100 | 180 | 270 |
| 最大推力 (N) Max Thrust(N) | 280 | 504 | 756 |
| 最大加速度(M/S²) Max Accelerated Speed | 4G | | |
| 最大速度(MM/S) Max Speed | 4000 | | |
| 基本規格 Basic Specification | | | |
| 標準行程 (mm) Standard Stroke | 180-2460 mm / 120 pitch | | |
| 主機截面最大外形: Max Outline of Main Engine's Cross Section | 183*102 | | |
| 高剛性直綫滑軌 (mm) High Stiffness Linear Guide | 20型導軌 2支 / 20 Guide 2 PCS | | |
| 履帶內部容積: Internal Capacity of Caterpillar Band | 17*25 | | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | |

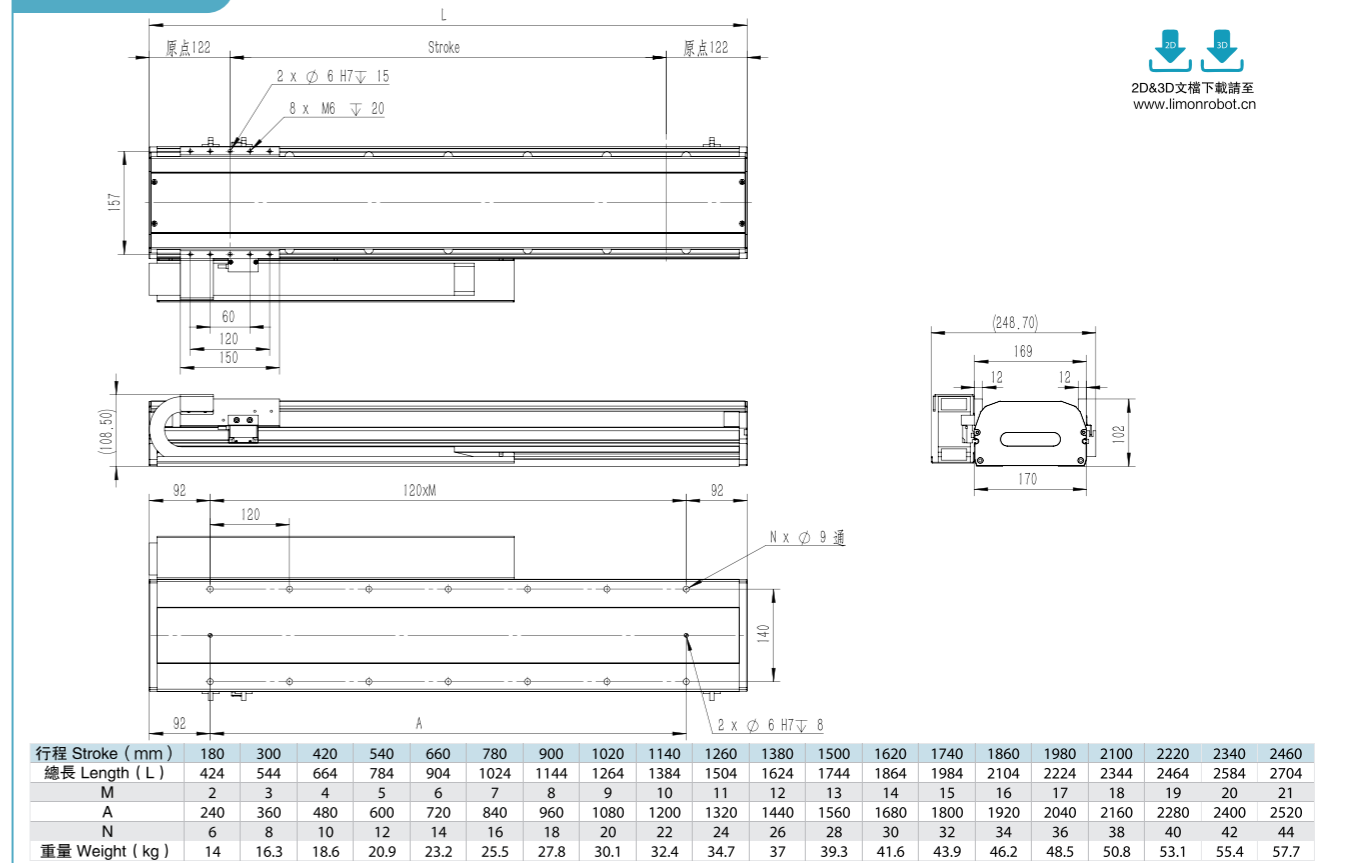
- 注 #1:
1. 最高速度隨最小分辨率而變化。
 2. 動作速度、加速度等規格受負載的限制。
 3. 加速度為2G動作時的負載，所到達速度，受推力和速度特性的限制。
 4. 反復運動0背隙。

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

ZLO 17 ZLO系列有鐵芯式綫性馬達驅動

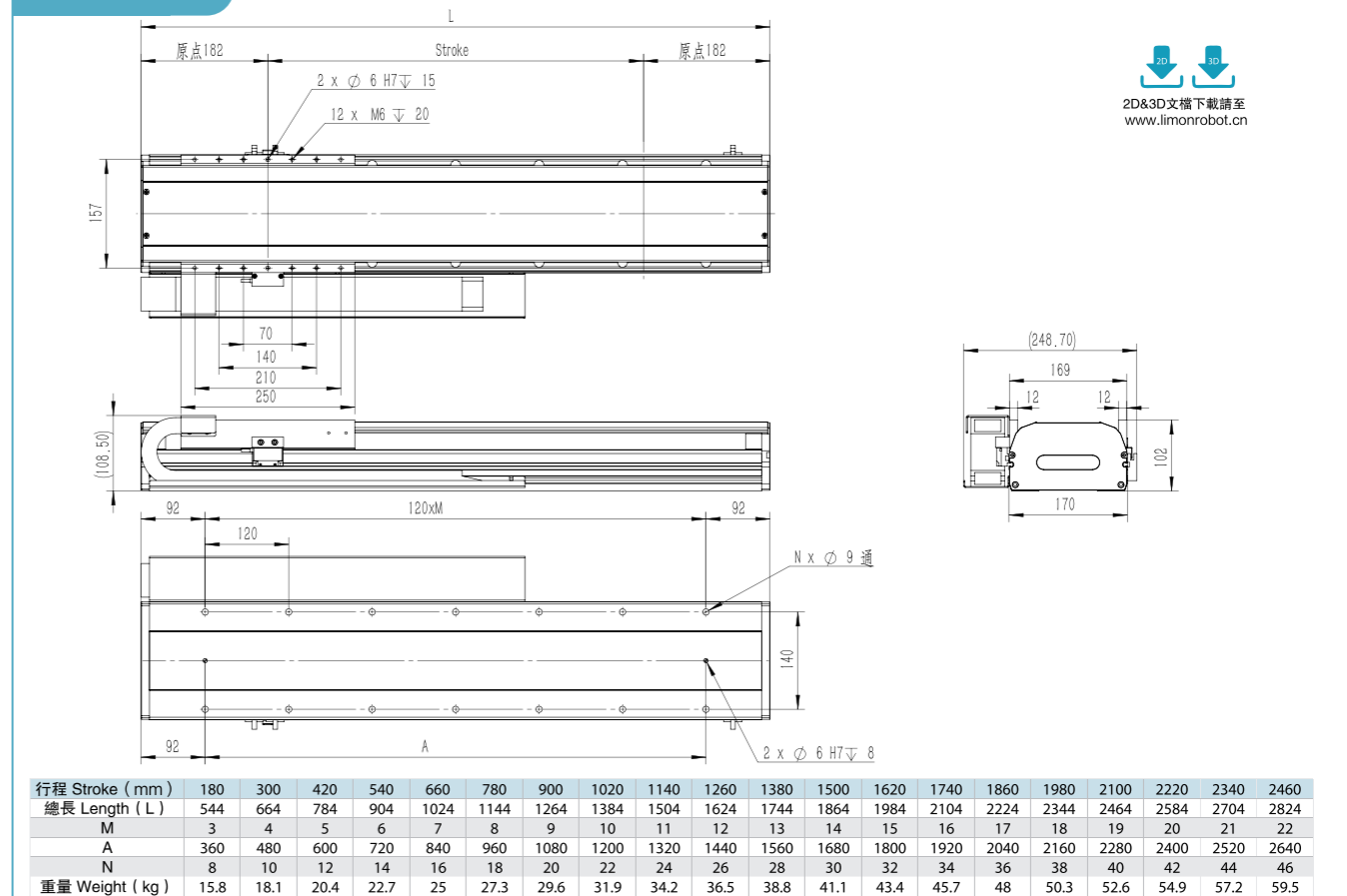
ZLO Series Linear Motor Driven Type With Iron Core

ZLO 17-C1



2D&3D文檔下載請至
www.limonrobot.cn

ZLO 17-C2

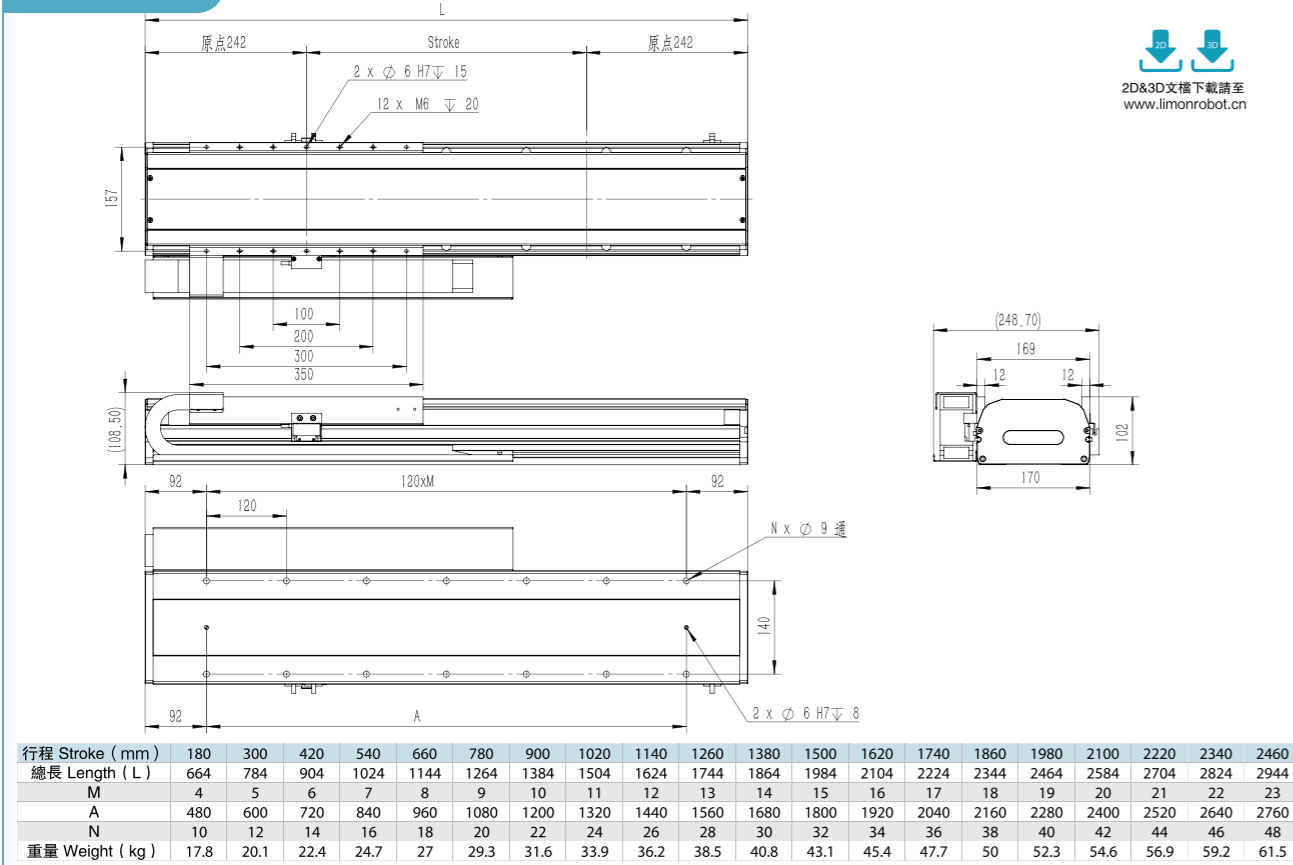


2D&3D文檔下載請至
www.limonrobot.cn

ZLO 17 ZLO系列有鐵芯式綫性馬達驅動

ZLO Series Linear Motor Driven Type With Iron Core

ZLO 17-C3

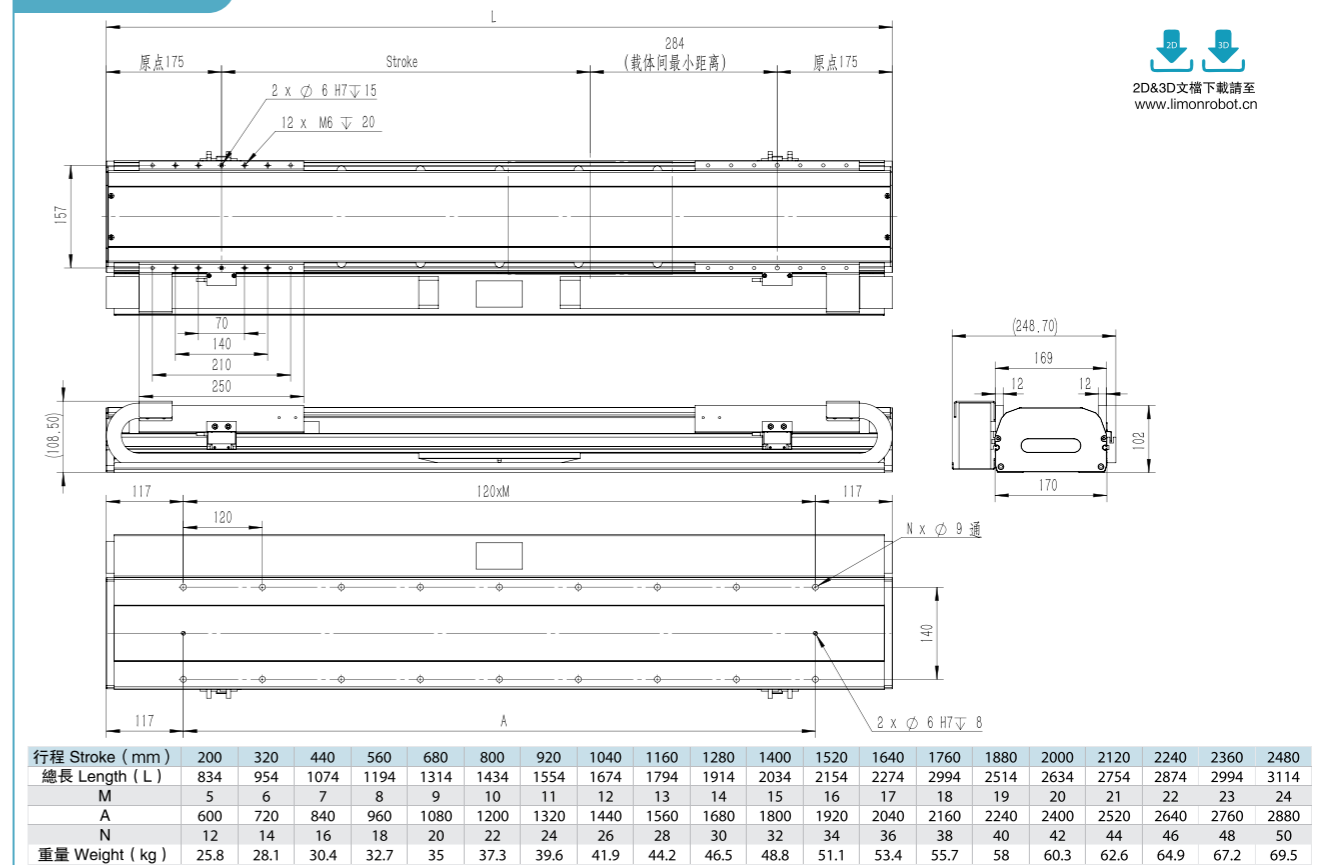


2D&3D文檔下載請至
www.limonrobot.cn

ZLO 17 ZLO系列有鐵芯式綫性馬達驅動

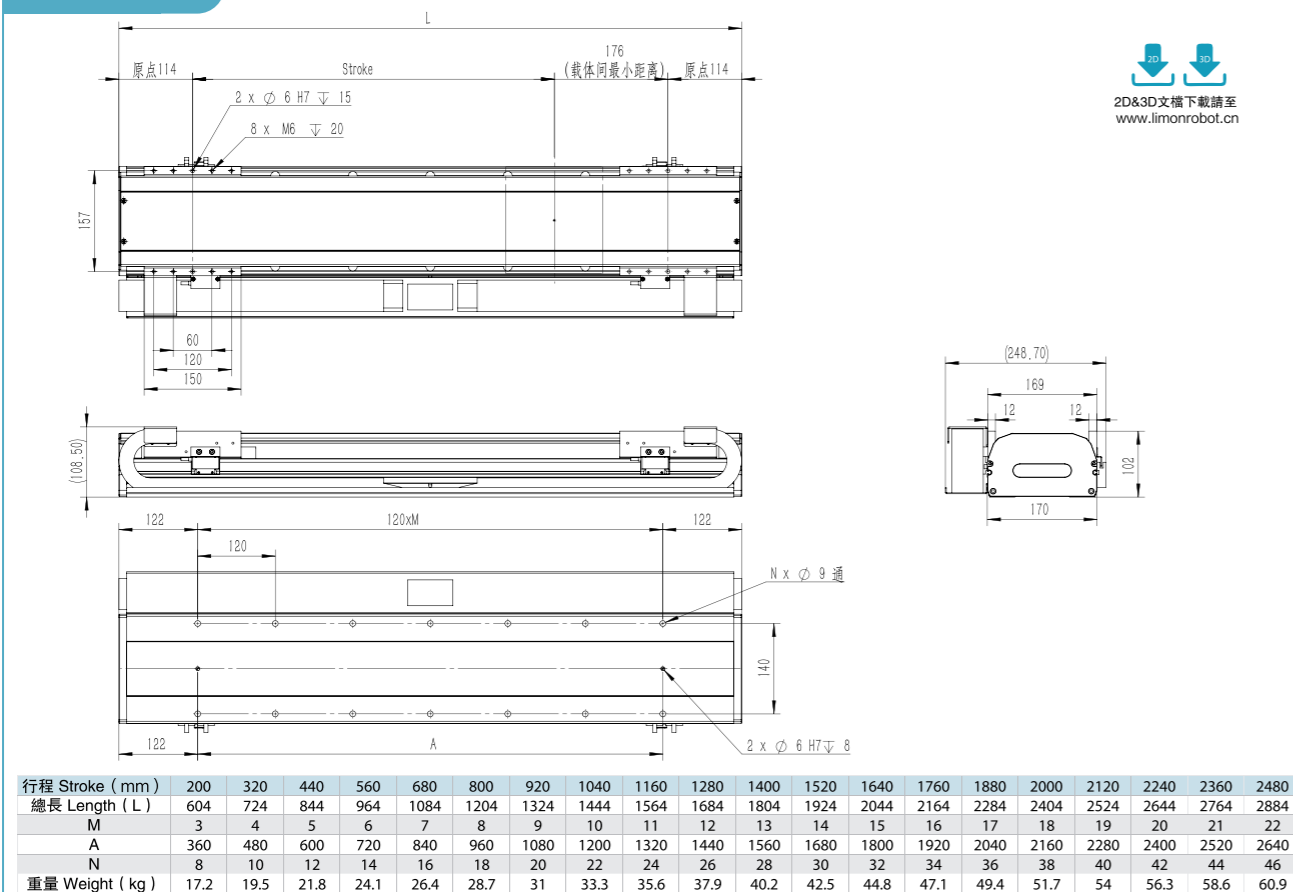
ZLO Series Linear Motor Driven Type With Iron Core

ZLO 17D2-C2



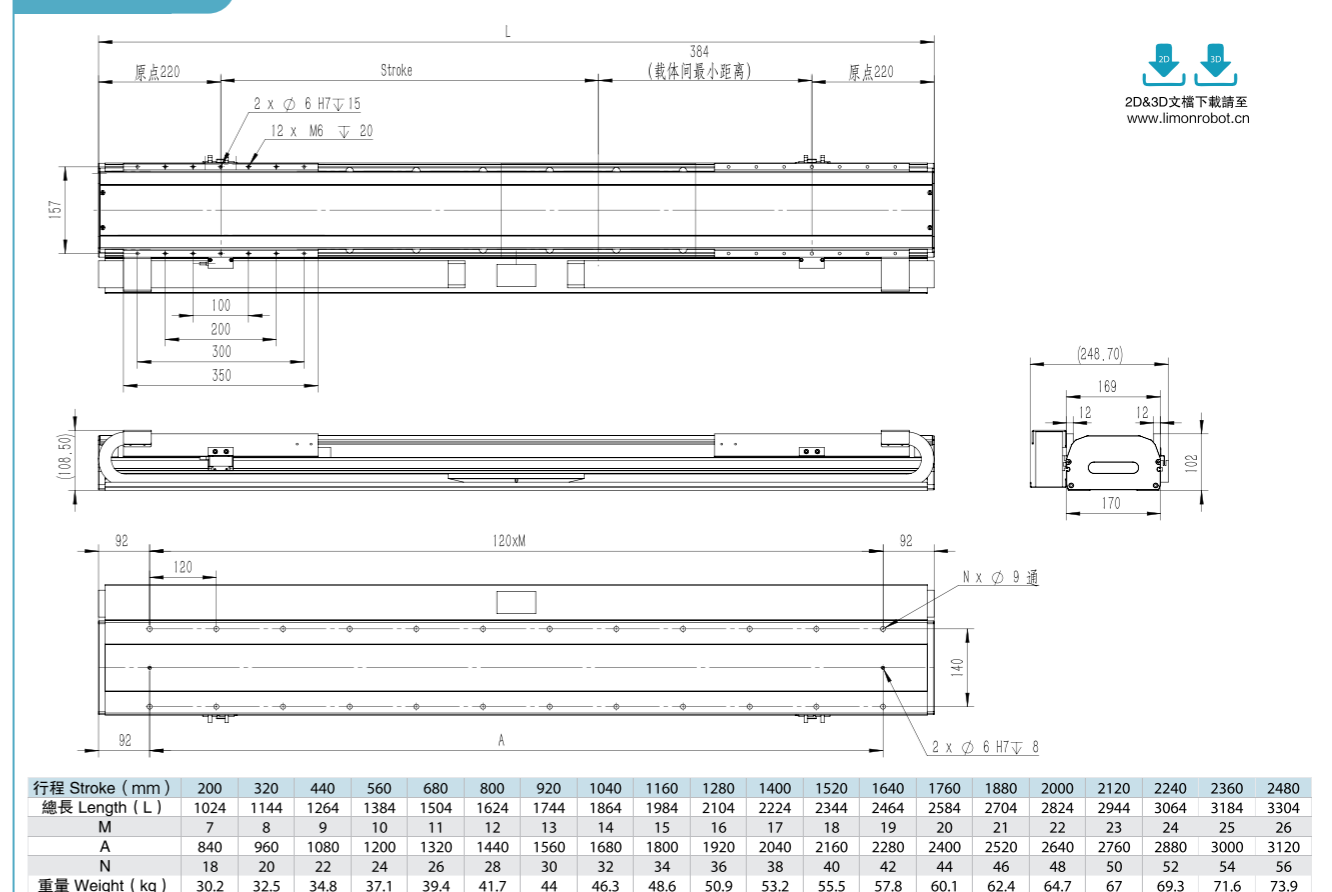
2D&3D文檔下載請至
www.limonrobot.cn

ZLO17D2-C1



2D&3D文檔下載請至
www.limonrobot.cn

ZLO 17D2-C3



2D&3D文檔下載請至
www.limonrobot.cn

ZLO 22 ZLO系列有鐵芯式綫性馬達驅動

ZLO Series Linear Motor Driven Type With Iron Core

型號訂購碼 Code ZLO 22 C1 500 3L M P RH T P3

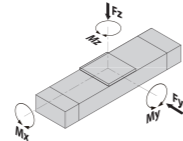
ZLO 22D2 C1 500 3L M P H T P3

| | | | | | | | | | |
|----------------------------------|----------------------------|-----------------------|-------------------------|-------------------------|---------------------|---|------------------------|--------------------------|-------------------------------------|
| 本體型號 Item NO. | 綫圈規格 Coil Size | 行程 Stroke | 綫圈長度 Wire Length | 編碼器 Encoder | 驅動器 Driver | 履帶取出方向 Caterpillar Band Entry Location | 安裝方式 Mounting | 拖鏈 Drag chain | 限位傳感器數量 Photoelectric Sensor |
| ZLO 22 單動子型 Single Carriage | C1:標準型動子 Standard Coil | 180-2460 間隔/Gap120 | 3L:3m | G:光學尺 Optical Scale | S:高創 Servotronic | RH:水平右側取出 Horizontal,Right | H:水平安裝 Horizontal | T:含拖鏈 With Drag chain | P1: 1祇 1PC |
| ZLO 22D2 雙動子型 Double Carriage | C2:加長型動子 Extended Coil | | 5L:5m | M:磁性尺 Magnetic Scale | P:松下 Panasonic | LH:水平左側取出 Horizontal,Left | W:側掛安裝 Wall-hanging | 未標記: 無 No Mark: None | P2: 2祇 2PCS |
| | C3:超長型動子 Ultralong Coil | | 8L:8m | | | RW:壁掛右側取出 Wall-hanging,Right | | | P3: 3祇 3PCS |
| | | | | | | LW:壁掛左側取出 Wall-hanging,Left | | | 未標記: 無 No Mark: None |



最大動態力和力矩

Max Permissible Forces And Torques



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

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

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

履帶取出方向

Caterpillar Band Entry Location

| ZLO-22 | | | | ZLO-22D2 | | 廠牌 | 驅動器記號 | 驅動器型號 | 接線訊號 |
|---------------------------------|-----------------------------------|--------------------------------|----------------------------------|------------------------|--------------------------|--|-------|----------|----------|
| RH 水平右側取出 Right & Horizontal | RW 壁掛右側取出 Right & Wall-hanging | LH 水平左側取出 Left & Horizontal | LW 壁掛左側取出 Left & Wall-hanging | H 水平安裝 H Horizontal | W 側掛安裝 W Wall-hanging | 高創 Servotronic | S | CDHD-AP1 | 脈衝 |
| | | | | | | 松下 Panasonic <th>P</th> <th>MBDLN-SL</th> <th>脈衝</th> | P | MBDLN-SL | 脈衝 |
| | | | | | | | | MBDLN-BL | EtherCAT |

搭配驅動器一覽表

Driver

注：請務必按導線槽方向圖和各規格圖規定的方向進行設置。規定以外的安裝會導致故障發生，請務必加以注意。
Note: Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

基本規格

Basic Specification

| 機型 Type | ZLO22-C1 | ZLO22-C2 | ZLO22-C3 |
|--|--|----------|----------|
| 技術參數 Technical Parameters | 有鐵芯平板綫性馬達 Linear Motor Driven Type With Iron Core | | |
| 驅動方式 Driving Method | 有鐵芯平板綫性馬達 Linear Motor Driven Type With Iron Core | | |
| 位置重複精度(μ) Repetitive Accuracy | 5 #1 | | |
| 持續推力(N) Continuous Thrust(N) | 160 | 288 | 432 |
| 最大推力(N) Max Thrust(N) | 448 | 806 | 1210 |
| 最大加速度(M/S ²) Max Accelerated Speed | 4G | | |
| 最大速度(MM/S) Max Speed | 4000 | | |
| 基本規格 Basic Specification | 標準行程 (mm) Standard Stroke | | |
| | 180-2460 mm / 120 pitch | | |
| | 主機截面最大外形: Max Outline of Main Engine's Cross Section | | |
| | 183*102 | | |
| | 高剛性直綫滑軌 (mm) High Stiffness Linear Guide | | |
| | 25型導軌 2支 / 25 Guide 2 PCS | | |
| | 履帶內部容積: Internal Capacity of Caterpillar Band | | |
| | 17*25 | | |
| | 原點感應器 Home Sensor | | |
| | EE-SX672(NPN) | | |

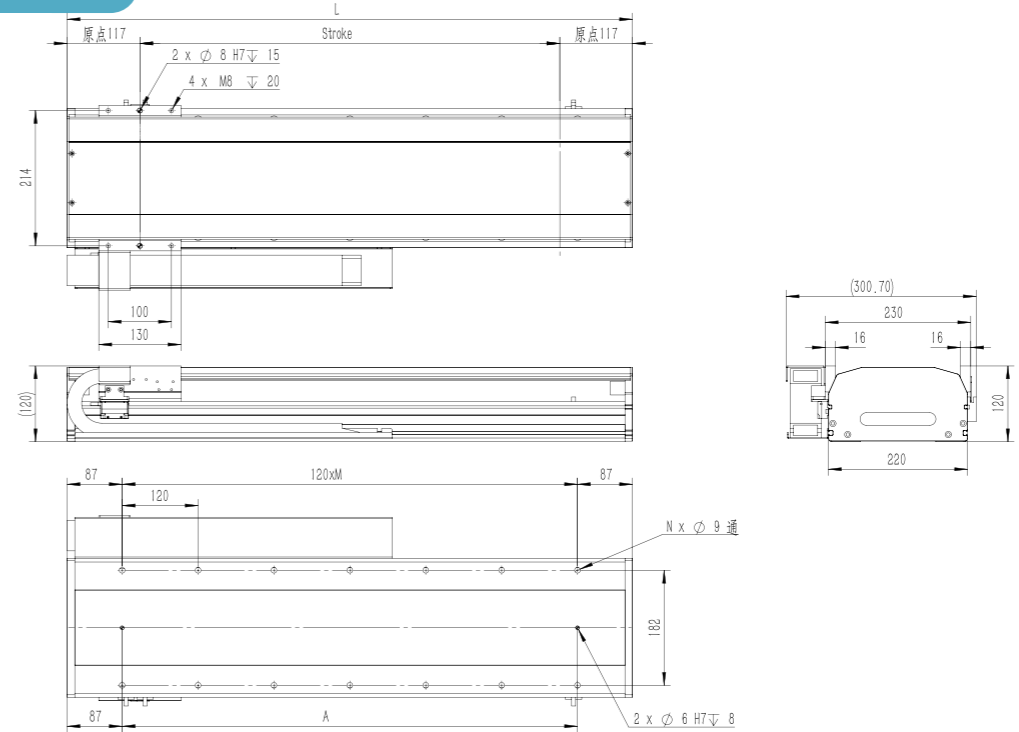
注#1:
1. 最高速度隨最小分辨率而變化。
2. 動作速度、加速度等規格受負載的限制。
3. 加速度為2G動作時的負載，所到達速度，受推力和速度特性的限制。
4. 反復運動0背隙。

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

ZLO 22 ZLO系列有鐵芯式綫性馬達驅動

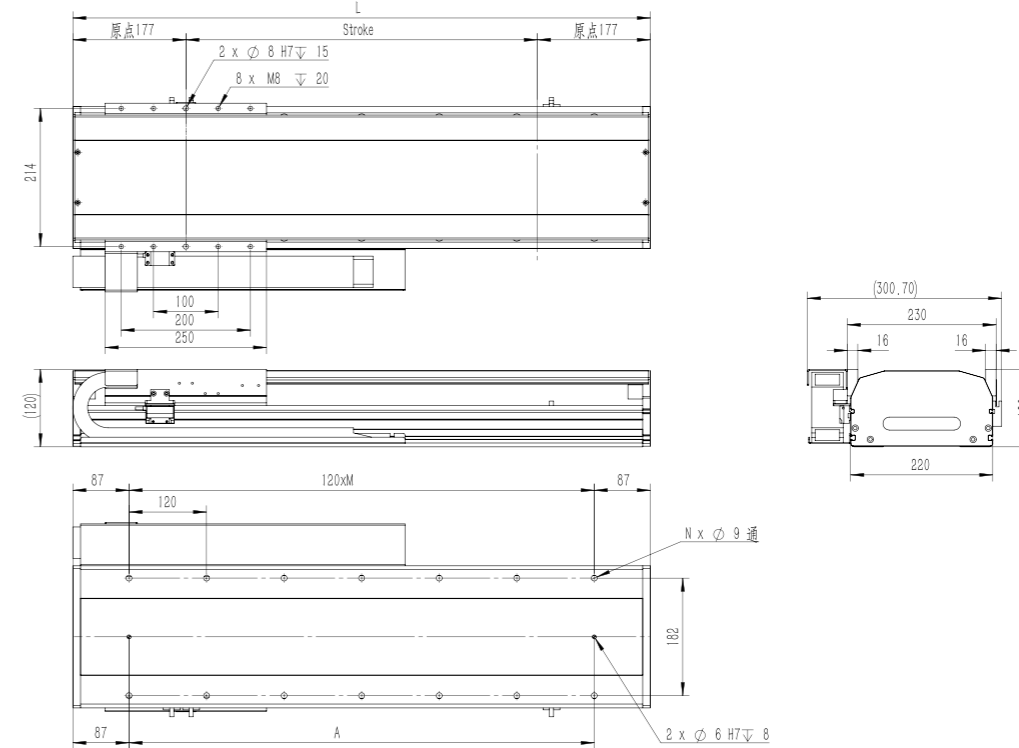
ZLO Series Linear Motor Driven Type With Iron Core

ZLO 22-C1



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

ZLO 22-C2

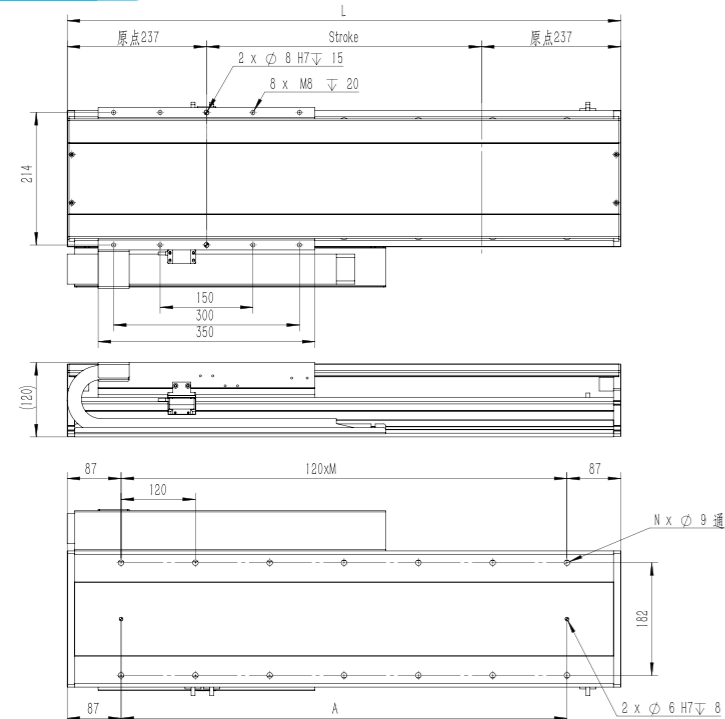


| 行程 Stroke (mm) | 180 | 300 | 420 | 540 | 660 | 780 | 900 | 1020 | 1140 | 1260 | 1380 | 1500 | 1620 | 1740 | 1860 | 1980 | 2100 | 2220 | 2340 | 2460 |
|----------------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 534 | 654 | 774 | 894 | 1014 | 1134 | 1254 | 1374 | 1494 | 1614 | 1734 | 1854 | 1974 | 2094 | 2214 | 2334 | 2454 | 2574 | 2694 | 2814 |
| M | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| A | 360 | 480 | 600 | 720 | 840 | 960 | 1080 | 1200 | 1320 | 1440 | 1560 | 1680 | 1800 | 1920 | 2040 | 2160 | 2280 | 2400 | 2520 | 2640 |
| N | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
| 重量 Weight (kg) | 34.8 | 37 | 39.2 | 41.4 | 43.6 | 45.8 | 48 | 50.2 | 52.4 | 54.6 | 56.8 | 59 | 61.2 | 63.4 | 65.6 | 67.8 | 70.0 | 72.2 | 74.4 | 76.6 |

ZLO 22 ZLO系列有鐵芯式綫性馬達驅動

ZLO Series Linear Motor Driven Type With Iron Core

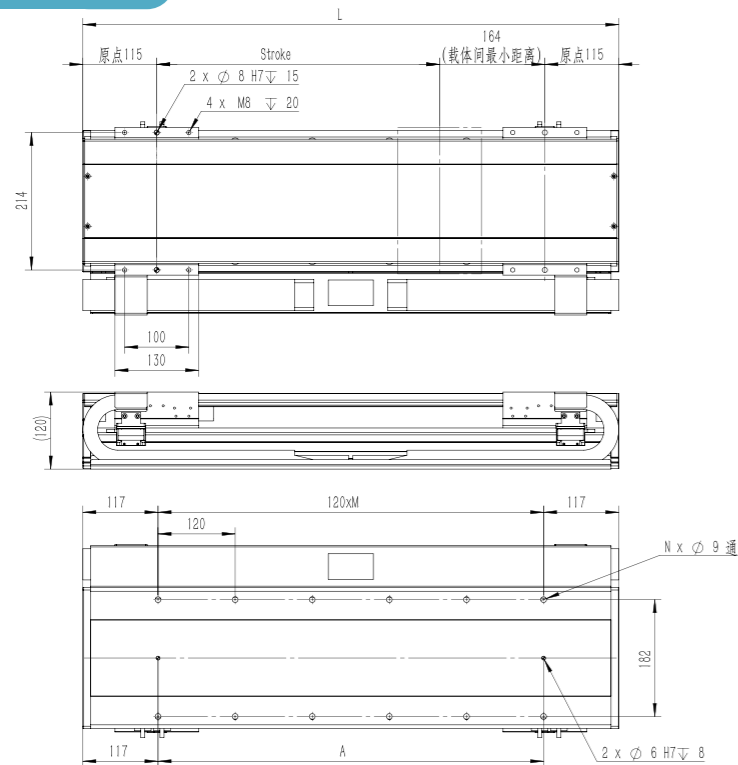
ZLO 22-C3



2D&3D文檔下載請至
www.limonrobot.cn

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

ZLO 22D2-C1



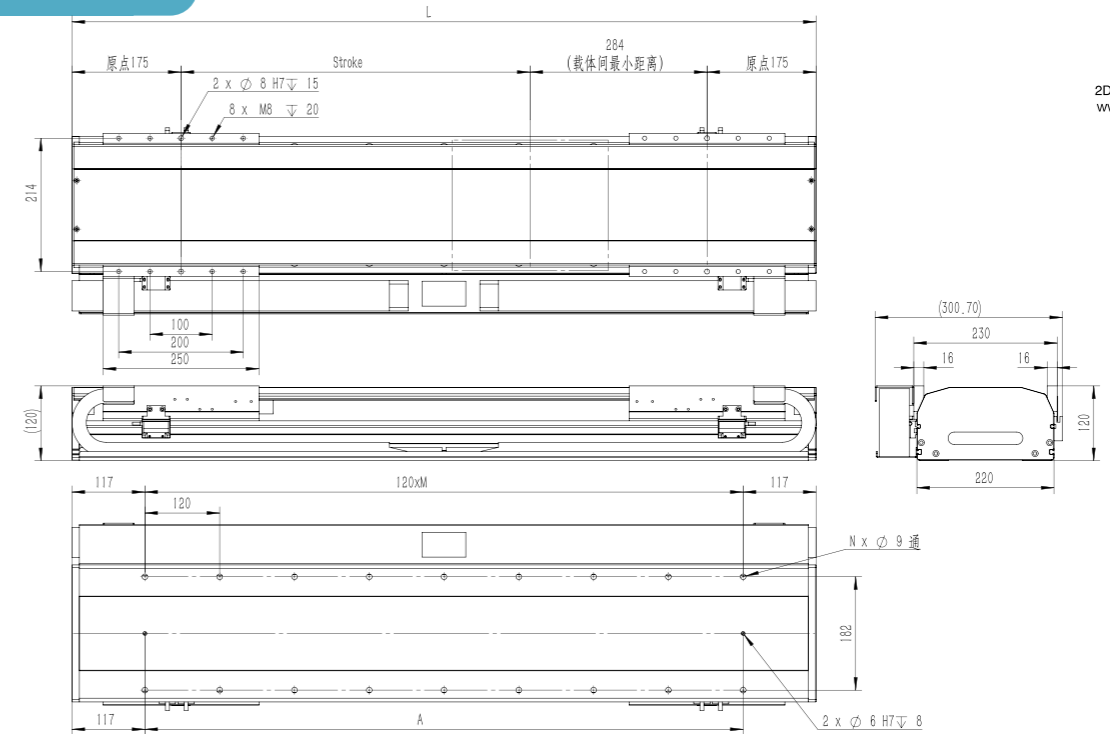
2D&3D文檔下載請至
www.limonrobot.cn

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

ZLO 22 ZLO系列有鐵芯式綫性馬達驅動

ZLO Series Linear Motor Driven Type With Iron Core

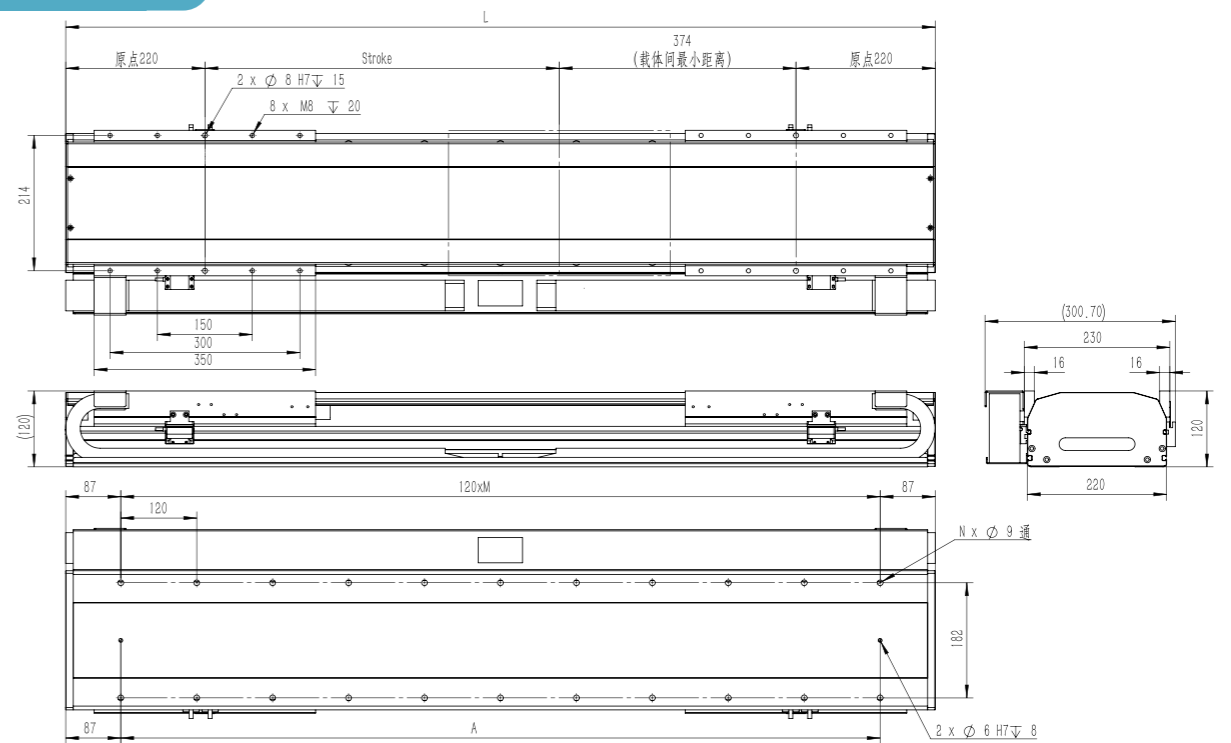
ZLO 22D2-C2



2D&3D文檔下載請至
www.limonrobot.cn

| 行程 Stroke (mm) | 200 | 320 | 440 | 560 | 680 | 800 | 920 | 1040 | 1160 | 1280 | 1400 | 1520 | 1640 | 1760 | 1880 | 2000 | 2120 | 2240 | 2360 | 2480 |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 834 | 954 | 1074 | 1194 | 1314 | 1434 | 1554 | 1674 | 1794 | 1914 | 2034 | 2154 | 2274 | 2394 | 2514 | 2634 | 2754 | 2874 | 2994 | 3114 |
| M | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| A | 600 | 720 | 840 | 960 | 1080 | 1200 | 1320 | 1440 | 1560 | 1680 | 1800 | 1920 | 2040 | 2160 | 2280 | 2400 | 2520 | 2640 | 2760 | 2880 |
| N | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 |
| 100.4重量 Weight (kg) | 43.6 | 45.8 | 48 | 50.2 | 52.4 | 54.6 | 56.8 | 59 | 61.2 | 63.4 | 65.6 | 67.8 | 70.0 | 72.2 | 74.4 | 76.6 | 78.8 | 81.0 | 83.2 | 85.4 |

ZLO 22D2-C3



| 行程 Stroke (mm) | 200 | 320 | 440 | 560 | 680 | 800 | 920 | 1040 | 1160 | 1280 | 1400 | 1520 | 1640 | 1760 | 1880 | 2000 | 2120 | 2240 | 2360 | 2480 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 總長 Length (L) | 1014 | 1134 | 1254 | 1374 | 1494 | 1614 | 1734 | 1854 | 1974 | 2094 | 2214 | 2334 | 2454 | 2574 | 2694 | 2814 | 2934 | 3054 | 3174 | 3294 |
| M | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| A | 840 | 960 | 1080 | 1200 | 1320 | 1440 | 1560 | 1680 | 1800 | 1920 | 2040 | 2160 | 2280 | 2400 | 2520 | 2640 | 2760 | 2880 | 3000 | 3120 |
| N | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 | 56 |
| 重量 Weight (kg) | 58.6 | 60.8 | 63 | 65.2 | 67.4 | 69.6 | 71.8 | 74 | 76.2 | 78.4 | 80.6 | 82.8 | 85 | 87.2 | 89.4 | 91.6 | 93.8 | 96 | 98.2 | 100.4 |

WLO 14 WLO系列有鐵芯式綫性馬達驅動

WLO Series Linear Motor Driven Type With Iron Core

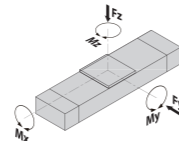
型號訂購碼 Code: WLO 14 C1 500 3L M P RH [] T P3

WLO 14D2 C1 500 3L M P [] H T P3

| 本體型號 Item NO. | 綫圈規格 Coil Size | 行程 Stroke | 綫圈長度 Wire Length | 編碼器 Encoder | 驅動器 Driver | 履帶取出方向 Caterpillar Band Entry Location | 安裝方式 Mounting | 拖鏈 Drag chain | 限位傳感器數量 Photoelectric Sensor |
|------------------------------|------------------------|--------------------|------------------|---|-------------------|--|--|--|---|
| WLO14 單動子型 Single Carriage | C1:標準型動子 Standard Coil | 143-2303 間隔/Gap108 | 3L:3m | G: 光學尺 Optical Scale | S: 高創 Servotronic | RH:水平右側取出 Horizontal,Right LH:水平左側取出 Horizontal,Left RW:壁掛右側取出 Wall-hanging,Right LW:壁掛左側取出 Wall-hanging,Left | H:水平安裝 Horizontal W:側掛安裝 Wall-hanging | T: 含拖鏈 With Drag chain 未標記: 無 No Mark: None | P1: 1祇 1PCS P2: 2祇 2PCS P3: 3祇 3PCS 未標記: 無 No Mark: None |
| WLO14D2 雙動子型 Double Carriage | C2:加長型動子 Extended Coil | | 5L:5m 8L:8m | M: 磁性尺 Magnetic Scale B: 編碼器 Encoder | P: 松下 Panasonic | | | | |



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



| 規格 Type | WLO14-C1 | WLO14-C2 |
|-------------|----------|----------|
| ■F(y) (N·m) | 5370 | 6980 |
| ■F(z) (N·m) | 5370 | 6980 |
| ■M(x) (N·m) | 142 | 142 |
| ■M(y) (N·m) | 104 | 180 |
| ■M(z) (N·m) | 346 | 582 |

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

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

履帶取出方向 Caterpillar Band Entry Location

| WLO-14 | | | | WLO-14D2 | | 廠牌 Brand | 驅動器記號 Mark | 驅動器型號 Driver Model | 接線訊號 Connection Signal |
|------------------------------------|--------------------------------------|-----------------------------------|-------------------------------------|------------------------|--------------------------|----------------|------------|----------------------|------------------------|
| RH 水平右側取出 RH Right & Horizontal | RW 壁掛右側取出 RW Right & Wall-hanging | LH 水平左側取出 LH Left & Horizontal | LW 壁掛左側取出 LW Left & Wall-hanging | H 水平安裝 H Horizontal | W 側掛安裝 W Wall-hanging | 高創 Servotronic | S | CDHD-AP1 CDHD-EC1 | 脈衝 EtherCAT |
| | | | | | | 松下 Panasonic | P | MBDLN-SL MBDLN-BL | 脈衝 EtherCAT |

注：請務必按導線槽方向圖和各規格圖規定的方向進行設置。規定以外的安裝會導致故障發生，請務必加以注意。
Note: Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

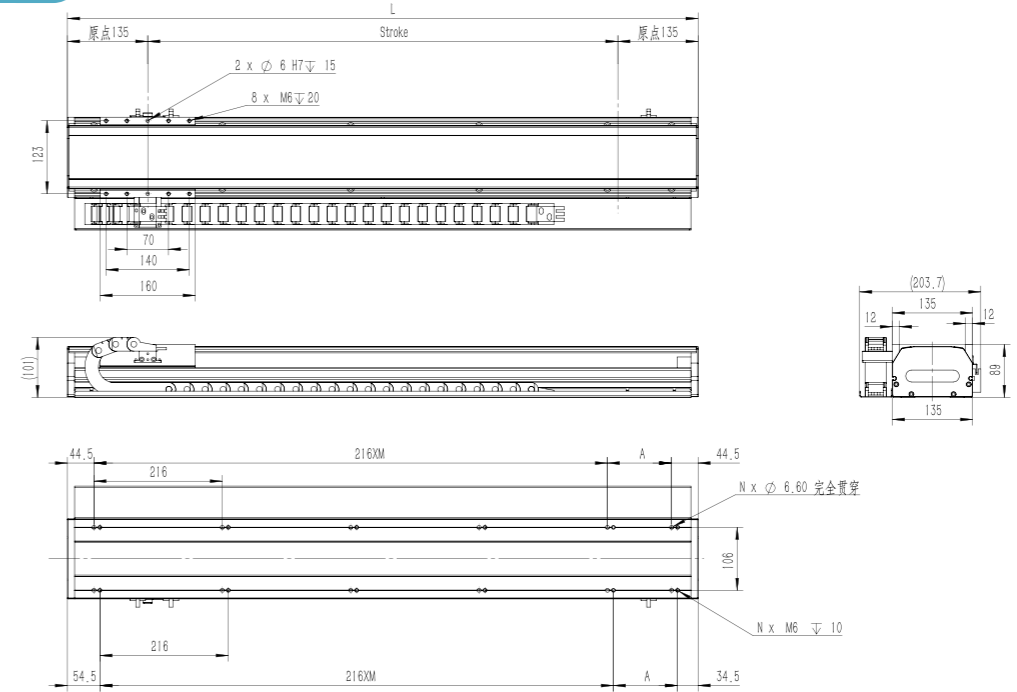
基本規格 Basic Specification

| 技術參數 Technical Parameters | 機型 Type | WLO14-C1 | WLO14-C2 |
|--|--|---|----------|
| | 驅動方式 Driving Method | 有鐵芯平板綫性馬達 Linear Motor Driven Type With Iron Core | |
| 位置重複精度(μ) Repetitive Accuracy | 5 #1 | | |
| 持續推力 (N) Continuous Thrust(N) | 40 | | |
| 最大推力 (N) Max Thrust(N) | 120 | | |
| 最大加速度(M/S ²) Max Accelerated Speed | 4G | | |
| 最大速度(MM/S) Max Speed | 4000 | | |
| 基本規格 Basic Specification | 標準行程 (mm) Standard Stroke | 143-2303 mm / 108 pitch | |
| | 主機截面最大外形: Max Outline of Main Engine's Cross Section | 148*89 | |
| | 高剛性直綫滑軌 (mm) High Stiffness Linear Guide | 15型導軌 2支 / 15 Guide 2PCS | |
| | 履帶內部容積: Internal Capacity of Caterpillar Band | 17*25 | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | |

WLO 14 WLO系列有鐵芯式綫性馬達驅動

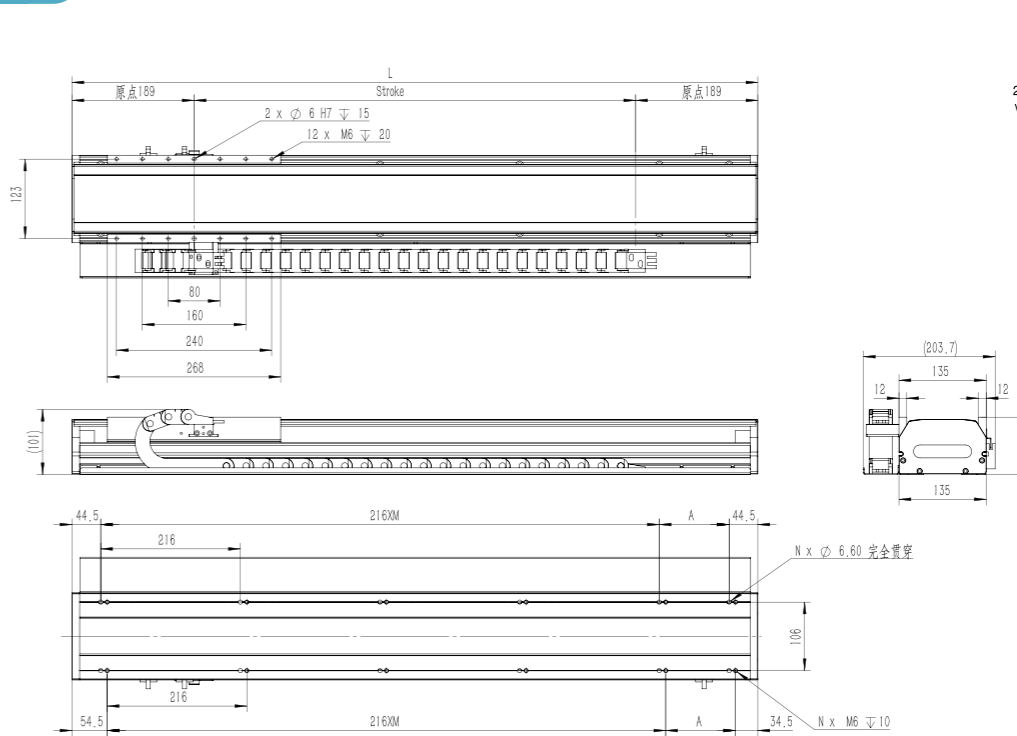
WLO Series Linear Motor Driven Type With Iron Core

WLO14-C1



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

WLO14-C2



| 行程 Stroke (mm) | 143 | 251 | 359 | 467 | 575 | 683 | 791 | 899 | 1007 | 1115 | 1223 | 1331 | 1439 | 1547 | 1655 | 1763 | 1871 | 1979 | 2087 | 2195 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 521 | 629 | 737 | 845 | 953 | 1061 | 1169 | 1277 | 1385 | 1493 | 1601 | 1709 | 1817 | 1925 | 2033 | 2141 | 2249 | 2357 | 2465 | 2573 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 |
| A | 216 | 108 | 216 | 108 | 216 | 108 | 216 | 108 | 216 | 108 | 216 | 108 | 216 | 108 | 216 | 108 | 216 | 108 | 216 | 108 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 |
| 重量 Weight (kg) | 10.4 | 11.1 | 11.9 | 12.6 | 13.4 | 14.1 | 14.9 | 15.6 | 16.4 | 17.1 | 17.9 | 18.6 | 19.4 | 20.1 | 20.9 | 21.6 | 22.4 | 23.1 | 23.9 | 24.6 |

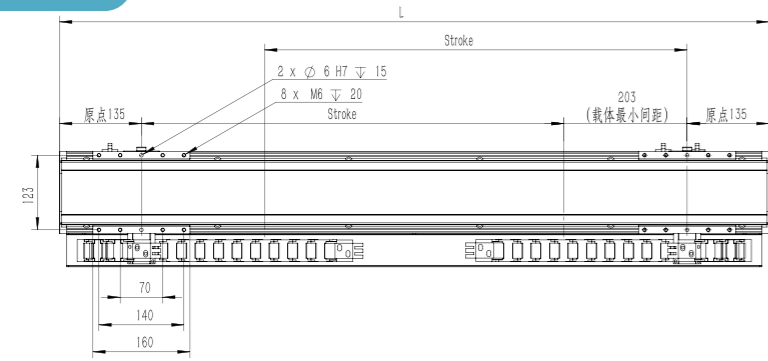
2D&3D文檔下載請至
www.limonrobot.cn

2D&3D文檔下載請至
www.limonrobot.cn

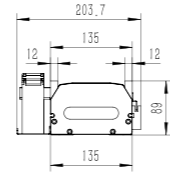
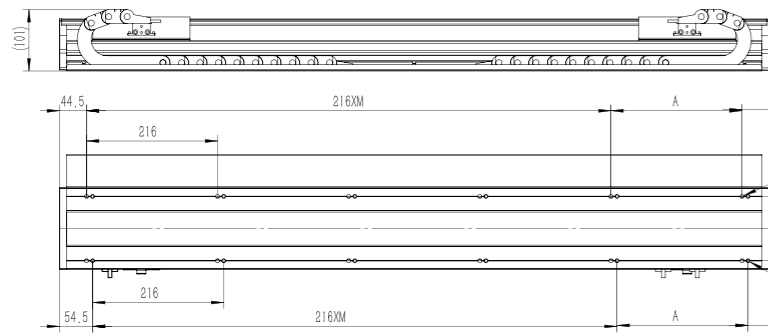
WLO 14 WLO系列有鐵芯式綫性馬達驅動

WLO Series Linear Motor Driven Type With Iron Core

WLO14D2-C1

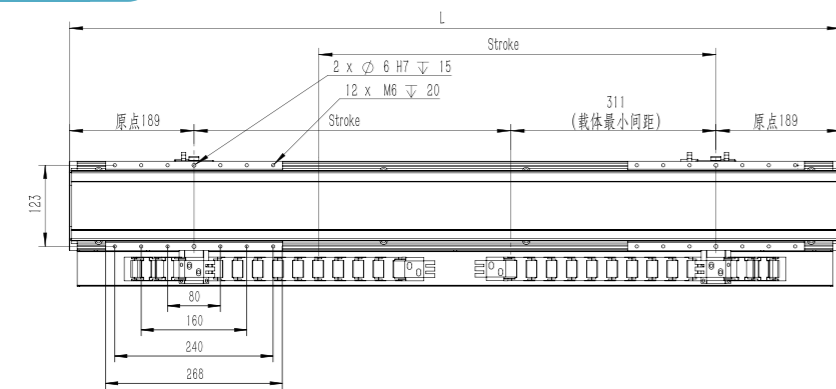


2D&3D文檔下載請至
www.limonrobot.cn

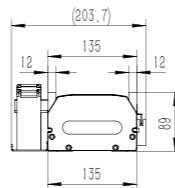
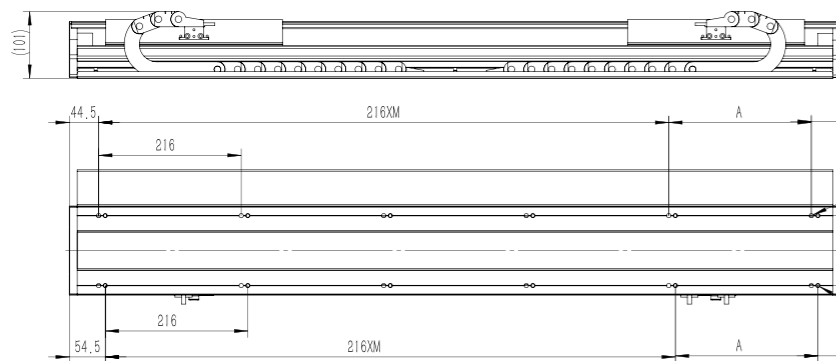


| 行程 Stroke (mm) | 156 | 264 | 372 | 480 | 588 | 696 | 804 | 912 | 1020 | 1128 | 1236 | 1344 | 1452 | 1560 | 1668 | 1776 | 1884 | 1992 | 2100 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長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

WLO14D2-C2



2D&3D文檔下載請至
www.limonrobot.cn



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

WLO 17 WLO系列有鐵芯式綫性馬達驅動

WLO Series Linear Motor Driven Type With Iron Core

型號訂購碼 Code

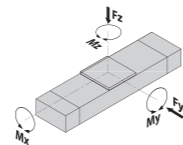
WLO 17 C1 500 3L M P RH T P3

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

| 本體型號 Item NO. | 綫圈規格 Coil Size | 行程 Stroke | 綫纜長度 Wire Length | 編碼器 Encoder | 驅動器 Driver | 履帶取出方向 Caterpillar Band Entry Location | 安裝方式 Mounting | 拖鏈 Drag chain | 限位傳感器數量 Photoelectric Sensor |
|------------------------------|-------------------------|---------------------|------------------|-----------------------|-------------------|--|---------------------|------------------------|------------------------------|
| WLO17 單動子型 Single Carriage | C1:標準型動子 Standard Coil | 143-2303, 間隔/Gap108 | 3L:3m | G: 光學尺 Optical Scale | S: 高創 Servotronic | RH:水平右側取出 Horizontal,Right | H:水平安裝 Horizontal | T: 含拖鏈 With Drag chain | P1: 1祇 1PC |
| WLO17D2 雙動子型 Double Carriage | C2:加長型動子 Extended Coil | | 5L:5m | M: 磁性尺 Magnetic Scale | P: 松下 Panasonic | LH:水平左側取出 Horizontal,Left | W:側掛安裝 Wall-hanging | 未標記: 無 No Mark: None | P2: 2祇 2PCS |
| | C3:超長型動子 Ultralong Coil | | 8L:8m | B: 編碼器 Encoder | | RW:壁掛右側取出 Wall-hanging,Right | | | P3: 3祇 3PCS |
| | | | | | | LW:壁掛左側取出 Wall-hanging,Left | | | 未標記: 無 No Mark: None |



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



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

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

履帶取出方向 Caterpillar Band Entry Location

| WLO-17 | | | | WLO-17D2 | | 廠牌 Brand | 驅動器記號 Mark | 驅動器型號 Driver Model | 接線訊號 Connection Signal |
|---------------------------------|-----------------------------------|--------------------------------|----------------------------------|---------------------|-----------------------|----------------|------------|--------------------|------------------------|
| RH 水平右側取出 RH Right & Horizontal | RW 壁掛右側取出 RW Right & Wall-hanging | LH 水平左側取出 LH Left & Horizontal | LW 壁掛左側取出 LW Left & Wall-hanging | H 水平安裝 H Horizontal | W 側掛安裝 W Wall-hanging | 高創 Servotronic | S | CDHD-AP1 | 脈衝 |
| | | | | | | 松下 Panasonic | P | MBDLN-SL | 脈衝 |
| | | | | | | | | MBDLN-BL | EtherCAT |

注：請務必按導線槽方向圖和各規格圖規定的方向進行設置。規定以外的安裝會導致故障發生，請務必加以注意。
Note: Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

基本規格 Basic Specification

| 技術參數 Technical Parameters | 機型 Type | WLO17-C1 | WLO17-C2 |
|--|--------------------------|---|----------|
| | 驅動方式 Driving Method | 有鐵芯平板綫性馬達 Linear Motor Driven Type With Iron Core | |
| 位置重複精度(μ) Repetitive Accuracy | 5 ^{#1} | | |
| 持續推力(N) Continuous Thrust(N) | 80 | | 160 |
| 最大推力(N) Max Thrust(N) | 240 | | 480 |
| 最大加速度(M/S ²) Max Accelerated Speed | 4G | | |
| 最大速度(MM/S) Max Speed | 4000 | | |
| 標準行程(mm) Standard Stroke | 143-2303 mm / 108 pitch | | |
| 主機載面最大外形: Max Outline of Main Engine's Cross Section | 183*102 | | |
| 高剛性直綫滑軌 (mm) High Stiffness Linear Guide | 20型導軌 2支 / 20 Guide 2PCS | | |
| 履帶內部容積: Internal Capacity of Caterpillar Band | 17*25 | | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | |

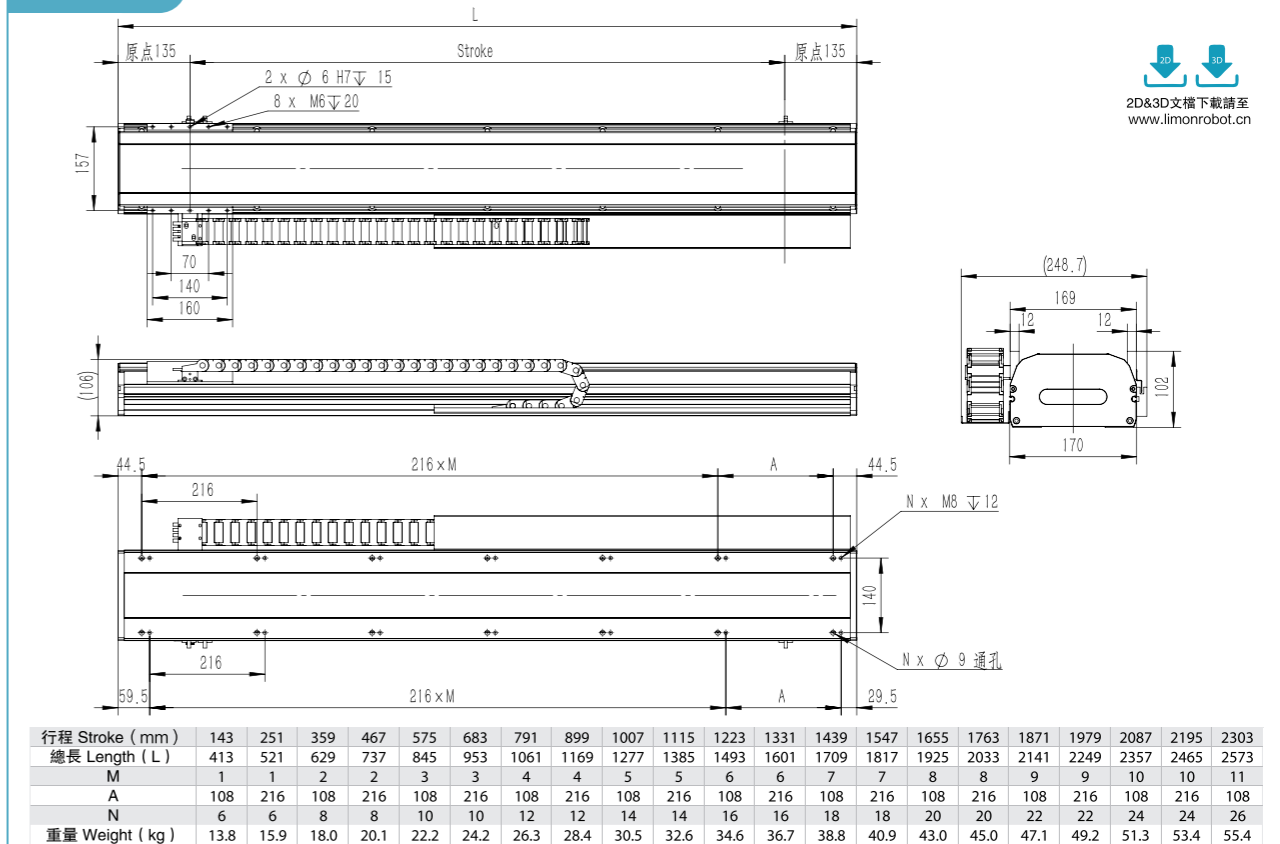
- 注#1:
1. 最高速度隨最小分辨率而變化。
 2. 動作速度、加速度等規格受負載的限制。
 3. 加速度為2G動作時的負載，所到達速度，受推力和速度特性的限制。
 4. 反復運動0背隙。

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

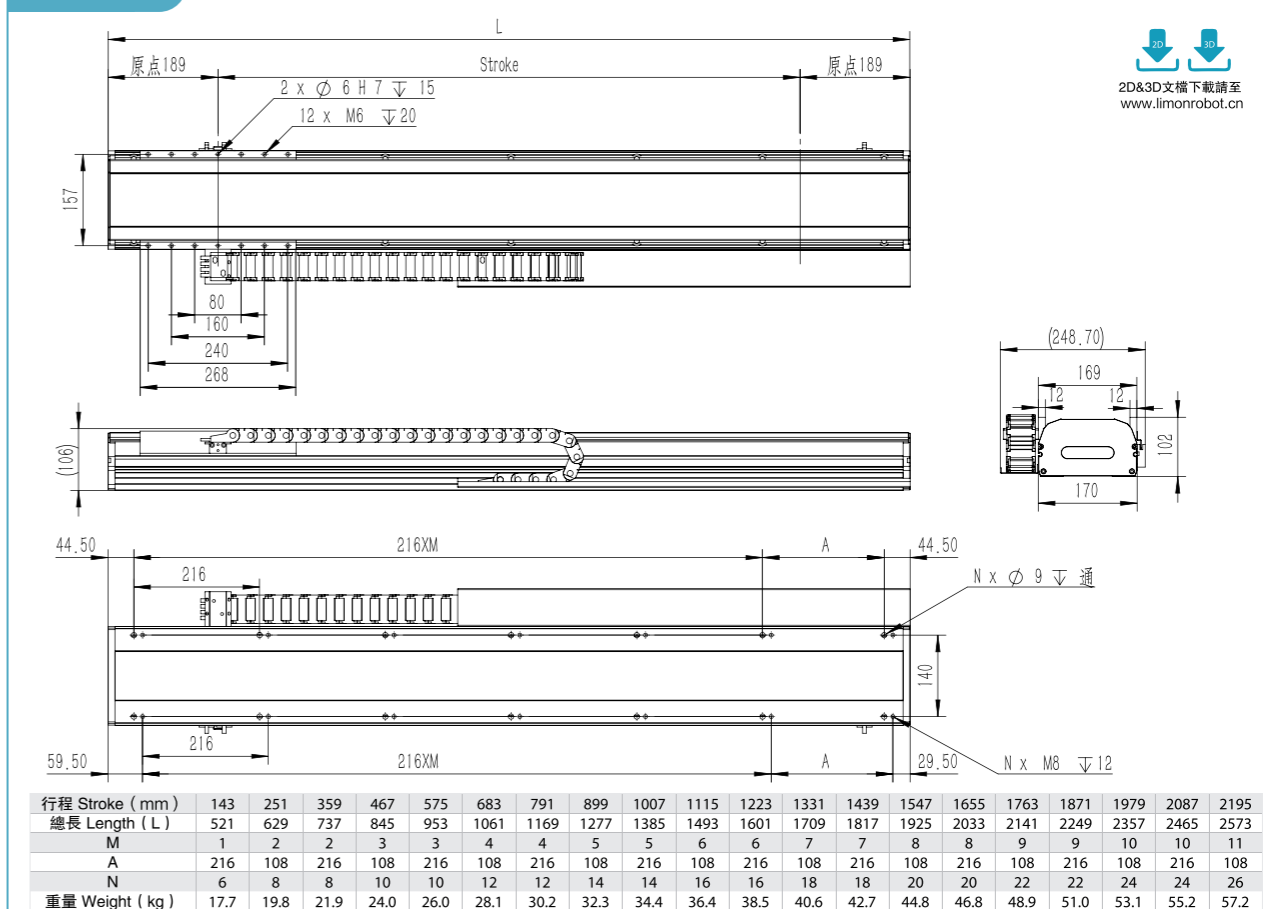
WLO 17 WLO系列有鐵芯式綫性馬達驅動

WLO Series Linear Motor Driven Type With Iron Core

WLO17-C1



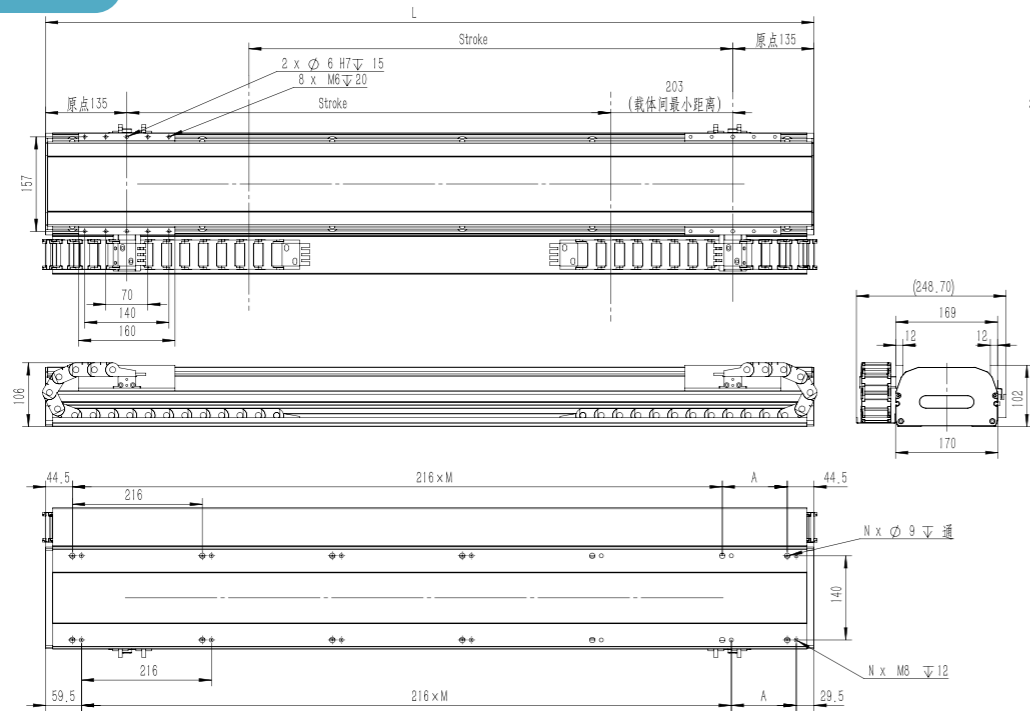
WLO17-C2



WLO 17 WLO系列有鐵芯式綫性馬達驅動

WLO Series Linear Motor Driven Type With Iron Core

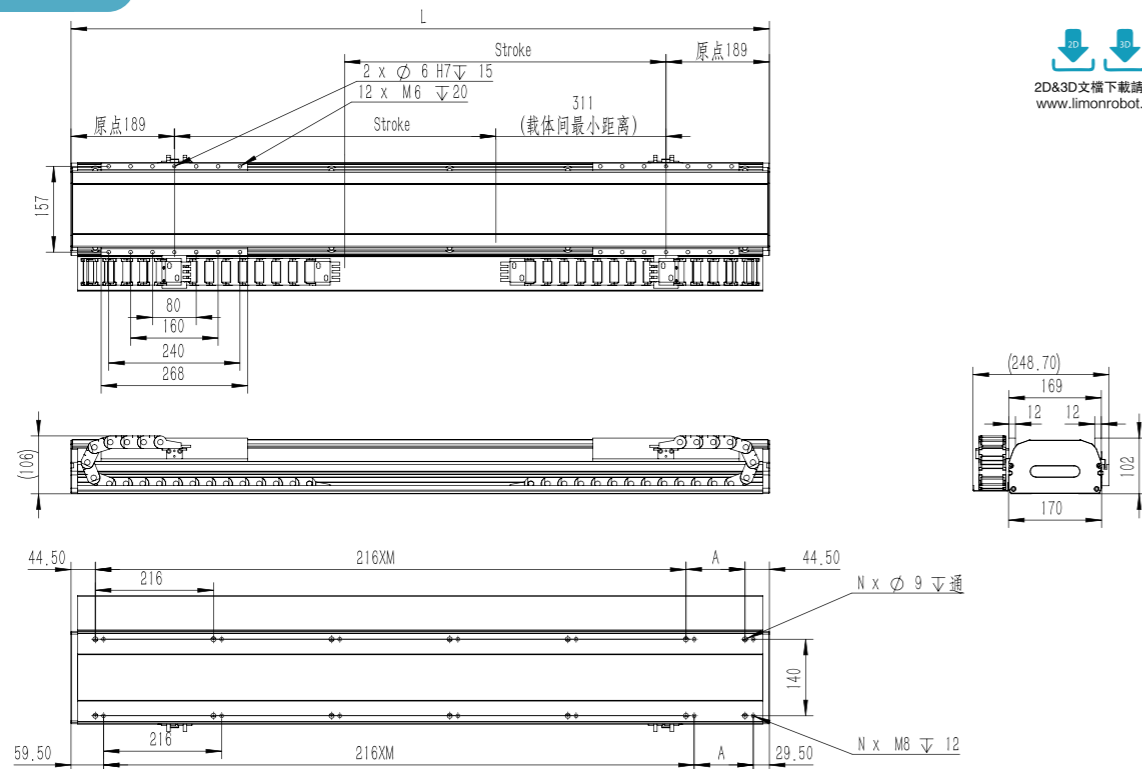
WLO17D2-C1



2D&3D文檔下載請至
www.limonrobot.cn

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

WLO17D2-C2



2D&3D文檔下載請至
www.limonrobot.cn

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

WLO 22 WLO系列有鐵芯式綫性馬達驅動

WLO Series Linear Motor Driven Type With Iron Core

型號訂購碼 Code: WLO 22 C1 500 3L M P RH [] T P3

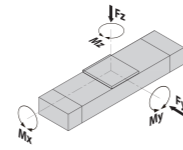
WLO 22D2 C1 500 3L M P [] H T P3

| | | | | | | | | | |
|--|--|--|---|---|--|---|---|---|---|
| 本體型號 Item NO. WLO22 單動子型 Single Carriage WLO22D2 雙動子型 Double Carriage | 綫圈規格 Coil Size C1:標準型動子 Standard Coil C2:加長型動子 Extended Coil C3:超長型動子 Ultralong Coil | 行程 Stroke 122-2147. 間隔/Gap135 | 綫纜長度 Wire Length 3L:3m 5L:5m 8L:8m | 編碼器 Encoder G: 光學尺 Optical Scale M: 磁性尺 Magnetic Scale B: 編碼器 Encoder | 驅動器 Driver S: 高創 Servotronic P: 松下 Panasonic | 履帶取出方向 Caterpillar Band Entry Location RH:水平右側取出 Horizontal,Right LH:水平左側取出 Horizontal,Left RW:壁掛右側取出 Wall-hanging,Right LW:壁掛左側取出 Wall-hanging,Left | 安裝方式 Mounting H:水平安裝 Horizontal W:側掛安裝 Wall-hanging | 拖鏈 Drag chain T: 含拖鏈 With Drag chain 未標記: 無 No Mark: None | 限位傳感器數量 Photoelectric Sensor P1: 1紙 1PC P2: 2紙 2PCS P3: 3紙 3PCS 未標記: 無 No Mark: None |
|--|--|--|---|---|--|---|---|---|---|



最大動態力和力矩

Max Permissible Forces And Torques



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

除了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:

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

履帶取出方向

Caterpillar Band Entry Location

| WLO-22 | | | | WLO-22D2 | | 廠牌 | 驅動器記號 | 驅動器型號 | 接線訊號 |
|---------------------------------|-----------------------------------|--------------------------------|----------------------------------|------------------------|--------------------------|-------------------|-------|--------------|-------------------|
| RH 水平右側取出 Right & Horizontal | RW 壁掛右側取出 Right & Wall-hanging | LH 水平左側取出 Left & Horizontal | LW 壁掛左側取出 Left & Wall-hanging | H 水平安裝 H Horizontal | W 側掛安裝 W Wall-hanging | Brand | Mark | Driver Model | Connection Signal |
| | | | | | | 高創 Servotronic | S | CDHD-AP1 | 脈衝 |
| | | | | | | | | CDHD-EC1 | EtherCAT |
| | | | | | | 松下 Panasonic | P | MBDLN-SL | 脈衝 |
| | | | | | | | | MBDLN-BL | EtherCAT |

注：請務必按導線槽方向圖和各規格圖規定的方向進行設置。規定以外的安裝會導致故障發生，請務必加以注意。
 Note: Be sure to set up according to the metallic channel directional diagram and each specification diagram specified, or it will occur some malfunction. So please pay more attention about this.

基本規格

Basic Specification

| 技術參數 | 機型 Type | WLO22-C1 | WLO22-C2 |
|--|--------------------------|---|----------|
| | 驅動方式 Driving Method | 有鐵芯平板綫性馬達 Linear Motor Driven Type With Iron Core | |
| 位置重複精度 (μ) Repetitive Accuracy | 5 #1 | | |
| 持續推力 (N) Continuous Thrust(N) | 280 | | 560 |
| 最大推力 (N) Max Thrust(N) | 840 | | 1680 |
| 最大加速度(M/S ²) Max Accelerated Speed | 4G | | |
| 最大速度(MM/S) Max Speed | 4000 | | |
| 標準行程 (mm) Standard Stroke | 143-2303 mm / 135 pitch | | |
| 主機截面最大外形: Max Outline of Main Engine's Cross Section | 233*120 | | |
| 高剛性直綫滑軌 (mm) High Stiffness Linear Guide | 25型導軌 2支 / 25 Guide 2PCS | | |
| 履帶內部容積: Internal Capacity of Caterpillar Band | 17*25 | | |
| 原點感應器 Home Sensor | EE-SX672(NPN) | | |

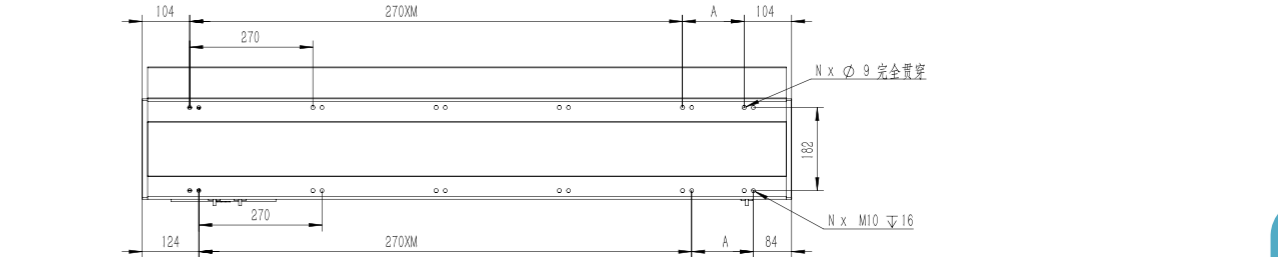
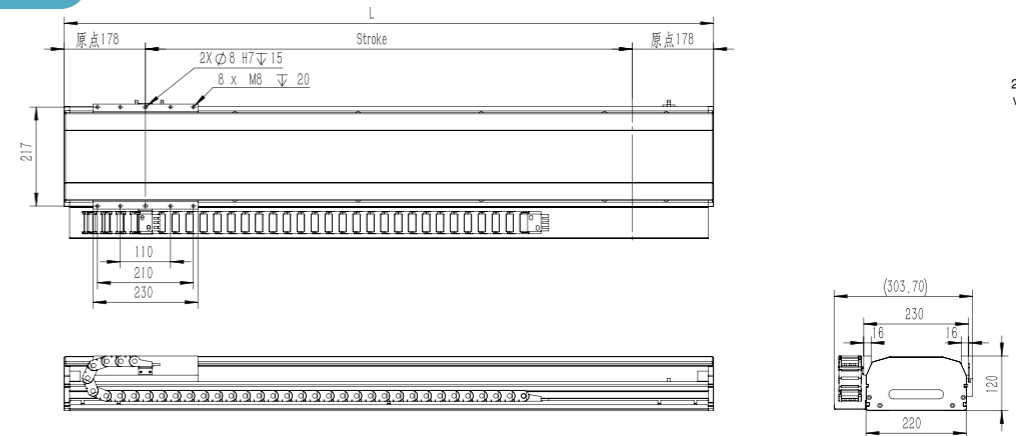
- 注#1:
 1. 最高速度隨最小分辨率而變化。
 2. 動作速度、加速度等規格受負載的限制。
 3. 加速度為2G動作時的負載，所到達速度，受推力和速度特性的限制。
 4. 反復運動0背隙。

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

WLO 22 WLO系列有鐵芯式綫性馬達驅動

WLO Series Linear Motor Driven Type With Iron Core

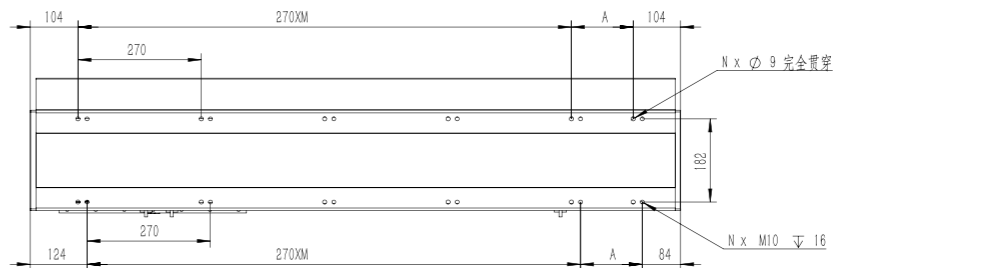
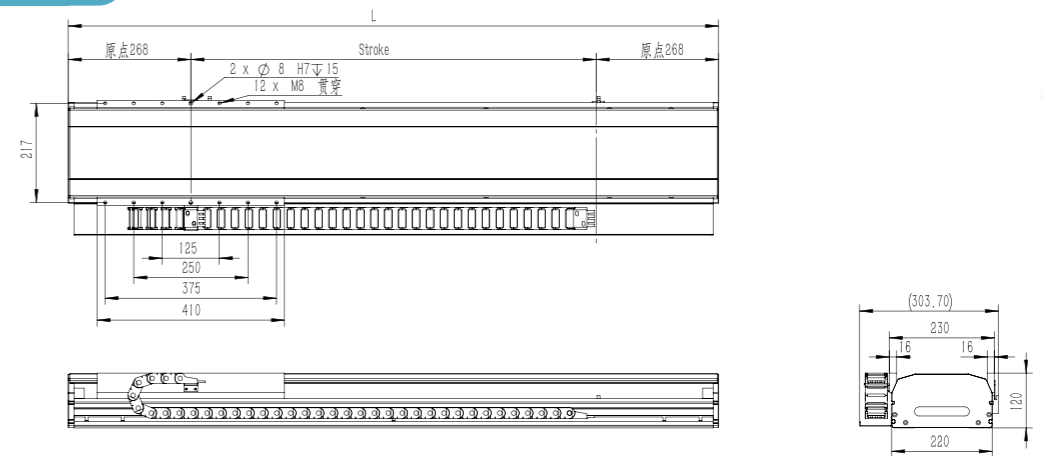
WLO 22-C1



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

2D&3D文檔下載請至
www.limonrobot.cn

WLO 22-C2



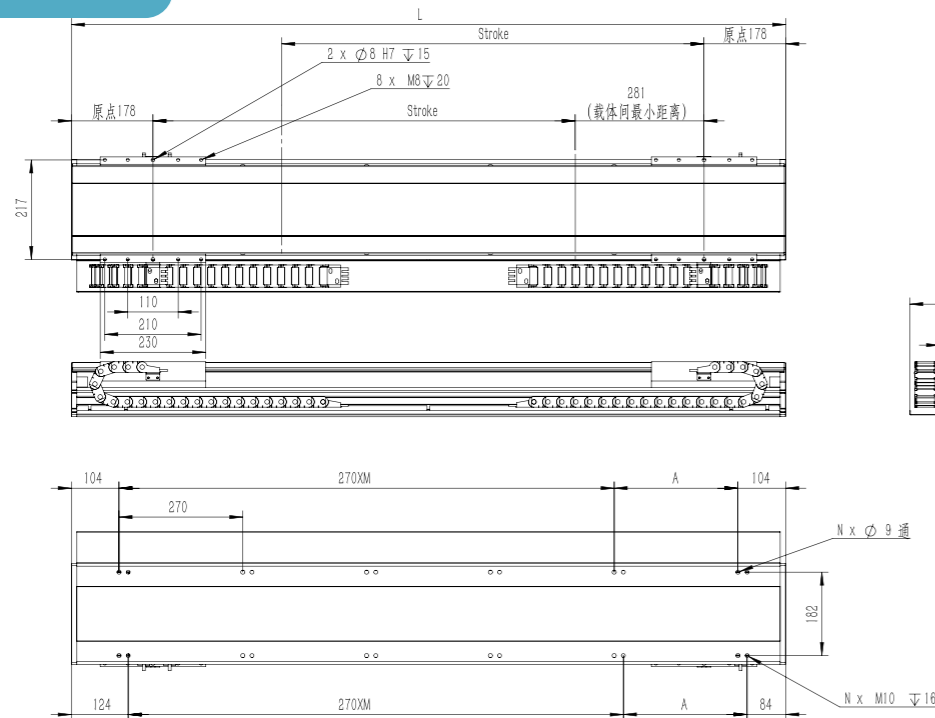
| 行程 Stroke (mm) | 212 | 347 | 482 | 617 | 752 | 887 | 1022 | 1157 | 1292 | 1427 | 1562 | 1697 | 1832 | 1967 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 總長 Length (L) | 748 | 883 | 1018 | 1153 | 1288 | 1423 | 1558 | 1693 | 1828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

2D&3D文檔下載請至
www.limonrobot.cn

WLO 22 WLO系列有鐵芯式綫性馬達驅動

WLO Series Linear Motor Driven Type With Iron Core

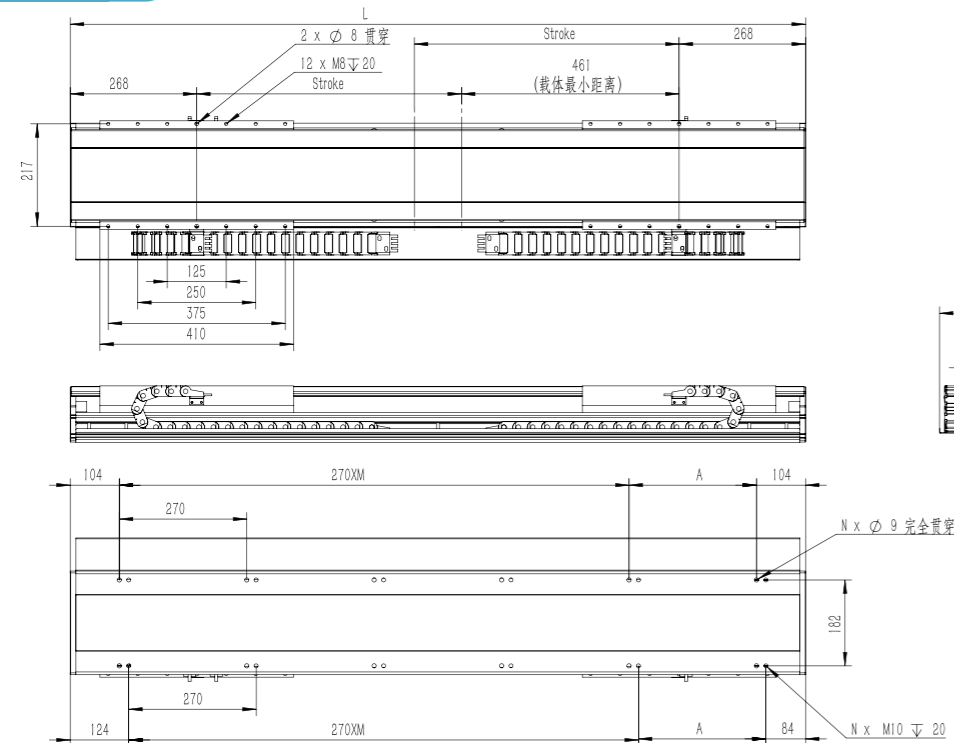
WLO 22D2-C1



2D&3D文檔下載請至
www.limonrobot.cn

| | | | | | | | | | | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 行程 Stroke (mm) | 111 | 246 | 381 | 516 | 651 | 786 | 921 | 1056 | 1191 | 1326 | 1461 | 1596 | 1731 | 1866 | 2001 | 2136 | 2271 | 2406 |
| 總長 Length (L) | 748 | 883 | 1018 | 1153 | 1288 | 1423 | 1558 | 1693 | 1828 | 1963 | 2096 | 2233 | 2368 | 2503 | 2638 | 2773 | 2908 | 3043 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 |
| A | 270 | 135 | 270 | 135 | 270 | 135 | 270 | 135 | 270 | 135 | 270 | 135 | 270 | 135 | 270 | 135 | 270 | 135 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 |
| 重量 Weight (kg) | 42.3 | 44.5 | 46.8 | 49.0 | 51.2 | 53.5 | 55.7 | 57.9 | 60.1 | 62.4 | 64.6 | 66.8 | 69.1 | 71.3 | 73.5 | 75.8 | 78.0 | 80.2 |

WLO 22D2-C2

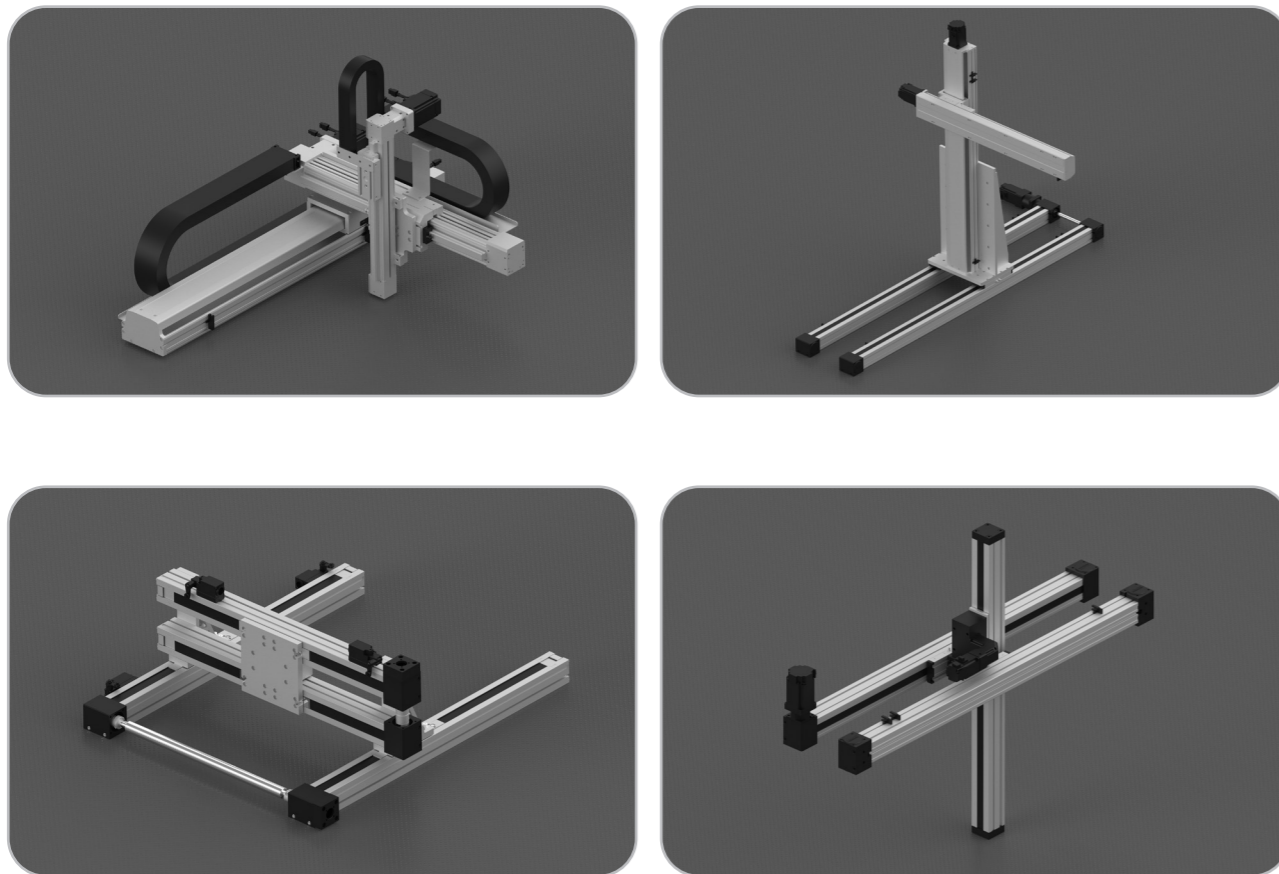


2D&3D文檔下載請至
www.limonrobot.cn

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

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

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



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

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

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

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



■多軸組合模块

| | Ixyz60 | | | Ixyz80 | | |
|--------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | X軸/ X Axis | Y軸/ Y Axis | Z軸/ Z Axis | X軸/ X Axis | Y軸/ Y Axis | Z軸/ Z Axis |
| 軸組成 Axis Composition | ITO60 | ITO60 | ITZ60 | ITO80 | ITO80 | ITZ60 |
| 重複定位精度 (mm) Repetitive Accuracy | ± 0.05 | ± 0.05 | ± 0.05 | ± 0.05 | ± 0.05 | ± 0.05 |
| 驅動方式 Driving Method | 同步帶/ Belt | 同步帶/ Belt | 同步帶/ Belt | 同步帶/ Belt | 同步帶/ Belt | 同步帶/ Belt |
| 最高速度 (mm/s) Max Speed | 2000 | 2000 | 1000 | 2000 | 2000 | 1000 |
| 最大行程 (mm) Max Stroke | 4000 | 1500 | 1000 | 4000 | 2500 | 1000 |
| 最大搬運負載 (kg) Max Transport Load | 5kg | | | 12kg | | |

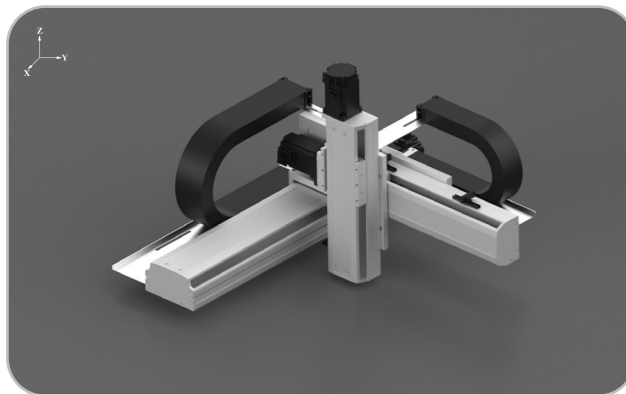
Note:
All indicated item, must be chosen with linear guide. The load capacity will decline if the arm is in overlong length. For actual figure required, please contact limon robot.
We offer all necessary fittings including brackets, clamping fixtures and adapter plates in order to build multi-axis systems.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

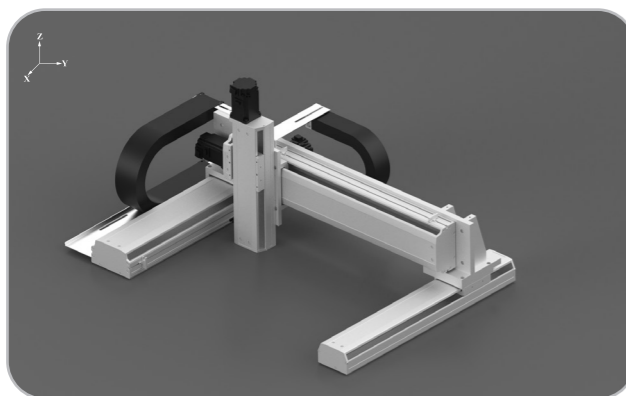
Linear Motion Systems can be used in almost all industries . The breadth of our range makes it possible to find the optimum solution for most applications imaginable. If the standard range is not enough, Limon is happy to discuss a custom solution that meets your needs. Contact us and we can show you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

Multiaxis System



■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) | 150 | 5kg | 5kg | - | 10kg | 10kg |
| Max Transport Load | 250 | 5kg | 5kg | - | 9kg | 8kg |
| | 350 | 5kg | 5kg | - | 7kg | 6kg |
| | 450 | - | - | - | 5kg | 4kg |
| | 550 | - | - | - | 3kg | 2kg |



■多軸組合模块

| | Yxyz110-LM | | | Yxyz135-LM | | |
|------------------------------------|----------------------|--------------------|--------------------|----------------------|--------------------|--------------------|
| | X軸/ X Axis | Y軸/ Y Axis | Z軸/ Z Axis | X軸/ X Axis | Y軸/ Y Axis | Z軸/ Z Axis |
| 軸組成 Axis Composition | YSO110 | YSO110 | YSC65 | YSO135 | YSO135 | YSO110 |
| 重複定位精度 (mm) Repetitive Accuracy | ±0.01 | ±0.01 | ±0.01 | ±0.01 | ±0.01 | ±0.01 |
| 驅動方式 Driving Method | 滾珠絲杆 Ball Screw | 滾珠絲杆 Ball Screw | 滾珠絲杆 Ball Screw | 滾珠絲杆 Ball Screw | 滾珠絲杆 Ball Screw | 滾珠絲杆 Ball Screw |
| 最高速度 (mm/s) Max Speed | 1000 | 1000 | 500 | 1000 | 1000 | 500 |
| 最大行程 (mm) Max Stroke | 1050 | 650 | 250 | 1250 | 550 | 350 |
| | Z軸行程 / Z Axis Stroke | | | Z軸行程 / Z Axis Stroke | | |
| Y軸行程 (mm) Y Axis Stroke | 100-250 | | | 100-350 | | |
| 最大搬運負載 (kg) | 150- | 5kg | | 15kg | | |
| Max Transport Load | 650 | | | | | |

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

¹ 總質量為所有待移動質量的總和（待移動的物體、滑架/杆、絲杠）。

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

³ 該數值可在各系列的最大空載扭矩表中查到。

⁴ 該數值可在下表中查到。

| | SSG65 | YSC50 | YSC65 | YSO/ YSC100 | YSO/ YSC135 | YSO/ YSC170 |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 滾珠螺絲桿慣量 (JSP) . [kgm ² /m] | 8.46X10 ⁻⁵ | 1.13×10 ⁻⁵ | 1.13×10 ⁻⁵ | 3.57×10 ⁻⁵ | 3.57×10 ⁻⁵ | 8.46×10 ⁻⁵ |

Feed Force Formula [N]

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

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

Acceleration Force Formula [N]

$$F_a = m \times a$$

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

Power Formula [kW]

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

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

Drive Moment Formulas [Nm]

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

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

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

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

M_{idle} = see table for unit in question

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

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

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

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

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

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

進給力算式 [N]

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

- F_x = 進給力 [N]
- m = 待移動的總質量 [kg]¹
- g = 重力加速度 [m/s²]
- μ = 每個單元的摩擦係數

加速力算式 [N]

$$F_a = m \times a$$

- F_a = 加速力 [N]
- m = 待運轉的質量 [kg]
- a = 加速度 [m/s²]²

功率算式 [KW]

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

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

驅動扭矩算式 [Nm]

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

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

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

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

M_{idle} = 請見相應單元的表格

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

¹ 總質量為所有待移動質量的總和 (待移動的物體、滑架/杆、絲杠)。

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

³ 該數值可在各個系列的最大空載扭矩表中查到。

⁴ 該數值可在下表中查到。

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

Feed Force Formula [N]

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

Acceleration Force Formula [N]

$$F_a = m \times a$$

Power Formula [kW]

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

Drive Moment Formulas [Nm]

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

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

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

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

Midle = see table for unit in question

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

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

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

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

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

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

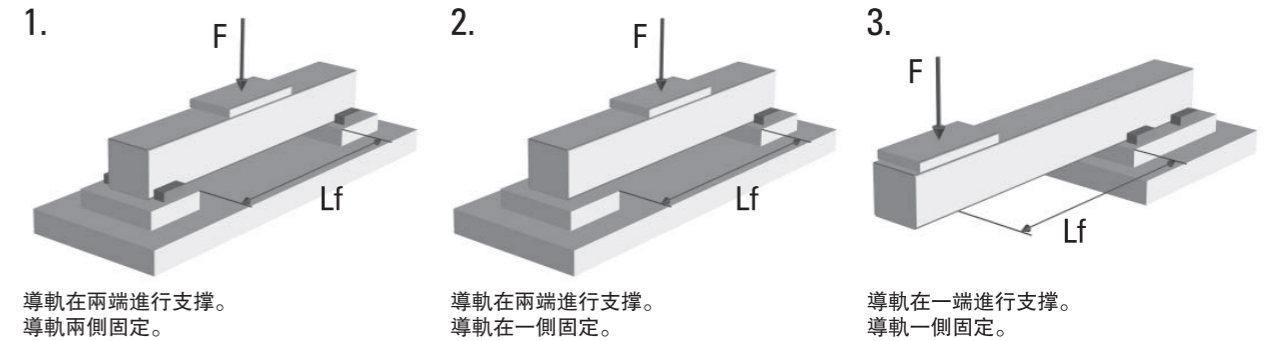
³ This value can be found in the carriage idle torque tables.

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

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

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

負載類型



容許的導軌撓度算式[mm]

$$f_h = L_f \times b$$

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

導軌撓度算式[mm]

負載類型 1.

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

負載類型 2.

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

負載類型 3.

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

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

¹ 這個值可以在附加技術數據表中查到。

² 該數值可在各個單元的性能規格表中查到。

結論算式

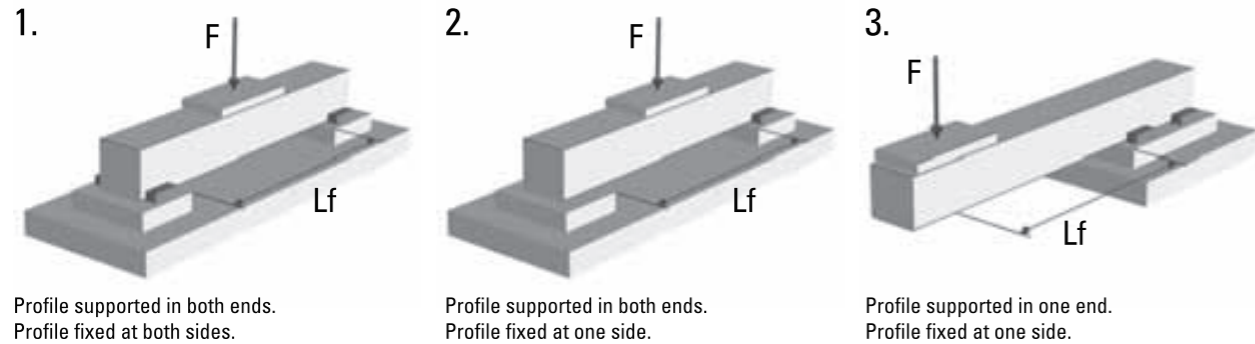
f_h > f_{max} = 撓度滿足要求

f_h < f_{max} = 撓度不符合要求, L_f 必須縮短

Deflection Calculations

How to calculate the deflection of the profile

Load Cases



Permissible Profile Deflection Formula [mm]

$$f_h = L_f \times b$$

f_h = permissible profile deflection [mm]
 L_f = length of profile being bent [mm]
 b = bending factor ¹

Profile Deflection Formulas [mm]

Load Case 1.

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

Load Case 2.

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

Load Case 3.

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

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

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

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

Conclusion Formulas

$f_h > f_{max}$ = deflection OK

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

實例 1

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

待通過滑架移動的負載:
 $m_{ext} = 150$ kg

支撐間距:
 $L_f = 600$ mm

特定單元參數:
 $m'_{100} = 0,93$ kg
 $m_c = 2,75$ kg
 $EAI = 70000$ N/mm²
 $I_y = 1,93 \times 10^9$ mm⁴
 $b = 0,0005$

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

結論:
 $f_h > f_{max}$ = 撓度滿足要求

實例 2

直線運動系統類型:
ITO60
 負載類型:
類型2 - 導軌在兩端支撐並在一邊固定

需要通過滑架移動的負載:
 $m_{ext} = 100$ kg

支撐間距:
 $L_f = 600$ mm

特定單元數據:
 $m'_{100} = 0,53$ kg
 $m_c = 1,2$ kg
 $EAI = 70000$ N/mm²
 $I_y = 4,59 \times 10^9$ mm⁴
 $b = 0,0005$

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

結論:
 $f_h > f_{max}$ = 撓度滿足要求

實例 3

直線運動系統類型:
ITO80
 負載類型:
類型3 - 導軌支撐和固定都在一端

需要通過滑架移動的負載:
 $m_{ext} = 120$ kg

支撐間距:
 $L_f = 400$ mm

特定單元數據:
 $m'_{100} = 1,08$ kg
 $m_c = 4,26$ kg
 $EAI = 70000$ N/mm²
 $I_y = 1,85 \times 10^9$ mm⁴
 $b = 0,0003$

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

結論:
 $f_h < f_{max}$ = 撓度不滿足要求

Deflection Calculations

Examples of calculations of the profile deflection

Example 1

Type of linear motion system:
IT080

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

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

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

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

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

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

Example 2

Type of linear motion system:
IT060

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

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

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

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

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

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

Example 3

Type of linear motion system:
IT080

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

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

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

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

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

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

詞匯表 Glossary

加速度

加速度是用于衡量從固定（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

滾珠螺絲由一個旋轉螺絲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螺絲運行的高效滾珠軸承工作。滾珠螺絲有多種導程、直徑和精度等級可選。精度等級（C3, C5, C7或C10）表示螺絲的導程公差。數字越小，精度越高。滾珠螺絲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製成。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

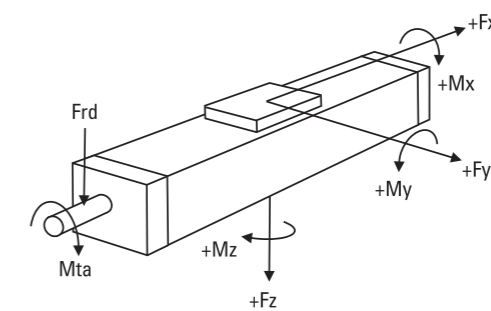
皮帶傳動機構包含一條運行在兩個不同直徑的皮帶輪之間的同步帶。皮帶輪直徑的差異決定了傳動比的大小。皮帶齒輪運行安靜，精度達到中等水平且無需維護，但在過載情況下很容易損壞。

危險轉速

所有滾珠螺絲都具有危險轉速，在此速度下螺絲開始振動並最終彎曲或卷起螺絲。具體的限值為一個由螺絲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

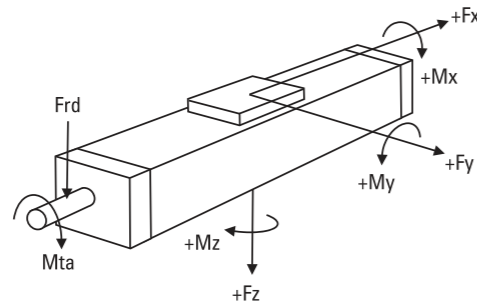
A belt gear consists of a timing belt that runs between two pulley wheels of different diameters. The difference between the diameters determines the gear ratio. Belt gears are quiet, have medium accuracy and require no maintenance but are susceptible to belt breakage under overload conditions.

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，其大小取決於物體的形狀和質量。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，且不可用於表述整個單元的實際性能。

定位精度

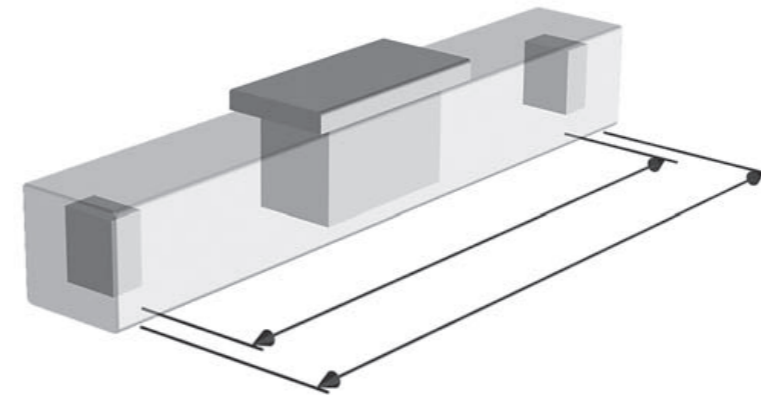
定位精度指期望位置與實際位置之間的偏差，是有可能造成精度降低的因素（即重複精度，背隙，分辨率，絲杠/皮帶精度，電機、驅動和運動控制系統精度）疊加的結果。有些因素，如背隙和導軌精度，有時能夠通過使用運動控制系統的軟件進行補償。同時參見“精度”。

重複精度

重複精度是指定位系統從相同的距離，以相同的速度和減速度率回到位置的能力。影響重複精度的因素是電機角度重複精度，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，實際行程要短於 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，這樣單元即可在撞擊到末端之前停止，並且允許在安裝時對單元的位置進行調整。



Idle Torque

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

Inertia

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

Lifetime Expectancy

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

Load Rating

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

Positioning Accuracy

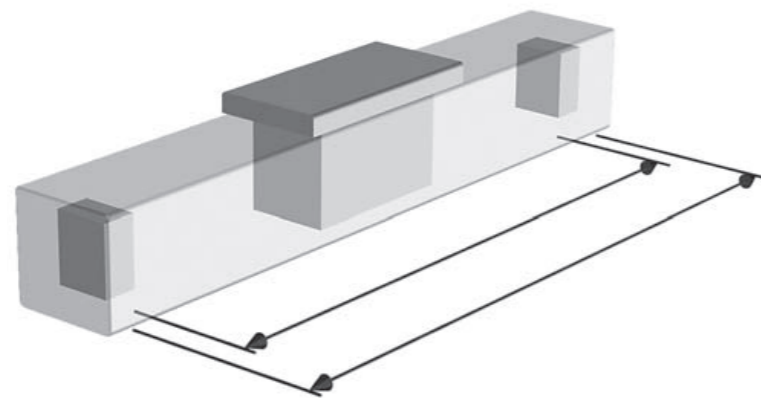
Positioning accuracy is the error between the expected and actual position and is the sum of all factors that will reduce the accuracy (i.e. repeatability, backlash, resolution, screw/belt accuracy, and the accuracy of the motor, drive and motion control system). Some of these factors, such as backlash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

Repeatability

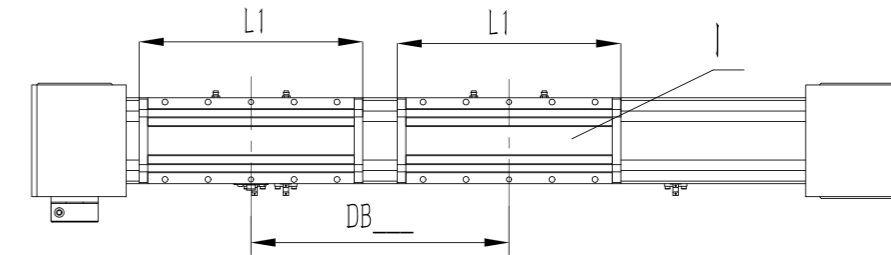
Repeatability is the ability for a positioning system to return to a location when approaching from the same distance, at the same speed and deceleration rate. Some of the factors that affect the repeatability are the angular repeatability of the motor, drive and motion control system, system friction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

Stroke

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



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



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

實例 Example

型號 Item No.: ITO60-500-DB300.....

不帶輔助滑塊的工作行程=500mm

Stroke(without auxiliary block)= 500mm

帶輔助滑塊的工作行程=200mm (500-300=200mm)

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

對於帶輔助滑塊的電缸，工作行程會由于滑塊之間的距離而縮短。

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

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:Building D8-D9, Zhizaogang, Lane 215, Qingyi
Road, High-tech Zone, Ningbo City, Zhejiang,China
浙江省寧波市高新區清逸路 215弄 智造港D8-D9幢
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,NAGAOKAKAYO-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:Stattmannstr. 23 D-72644 Oberboihingen
Tel / 電話:0049 7022 2629384

LIMON in Hungary 匈牙利

Add/地址:1194Budapest, 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

CAT F.2301