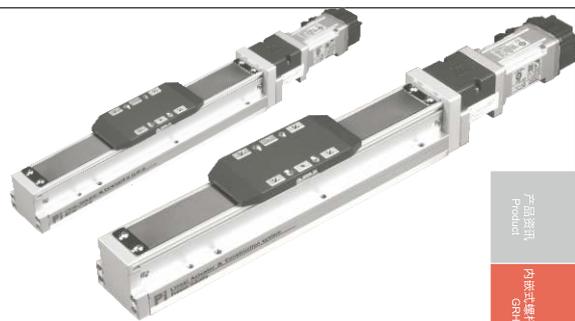


内嵌式螺杆滑台系列

GRH Series

一般環境
Standard



CONTENTS

小型 TYPE

GRH 4



本體寬幅 44mm
最大行程 800mm
最大荷重 25kg

P053

小型 TYPE

GRH 5



本體寬幅 54mm
最大行程 800mm
最大荷重 30kg

P057

中型 TYPE

GRH 7

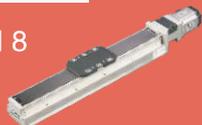


本體寬幅 75mm
最大行程 800mm
最大荷重 35mm

P061

中型 TYPE

GRH 8



本體寬幅 82mm
最大行程 1050mm
最大荷重 50kg

P065

大型 TYPE

GRH12



本體寬幅 120mm
最大行程 1100mm
最大荷重 110kg

P069

大型 TYPE

GRH15



本體寬幅 150mm
最大行程 1350mm
最大荷重 120kg

P073

中型 TYPE

GRH 5M



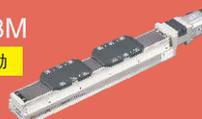
反向同動

本體寬幅 54mm
最大行程 325mm
最大荷重 30kg

P077

中型 TYPE

GRH 8M



反向同動

本體寬幅 82mm
最大行程 450mm
最大荷重 50kg

P081

大型 TYPE

GRH 12M



反向同動

本體寬幅 120mm
最大行程 600mm
最大荷重 110kg

P085

产品信息
Product

内嵌式螺杆滑台
GRH

内嵌式皮带滑台
GRS

内嵌式推杆式
螺杆滑台
GEC

内嵌式无光栅
直线电机
GTH

内嵌式安全
螺杆滑台
GRC

标准螺杆滑台
RMA

标准皮带滑台
RMB

完全密封滑台
RMD

完全皮带滑台
RMB

直线电机
大推力
LRH

直线电机
零顿震
LMH

双向皮带系列
MRB

电动缸系列
EC

内嵌式
直交伺服手
XYCH

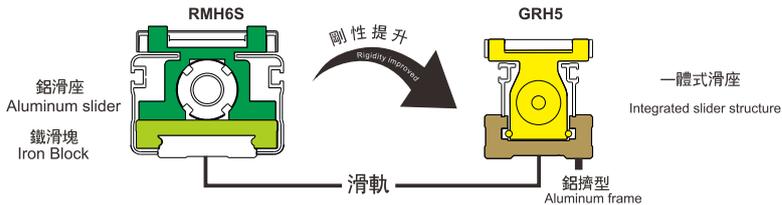
螺杆型
直交伺服手
XYMA

皮带型
直交伺服手
XYMB

参考文献
Reference

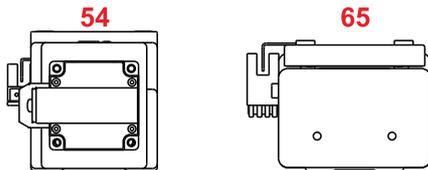
滑座剛性強化(Carriage rigidity strengthened)

本體與滑座一體成型，改善原始剛性較差問題。
slider are made form integrated design that can improve the rigiddness of body and carriage.



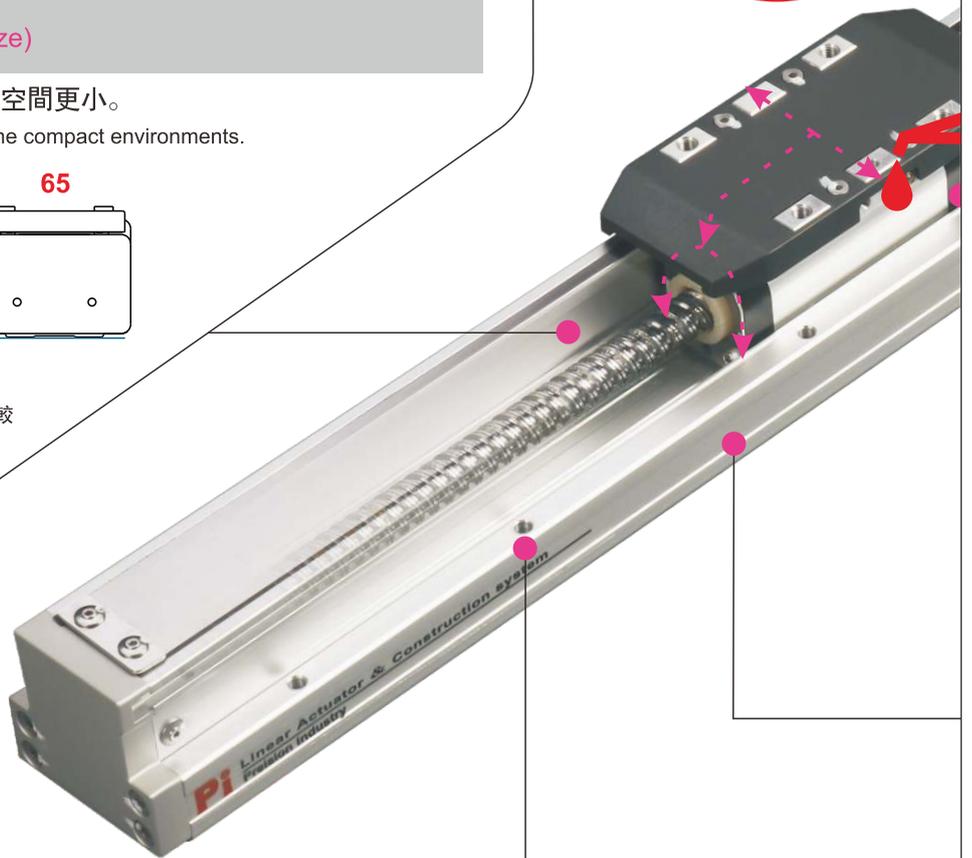
體積更小(Smaller size)

寬度縮小，讓設備安裝所需空間更小。
Reduced width that can fitting in the compact environments.



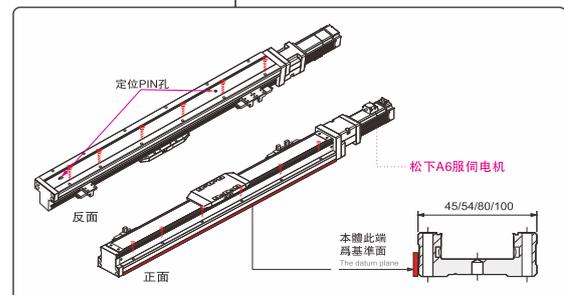
*相同條件荷重30KG與RMH系列比較
Compare with RMH series at same condition (30kg payload)

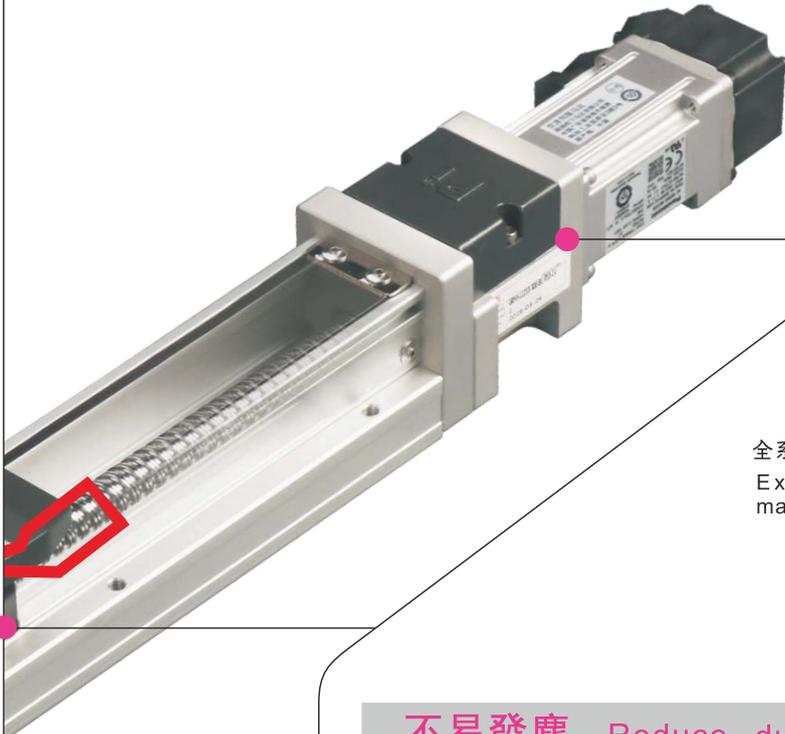
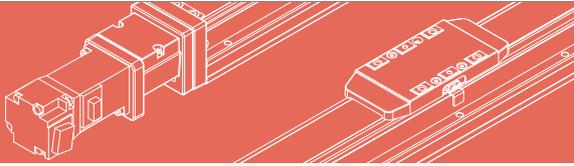
新產品



組裝，省時、方便 Easy assemble

- ① 不需拆卸鋼帶，即可由上往下固定或由下往上固定。
Can be fixed from the top and bottom without removing the cover.
- ② 本體側面增加安裝基準面承靠。
Mounting datum plane designed on the side of the body.
- ③ 本體底部有定位PIN孔。
Built in pin holes.



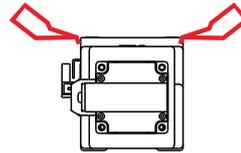


馬達安裝位置 Motor install options



保養簡單 Easy to maintain

全系列兩側皆外拉注油嘴可直接外部注油，不須拆蓋。
External greasing design ,easy maintenance without removing the cover.



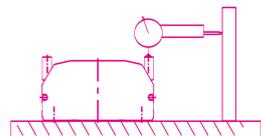
不易發塵 Reduce dust

特殊鋼帶結構設計，可減少發塵；可用于潔淨室環境。

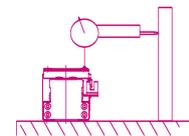
Special steel strip cover sealing design can prevent dirt and foreign objects from penetrating inside. Can be used in Clean Room environment.

本體強度增加，順暢度更好 Rigidity higher, better fluency for mainframe

因為採用鋁本體結構，本體強度大幅增加。（與 RMH5S/6S對比）且鋼材軌道嵌入鋁本體后再研磨處理，因此行走的等高度及直線度精度也提升到 $\pm 0.02\text{MM}$ 以下（與RMH10/12對比）
dopt aluminum material for mainframe which makes body strengthened(Compared to RMH5S/6S). Combined steel guide with aluminum mainframe and grinded which make linear accuracy increase to $\pm 0.02\text{MM}$.(Compared to RMH10/12)



RMH10直線度 $\pm 0.05\text{mm}$
* 行走1000mm時。
Straightness of RMH10 is $\pm 0.05\text{mm}$.
* Measure length is 1000mm.



GRH5直線度 $\pm 0.03\text{mm}$ * 行走800mm時。
Straightness of GRH5 is $\pm 0.03\text{mm}$.
* Measure length is 800mm.

- 產品資訊 Product
- 內嵌式螺絲打滑台 GRH
- 內嵌式帶滑台 GR5
- 內嵌式推杆式螺絲打滑台 GEO
- 內嵌式充光軸直線電機 GRH
- 內嵌式充光螺絲打滑台 GRC
- 標準螺絲打滑台 RMH
- 標準帶滑台 RMR
- 充光螺絲打滑台 RMD
- 充光帶滑台 RMR
- 直線電機大推力 LRH
- 直線電機零頓震 LWH
- 軟性帶滑台系列 MMR
- 電池系列 EC
- 內嵌式直交伺服手 XYGH
- 螺絲型直交伺服手 XVM
- 皮帶型直交伺服手 XVM
- 參考資料 Reference

規格索引- 螺桿滑台系列

Spec Index

Standard Ball Screw Actuator

| 使用環境 Use Where | 傳動方式 Driven Mode | 仕様 Model 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) | | 最高速度*1 Maximum Speed (mm/s) |
|-------------------|---------------------|---------------------------|--------------------------|-------------------|-----------------------------|------------------------------|----------------|-------------------------------|------------------|--------------------------------|
| | | | | | | 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 | GRH 4 | 50/100W | 44 | ±0.01 | 10 | 2 | 25 | 8 | 100 |
| | | | | | | | 5 | 20 | 5 | 250 |
| | | | | | | | 10 | 12 | 3.5 | 500 |
| | | GRH 5 | 100W | 54 | ±0.01 | 12 | 2 | 30 | 10 | 100 |
| | | | | | | | 5 | 30 | 10 | 250 |
| | | | | | | | 10 | 15 | 5 | 500 |
| | | GRH 7 | 100W | 75 | ±0.01 | 12 | 20 | 10 | 2.5 | 1000 |
| | | | | | | | 2 | 35 | 11 | 100 |
| | | | | | | | 5 | 35 | 11 | 100 |
| | | GRH 8 | 200/400W | 82 | ±0.01 | 16 | 10 | 17 | 6 | 500 |
| | | | | | | | 5 | 50 | 15 | 250 |
| | | | | | | | 20 | 18 | 3 | 1000 |
| | | GRH 12 | 400W | 120 | ±0.01 | 16 | 20 | 11 | 3 | 1000 |
| | | | | | | | 5 | 110 | 33 | 250 |
| | | | | | | | 10 | 88 | 22 | 500 |
| 32 | 40 | | | | | | 10 | 1000 | | |
| GRH 15 | 750W | 150 | ±0.01 | 20 | 20 | 30 | 8 | 1600 | | |
| | | | | | 5 | 120 | 50 | 2563 | | |
| | | | | | 10 | 120 | 40 | 1281 | | |
| | | | | | 40 | 83 | 25 | 640 | | |
| | | | | | | | | 12 | 320 | |

*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).

反向同動雙滑座系列

Long Stroke Ball Screw Actuator

| 使用環境 Use Where | 傳動方式 Driven Mode | 仕様 Model 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) | | 最高速度*1 Maximum Speed (mm/s) |
|-------------------|---------------------|---------------------------|--------------------------|-------------------|-----------------------------|------------------------------|----------------|-------------------------------|------------------|--------------------------------|
| | | | | | | 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 | GRH 5M | 100W | 54 | ±0.01 | 12 | 2 | 30 | 10 | 100 |
| | | GRH 8M | 200/400W | 82 | ±0.01 | 16 | 5 | 50 | 15 | 250 |
| | | GRH 12M | 400W | 120 | ±0.01 | 16 | 5 | 110 | 33 | 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).

| |
|----------------|
| 產品資訊 Product |
| 內嵌式滑台 GH |
| 內嵌式帶滑台 GH |
| 內嵌式推杆式滑台 GEO |
| 內嵌式光柵直線電機 GH |
| 內嵌式安全螺絲滑台 GSC |
| 標準螺絲滑台 RMT |
| 標準帶滑台 RMP |
| 无尘滑台 RND |
| 无尘帶滑台 RRP |
| 直線電機 LRT |
| 直線電機 LMT |
| 軟性帶系列 RSR |
| 電機系列 EC |
| 內嵌式直交伺服手 XYCH |
| 螺桿型直交伺服手 XVM |
| 皮帶型直交伺服手 XVP |
| 參考資料 Reference |

| 標準行程及最高使用速度*2 | | 代表速度 Speed | | | | | | | | | | | | | | | | | 頁數 | | | | | | | | | | | | | | |
|------------------------------------|--|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|----|--|----|
| Stroke (mm) & Maximum Speed (mm/s) | | | | | | | | | | | | | | | | | | | Page | | | | | | | | | | | | | | |
| 行程 Stroke | | 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 | | | |
| 100 | | | | | | | | | | | 90 | 80 | 70 | 60 | 50 | | | | | | | | | | | | | | 53 | | | | |
| 250 | | | | | | | | | | | | 225 | 200 | 175 | 150 | 125 | | | | | | | | | | | | | | | | | |
| 500 | | | | | | | | | | | | 450 | 400 | 350 | 300 | 250 | | | | | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | 90 | 80 | 70 | 60 | | | | | | | | | | | | | 57 | | | | | |
| 250 | | | | | | | | | | | | 225 | 200 | 175 | 150 | | | | | | | | | | | | | | | | | | |
| 500 | | | | | | | | | | | | 450 | 400 | 350 | 300 | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | 900 | 800 | 700 | 600 | | | | | | | | | | | | | 61 | | | | | |
| 100 | | | | | | | | | | | | 90 | 80 | 70 | 60 | | | | | | | | | | | | | | | | | | |
| 500 | | | | | | | | | | | | 450 | 400 | 350 | 250 | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | 900 | 800 | 700 | 600 | | | | | | | | | | | | | | | | | | |
| 250 | | | | | | | | | | | | 225 | 200 | 175 | 150 | 125 | 100 | 75 | | | | | | | | | | | | | 65 | | |
| 500 | | | | | | | | | | | | 450 | 400 | 350 | 300 | 250 | 200 | 150 | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | 900 | 800 | 700 | 600 | 500 | 400 | 300 | | | | | | | | | | | | | | | |
| 250 | | | | | | | | | | | | 225 | 200 | 175 | 167 | 158 | 150 | 133 | 125 | 117 | | | | | | | | | | | | | 69 |
| 500 | | | | | | | | | | | | 450 | 400 | 350 | 333 | 317 | 300 | 267 | 250 | 233 | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | 900 | 800 | 700 | 667 | 663 | 600 | 533 | 500 | 467 | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | | | 1440 | 1280 | 1120 | 1067 | 1013 | 900 | 853 | 800 | 747 | | | | | | | | | | | | | |
| 250 | | | | | | | | | | | | 225 | 200 | 175 | 150 | | | | | | | | | | | | | 73 | | | | | |
| 500 | | | | | | | | | | | | 450 | 400 | 350 | 300 | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | 900 | 800 | 700 | 600 | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | | | 1800 | 1600 | 1400 | 1200 | | | | | | | | | | | | | | | | | | |

*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，滑台可能會有嚴重共振產生。
 Written here is the standard stroke's maximum safe speed. If over this speed, it may cause serious vibration.

| 標準行程及最高使用速度*2 | | 代表速度 Speed | | | | | | | | | | | | | | | | | 頁數 | | | | | | | | | | | | | | |
|------------------------------------|--|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|--|----|----|
| Stroke (mm) & Maximum Speed (mm/s) | | | | | | | | | | | | | | | | | | | Page | | | | | | | | | | | | | | |
| 行程 Stroke | | 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 | | | |
| 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 77 | |
| 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 81 |
| 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 85 |

*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，滑台可能會有嚴重共振產生。
 Written here is the standard stroke's maximum safe speed. If over this speed, it may cause serious vibration.



最大行程 800mm
Maximum Stroke

最高速度 500mm/s
Maximum Speed

馬達容量 50/100w
Motor Output

滾珠螺桿 ø10mm
Ball Screw

型號表示方式 Ordering Method

GRH4 - L2 - 100 - BC - M05B - C4 - 0001

本體型號
Model

螺桿導程
Ball Screw Lead

| | |
|----|------|
| 2 | 2mm |
| 5 | 5mm |
| 10 | 10mm |

行程 Stroke

| |
|------------------|
| 50-800mm |
| 50間隔 50 mm Pitch |

馬達位置
Motor Position

| | |
|----|---------------------------|
| BC | 馬達外露 Motor Exposed |
| BM | 馬達下折 Motor Bottom Side |
| BL | 馬達左折 Motor Left Side |
| BR | 馬達右折 Motor Right Side |

| 馬達廠牌 Motor Brand | 功率 Power Output |
|---------------------|--------------------|
| M 三菱 Mitsubishi | 05 50W B |
| P 松下 Panasonic | 10 100W |
| Y 安川 Yaskawa | 20 - |
| T 台達 Delta | 40 - |

※若無煞車則不表示。※If No Brake, No Description.

原點感應器
Home Sensor

| |
|----------------------------|
| 外掛型 Out Side |
| C 馬達側 Motor Side |
| D 反馬達側 Opposite Motor Side |
| 無SENSOR No Sensor |
| E 無SENSOR No Sensor |

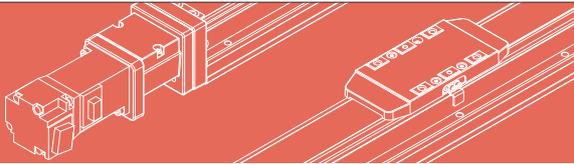
※選擇行程50時，有以下限制：
When the stroke is 50mm, the sensor installation has the following restrictions:

1. 原點與極限需放置於不同側。
Home sensor and limit sensor has to be installed on the different side of body.
2. 滑座左右兩側皆需安裝感應片。
Both sides of slider need to install the sensor trigger device.

特注式樣
Special Order No.

端點極限感應器
Limit Sensor

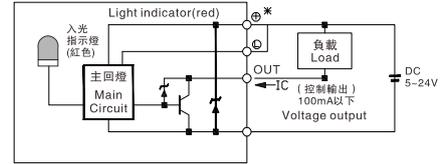
| |
|---------------------|
| 外掛型 Out Side |
| 3 1只 1 Pc |
| 4 2只 2 Pc |
| 無SENSOR No Sensor |
| 5 無SENSOR No Sensor |



基本仕様 Specification

| | | | | | |
|------------------------|--------------------------------------|-------------------------|---------------|-----|-------|
| 性能 | 位置重複精度 Repeatability (mm) | ±0.01 | | | |
| | 導程 Lead (mm) | 2 | 5 | 10 | |
| | 最高速度 Maximum Speed (mm/s) | 100 | 250 | 500 | |
| | 最大可搬重量 Maximum Payload | 水平使用 kg Horizontal (kg) | 25 | 20 | 12 |
| | | 垂直使用 kg Vertical (kg) | 8 | 5/8 | 2/3.5 |
| | 定格推力 Rated Thrust (N) | 424 | 141 | 71 | |
| 標準行程 Stroke Pitch (mm) | 50-800mm/50 間隔 50mm Pitch | | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output (w) | 50/100W | | | |
| | 滾珠絲杆外徑 Ball Screw \varnothing (mm) | C7 Φ 10 | | | |
| | 連軸器 Coupling (mm) | 7X8 | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX674(NPN) | | |

感應器接線圖 <原點及端點> Sensor Layout



※1 馬達加速減速設定0.2秒。
Acceleration and deceleration value is set 0.2 second.
※ 行程超過550時，會產生螺絲杆偏擺，此時請將速度調降。
*When the stroke is over 600mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

容許負載力距表 N.m Allowable Overhang

| 水平安裝 (單位Unit:mm) | | | | 壁掛安裝 (單位Unit:mm) | | | | 垂直安裝 (單位Unit:mm) | | | |
|-------------------------|------|------|----|-------------------|------|----|----|-----------------------|-------|-----|-----|
| Horizontal Installation | | | | Wall Installation | | | | Vertical Installation | | | |
| 導程 Lead | A | B | C | 導程 Lead | A | B | C | 導程 Lead | A | C | |
| 導程 2 2 Lead | 12kg | 1000 | 55 | 80 | 12kg | 80 | 55 | 1000 | 4kg | 200 | 200 |
| | 18kg | 750 | 35 | 50 | 18kg | 50 | 35 | 750 | 8kg | 100 | 100 |
| | 25kg | 500 | 23 | 32 | 25kg | 32 | 23 | 500 | - | - | - |
| 導程 5 5 Lead | 10kg | 550 | 53 | 70 | 10kg | 72 | 52 | 550 | 4kg | 150 | 150 |
| | 15kg | 350 | 32 | 45 | 15kg | 45 | 32 | 345 | 8kg | 75 | 75 |
| | 20kg | 250 | 22 | 31 | 20kg | 31 | 22 | 250 | - | - | - |
| 導程 10 10 Lead | 8kg | 305 | 59 | 75 | 8kg | 75 | 59 | 300 | 2kg | 260 | 260 |
| | 10kg | 240 | 45 | 57 | 10kg | 58 | 45 | 240 | 3.5kg | 150 | 150 |
| | 12kg | 195 | 37 | 47 | 12kg | 47 | 37 | 190 | - | - | - |

靜態容許負載慣量 Static Loading Moment

| | (單位Unit:N.m) |
|----|--------------|
| MY | 79 |
| MP | 79 |
| MR | 116 |

※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
※倒吊使用無法套用標準規範，如有需求請洽詢我司業務。
Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watp | 電源電壓 (AC-Voltage) | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---------------|-----------|--------------------------------------|-----------|-------------------|------------------------|--------------------|
| 三菱 Mitsubishi | M | 無煞車(水平仕樣) No Brake (Horizontal Type) | 50/100 | 220 | HG-KR053/13 | MR-J4-10A |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 50/100 | 220 | HG-KR053B/13B | MR-J4-10A |
| 松下 Panasonic | P | 無煞車(水平仕樣) No Brake (Horizontal Type) | 50/100 | 220 | MHMD5A2G1U/DO12G1U | MADHT1505 |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 50/100 | 220 | MHMD5A2G1V/DO12G1U | MADHT1505 |
| 台達 Delta | T | 無煞車(水平仕樣) No Brake (Horizontal Type) | 50/100 | 220 | ECMA-C1040FFS/C20401ES | ASD-B20121-B |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 50/100 | 220 | ECMA-C1040FFS/C20401FS | ASD-B20121-B |

產品資訊 Product Information
內嵌式螺絲杆平台 GH
內嵌式空帶滑台 SH
內嵌式螺絲杆式螺絲滑台 GE
內嵌式充光軸直線電機 GH
內嵌式安全螺絲滑台 GC
標準螺絲杆平台 RM
標準空帶滑台 RH
完全螺絲杆平台 RD
完全空帶滑台 RL
直線電機大推力 LRH
直線電機零噪音 LMH
軟性空帶系列 MRB
電動缸系列 EC
內嵌式直交切齒手 XYGH
螺絲杆式直交切齒手 XVM
皮帶型直交切齒手 XVMF
參考資料 Reference

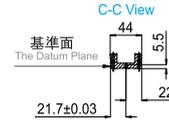
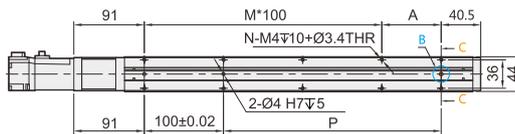
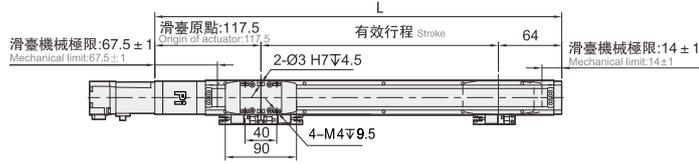
GRH4 Series

單軸/1-axis

馬達外露/馬達下折
Motor Exposed/Motor On Lower Side

BC 馬達外露 Motor Exposed

單位 Unit:mm

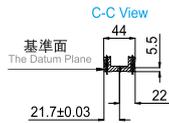
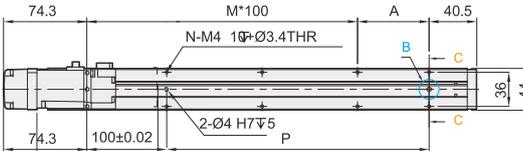
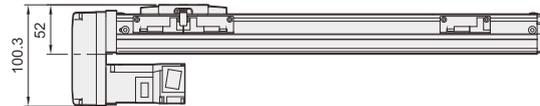
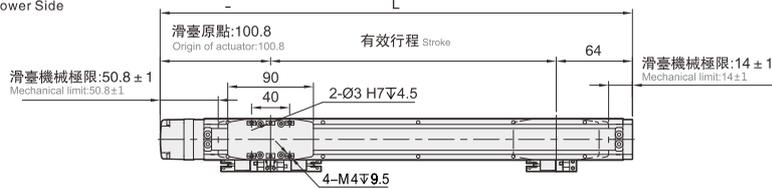


※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 231.5 | 281.5 | 331.5 | 381.5 | 431.5 | 481.5 | 531.5 | 581.5 | 631.5 | 681.5 | 731.5 | 781.5 | 831.5 | 881.5 | 931.5 | 981.5 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |
| M | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 |
| N | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 |
| P | 100 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 |
| KG | 0.9 | 1.04 | 1.125 | 1.21 | 1.295 | 1.38 | 1.465 | 1.55 | 1.635 | 1.72 | 1.805 | 1.89 | 1.975 | 2.06 | 2.145 | 2.23 |

BM 馬達下折 Motor On Lower Side

單位 Unit:mm



※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

※馬達總長度需限制於126內。
The overall length of the motor must be within 126 mm.

| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 214.8 | 264.8 | 314.8 | 364.8 | 414.8 | 464.8 | 514.8 | 564.8 | 614.8 | 664.8 | 714.8 | 764.8 | 814.8 | 864.8 | 914.8 | 964.8 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |
| M | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 |
| N | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 |
| P | 100 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 |
| KG | 1.05 | 1.135 | 1.22 | 1.305 | 1.39 | 1.475 | 1.56 | 1.645 | 1.73 | 1.815 | 1.9 | 1.985 | 2.07 | 2.155 | 2.24 | 2.325 |

馬達下折時，若選用煞車馬達，或是超出馬達總長度限制時無法套用標準PIN孔，如有需求請洽我業務。
When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

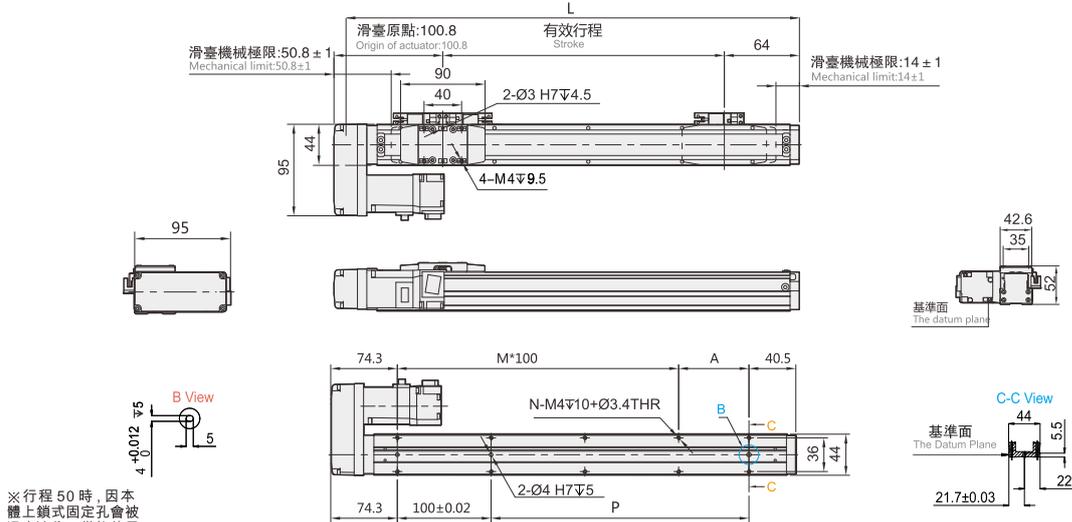
馬達左折/馬達右折 Motor Left/Motor Right

2022 綜合型錄



BL 馬達左折 Motor On Left Side

單位 Unit:mm

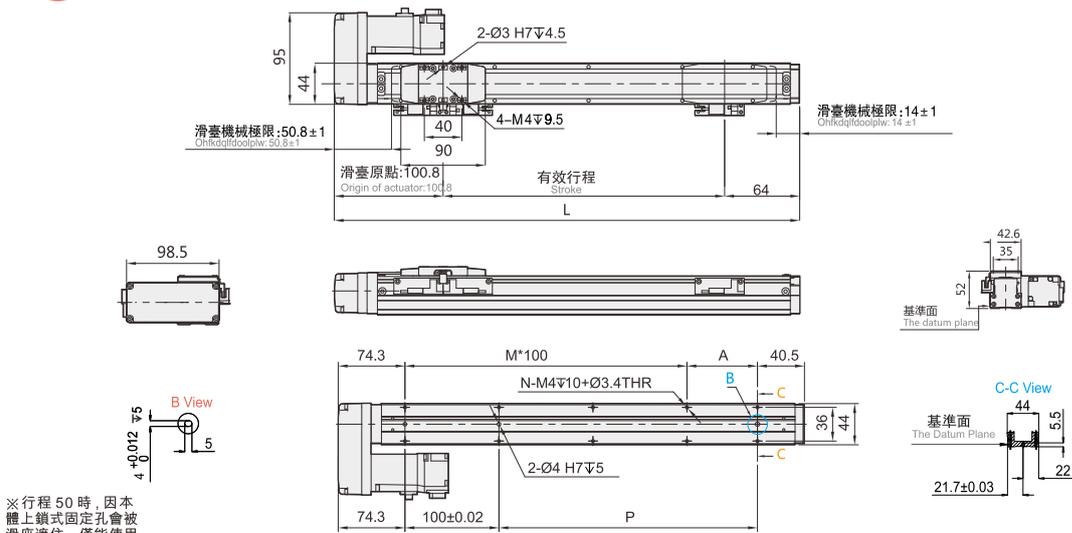


※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be used 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 214.8 | 264.8 | 314.8 | 364.8 | 414.8 | 464.8 | 514.8 | 564.8 | 614.8 | 664.8 | 714.8 | 764.8 | 814.8 | 864.8 | 914.8 | 964.8 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |
| M | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 |
| N | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 |
| P | 100 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 |
| KG | 1.05 | 1.135 | 1.22 | 1.305 | 1.39 | 1.475 | 1.56 | 1.645 | 1.73 | 1.815 | 1.9 | 1.985 | 2.07 | 2.155 | 2.24 | 2.325 |

BR 馬達右折 Motor On Right Side

單位 Unit:mm



※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be used 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 214.8 | 264.8 | 314.8 | 364.8 | 414.8 | 464.8 | 514.8 | 564.8 | 614.8 | 664.8 | 714.8 | 764.8 | 814.8 | 864.8 | 914.8 | 964.8 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |
| M | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 |
| N | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 |
| P | 100 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 |
| KG | 1.05 | 1.135 | 1.22 | 1.305 | 1.39 | 1.475 | 1.56 | 1.645 | 1.73 | 1.815 | 1.9 | 1.985 | 2.07 | 2.155 | 2.24 | 2.325 |



精度
±0.01 mm

最大行程
Maximum Stroke 800mm

最高速度
Maximum Speed 1000mm/s

馬達容量
Motor Output 100w

滾珠螺桿
Ball Screw ø12mm

型號表示方式 Ordering Method

GRH5 - L5 - 100 - BC - M10B - C4 - 0001

本體型號
Model

螺桿導程
Ball Screw Lead

| | |
|----|------|
| 2 | 2mm |
| 5 | 5mm |
| 10 | 10mm |
| 20 | 20mm |

行程 Stroke

50-800mm
50間隔 50 mm Pitch

馬達位置
Motor Position

| | |
|----|---------------------------|
| BC | 馬達外露 Motor Exposed |
| BM | 馬達下折 Motor Bottom Side |
| BL | 馬達左折 Motor Left Side |
| BR | 馬達右折 Motor Right Side |

馬達廠牌
Motor Brand

| 馬達廠牌 | 功率 |
|-----------------|--------------|
| Motor Brand | Power Output |
| M 三菱 Mitsubishi | 05 - B |
| P 松下 Panasonic | 10 100W |
| Y 安川 Yaskawa | 20 - |
| T 台達 Delta | 40 - |

※若無煞車則不表示。※If No Brake, No Description.

功率
Power Output

原點感應器
Home Sensor

| |
|----------------------------|
| 外掛型 Out Side |
| C 馬達側 Motor Side |
| D 反馬達側 Opposite Motor Side |
| 無SENSOR No Sensor |
| E 無SENSOR No Sensor |

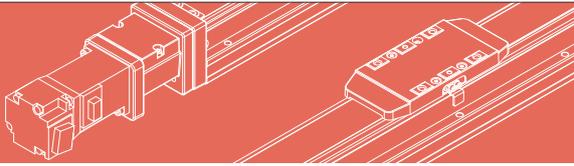
※選擇行程50時,有以下限制:
When the stroke is 50mm, the sensor installation has the following restrictions:

- 原點與極限需放置於不同側。
Home sensor and limit sensor has to be installed on the different side of body.
- 滑座左右兩側皆需安裝感應片。
Both sides of slider need to install the sensor trigger device.

特注式樣
Special Order No.

端點極限感應器
Limit Sensor

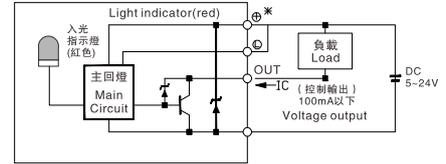
| |
|----------------------|
| 外掛型 Out Side |
| 3 1只 1 Pc |
| 4 2只 2 Pc |
| 無 SENSOR No Sensor |
| 5 無 SENSOR No Sensor |



基本仕様 Specification

| | | | | | | |
|------------------------|--------------------------------------|-------------------------|---------------|-----|------|-----|
| 性能 | 位置重複精度 Repeatability (mm) | ±0.01 | | | | |
| | 導程 Lead (mm) | 2 | 5 | 10 | 20 | |
| | 最高速度 Maximum Speed (mm/s) | 100 | 250 | 500 | 1000 | |
| | 最大可搬重量 Maximum Payload | 水平使用 kg Horizontal (kg) | 30 | 30 | 15 | 10 |
| | | 垂直使用 kg Vertical (kg) | 10 | 10 | 5 | 2.5 |
| | 定格推力 Rated Thrust (N) | 854 | 341 | 170 | 85 | |
| 標準行程 Stroke Pitch (mm) | 50-800mm/50 間隔 50mm Pitch | | | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output (w) | 100 | | | | |
| | 滾珠絲杆外徑 Ball Screw \varnothing (mm) | C7 Φ 12 | | | | |
| | 連軸器 Coupling (mm) | 7X8 | | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX674(NPN) | | | |

感應器接線圖 <原點及端點> Sensor Layout



※行程超過600時，會產生螺桿擺擺，此時請將速度調降。
 *When the stroke is over 600mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
 *馬達加減速設定0.2秒
 *Acceleration and deceleration value is set 0.2 second.

容許負載力距表 N.m Allowable Overhang

| 水平安裝 (單位Unit:mm) | | | | 壁掛安裝 (單位Unit:mm) | | | | 垂直安裝 (單位Unit:mm) | | | | |
|-------------------------|------|-----|-----|-------------------|------|-----|-----|-----------------------|------------|-------|-----|-----|
| Horizontal Installation | A | B | C | Wall Installation | A | B | C | Vertical Installation | A | C | | |
| 導程 2 Lead | 10kg | 900 | 100 | 135 | 10kg | 135 | 100 | 900 | 導程 2 Lead | 6kg | 180 | 180 |
| | 20kg | 700 | 45 | 60 | 20kg | 60 | 45 | 700 | 導程 5 Lead | 8kg | 135 | 135 |
| | 30kg | 550 | 25 | 35 | 30kg | 37 | 27 | 550 | 導程 10 Lead | 10kg | 110 | 110 |
| 導程 5 Lead | 10kg | 655 | 75 | 100 | 10kg | 100 | 75 | 650 | 導程 5 Lead | 6kg | 145 | 145 |
| | 20kg | 440 | 32 | 45 | 20kg | 45 | 32 | 420 | 導程 10 Lead | 8kg | 110 | 110 |
| | 30kg | 270 | 19 | 25 | 30kg | 25 | 19 | 260 | 導程 20 Lead | 10kg | 90 | 90 |
| 導程 10 Lead | 5kg | 600 | 145 | 185 | 5kg | 180 | 145 | 600 | 導程 5 Lead | 1kg | 800 | 800 |
| | 10kg | 370 | 70 | 85 | 10kg | 85 | 68 | 370 | 導程 10 Lead | 3kg | 260 | 260 |
| | 15kg | 250 | 42 | 52 | 15kg | 52 | 42 | 250 | 導程 20 Lead | 5kg | 155 | 155 |
| 導程 20 Lead | 5kg | 320 | 120 | 130 | 5kg | 130 | 120 | 320 | 導程 5 Lead | 1kg | 600 | 600 |
| | 8kg | 220 | 70 | 80 | 8kg | 75 | 70 | 220 | 導程 10 Lead | 2kg | 300 | 300 |
| | 10kg | 175 | 55 | 60 | 10kg | 60 | 55 | 170 | 導程 20 Lead | 2.5kg | 250 | 250 |

靜態容許負載慣量 Static Loading Moment

| | (單位Unit:N.m) |
|----|--------------|
| MY | 103 |
| MP | 103 |
| MR | 144 |

*力矩表所表示的數據，代表重心。
 *The torque value in the chart indicate the center of gravity.
 *符合型錄規範的正常使用下，保證壽命為10000公里。
 *Operation life is 10,000km when the product is using under the specified conditions.
 *吊吊使用無法套用標準規範，如有需求請洽詢我司業務。
 *Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watp | 電源電壓 (AC-Voltage) | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---------------|-----------|--------------------------------------|-----------|-------------------|--------------------|--------------------|
| 三菱 Mitsubishi | M | 無煞車(水平仕様) No Brake (Horizontal Type) | 100 | 220 | HG-KR13 | MR-J4-10A |
| | | 有煞車(垂直仕様) With Brake (Vertical Type) | 100 | 220 | HG-KR13B | MR-J4-10A |
| 松下 Panasonic | P | 無煞車(水平仕様) No Brake (Horizontal Type) | 100 | 220 | MHMD012G1U | MADHT1505 |
| | | 有煞車(垂直仕様) With Brake (Vertical Type) | 100 | 220 | MHMD012G1V | MADHT1505 |
| 台達 Delta | T | 無煞車(水平仕様) No Brake (Horizontal Type) | 100 | 220 | ECMA-C20401ES | ASD-B20121-B |
| | | 有煞車(垂直仕様) With Brake (Vertical Type) | 100 | 220 | ECMA-C20401FS | ASD-B20121-B |

- 產品資訊 Product
- 內嵌式螺絲平台 GH1
- 內嵌式空帶平台 GH2
- 內嵌式螺絲杆式螺絲平台 GH3
- 內嵌式空光軸螺絲平台 GH4
- 內嵌式空光軸螺絲平台 GH5
- 標準螺絲平台 RM1
- 標準空帶平台 RM2
- 完全螺絲平台 RM3
- 完全空帶平台 RM4
- 直掛螺絲平台 LR1
- 直掛螺絲平台 LR2
- 軟面空帶系列 MRB
- 電池式系列 XVCB
- 內嵌式直交伺服手 XVCB
- 螺絲杆直交伺服手 XVM
- 皮帶型直交伺服手 XVM
- 參考資料 Reference

GRH5

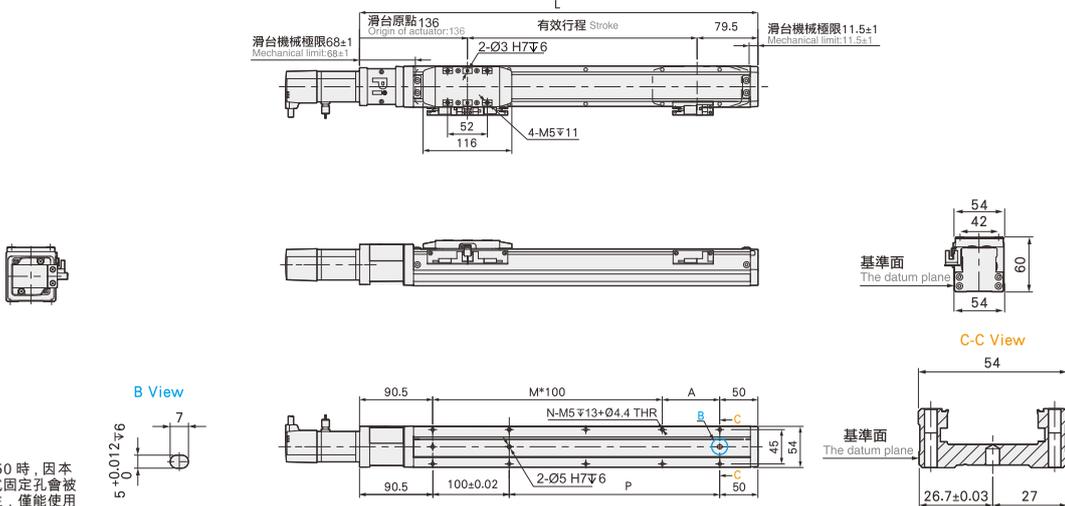
Series

單軸/1-axis

馬達外露/馬達下折
Motor Exposed/Motor On Lower Side

BC 馬達外露 Motor Exposed

單位 Unit:mm

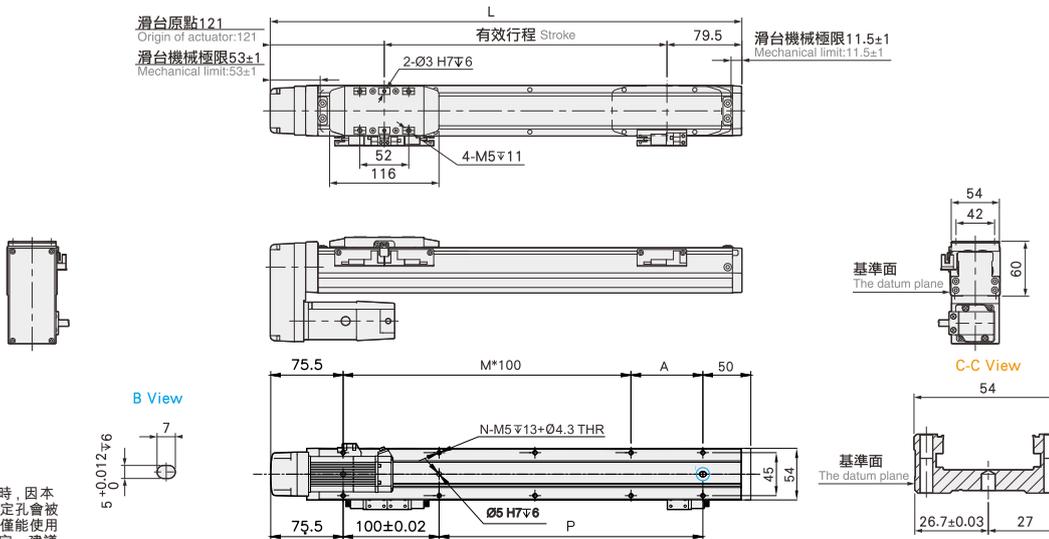


※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that using actuator body from the bottom to the top.

| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| L | 265.5 | 315.5 | 365.5 | 415.5 | 465.5 | 515.5 | 565.5 | 615.5 | 665.5 | 715.5 | 765.5 | 815.5 | 865.5 | 915.5 | 965.5 | 1015.5 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 | 525 | 575 | 625 | 675 | 725 | 775 |
| KG | 1.425 | 1.59 | 1.755 | 1.92 | 2.085 | 2.25 | 2.415 | 2.58 | 2.745 | 2.91 | 3.075 | 3.24 | 3.405 | 3.57 | 3.735 | 3.9 |

BM 馬達下折 Motor On Lower Side

單位 Unit:mm



※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that using actuator body from the bottom to the top.

| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| L | 250.5 | 300.5 | 350.5 | 400.5 | 450.5 | 500.5 | 550.5 | 600.5 | 650.5 | 700.5 | 750.5 | 800.5 | 850.5 | 900.5 | 950.5 | 1000.5 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 | 525 | 575 | 625 | 675 | 725 | 775 |
| KG | 1.7 | 1.805 | 1.91 | 2.015 | 2.12 | 2.225 | 2.33 | 2.435 | 2.54 | 2.645 | 2.75 | 2.855 | 2.96 | 3.065 | 3.17 | 3.275 |

馬達下折時，若選用煞車馬達，或是超出馬達總長度限制時無法套用標準PIN孔，如有需求請洽我司業務。
When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard PIN hole. Please contact our sales department if you need more information & requirement.



精度
±0.01 mm

最大行程
Maximum Stroke 800mm

最高速度
Maximum Speed 1000mm/s

馬達容量
Motor Output 100w

滾珠螺桿
Ball Screw ø12mm

型號表示方式 Ordering Method

GRH7 - L5 - 100 - BC - M10 - C4 - 0001

本體型號
Model

特注式樣
Special Order No.

螺桿導程
Ball Screw Lead

| | |
|----|------|
| 2 | 2mm |
| 5 | 5mm |
| 10 | 10mm |
| 20 | 20mm |

行程 Stroke

| |
|------------------|
| 50-800mm |
| 50間隔 50 mm Pitch |

馬達位置
Motor Position

| | |
|----|---------------------------|
| BC | 馬達外露 Motor Exposed |
| BM | 馬達下折 Motor Bottom Side |
| BL | 馬達左折 Motor Left Side |
| BR | 馬達右折 Motor Right Side |

馬達廠牌
Motor Brand

| 馬達廠牌 | 功率 |
|-----------------|---------|
| M 三菱 Mitsubishi | 05 - B |
| P 松下 Panasonic | 10 100W |
| Y 安川 Yaskawa | 20 |
| T 台達 Delta | 40 |

※若無煞車則不表示。※If No Brake, No Description.

功率
Power Output

原點感應器
Home Sensor

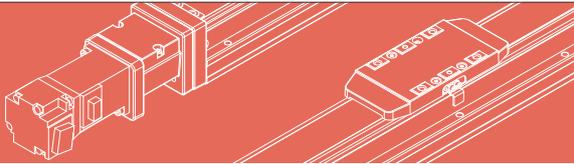
| 原點感應器 | 外掛型 |
|-------|-----------------------------|
| C | 馬達側 Motor Side |
| D | 反馬達側 Opposite Motor Side |
| | 無SENSOR No Sensor |
| E | 無SENSOR No Sensor |

※選擇行程50mm時，有以下限制：
When the stroke is 50mm, the sensor installation has the following restrictions:

1. 原點與極限需放置於不同側。
Home sensor and limit sensor has to be installed on the different side of body.
2. 滑座左右兩側皆需安裝感應片。
Both sides of slider need to install the sensor trigger device.

端點極限感應器
Limit Sensor

| 端點極限感應器 | 外掛型 |
|---------|-----------------------|
| 3 | 1只 1 Pc |
| 4 | 2只 2 Pc |
| | 無 SENSOR No Sensor |
| 5 | 無 SENSOR No Sensor |



基本仕様 Specification

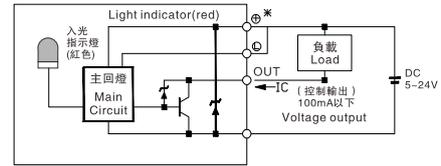
| | | | | | | |
|----|--------------------------------------|---------------------------|---------------|-----|------|----|
| 性能 | 位置重複精度 Repeatability (mm) | ±0.01 | | | | |
| | 導程 Lead (mm) | 2 | 5 | 10 | 20 | |
| | 最高速度 Maximum Speed (mm/s) | 100 | 250 | 500 | 1000 | |
| | 最大可搬重量 Maximum Payload | 水平使用 kg Horizontal (kg) | 35 | 35 | 17 | 11 |
| | | 垂直使用 kg Vertical (kg) | 11 | 11 | 6 | 3 |
| | 定格推力 Rated Thrust (N) | 854 | 341 | 170 | 85 | |
| | 標準行程 Stroke Pitch (mm) | 50-800mm/50 間隔 50mm Pitch | | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output (w) | 100 | | | | |
| | 滾珠絲杆外徑 Ball Screw \varnothing (mm) | C7 Φ 12 | | | | |
| | 連軸器 Coupling (mm) | 7X8 | | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX674(NPN) | | | |

※行程超過600時，會產生螺桿偏擺，此時請將速度調降。 *馬達加減速設定0.2秒
 *When the stroke is over 600 mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances. *Acceleration and deceleration value is set 0.2 second.

容許負載力距表 N.m Allowable Overhang

| 水平安裝 Horizontal installation (單位Unit:mm) | | | | 壁掛安裝 Wall installation (單位Unit:mm) | | | | 垂直安裝 Vertical installation (單位Unit:mm) | | | |
|--|------|-----|-----|------------------------------------|------|-----|-----|--|-------|-----|-----|
| | A | B | C | | A | B | C | | A | C | |
| 導程 2 Lead | 11kg | 880 | 130 | 167 | 11kg | 165 | 110 | 980 | 7kg | 230 | 230 |
| | 23kg | 730 | 56 | 76 | 23kg | 62 | 51 | 810 | 9kg | 155 | 155 |
| | 35kg | 620 | 32 | 48 | 35kg | 42 | 31 | 620 | 11kg | 120 | 120 |
| 導程 5 Lead | 11kg | 820 | 96 | 110 | 11kg | 120 | 79 | 650 | 5kg | 186 | 186 |
| | 23kg | 520 | 43 | 51 | 23kg | 76 | 54 | 420 | 9kg | 117 | 117 |
| | 35kg | 310 | 20 | 21 | 35kg | 32 | 23 | 271 | 11kg | 95 | 95 |
| 導程 10 Lead | 6kg | 720 | 150 | 192 | 6kg | 230 | 205 | 650 | 1kg | 900 | 900 |
| | 11kg | 435 | 81 | 90 | 11kg | 95 | 85 | 420 | 4kg | 253 | 253 |
| | 17kg | 280 | 45 | 55 | 17kg | 58 | 43 | 265 | 6kg | 150 | 150 |
| 導程 20 Lead | 6kg | 376 | 130 | 125 | 6kg | 221 | 204 | 350 | 1kg | 700 | 700 |
| | 9kg | 260 | 73 | 91 | 9kg | 127 | 119 | 260 | 2.5kg | 330 | 330 |
| | 11kg | 212 | 57 | 62 | 11kg | 102 | 93 | 180 | 3kg | 285 | 285 |

感應器接線圖 <原點及端點> Sensor Layout



靜態容許負載慣量 Static Loading Moment

| | (單位Unit:N.m) |
|----|--------------|
| MY | 123 |
| MP | 123 |
| MR | 172 |

*力矩表所表示的數據，代表重心。
 *The torque value in the chart indicate the center of gravity.
 *符合型錄規範的正常使用下，保證壽命為10000公里。
 *Operation life is 10,000km when the product is using under the specified conditions.
 *倒吊使用無法套用標準規範，如有需求請洽詢我司業務。
 *Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watp | 電源電壓 (AC-Voltage) | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---------------|-----------|---|-----------|-------------------|--------------------|--------------------|
| 三菱 Mitsubishi | M | 無煞車(水平仕様) No Brake (Horizontal Type) | 100 | 220 | HG-KR13 | MR-J4-10A |
| | | 有煞車(垂直仕様) With Brake (Vertical Type) | 100 | 220 | HG-KR13B | MR-J4-10A |
| 松下 Panasonic | P | 無煞車(水平仕様) No Brake (Horizontal Type) | 100 | 220 | MSMD012G1U | MADHT1505 |
| | | 有煞車(垂直仕様) With Brake (Vertical Type) | 100 | 220 | MSMD012G1V | MADHT1505 |
| 台達 Delta | T | 無煞車(水平仕様) No Brake (Horizontal Type) | 100 | 220 | ECMA-C20401ES | ASD-B20121-B |
| | | 有煞車(垂直仕様) With Brake (Vertical Type) | 100 | 220 | ECMA-C20401FS | ASD-B20121-B |

- 產品資訊 Product Information
- 內嵌式螺桿平台 GH1
- 內嵌式空背帶平台 GH2
- 內嵌式螺桿式螺桿平台 GEC
- 內嵌式空光軸直線電機 GH
- 內嵌式空螺桿平台 GAC
- 標準螺桿平台 RMH
- 標準空背帶平台 RMH
- 空光軸平台 RMD
- 空光背帶平台 RMH
- 直線電機 空軸電機 LPH
- 直線電機 零軸電機 LWH
- 軟面空背帶系列 MHR
- 電池式系列 EC
- 內嵌式 星交切齒手 XYGH
- 螺桿型 星交切齒手 XVM
- 皮帶型 直交切齒手 XVM
- 參考資料 Reference

GRH7

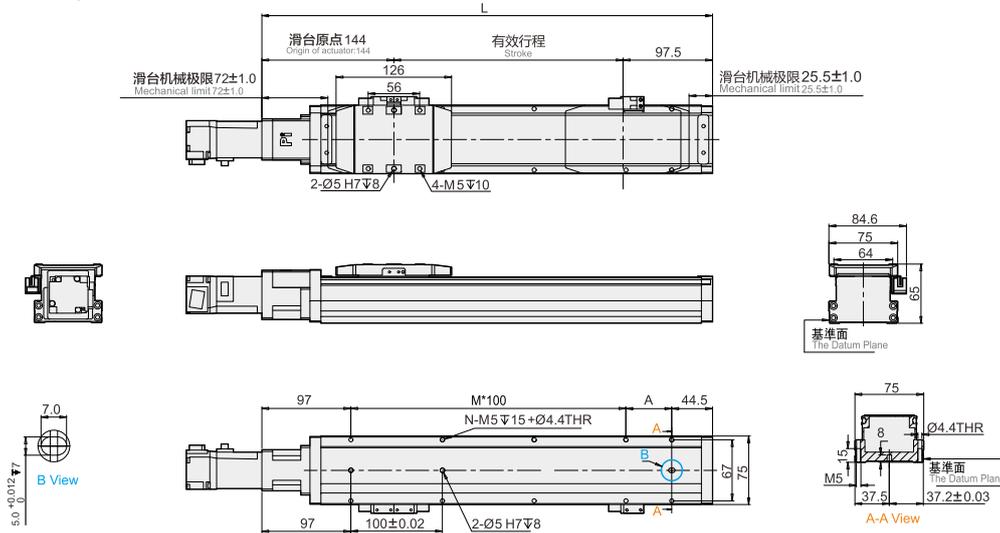
Series

單軸/1-axis

馬達外露/馬達下折
Motor Exposed/Motor On Lower Side

BC 馬達外露 Motor Exposed

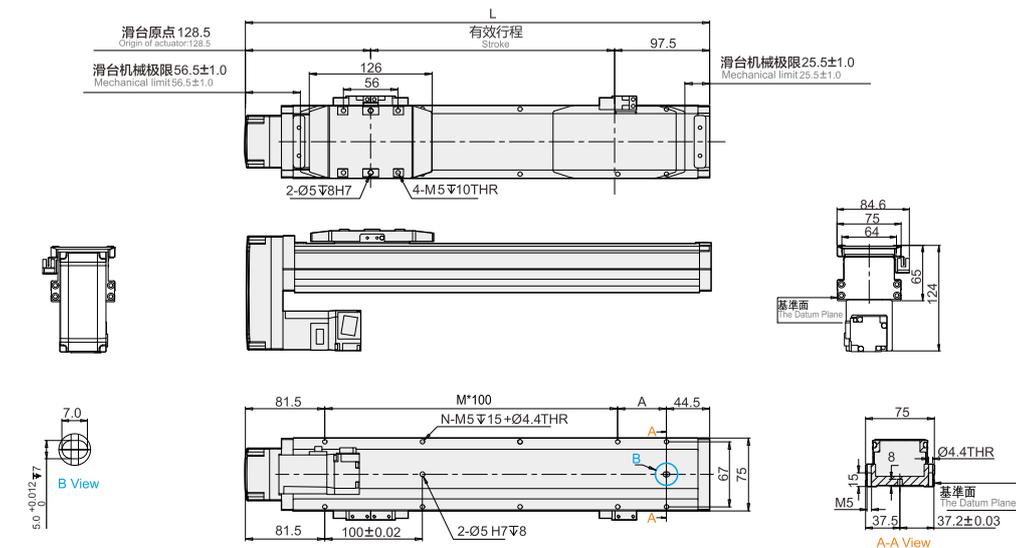
單位 Unit:mm



| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| L | 291.5 | 341.5 | 391.5 | 441.5 | 491.5 | 541.5 | 591.5 | 641.5 | 691.5 | 741.5 | 791.5 | 841.5 | 891.5 | 941.5 | 991.5 | 1041.5 |
| A | 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 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| KG | 2.04 | 2.23 | 2.42 | 2.61 | 2.8 | 2.99 | 3.18 | 3.37 | 3.56 | 3.75 | 3.94 | 4.13 | 4.32 | 4.51 | 4.70 | 4.89 |

BM 馬達下折 Motor On Lower Side

單位 Unit:mm

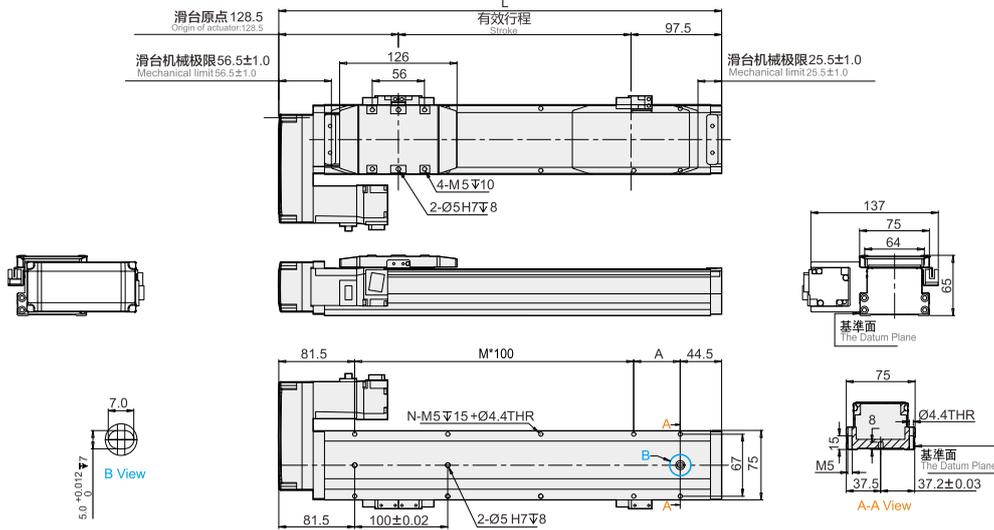


| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|----------------|-----|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|
| L | 276 | 326 | 376 | 426 | 476 | 526 | 576 | 626 | 676 | 726 | 776 | 826 | 876 | 926 | 976 | 1026 |
| A | 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 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| KG | 2.1 | 2.29 | 2.48 | 2.67 | 2.86 | 3.05 | 3.24 | 3.43 | 3.62 | 3.81 | 4.0 | 4.19 | 4.38 | 4.57 | 4.76 | 4.95 |

BL 馬達左折

Motor On Left Side

單位 Unit:mm

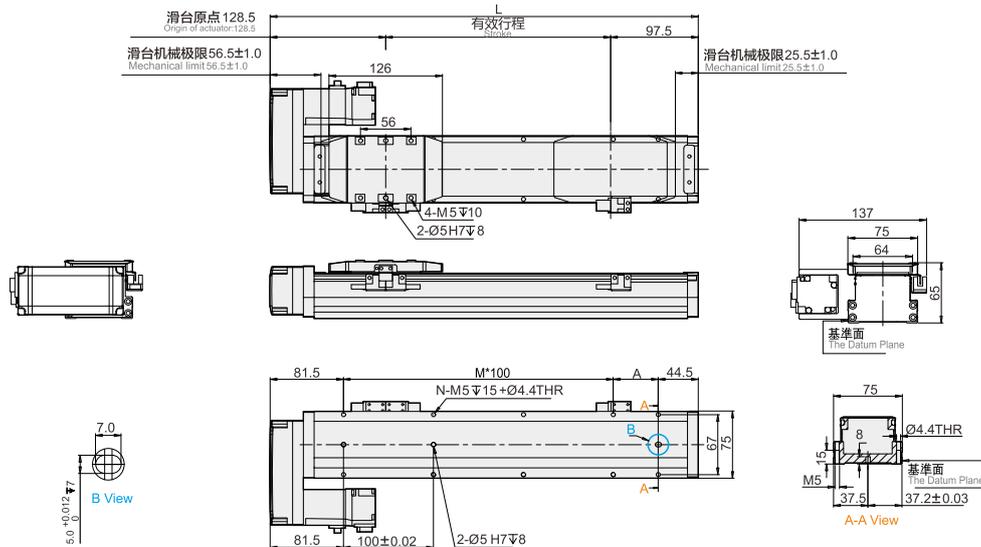


| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-----|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|
| L | 276 | 326 | 376 | 426 | 476 | 526 | 576 | 626 | 676 | 726 | 776 | 826 | 876 | 926 | 976 | 1026 |
| A | 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 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| KG | 2.1 | 2.29 | 2.48 | 2.67 | 2.86 | 3.05 | 3.24 | 3.43 | 3.62 | 3.81 | 4.0 | 4.19 | 4.38 | 4.57 | 4.76 | 4.95 |

BR 馬達右折

Motor On Right Side

單位 Unit:mm



| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|-------------|-----|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|
| L | 276 | 326 | 376 | 426 | 476 | 526 | 576 | 626 | 676 | 726 | 776 | 826 | 876 | 926 | 976 | 1026 |
| A | 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 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| KG | 2.1 | 2.29 | 2.48 | 2.67 | 2.86 | 3.05 | 3.24 | 3.43 | 3.62 | 3.81 | 4.0 | 4.19 | 4.38 | 4.57 | 4.76 | 4.95 |

- 产品系列 Product Series
- 内嵌式无刷滑台 GH1
- 内嵌式有刷滑台 GH2
- 内嵌式推杆式磁浮滑台 GEO
- 内嵌式无刷磁浮电机 GH1
- 内嵌式无刷推杆滑台 GH2
- 标准磁浮滑台 RM1
- 标准有刷滑台 RM2
- 无刷磁浮滑台 RM3
- 无刷有刷滑台 RM4
- 直轴电机 LRM1
- 直轴电机零转速 LRM2
- 双向磁浮系列 RM5
- 电动缸系列 EC
- 内嵌式直交伺服手 XY10
- 推杆型直交伺服手 XYM1
- 皮带型直交伺服手 XYM2
- 参考资料 Reference



精度
±0.01 mm

最大行程
Maximum Stroke 1050mm

最高速度
Maximum Speed 1000mm/s

馬達容量
Motor Output 200/400w

滾珠螺桿
Ball Screw ø16mm

型號表示方式 Ordering Method

GRH8 - L10 - 100 - BC - M20B - C4 - 0001

本體型號
Model

螺桿導程
Ball Screw Lead

| | |
|----|------|
| 5 | 5mm |
| 10 | 10mm |
| 20 | 20mm |

行程 Stroke

| |
|------------------|
| 50-1050mm |
| 50間隔 50 mm Pitch |

馬達位置
Motor Position

| | |
|----|---------------------------|
| BC | 馬達外露 Motor Exposed |
| BM | 馬達下折 Motor Bottom Side |
| BL | 馬達左折 Motor Left Side |
| BR | 馬達右折 Motor Right Side |

馬達廠牌
Motor Brand

| 馬達廠牌 Motor Brand | 功率 Power Output |
|---------------------|--------------------|
| M 三菱 Mitsubishi | 05 - B |
| P 松下 Panasonic | 10 - |
| Y 安川 Yaskawa | 20 200W |
| T 台達 Delta | 40 400W |

※若無煞車則不表示。※If No Brake, No Description.

原點感應器
Home Sensor

| |
|----------------------------|
| 外掛型 Out Side |
| C 馬達側 Motor Side |
| D 反馬達側 Opposite Motor Side |
| 無SENSOR No Sensor |
| E 無 SENSOR No Sensor |

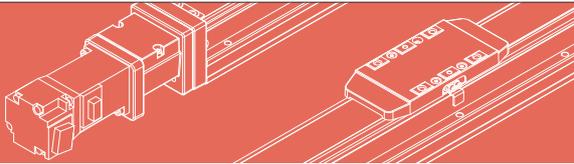
※選擇行程50時, 有以下限制:
When the stroke is 50mm, the sensor installation has the following restrictions:

1. 原點與極限需放置於不同側。
Home sensor and limit sensor has to be installed on the different side of body.
2. 滑座左右兩側皆需安裝感應片。
Both sides of slider need to install the sensor trigger device.

特注式樣
Special Order No.

端點極限感應器
Limit Sensor

| |
|----------------------|
| 外掛型 Out Side |
| 3 1只 1 Pc |
| 4 2只 2 Pc |
| 無 SENSOR No Sensor |
| 5 無 SENSOR No Sensor |



基本仕様 Specification

| | | | | | |
|----|--------------------------------------|----------------------------|---------------|---------|----|
| 性能 | 位置重複精度 Repeatability (mm) | ±0.01 | | | |
| | 導程 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 kg Horizontal (kg) | 50 | 30 | 18 |
| | | 垂直使用 kg Vertical (kg) | 15 | 8 | 3 |
| | 定格推力 Rated Thrust (N) | 683/1388 | 341/694 | 174/347 | |
| | 標準行程 Stroke Pitch (mm) | 50-1050mm/50 間隔 50mm Pitch | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output (w) | 200/400 | | | |
| | 滾珠絲杆外徑 Ball Screw \varnothing (mm) | C7 \varnothing 16 | | | |
| | 連軸器 Coupling (mm) | 10X14/11 (注1) | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX674(NPN) | | |

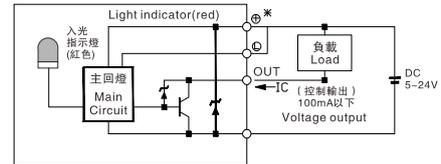
*行程超過750mm時，會產生螺絲杆偏擺，此時請將速度調降。 *馬達加減速設定0.2秒
*When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances. *Acceleration and deceleration value is set 0.2 second.

注1:使用Panasonic 200W馬達時，馬達軸心為 \varnothing 11；其他廠牌，馬達軸心為 \varnothing 14。
*Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

容許負載力距表 N.m Allowable Overhang

| 水平安裝 (單位Unit:mm) | | | | 壁掛安裝 (單位Unit:mm) | | | | 垂直安裝 (單位Unit:mm) | | | |
|-------------------------|------|------|-----|-------------------|------|-----|-----|-----------------------|------|-----|-----|
| Horizontal Installation | A | B | C | Wall Installation | A | B | C | Vertical Installation | 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 | 53 | 506 | - | - | - |
| 導程 10 Lead | 10kg | 1730 | 286 | 412 | 10kg | 370 | 286 | 1400 | 5kg | 589 | 589 |
| | 20kg | 839 | 136 | 196 | 20kg | 176 | 136 | 800 | 8kg | 368 | 368 |
| | 30kg | 541 | 86 | 124 | 30kg | 112 | 86 | 495 | - | - | - |
| 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 | - | - | - |

感應器接線圖 <原點及端點> Sensor Layout



靜態容許負載慣量 Static Loading Moment

| | | (單位Unit:N.m) |
|----|--|--------------|
| MY | | 318 |
| MP | | 318 |
| MR | | 626 |

*力矩表所表示的數據，代表重心。
*The torque value in the chart indicate the center of gravity.

*符合型錄規範的正常使用下，保證壽命為10000公里。
*Operation life is 10,000km when the product is using under the specified conditions.

*倒吊使用無法套用標準規範，如有需求請洽詢我司業務。
*Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watp | 電源電壓 (AC-Voltage) | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---------------|-----------|--------------------------------------|-----------|-------------------|--------------------|--------------------|
| 三菱 Mitsubishi | M | 無煞車(水平仕樣) No Brake (Horizontal Type) | 200 | 220 | HG-KR23 | MR-J4-20A |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 200 | 220 | HG-KR23B | MR-J4-20A |
| 松下 Panasonic | P | 無煞車(水平仕樣) No Brake (Horizontal Type) | 200 | 220 | MHMD022G1U | MADHT1507 |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 200 | 220 | MHMD022G1V | MADHT1507 |
| 台達 Delta | T | 無煞車(水平仕樣) No Brake (Horizontal Type) | 200 | 220 | ECMA-C20602ES | ASD-B20221-B |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 200 | 220 | ECMA-C20602FS | ASD-B20221-B |

- 產品資訊 Product
- 內嵌式螺絲杆平台 GH1
- 內嵌式空帶平台 GH2
- 內嵌式螺絲杆式螺絲杆平台 GEC
- 內置式充光軸直線電機 GH
- 內置式安全螺絲杆平台 GAC
- 標準螺絲杆平台 RM1
- 標準空帶平台 RM2
- 完全螺絲杆平台 RMD
- 完全空帶平台 RMP
- 直線電機大推力 LPH
- 直線電機零輻射 LWH
- 臥式空帶系列 MHP
- 電動缸系列 EC
- 內置式直交伺服手 XYGH
- 螺絲杆直交伺服手 XVM
- 皮帶型直交伺服手 XVMp
- 參考資料 Reference

GRH8

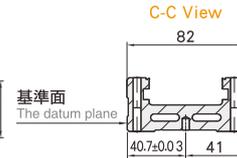
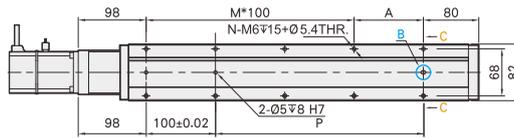
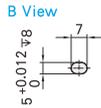
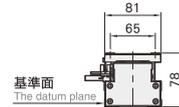
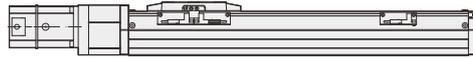
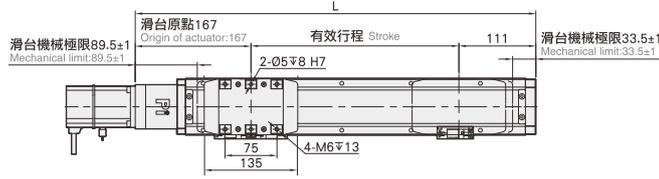
Series

單軸/1-axis

馬達外露/馬達下折
Motor Exposed/Motor On Lower Side

BC 馬達外露 Motor Exposed

單位 Unit:mm



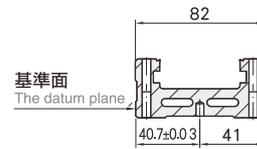
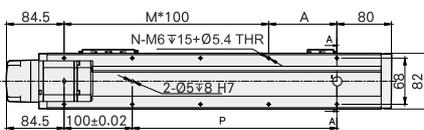
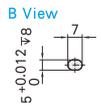
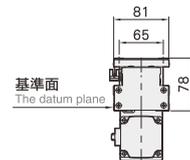
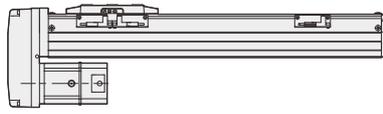
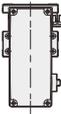
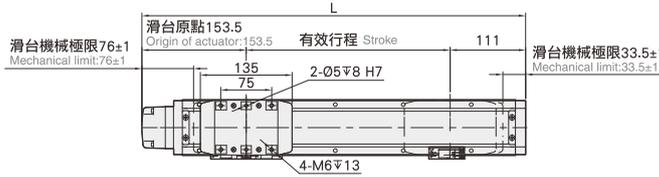
※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。

When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L | 328 | 378 | 428 | 478 | 528 | 578 | 628 | 678 | 728 | 778 | 828 | 878 | 928 | 978 | 1028 | 1078 | 1128 | 1178 | 1228 | 1278 | 1328 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 |
| P | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
| KG | 3.01 | 3.35 | 3.69 | 4.03 | 4.37 | 4.71 | 5.05 | 5.39 | 5.73 | 6.07 | 6.41 | 6.75 | 7.09 | 7.43 | 7.77 | 8.11 | 8.45 | 0.79 | 9.13 | 9.47 | 9.81 |

BM 馬達下折 Motor On Lower Side

單位 Unit:mm



※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。

When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| L | 314.5 | 364.5 | 414.5 | 464.5 | 514.5 | 564.5 | 614.5 | 664.5 | 714.5 | 764.5 | 814.5 | 864.5 | 914.5 | 964.5 | 1014.5 | 1064.5 | 1114.5 | 1164.5 | 1214.5 | 1264.5 | 1314.5 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 |
| P | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
| KG | 3.36 | 3.7 | 4.04 | 4.38 | 4.72 | 5.06 | 5.4 | 5.74 | 6.08 | 6.42 | 6.76 | 7.1 | 7.44 | 7.78 | 8.12 | 8.46 | 8.8 | 9.14 | 9.48 | 9.82 | 10.16 |

馬達下折時，若選用煞車馬達，或是超出馬達總長度限制時無法套用標準PIN孔，如有需求請洽我司業務。

When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

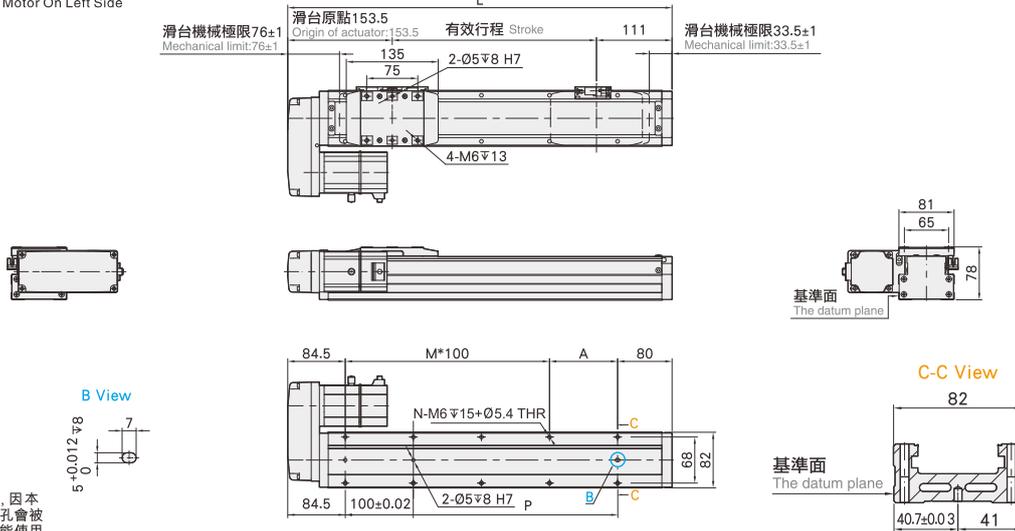
馬達左折/馬達右折 Motor Left/Motor Right

2022 綜合型錄



BL 馬達左折 Motor On Left Side

單位 Unit:mm

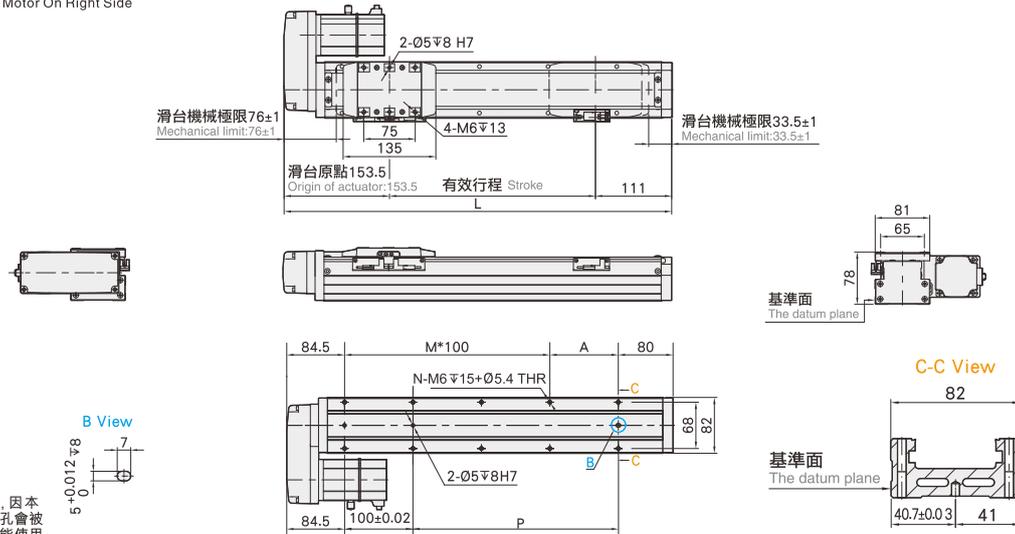


※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| L | 314.5 | 364.5 | 414.5 | 464.5 | 514.5 | 564.5 | 614.5 | 664.5 | 714.5 | 764.5 | 814.5 | 864.5 | 914.5 | 964.5 | 1014.5 | 1064.5 | 1114.5 | 1164.5 | 1214.5 | 1264.5 | 1314.5 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 |
| P | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
| KG | 3.36 | 3.7 | 4.04 | 4.38 | 4.72 | 5.06 | 5.4 | 5.74 | 6.08 | 6.42 | 6.76 | 7.1 | 7.44 | 7.78 | 8.12 | 8.46 | 8.8 | 9.14 | 9.48 | 9.82 | 10.16 |

BR 馬達右折 Motor On Right Side

單位 Unit:mm



※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| L | 314.5 | 364.5 | 414.5 | 464.5 | 514.5 | 564.5 | 614.5 | 664.5 | 714.5 | 764.5 | 814.5 | 864.5 | 914.5 | 964.5 | 1014.5 | 1064.5 | 1114.5 | 1164.5 | 1214.5 | 1264.5 | 1314.5 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 |
| P | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
| KG | 3.36 | 3.7 | 4.04 | 4.38 | 4.72 | 5.06 | 5.4 | 5.74 | 6.08 | 6.42 | 6.76 | 7.1 | 7.44 | 7.78 | 8.12 | 8.46 | 8.8 | 9.14 | 9.48 | 9.82 | 10.16 |

- 產品資訊 Product
- 內嵌式螺絲滑台
G61
- 內嵌式帶滑台
G62
- 內嵌式螺絲式
螺絲滑台
G63
- 內嵌式充光軸
直線電機滑台
HT
- 內嵌式安全
螺絲滑台
G64
- 標準螺絲滑台
HM
- 標準帶滑台
HR
- 安全帶滑台
HR
- 安全螺絲滑台
G65
- 安全帶滑台
HR
- 直線電機
左推式
HR-L
- 直線電機
零極寬
HM
- 軟性帶系列
MSH
- 電動缸系列
GE
- 內嵌式
直交伺服手
HDX
- 螺絲型
直交伺服手
HMAX
- 皮帶型
直交伺服手
dMAX
- 參考資料 Reference



最大行程 1250mm
Maximum Stroke

最高速度 1600mm/s
Maximum Speed

馬達容量 400w
Motor Output

滾珠螺桿 ø16mm
Ball Screw

型號表示方式 Ordering Method

GRH12 - L5 - 100 - BC - M40B - C4 - 0001

本體型號
Model

特注式樣
Special Order No.

螺桿導程
Ball Screw Lead

| | |
|----|------|
| 5 | 5mm |
| 10 | 10mm |
| 20 | 20mm |
| 32 | 32mm |

行程 Stroke

| |
|------------------|
| 50-1250mm |
| 50間隔 50 mm Pitch |

馬達位置
Motor Position

| | |
|----|---------------------------|
| BC | 馬達外露 Motor Exposed |
| BM | 馬達下折 Motor Bottom Side |
| BL | 馬達左折 Motor Left Side |
| BR | 馬達右折 Motor Right Side |

馬達廠牌
Motor Brand

| 馬達廠牌 | 功率 |
|-----------------|---------|
| M 三菱 Mitsubishi | 05 - B |
| P 松下 Panasonic | 10 - |
| Y 安川 Yaskawa | 20 - |
| T 台達 Delta | 40 400W |

※若無煞車則不表示。*If No Brake, No Description.

功率
Power Output

原點感應器
Home Sensor

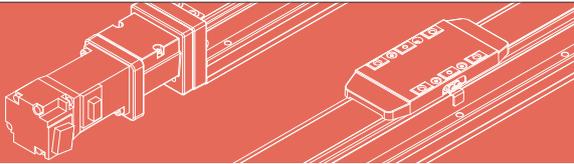
| 原點感應器 |
|----------------------------|
| 外掛型 Out Side |
| C 馬達側 Motor Side |
| D 反馬達側 Opposite Motor Side |
| 無 SENSOR No Sensor |
| E 無 SENSOR No Sensor |

※選擇行程50時,有以下限制:
When the stroke is 50mm, the sensor installation has the following restrictions:

1. 原點與極限需放置於不同側。
Home sensor and limit sensor has to be installed on the different side of body.
2. 滑座左右兩側皆需安裝感應片。
Both sides of slider need to install the sensor trigger device.

端點極限感應器
Limit Sensor

| 端點極限感應器 |
|----------------------|
| 外掛型 Out Side |
| 3 1只 1 Pc |
| 4 2只 2 Pc |
| 無 SENSOR No Sensor |
| 5 無 SENSOR No Sensor |



基本仕様 Specification

| | | | | | | |
|----|--------------------------------------|----------------------------|---------------|------|------|----|
| 性能 | 位置重複精度 Repeatability (mm) | ±0.01 | | | | |
| | 導程 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 kg Horizontal (kg) | 110 | 88 | 40 | 30 |
| | | 垂直使用 kg Vertical (kg) | 33 | 22 | 10 | 8 |
| | 定格推力 Rated Thrust (N) | 1388 | 694 | 347 | 218 | |
| | 標準行程 Stroke Pitch (mm) | 50-1250mm/50 間隔 50mm Pitch | | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output (w) | 400W | | | | |
| | 滾珠絲杆外徑 Ball Screw \varnothing (mm) | C7 Φ 16 | | | | |
| | 連軸器 Coupling (mm) | 10X14 (註1) | | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX674(NPN) | | | |

※行程超過750時，會產生螺絲杆偏擺，此時請將速度調降。*馬達加減速設定0.2秒
 *When the stroke is over 750mm, the run-out of the ballscrew will occur. *Acceleration and deceleration value is set 0.2 second.
 We recommend to low down the working speed under this circumstances.
 *註1:使用Panasonic 200W馬達時，馬達軸心為 Φ 11；其他廠牌，馬達軸心為 Φ 14。
 *Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

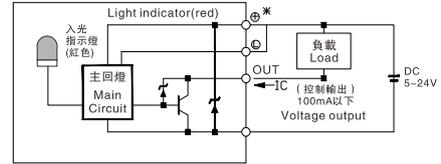
容許負載力距表 N.m Allowable Overhang

| 水平安裝 (單位Unit:mm) | | | | 壁掛安裝 (單位Unit:mm) | | | | 垂直安裝 (單位Unit:mm) | | | |
|-------------------------|-------|------|------|-------------------|-------|-----|------|-----------------------|------|------|------|
| Horizontal Installation | | | | Wall Installation | | | | Vertical Installation | | | |
| 導程 Lead | A | B | C | 導程 Lead | A | B | C | 導程 Lead | A | C | |
| 5 | 60kg | 2850 | 250 | 340 | 55kg | 280 | 280 | 3300 | 15kg | 1200 | 1200 |
| | 80kg | 2100 | 180 | 250 | 75kg | 200 | 190 | 2400 | 22kg | 820 | 820 |
| | 110kg | 1500 | 120 | 170 | 110kg | 130 | 125 | 1550 | 33kg | 550 | 550 |
| 10 | 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 |
| 20 | 10kg | 1650 | 1250 | 1400 | 12kg | 900 | 1070 | 3000 | 7kg | 1800 | 1800 |
| | 22kg | 900 | 550 | 620 | 20kg | 550 | 630 | 1800 | 10kg | 1250 | 1250 |
| | 40kg | 250 | 290 | 330 | 40kg | 260 | 300 | 900 | - | - | - |
| 32 | 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 | - | - | - | - | - | - | - |

搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watp | 電源電壓 (AC-Voltage) | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---------------|-----------|--------------------------------------|-----------|-------------------|--------------------|--------------------|
| 三菱 Mitsubishi | M | 無煞車(水平仕樣) No Brake (Horizontal Type) | 400 | 220 | HG-KR43 | MR-J4-40A |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 400 | 220 | HG-KR43B | MR-J4-40A |
| 松下 Panasonic | P | 無煞車(水平仕樣) No Brake (Horizontal Type) | 400 | 220 | MHMD042G1U | MADHT2510 |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 400 | 220 | MHMD042G1V | MADHT2510 |
| 台達 Delta | T | 無煞車(水平仕樣) No Brake (Horizontal Type) | 400 | 220 | ECMA-C20604ES | ASD-B20421-B |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 400 | 220 | ECMA-C20604FS | ASD-B20421-B |

感應器接線圖 <原點及端點> Sensor Layout



靜態容許負載慣量 Static Loading Moment

| 靜態容許負載慣量 (單位Unit:N.m) | |
|-----------------------|------|
| MY | 606 |
| MP | 606 |
| MR | 1168 |

*力矩表所表示的數據，代表重心。
 *The torque value in the chart indicate the center of gravity.
 *符合型錄規範的正常使用下，保證壽命為10000公里。
 *Operation life is 10,000km when the product is using under the specified conditions.
 *倒吊使用無法套用標準規範，如有需求請洽詢我司業務。
 *Data information is not for ceiling-mount inverse usage. Contact us for the details if you want to apply ceiling-mount inverse usage.

- 產品資訊 Product Information
- 內嵌式螺絲杆平台 GH1
- 內嵌式空帶平台 GH2
- 內嵌式螺絲杆式螺絲杆平台 GEC
- 內嵌式空光軸直線電機 GH
- 內嵌式空光軸螺絲杆平台 GEC
- 標準螺絲杆平台 RMH
- 標準空帶平台 RMH
- 完全螺絲杆平台 RMD
- 完全空帶平台 RMH
- 直線電機大推力 LPH
- 直線電機零噪音 LMH
- 軟啟動帶系列 MHR
- 電動缸系列 EC
- 內嵌式星交切齒手 XYCH
- 螺絲杆式星交切齒手 XVM
- 皮帶型星交切齒手 XVM
- 參考資料 Reference

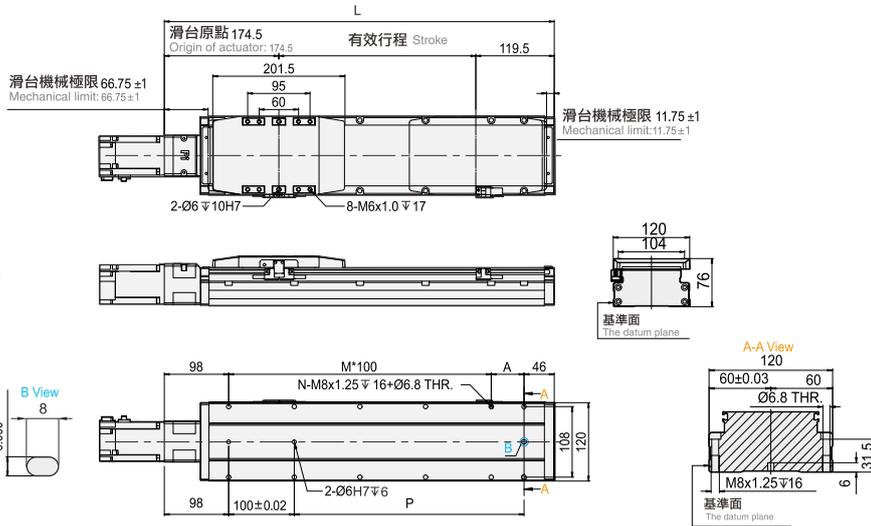
GRH12 Series

單軸/1-axis

馬達外露/馬達下折
Motor Exposed/Motor On Lower Side

BC 馬達外露 Motor Exposed

單位 Unit:mm

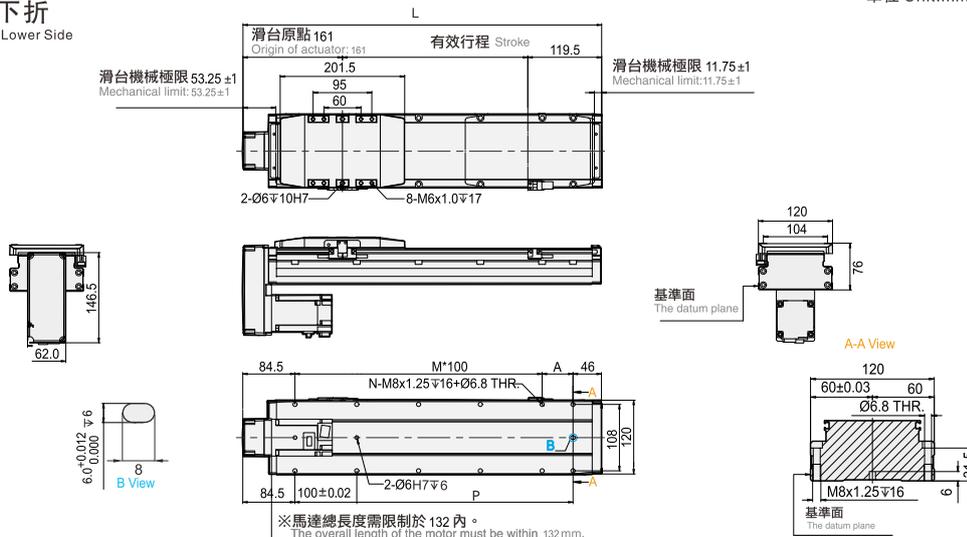


※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be used 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 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 |
|-------------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 |
| P | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 |
| KG | 4.55 | 4.96 | 5.37 | 5.78 | 6.19 | 6.6 | 7.01 | 7.42 | 7.83 | 8.24 | 8.65 | 9.06 | 9.47 | 9.88 | 10.29 | 10.7 | 11.11 | 11.52 | 11.93 | 12.34 | 12.75 | 13.16 | 13.57 | 13.98 | 14.39 |

BM 馬達下折 Motor On Lower Side

單位 Unit:mm



※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be used 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

※馬達總長度需限制於 132 內。
The overall length of the motor must be within 132mm.

| 有效行程 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 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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 | 5 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 |
| P | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 |
| KG | 4.70 | 5.11 | 5.52 | 5.93 | 6.34 | 6.75 | 7.16 | 7.5 | 7.91 | 8.32 | 8.73 | 9.14 | 9.55 | 9.96 | 10.37 | 10.78 | 11.19 | 11.6 | 12.01 | 12.42 | 12.83 | 13.24 | 13.65 | 14.06 | 14.47 |

馬達下折時，若選用煞車馬達，或是超出馬達總長度限制時無法套用標準 PIN 孔，如有需求請洽我司業務。
When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

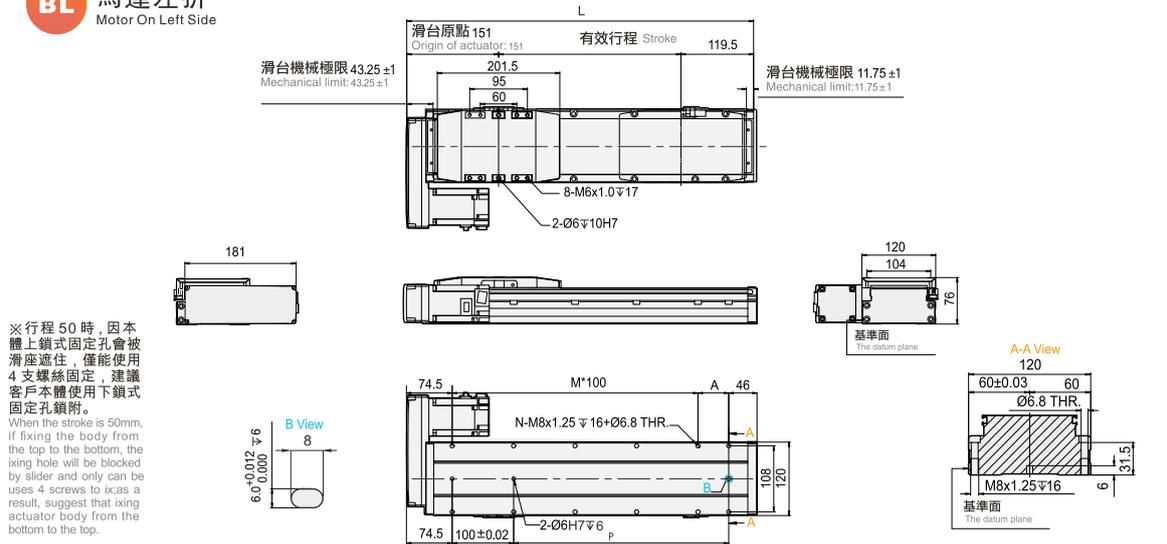
馬達左折/馬達右折 Motor Left/Motor Right

2022 綜合型錄



BL 馬達左折 Motor On Left Side

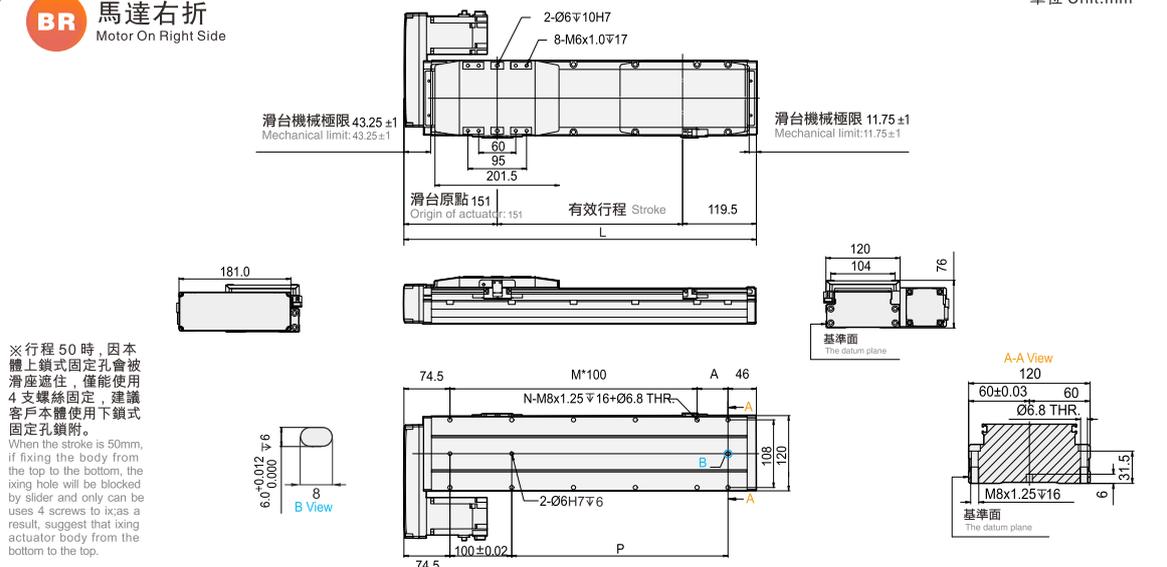
單位 Unit:mm



| 有效行程 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 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| L | 320.5 | 370.5 | 420.5 | 470.5 | 520.5 | 570.5 | 620.5 | 670.5 | 720.5 | 770.5 | 820.5 | 870.5 | 920.5 | 970.5 | 1020.5 | 1070.5 | 1120.5 | 1170.5 | 1220.5 | 1270.5 | 1320.5 | 1370.5 | 1420.5 | 1470.5 | 1520.5 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 |
| P | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 |
| KG | 4.70 | 5.11 | 5.52 | 5.93 | 6.34 | 6.75 | 7.16 | 7.5 | 7.91 | 8.32 | 8.73 | 9.14 | 9.55 | 9.96 | 10.37 | 10.78 | 11.19 | 11.6 | 12.01 | 12.42 | 12.83 | 13.24 | 13.65 | 14.06 | 14.47 |

BR 馬達右折 Motor On Right Side

單位 Unit:mm



| 有效行程 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 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| L | 320.5 | 370.5 | 420.5 | 470.5 | 520.5 | 570.5 | 620.5 | 670.5 | 720.5 | 770.5 | 820.5 | 870.5 | 920.5 | 970.5 | 1020.5 | 1070.5 | 1120.5 | 1170.5 | 1220.5 | 1270.5 | 1320.5 | 1370.5 | 1420.5 | 1470.5 | 1520.5 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 |
| P | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 |
| KG | 4.70 | 5.11 | 5.52 | 5.93 | 6.34 | 6.75 | 7.16 | 7.5 | 7.91 | 8.32 | 8.73 | 9.14 | 9.55 | 9.96 | 10.37 | 10.78 | 11.19 | 11.6 | 12.01 | 12.42 | 12.83 | 13.24 | 13.65 | 14.06 | 14.47 |

GRH15 Series

單軸/1-axis

螺桿驅動
Ball Screw Drive



最大行程
Maximum Stroke 1350mm

最高速度
Maximum Speed 2000mm/s

馬達容量
Motor Output 750w

滾珠螺桿
Ball Screw $\varnothing 20\text{mm}$

型號表示方式 Ordering Method

GRH15 - L5 - 100 - BC - M75B - C4 - 0001

本體型號
Model

| 螺桿導程 Ball Screw Lead | |
|-------------------------|------|
| 5 | 5mm |
| 10 | 10mm |
| 20 | 20mm |
| 40 | 40mm |

| 行程 Stroke |
|------------------|
| 100-1350mm |
| 50間隔 50 mm Pitch |

| 馬達位置 Motor Position | |
|------------------------|---------------------------|
| BC | 馬達外露 Motor Exposed |
| BM | 馬達下折 Motor Bottom Side |
| BL | 馬達左折 Motor Left Side |
| BR | 馬達右折 Motor Right Side |

| 馬達廠牌 Motor Brand | 功率 Power Output | |
|---------------------|--------------------|-----------|
| M | 三菱 Mitsubishi | 75 750W B |
| P | 松下 Panasonic | |
| T | 台達 Delta | |

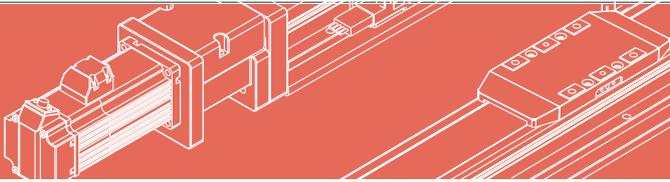
※若無煞車則不表示。※If No Brake, No Description.

| 原點感應器 Home Sensor | |
|----------------------|--------------------------|
| | 外掛型 Out Side |
| C | 馬達側 Motor Side |
| D | 反馬達側 Opposite Motor Side |
| | 無SENSOR No Sensor |
| E | 無 SENSOR No Sensor |

※選擇行程50時, 有以下限制:
When the stroke is 50mm, the sensor installation has the following restrictions:
1. 原點與極限需放置於不同側。
Home sensor and limit sensor has to be installed on the different side of body.
2. 滑座左右兩側皆需安裝感應片。
Both sides of slider need to install the sensor trigger device.

特注式樣
Special Order No.

| 端點極限感應器 Limit Sensor | |
|-------------------------|--------------------|
| | 外掛型 Out Side |
| 3 | 1只 1 Pc |
| 4 | 2只 2 Pc |
| | 無 SENSOR No Sensor |
| 5 | 無 SENSOR No Sensor |



基本仕様 Specification

| | | | | | | |
|----|------------------------------------|-------------------------|---------------|------|------|----|
| 性能 | 位置重複精度 Repeatability (mm) | ±0.01 | | | | |
| | 導程 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 kg Horizontal (kg) | 120 | 120 | 83 | 43 |
| | | 垂直使用 kg Vertical (kg) | 50 | 40 | 25 | 12 |
| | 定格推力 Rated Thrust (N) | 2563 | 1281 | 640 | 320 | |
| 部品 | 標準行程 Stroke Pitch (mm) | 100-1350mm/50間隔 | | | | |
| | AC伺服馬達容量 AC Servo Motor Output (w) | 750W | | | | |
| | 滾珠絲杆外徑 Ball Screw Φ (mm) | C7 Φ 20 | | | | |
| | 連軸器 Coupling (mm) | 12X19 | | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX674(NPN) | | | |

※行程超過750時，會產生螺絲杆擺偏，此時請將速度調降。 *馬達加減速設定0.2秒
 *When the stroke is over 750mm, the run-out of the ballscrew will occur. *Acceleration and deceleration value is set 0.2 second.
 We recommend to low down the working speed under this circumstances.

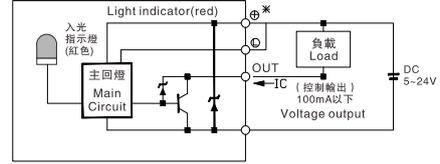
容許負載力距表 N.m Allowable Overhang

| 水平安裝 Horizontal Installation (單位Unit:mm) | | | | 壁掛安裝 Wall Installation (單位Unit:mm) | | | | 垂直安裝 Vertical Installation (單位Unit:mm) | | | |
|--|-------|------|-----|------------------------------------|-------|-----|-----|--|------|------|------|
| 導程 Lead | A | B | C | 導程 Lead | A | B | C | 導程 Lead | A | C | |
| 5 | 70kg | 1800 | 329 | 380 | 70kg | 226 | 223 | 1920 | 20kg | 1168 | 1168 |
| | 90kg | 1637 | 233 | 302 | 90kg | 251 | 253 | 1707 | 30kg | 811 | 811 |
| | 120kg | 1120 | 140 | 210 | 120kg | 180 | 160 | 1210 | 50kg | 510 | 510 |
| 10 | 65kg | 1611 | 318 | 353 | 65kg | 286 | 338 | 1760 | 15kg | 1311 | 1311 |
| | 85kg | 1180 | 232 | 236 | 85kg | 198 | 252 | 1330 | 25kg | 750 | 750 |
| | 120kg | 680 | 154 | 162 | 120kg | 136 | 174 | 750 | 40kg | 507 | 507 |
| 20 | 35kg | 1150 | 392 | 518 | 35kg | 410 | 422 | 1260 | 10kg | 1602 | 1602 |
| | 55kg | 713 | 235 | 308 | 55kg | 250 | 265 | 803 | 14kg | 987 | 987 |
| | 83kg | 470 | 190 | 204 | 83kg | 162 | 210 | 520 | 25kg | 620 | 620 |
| 40 | 15kg | 760 | 680 | 538 | 15kg | 450 | 721 | 810 | 7kg | 1100 | 1100 |
| | 22kg | 500 | 396 | 320 | 22kg | 266 | 421 | 530 | 12kg | 620 | 620 |
| | 43kg | 260 | 231 | 210 | 43kg | 172 | 251 | 280 | | | |

搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watp | 電源電壓 (AC-Voltage) | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---------------|-----------|--------------------------------------|-----------|-------------------|--------------------|--------------------|
| 三菱 Mitsubishi | M | 無煞車(水平仕様) No Brake (Horizontal Type) | 750 | 220 | HG-KR73 | MR-J4-70A |
| | | 有煞車(垂直仕様) With Brake (Vertical Type) | 750 | 220 | HG-KR73B | MR-J4-70A |
| 松下 Panasonic | P | 無煞車(水平仕様) No Brake (Horizontal Type) | 750 | 220 | MSMD082G1U | MADHT3520 |
| | | 有煞車(垂直仕様) With Brake (Vertical Type) | 750 | 220 | MSMD082G1V | MADHT3520 |
| 台達 Delta | T | 無煞車(水平仕様) No Brake (Horizontal Type) | 750 | 220 | ECMA-C20807ES | ASD-B20721-B |
| | | 有煞車(垂直仕様) With Brake (Vertical Type) | 750 | 220 | ECMA-C20807FS | ASD-B20721-B |

感應器接線圖 <原點及端點> Sensor Layout



靜態容許負載慣量 Static Loading Moment

| | (單位Unit:N.m) |
|----|--------------|
| MY | 886 |
| MP | 826 |
| MR | 1500 |

*力矩表所表示的數據，代表重心。
 *The torque value in the chart indicate the center of gravity.
 *符合型錄規範的正常使用下，保證壽命為10000公里。
 *Operation life is 10,000km when the product is using under the specified conditions.
 *倒吊使用無法套用標準規範，如有需求請洽詢我司業務。
 *Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

- 產品資訊 Product Information
- 內嵌式螺絲杆平台 GH1
- 內嵌式空帶平台 GH2
- 內嵌式螺絲杆式螺絲杆平台 GH3
- 內嵌式空光軸螺絲杆平台 GH4
- 內嵌式空光軸螺絲杆平台 GH5
- 標準螺絲杆平台 RH1
- 標準空帶平台 RH2
- 完全螺絲杆平台 RH3
- 完全空帶平台 RH4
- 直掛螺絲杆零組件 LKH
- 軟吊空帶系列 MRB
- 電動缸系列 EC
- 內嵌式星架切齒手 XYGH
- 螺絲杆星架切齒手 XYMH
- 皮帶型星架切齒手 XYMP
- 參考資料 Reference

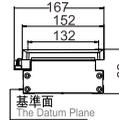
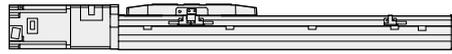
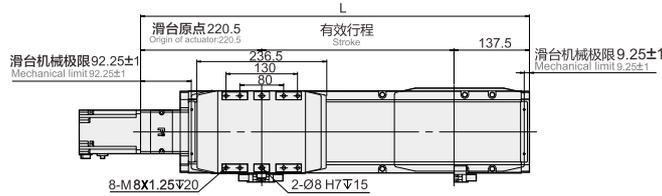
GRH15 Series

單軸/1-axis

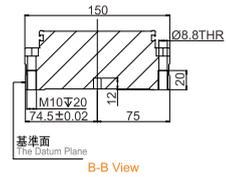
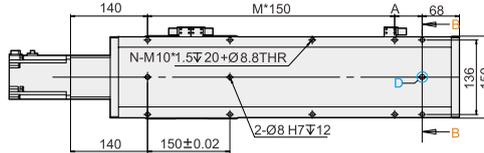
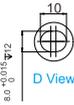
馬達外露/馬達下折
Motor Exposed/Motor On Lower Side

BC 馬達外露 Motor Exposed

單位 Unit:mm



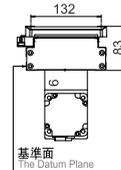
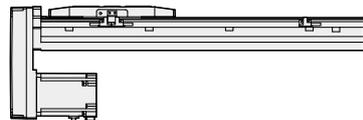
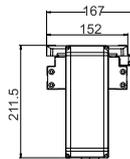
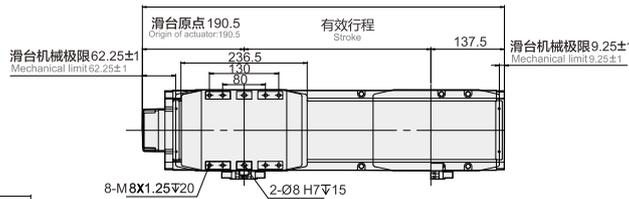
※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.



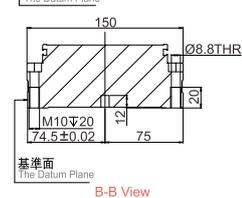
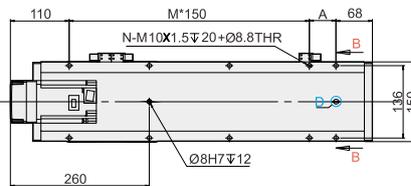
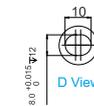
| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 458 | 508 | 558 | 608 | 658 | 708 | 758 | 808 | 858 | 908 | 958 | 1008 | 1058 | 1108 | 1158 | 1208 | 1258 | 1308 | 1358 | 1408 | 1458 | 1508 | 1558 | 1608 | 1658 | 1708 |
| A | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 |
| M | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 9 |
| N | 6 | 6 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 14 | 14 | 14 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 22 | 22 | 22 |
| KG | 5.11 | 5.52 | 5.94 | 6.35 | 6.76 | 7.17 | 7.59 | 8.00 | 8.41 | 8.82 | 9.24 | 9.65 | 10.06 | 10.47 | 10.89 | 11.30 | 11.74 | 12.12 | 12.54 | 12.95 | 13.36 | 13.77 | 14.19 | 14.60 | 15.01 | 15.42 |

BM 馬達下折 Motor On Lower Side

單位 Unit:mm



※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.



| 有效行程 Stroke | 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 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 428 | 478 | 528 | 578 | 628 | 678 | 728 | 778 | 828 | 878 | 928 | 978 | 1028 | 1078 | 1128 | 1178 | 1228 | 1278 | 1328 | 1378 | 1428 | 1478 | 1528 | 1578 | 1628 | 1678 |
| A | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 |
| M | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 9 |
| N | 6 | 6 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 14 | 14 | 14 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 22 | 22 | 22 |
| KG | 5.35 | 5.76 | 6.18 | 6.59 | 7.00 | 7.41 | 7.83 | 8.24 | 8.65 | 9.06 | 9.48 | 9.89 | 10.30 | 10.71 | 11.13 | 11.54 | 11.95 | 12.36 | 12.78 | 13.19 | 13.60 | 14.01 | 14.43 | 14.84 | 15.25 | 15.66 |

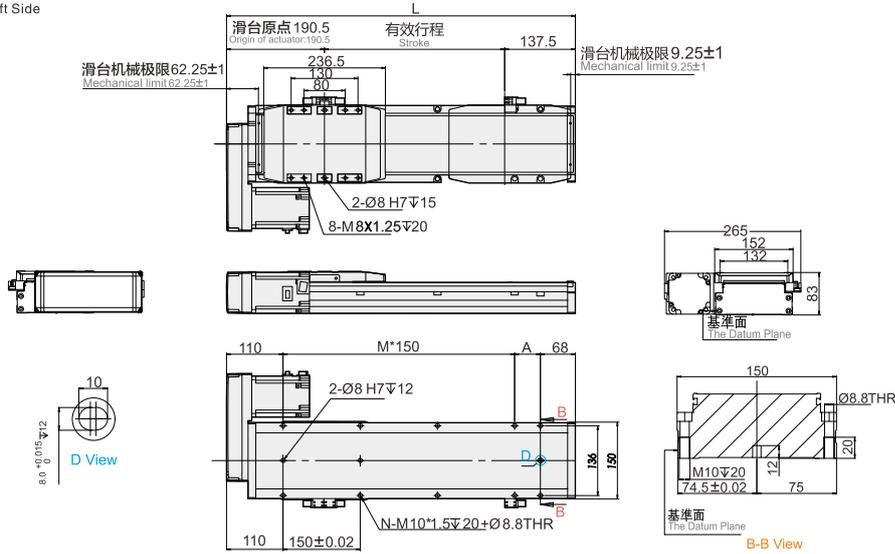
馬達左折/馬達右折 Motor Left/Motor Right

2022 綜合型錄



BL 馬達左折 Motor On Left Side

單位 Unit:mm

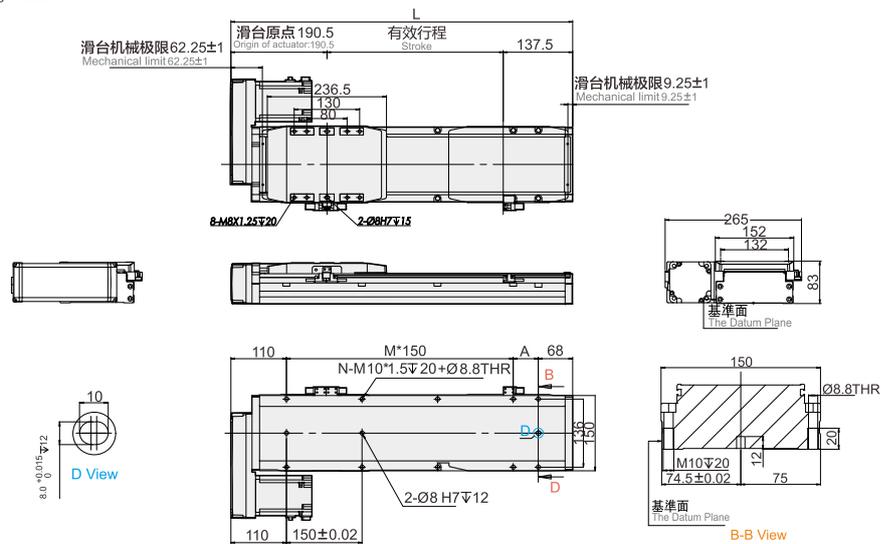


※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 Stroke | 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 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 428 | 478 | 528 | 578 | 628 | 678 | 728 | 778 | 828 | 878 | 928 | 978 | 1028 | 1078 | 1128 | 1178 | 1228 | 1278 | 1328 | 1378 | 1428 | 1478 | 1528 | 1578 | 1628 | 1678 |
| A | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 |
| M | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 9 |
| N | 6 | 6 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 14 | 14 | 14 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 22 | 22 | 22 |
| KG | 5.35 | 5.76 | 6.18 | 6.59 | 7.00 | 7.41 | 7.83 | 8.24 | 8.65 | 9.06 | 9.48 | 9.89 | 10.30 | 10.71 | 11.13 | 11.54 | 11.95 | 12.36 | 12.78 | 13.19 | 13.60 | 14.01 | 14.43 | 14.84 | 15.25 | 15.66 |

BR 馬達右折 Motor On Right Side

單位 Unit:mm



※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 Stroke | 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 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 428 | 478 | 528 | 578 | 628 | 678 | 728 | 778 | 828 | 878 | 928 | 978 | 1028 | 1078 | 1128 | 1178 | 1228 | 1278 | 1328 | 1378 | 1428 | 1478 | 1528 | 1578 | 1628 | 1678 |
| A | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 |
| M | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 9 |
| N | 6 | 6 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 14 | 14 | 14 | 16 | 16 | 16 | 18 | 18 | 18 | 20 | 20 | 20 | 22 | 22 | 22 |
| KG | 5.35 | 5.76 | 6.18 | 6.59 | 7.00 | 7.41 | 7.83 | 8.24 | 8.65 | 9.06 | 9.48 | 9.89 | 10.30 | 10.71 | 11.13 | 11.54 | 11.95 | 12.36 | 12.78 | 13.19 | 13.60 | 14.01 | 14.43 | 14.84 | 15.25 | 15.66 |

- 產品資訊 Product
- 內嵌式大轉角滑台 GH1
- 內嵌式中型滑台 GH2
- 內嵌式迷你式 螺絲滑台 GEO
- 內嵌式五光軸 直線電機 GH
- 內嵌式空心 螺絲滑台 GHC
- 標準型滑台 RM1
- 標準型滑台 RM2
- 空心型滑台 RM3
- 空心型滑台 RM4
- 直線電機 大推力 LHR1
- 直線電機 零轉速 LHM
- 軟性同步系列 LHMV
- 電動缸系列 EC
- 內嵌式 直交伺服手 XY1
- 內嵌式 直交伺服手 XY2
- 皮帶型 直交伺服手 XY3
- 參考資料 Reference



精度
±0.01 mm



最大行程
Maximum Stroke 325mm

最高速度
Maximum Speed 100mm/s

馬達容量
Motor Output 100w

滾珠螺桿
Ball Screw ø12mm

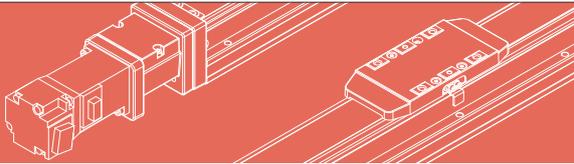
型號表示方式 Ordering Method

GRH5M - L2 - 100 - BC - M10B - C4 - 0001

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------|-----|--|----------|------------------|---|---|---------------|----|---|---|---|--------------|----|------|--|---|------------|----|---|--|---|----------|----|---|--|--|----|---|---|----|------|--|----|---|--|----|---|--|---|--------------|--|---|----------------|---|--------------------------|--|-------------------|---|-------------------|---|--------------|--|---|---------|---|---------|--|--------------------|---|--------------------|
| <p>本體型號 Model</p> <p>螺桿導程 Ball Screw Lead</p> <table border="1"> <tr> <td>2</td> <td>2mm</td> </tr> </table> <p>※反向同動祇能對應導程2mm Dual carriage synchronous movement in reverse direction can only fit at lead of 2mm</p> | 2 | 2mm | <p>行程 Stroke</p> <table border="1"> <tr> <td>25-325mm</td> </tr> <tr> <td>間隔25 25 mm Pitch</td> </tr> </table> | 25-325mm | 間隔25 25 mm Pitch | <p>馬達廠牌 Motor Brand</p> <table border="1"> <tr> <td>M</td> <td>三菱 Mitsubishi</td> <td>05</td> <td>-</td> <td>B</td> </tr> <tr> <td>P</td> <td>松下 Panasonic</td> <td>10</td> <td>100W</td> <td></td> </tr> <tr> <td>Y</td> <td>安川 Yaskawa</td> <td>20</td> <td>-</td> <td></td> </tr> <tr> <td>T</td> <td>台達 Delta</td> <td>40</td> <td>-</td> <td></td> </tr> </table> <p>※若無煞車則不表示。※If No Brake, No Description.</p> | M | 三菱 Mitsubishi | 05 | - | B | P | 松下 Panasonic | 10 | 100W | | Y | 安川 Yaskawa | 20 | - | | T | 台達 Delta | 40 | - | | <p>功率 Power Output</p> <table border="1"> <tr> <td>05</td> <td>-</td> <td>B</td> </tr> <tr> <td>10</td> <td>100W</td> <td></td> </tr> <tr> <td>20</td> <td>-</td> <td></td> </tr> <tr> <td>40</td> <td>-</td> <td></td> </tr> </table> | 05 | - | B | 10 | 100W | | 20 | - | | 40 | - | | <p>原點感應器 Home Sensor</p> <table border="1"> <tr> <td>外掛型 Out Side</td> <td></td> </tr> <tr> <td>C</td> <td>馬達側 Motor Side</td> </tr> <tr> <td>D</td> <td>反馬達側 Opposite Motor Side</td> </tr> <tr> <td></td> <td>無SENSOR No Sensor</td> </tr> <tr> <td>E</td> <td>無SENSOR No Sensor</td> </tr> </table> <p>※選擇行程25/50/75時，有以下限制 When the stroke is 25/50/75 the sensor installation has the following restrictions: 1. 原點與極限需放置於不同側。 Home sensor and limit sensor has to be installed on the different side of body. 2. 滑座左右兩側皆需安裝感應片。 Both sides of slider need to install the sensor trigger device.</p> | 外掛型 Out Side | | C | 馬達側 Motor Side | D | 反馬達側 Opposite Motor Side | | 無SENSOR No Sensor | E | 無SENSOR No Sensor | <p>端點極限感應器 Limit Sensor</p> <table border="1"> <tr> <td>外掛型 Out Side</td> <td></td> </tr> <tr> <td>3</td> <td>1只 1 Pc</td> </tr> <tr> <td>4</td> <td>2只 2 Pc</td> </tr> <tr> <td></td> <td>無 SENSOR No Sensor</td> </tr> <tr> <td>5</td> <td>無 SENSOR No Sensor</td> </tr> </table> | 外掛型 Out Side | | 3 | 1只 1 Pc | 4 | 2只 2 Pc | | 無 SENSOR No Sensor | 5 | 無 SENSOR No Sensor |
| 2 | 2mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25-325mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 間隔25 25 mm Pitch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M | 三菱 Mitsubishi | 05 | - | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | 松下 Panasonic | 10 | 100W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Y | 安川 Yaskawa | 20 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T | 台達 Delta | 40 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 05 | - | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 100W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 外掛型 Out Side | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 馬達側 Motor Side | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 反馬達側 Opposite Motor Side | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 無SENSOR No Sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | 無SENSOR No Sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 外掛型 Out Side | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1只 1 Pc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2只 2 Pc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 無 SENSOR No Sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 無 SENSOR No Sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

馬達位置
Motor Position

| | |
|----|---------------------------|
| BC | 馬達外露 Motor Exposed |
| BM | 馬達下折 Motor Bottom Side |
| BL | 馬達左折 Motor Left Side |
| BR | 馬達右折 Motor Right Side |

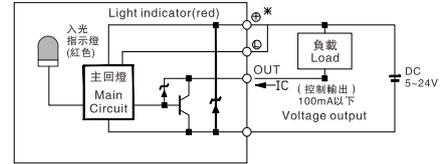


基本仕様 Specification

| | | | | |
|----|--------------------------------------|---------------------------|------------------------|--|
| 性能 | 位置重複精度 Repeatability (mm) | ±0.01 | | |
| | 導程 Lead (mm) | 2 | | |
| | 最高速度 Maximum Speed (mm/s)※1 | 100 | | |
| | 最大可搬重量 Maximum Payload | 水平使用 kg Horizontal (kg) | 30 (雙滑座 Dual carriage) | |
| | | 垂直使用 kg Vertical (kg) | 10 (雙滑座 Dual carriage) | |
| | 定格推力 Rated Thrust (N) | 854 | | |
| | 標準行程 Stroke Pitch (mm)※2 | 25-325mm / 25 25 mm Pitch | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output (w) | 100 | | |
| | 滾珠絲杆外徑 Ball Screw \varnothing (mm) | C7 Φ 12 | | |
| | 連軸器 Coupling (mm) | 7X8 | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX674(NPN) | |

※1 馬達加減速設定 0.2 秒。
Acceleration and deceleration value is set 0.2 second.
※2 反向同動只能對應導程 2。
Dual carriage synchronous movement in reverse direction can only fit at lead of 2mm.

感應器接線圖 <原點及端點> Sensor Layout



容許負載力距表 N.m Allowable Overhang

| (單位Unit:mm) | | | | (單位Unit:mm) | | | | (單位Unit:mm) | | |
|------------------------------|-----|-----|-----|------------------------|-----|-----|-----|----------------------------|-----|-----|
| 水平安裝 Horizontal Installation | | | | 壁掛安裝 Wall Installation | | | | 垂直安裝 Vertical Installation | | |
| 導程 2 Lead | A | B | C | 導程 2 Lead | A | B | C | 導程 2 Lead | A | C |
| 10kg | 900 | 100 | 135 | 10kg | 135 | 100 | 900 | 6kg | 180 | 180 |
| 20kg | 700 | 45 | 60 | 20kg | 60 | 45 | 700 | 8kg | 135 | 135 |
| 30kg | 550 | 25 | 35 | 30kg | 37 | 27 | 550 | 10kg | 110 | 110 |

靜態容許負載慣量 Static Loading Moment

| (單位Unit:N.m) | |
|--------------|-----|
| MY | 103 |
| MP | 103 |
| MR | 144 |

* 力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
* 符合型錄規範的正常使用下，保證壽命為 10000 公里。
Operation life is 10,000km when the product is using under the specified conditions.
* 倒吊使用無法套用標準規範，如有需求請洽詢我司業務。
Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watp | 電源電壓 (AC-Voltage) | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---------------|-----------|--------------------------------------|-----------|-------------------|--------------------|--------------------|
| 三菱 Mitsubishi | M | 無煞車(水平仕様) No Brake (Horizontal Type) | 100 | 220 | HG-KR13 | MR-J4-10A |
| | | 有煞車(垂直仕様) With Brake (Vertical Type) | 100 | 220 | HG-KR13B | MR-J4-10A |
| 松下 Panasonic | P | 無煞車(水平仕様) No Brake (Horizontal Type) | 100 | 220 | MHMD012G1U | MADHT1505 |
| | | 有煞車(垂直仕様) With Brake (Vertical Type) | 100 | 220 | MHMD012G1V | MADHT1505 |
| 台達 Delta | T | 無煞車(水平仕様) No Brake (Horizontal Type) | 100 | 220 | ECMA-C20401ES | ASD-B20121-B |
| | | 有煞車(垂直仕様) With Brake (Vertical Type) | 100 | 220 | ECMA-C20401FS | ASD-B20121-B |

產品資訊 Product Information
內嵌式螺絲滑台 GH1
內嵌式空帶滑台 GH2
內嵌式螺絲杆式螺絲滑台 GEC
內嵌式空光軸直線電機 GH
內嵌式安全螺絲滑台 GAC
標準螺絲滑台 RMA
標準空帶滑台 RMB
完全螺絲滑台 RMD
完全空帶滑台 RMB
直線電機 LRF
直線電機 LHM
軟風扇系列 MFR
電動缸系列 EC
內嵌式直交伺服手 XYCH
螺絲杆式直交伺服手 XVM
皮帶型直交伺服手 XVMF
參考資料 Reference

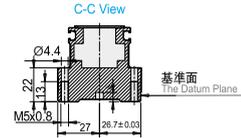
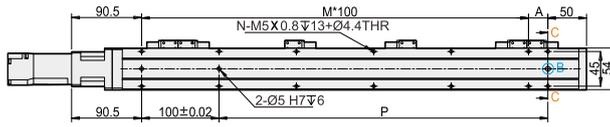
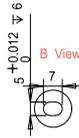
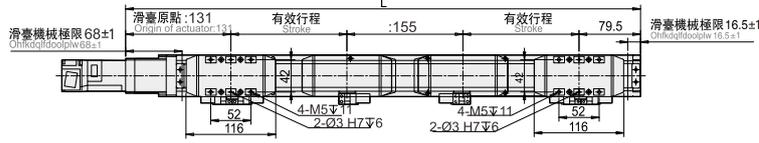
GRH5M Series

單軸/1-axis

馬達外露/馬達下折
Motor Exposed/Motor On Lower Side

BC 馬達外露 Motor Exposed

單位 Unit:mm

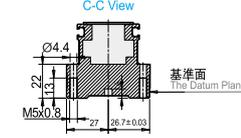
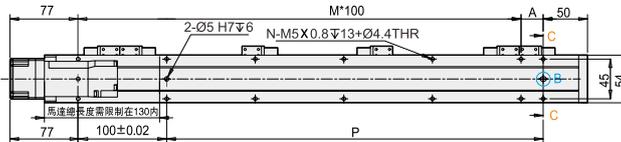
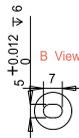
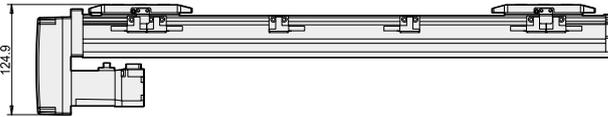
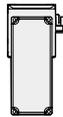
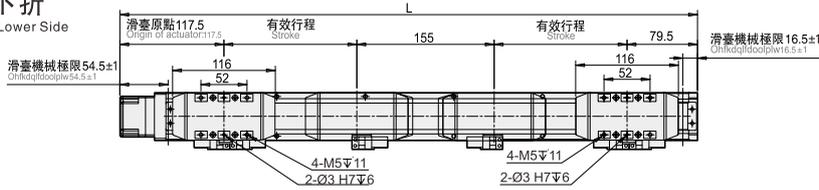


※行程 25 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 Stroke | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| L | 415.5 | 465.5 | 515.5 | 565.5 | 615.5 | 665.5 | 715.5 | 765.5 | 815.5 | 865.5 | 915.5 | 965.5 | 1015.5 |
| 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 |
| KG | 2.75 | 2.94 | 3.13 | 3.32 | 3.51 | 3.7 | 3.89 | 4.08 | 4.27 | 4.46 | 4.65 | 4.84 | 5.03 |

BM 馬達下折 Motor On Lower Side

單位 Unit:mm



※行程 25 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 Stroke | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 |
|-------------|-----|------|------|------|------|------|------|------|------|------|-----|------|------|
| L | 402 | 452 | 502 | 552 | 602 | 652 | 702 | 752 | 802 | 852 | 902 | 952 | 1002 |
| 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 |
| KG | 3 | 3.19 | 3.38 | 3.57 | 3.76 | 3.95 | 4.14 | 4.33 | 4.52 | 4.71 | 4.9 | 5.09 | 5.28 |

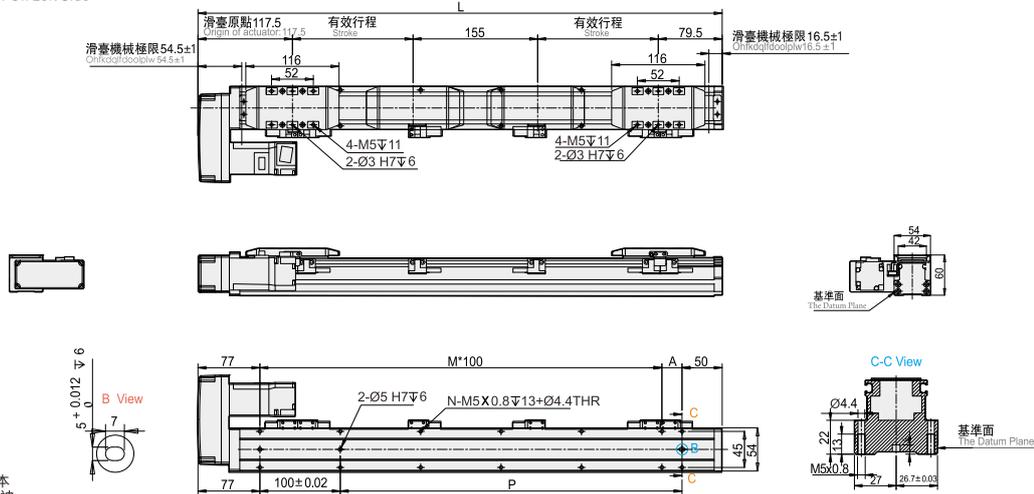
馬達左折/馬達右折 Motor Left/Motor Right

2022 綜合型錄



BL 馬達左折 Motor On Left Side

單位 Unit:mm

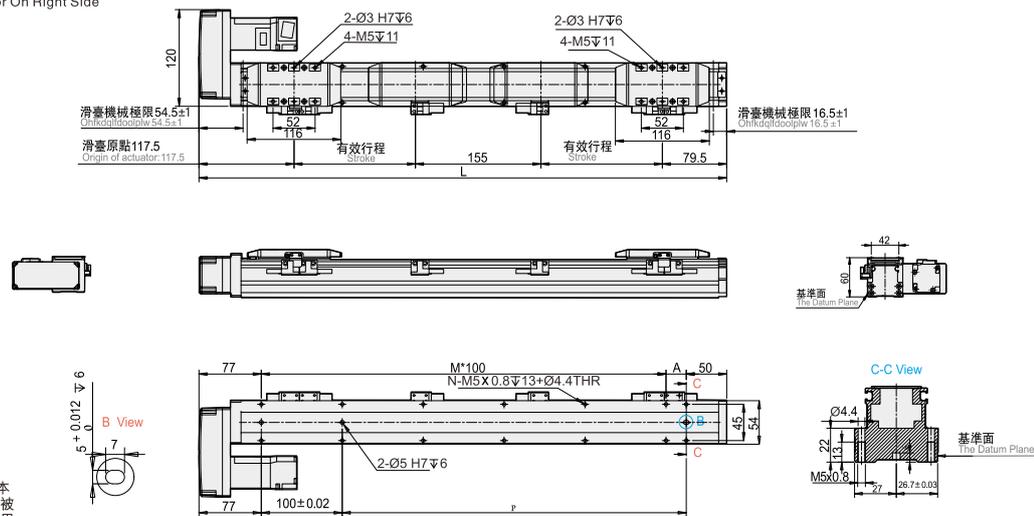


※行程 25 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix, as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 Stroke | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 |
|----------------|-----|------|------|------|------|------|------|------|------|------|-----|------|------|
| L | 402 | 452 | 502 | 552 | 602 | 652 | 702 | 752 | 802 | 852 | 902 | 952 | 1002 |
| 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 |
| KG | 3 | 3.19 | 3.38 | 3.57 | 3.76 | 3.95 | 4.14 | 4.33 | 4.52 | 4.71 | 4.9 | 5.09 | 5.28 |

BR 馬達右折 Motor On Right Side

單位 Unit:mm



※行程 25 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix, as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 Stroke | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 |
|----------------|-----|------|------|------|------|------|------|------|------|------|-----|------|------|
| L | 402 | 452 | 502 | 552 | 602 | 652 | 702 | 752 | 802 | 852 | 902 | 952 | 1002 |
| 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 |
| KG | 3 | 3.19 | 3.38 | 3.57 | 3.76 | 3.95 | 4.14 | 4.33 | 4.52 | 4.71 | 4.9 | 5.09 | 5.28 |



精度
±0.01 mm



最大行程
Maximum Stroke 450mm

最高速度
Maximum Speed 250mm/s

馬達容量
Motor Output 200w

滾珠螺桿
Ball Screw ø16mm

型號表示方式 Ordering Method

GRH8M - L5 - 100 - BC - M20B - C4 - 0001

本體型號
Model

特注式樣
Special Order No.

螺桿導程
Ball Screw Lead

5 5mm

※反向同動祇能對應導程5mm
Dual carriage synchronous movement in reverse direction can only fit at lead of 5mm

行程 Stroke

25-450mm

間隔25 25 mm Pitch

馬達位置
Motor Position

| | |
|----|---------------------------|
| BC | 馬達外露 Motor Exposed |
| BM | 馬達下折 Motor Bottom Side |
| BL | 馬達左折 Motor Left Side |
| BR | 馬達右折 Motor Right Side |

馬達廠牌
Motor Brand

| | | | | |
|---|---------------|----|------|---|
| M | 三菱 Mitsubishi | 05 | - | B |
| P | 松下 Panasonic | 10 | - | |
| Y | 安川 Yaskawa | 20 | 200W | |
| T | 台達 Delta | 40 | - | |

※若無煞車則不表示。※If No Brake, No Description.

功率
Power Output

原點感應器
Home Sensor

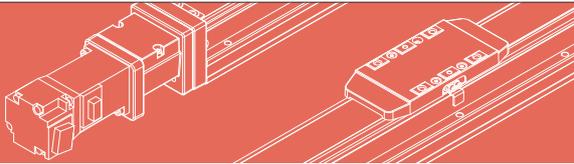
| | |
|-------------------|--------------------------|
| 外掛型 Out Side | |
| C | 馬達側 Motor Side |
| D | 反馬達側 Opposite Motor Side |
| 無SENSOR No Sensor | |
| E | 無 SENSOR No Sensor |

※選擇行程25/50/75時，有以下限制
When the stroke is 25/50/75 the sensor installation has the following restrictions:

1. 原點與極限需放置於不同側。
Home sensor and limit sensor has to be installed on the different side of body.
2. 滑座左右兩側皆需安裝感應片。
Both sides of slider need to install the sensor trigger device.

端點極限感應器
Limit Sensor

| | | |
|--------------------|--------------------|------|
| 外掛型 Out Side | | |
| 3 | 1只 | 1 Pc |
| 4 | 2只 | 2 Pc |
| 無 SENSOR No Sensor | | |
| 5 | 無 SENSOR No Sensor | |



基本仕様 Specification

| | | | |
|---------------------------|--------------------------------------|----------------------------|------------------------|
| 性能 | 位置重複精度 Repeatability (mm) | | ±0.01 |
| | 導程 Lead (mm) | | 5 |
| | 最高速度 Maximum Speed (mm/s) ※1 | | 250 |
| | 最大可搬重量 Maximum Payload | 水平使用 kg Horizontal (kg) | 50 (雙滑座 Dual carriage) |
| | | 垂直使用 kg Vertical (kg) | 15 (雙滑座 Dual carriage) |
| | 定格推力 Rated Thrust (N) | | 683 |
| 標準行程 Stroke Pitch (mm) ※2 | | 25-450mm / 25 25 mm Pitch | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output (w) | | 200 |
| | 滾珠絲杆外徑 Ball Screw \varnothing (mm) | | C7 Φ 16 |
| | 連軸器 Coupling (mm) | | 10 X14/11 |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX674(NPN) |

※1 馬達加減速設定 0.2 秒。

Acceleration and deceleration value is set 0.2 second.

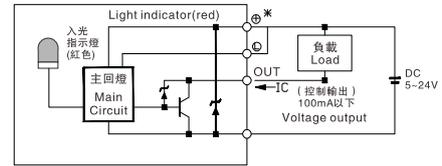
※2 反向向動只能對應導程 5。

Dual carriage synchronous movement in reverse direction can only fit at lead of 2mm.

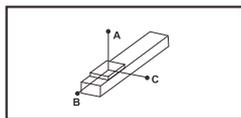
*注1.使用Panasonic 200W馬達時，馬達軸心為 Φ 11；其他廠牌，馬達軸心為 Φ 14。

*Motor (200W) Shaft Diameter: Panasonic: 11mm, Other: 14mm.

感應器接線圖 <原點及端點> Sensor Layout

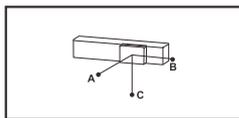


容許負載力距表 N.m Allowable Overhang



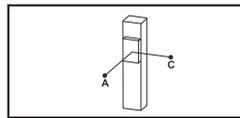
(單位Unit:mm)

| 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 |



(單位Unit:mm)

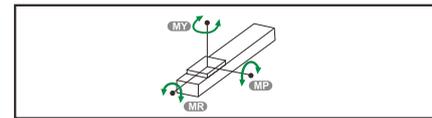
| 壁掛安裝 Wall Installation | | A | B | C |
|---------------------------|------|-----|-----|------|
| 導程 5 Lead | 20kg | 214 | 153 | 1435 |
| | 35kg | 113 | 81 | 845 |
| | 50kg | 74 | 53 | 506 |



(單位Unit:mm)

| 垂直安裝 Vertical Installation | | A | C |
|-------------------------------|------|-----|-----|
| 導程 5 Lead | 10kg | 331 | 331 |
| | 15kg | 220 | 220 |
| | - | - | - |

靜態容許負載慣量 Static Loading Moment



(單位Unit:N.m)

| | |
|----|-----|
| MY | 318 |
| MP | 318 |
| MR | 626 |

* 力距表所表示的數據，代表重心。

The torque value in the chart indicate the center of gravity.

* 符合型錄規範的正常使用下，保證壽命為 10000 公里。

Operation life is 10,000km when the product is using under the specified conditions.

* 倒吊使用無法套用標準規範，如有需求請洽詢我司業務。

Data information is not for ceiling-mount inverse use.

Contact us for the details if you want to apply ceiling-mount inverse usage.

搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watt | 電源電壓 (AC-Voltage) | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|------------------|--------------|---|--------------|----------------------|-----------------------|-----------------------|
| 三菱 Mitsubishi | M | 無煞車(水平仕樣) No Brake (Horizontal Type) | 200 | 220 | HG-KR23 | MR-J4-20A |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 200 | 220 | HG-KR23B | MR-J4-20A |
| 松下 Panasonic | P | 無煞車(水平仕樣) No Brake (Horizontal Type) | 200 | 220 | MHMD022G1U | MADHT1507 |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 200 | 220 | MHMD022G1V | MADHT1507 |
| 台達 Delta | T | 無煞車(水平仕樣) No Brake (Horizontal Type) | 200 | 220 | ECMA-C20602ES | ASD-B20221-B |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 200 | 220 | ECMA-C20602FS | ASD-B20221-B |

產品資訊
Product
內嵌式螺絲平台
In-Board
GH
內嵌式空滑台
In-Board
GH
內嵌式螺絲平台
In-Board
GH
內嵌式空滑台
In-Board
GH
標準螺絲平台
Standard
RH
標準空滑台
Standard
RH
標準空滑台
Standard
RH
完全螺絲平台
Full
RH
完全空滑台
Full
RH
直掛螺絲
直掛螺絲
零組件
LRH
直掛螺絲
零組件
LRH
吸吊空滑系列
MR
電動螺絲系列
EC
內嵌式
直交伺服手
XYGH
螺絲型
直交伺服手
XYMH
皮帶型
直交伺服手
XYMP
參考資料
Reference

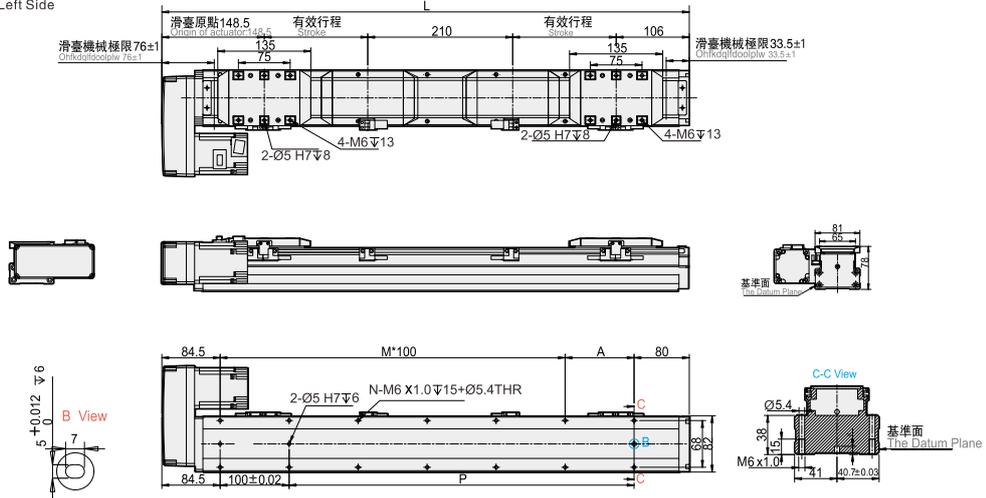
馬達左折/馬達右折 Motor Left/Motor Right

2022 綜合型錄



BL 馬達左折 Motor On Left Side

單位 Unit:mm

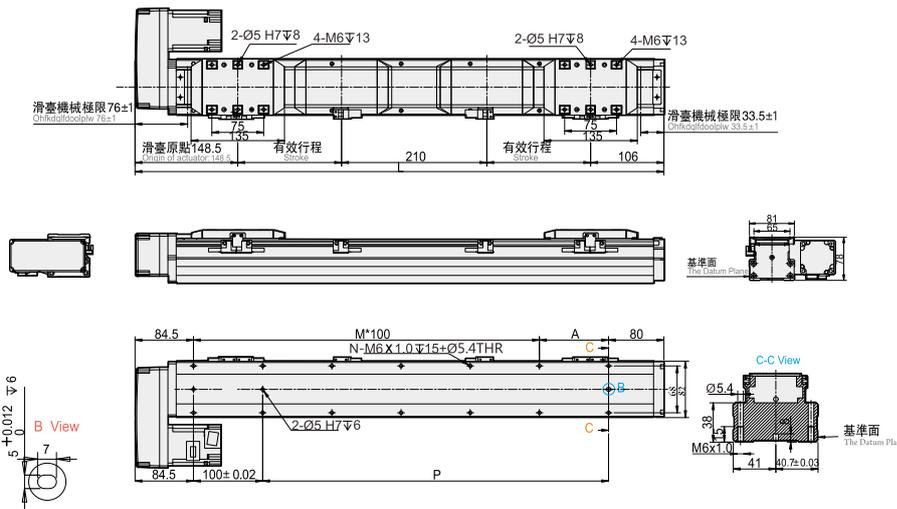


※行程 25 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 Stroke | 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 | 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 |
| 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 | 15.48 | 16 |

BR 馬達右折 Motor On Right Side

單位 Unit:mm



※行程 25 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

| 有效行程 Stroke | 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 | 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 |
| 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 | 15.48 | 16 |

- 產品資訊
- 內嵌式大轉角滑台
- 內嵌式中型滑台
- 內嵌式微型滑台
- 內嵌式推杆式直線電機
- 內嵌式大轉角直線電機
- 內嵌式大轉角推杆滑台
- 標準型滑台
- 標準型推杆滑台
- 無外鎖式滑台
- 無外鎖式推杆滑台
- 無外鎖式大轉角滑台
- 直線電機
- 直線電機零組件
- 電動馬達系列
- 內嵌式直線電機
- 推杆式直線電機
- 皮帶傳動
- 參考資料

GRH12M Series

單軸/1-axis

螺桿驅動
Ball Screw Drive



最大行程
Maximum Stroke **600mm**

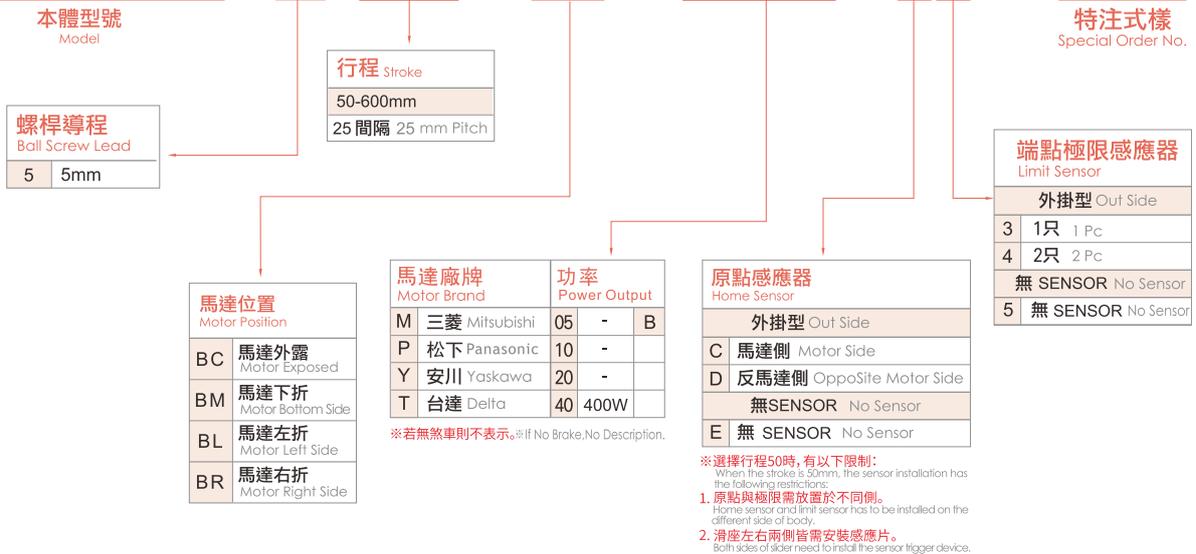
最高速度
Maximum Speed **250mm/s**

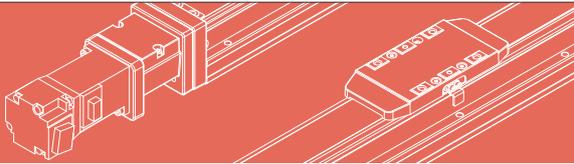
馬達容量
Motor Output **400w**

滾珠螺桿
Ball Screw **ø16mm**

型號表示方式 Ordering Method

GRH12M - L5 - 100 - BC - M40B - C4 - 0001





基本仕様 Specification

| | | | | |
|----|--------------------------------------|-------------------------|---------------|--|
| 性能 | 位置重複精度 Repeatability (mm) | ± 0.01 | | |
| | 導程 Lead (mm) | 5 | | |
| | 最高速度 Maximum Speed (mm/s) | 250 | | |
| | 最大可搬重量 Maximum Payload | 水平使用 kg Horizontal (kg) | 110 (双滑座) | |
| | | 垂直使用 kg Vertical (kg) | 33 (双滑座) | |
| | 定格推力 Rated Thrust (N) | 1388 | | |
| | 標準行程 Stroke Pitch (mm) | 50-1250mm (25間隔) | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output (w) | 400W | | |
| | 滾珠絲杆外徑 Ball Screw \varnothing (mm) | C7 Φ 16 | | |
| | 連軸器 Coupling (mm) | 10X14 (注1) | | |
| | 原點感應器 Home Sensor | 外挂 Outside | EE-SX674(NPN) | |

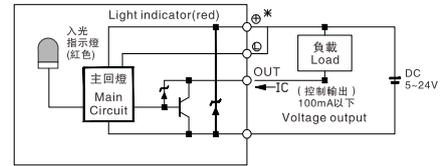
※行程超過750時，會產生螺桿偏擺，此時請將速度調降。 *馬達加減速設定0.2秒
 *When the stroke is over 750mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances. *Acceleration and deceleration value is set 0.2 second.

*注1:使用Panasonic 200W馬達時，馬達軸心為 Φ 11；其他廠牌，馬達軸心為 Φ 14。
 *Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

容許負載力距表 N.m Allowable Overhang

| 水平安裝 (單位Unit:mm) | | | | 壁掛安裝 (單位Unit:mm) | | | | 垂直安裝 (單位Unit:mm) | | |
|------------------|------|-----|-----|------------------|-----|-----|------|------------------|------|------|
| 導程 5 lead | A | B | C | 導程 5 lead | A | B | C | 導程 5 lead | A | C |
| 60kg | 2850 | 250 | 340 | 55kg | 280 | 280 | 3300 | 15kg | 1200 | 1200 |
| 80kg | 2100 | 180 | 250 | 75kg | 200 | 190 | 2400 | 22kg | 820 | 820 |
| 110kg | 1500 | 120 | 170 | 110kg | 130 | 125 | 1550 | 33kg | 550 | 550 |

感應器接線圖 <原點及端點> Sensor Layout



靜態容許負載慣量 Static Loading Moment

| (單位Unit:N.m) | |
|--------------|------|
| MY | 606 |
| MP | 606 |
| MR | 1168 |

*力矩表所表示的數據，代表重心。
 *The torque value in the chart indicate the center of gravity.
 *符合型錄規範的正常使用下，保證壽命為10000公里。
 *Operation life is 10,000km when the product is using under the specified conditions.
 *倒吊使用無法套用標準規範，如有需求請洽詢我司業務。
 *Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watp | 電源電壓 (AC-Voltage) | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---------------|-----------|--------------------------------------|-----------|-------------------|--------------------|--------------------|
| 三菱 Mitsubishi | M | 無煞車(水平仕様) No Brake (Horizontal Type) | 400 | 220 | HG-KR43 | MR-J4-40A |
| | | 有煞車(垂直仕様) With Brake (Vertical Type) | 400 | 220 | HG-KR43B | MR-J4-40A |
| 松下 Panasonic | P | 無煞車(水平仕様) No Brake (Horizontal Type) | 400 | 220 | MHMD042G1U | MADHT2510 |
| | | 有煞車(垂直仕様) With Brake (Vertical Type) | 400 | 220 | MHMD042G1V | MADHT2510 |
| 台達 Delta | T | 無煞車(水平仕様) No Brake (Horizontal Type) | 400 | 220 | ECMA-C20604ES | ASD-B20421-B |
| | | 有煞車(垂直仕様) With Brake (Vertical Type) | 400 | 220 | ECMA-C20604FS | ASD-B20421-B |

- 產品資訊 Product
- 內嵌式螺桿滑台 GH
- 內嵌式空滑台 SH
- 內嵌式螺桿式螺絲滑台 GEO
- 內置式充光軸直線電機 GH
- 內置式空滑台螺絲滑台 GAC
- 標準螺桿滑台 RMH
- 標準空滑台 RHP
- 完全螺桿滑台 RMD
- 完全空滑台 RHP
- 直線電機 LPH
- 直線電機零組件 LHM
- 軟面空滑系列 MHR
- 電池式系列 EC
- 內置式螺絲滑台 XYGH
- 螺桿型直交軸滑台 XVM
- 皮帶型直交軸滑台 XVMp
- 參考資料 Reference

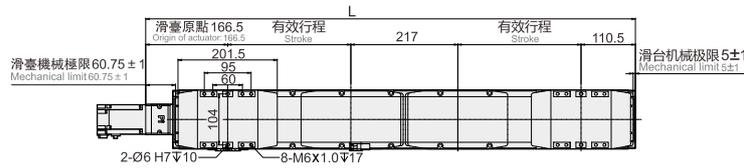
GRH12M Series

單軸/1-axis

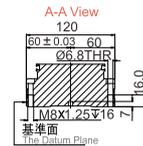
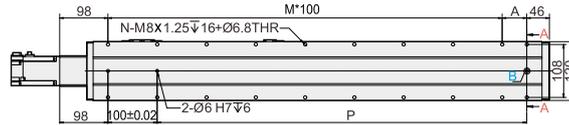
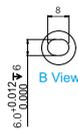
馬達外露/馬達下折
Motor Exposed/Motor On Lower Side

BC 馬達外露 Motor Exposed

單位 Unit:mm



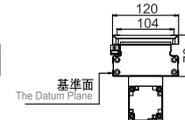
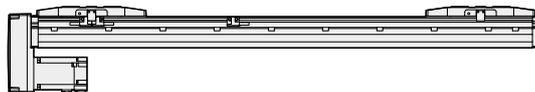
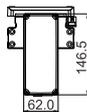
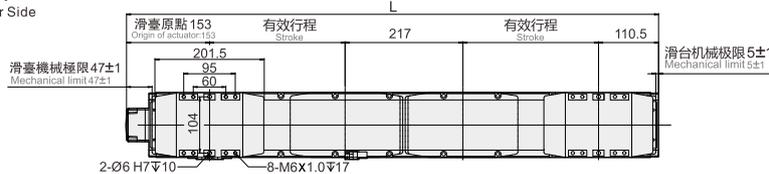
※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the ixing hole will be blocked by slider and only can be uses 4 screws to icas a result, suggest that ixing actuator body from the bottom to the top.



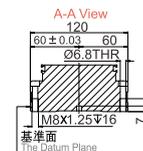
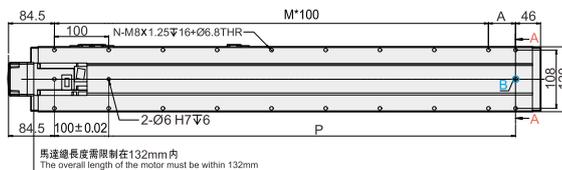
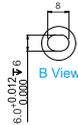
| 有效行程 Stroke | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 | 475 | 500 | 525 | 550 | 575 | 600 |
|----------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 594 | 644 | 694 | 744 | 794 | 844 | 894 | 944 | 994 | 1044 | 1094 | 1144 | 1194 | 1244 | 1294 | 1344 | 1394 | 1444 | 1494 | 1544 | 1594 | 1644 | 1694 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |
| M | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 15 |
| N | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 | 32 | 32 | 34 |
| P | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1050 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 |
| KG | 7.86 | 8.22 | 8.58 | 8.94 | 9.30 | 9.65 | 10.01 | 10.37 | 10.73 | 11.09 | 11.44 | 11.80 | 12.16 | 12.88 | 12.88 | 13.23 | 13.59 | 13.95 | 14.31 | 14.67 | 15.02 | 15.38 | 15.74 |

BM 馬達下折 Motor On Lower Side

單位 Unit:mm



※行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the ixing hole will be blocked by slider and only can be uses 4 screws to icas a result, suggest that ixing actuator body from the bottom to the top.



| 有效行程 Stroke | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 | 475 | 500 | 525 | 550 | 575 | 600 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| L | 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 | 1580.5 | 1630.5 | 1680.5 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |
| M | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 15 |
| N | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 | 32 | 32 | 34 |
| P | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 |
| KG | 8.06 | 8.42 | 8.78 | 9.14 | 9.50 | 9.85 | 10.21 | 10.57 | 10.98 | 11.29 | 11.64 | 12.00 | 12.36 | 12.72 | 13.08 | 13.43 | 13.79 | 14.15 | 14.51 | 14.87 | 15.22 | 15.58 | 15.94 |

MEMO