# JES22

750W伺服電機
單軸/1-axis

螺桿驅動
Ball Screw Drive

此圖僅供參考，出貨規格詳見尺寸圖面
The picture is just for the reference. Please check the the actual dimensions on the drawing.

| 最大行程 Maximum Stroke | 最高速度 Maximum Speed | 馬達容量 Motor Output | 滾珠螺桿 Ball Screw | 直線滑軌 Linear Guide |
|---|---|---|---|---|
| 1500mm | 2000mm/s | 750W | Ø25mm | 23X20-2支 |

## 型號表示方式 Ordering Method

JES22 - L5 - 100 - BC - T750W - C 4 - MB-3M

**本體型號** Model

**螺桿導程** Ball Screw Lead

| | |
|---|---|
| 05 | 05mm |
| 10 | 10mm |
| 25 | 25mm |
| 40 | 40mm |

**行程** Stroke

| |
|---|
| 50-1500mm |
| 50間隔 50 mm Pitch |

**馬達位置** Motor Position

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

**電機安裝標准** Motor installation

| | |
|---|---|
| T | 通用马达安装标准: |
| | 三菱 Mitsubishi |
| | 台達 Delta |
| | 安川 Yaskawa |
| | 汇川 Inovance |
| | 等等 Etc |
| P | 松下马达安装标准 |

**馬達容量** Motor Output

| | |
|---|---|
| 100W | - |
| 200W | - |
| 400W | - |
| 750W | 750W |

**原點感應器** Home Sensor

| | |
|---|---|
| 內置型 In Side | |
| A | 馬達側 Motor Side |
| B | 反馬達側 OppoSite Motor Side |
| 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 |

**端點極限感應器** Limit Sensor

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

**馬達廠牌** Motor Brand

| | |
|---|---|
| MB-3M | 含电机，厂家安装三菱带刹车电机，线长3米 |
| ZMB | 不含电机,客户自己安装三菱带刹车电机 |
| KMB | 不含电机,客户提供三菱带刹车电机,厂家安装 |

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

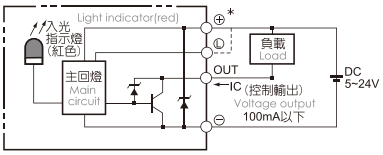
## 基本仕樣 Specification

| | | | | | | |
|---|---|---|---|---|---|---|
| 規格 Spec | 位置重複精度 Repeatability (mm) | | ±0.01 | | | |
| | 螺桿導程 Ball Screw Lead (mm) | | 5 | 10 | 25 | 40 |
| | 最高速度 Maximum Speed (mm/s) | | 250 | 500 | 1250 | 2000 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 150 | 150 | 105 | 43 |
| | | 垂直使用 Vertical (kg) | 55 | 45 | 20 | 12 |
| | 定格推力 Rated Thrust (N) | | 2563 | 1281 | 640 | 320 |
| | 標準行程 Stroke Pitch (mm) | | 50-1500mm/50間隔 50 mm Pitch | | | |
| 部品 Parts | AC伺服馬達容量 AC Servo Motor Output (W) | | 750 | | | |
| | 滾珠螺桿外徑 Ball Screw Ø (mm) | | C7 $\phi$ 25 | | | C7 $\phi$ 20 |
| | 高剛性直線滑軌 High Rigidity Linear Guide (mm) | | W23XH20 | | | |
| | 連軸器 Coupling (mm) | | 17X19 | | | 12X19 |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX672(NPN)/FC-SPX303Z-2M(NPN) | | | |
| | | 內置 Built-In | EE-SX674(NPN)/FC-SPX307Z-2M(NPN) | | | |

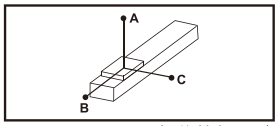
※行程超過900時，會產生螺桿偏擺，此時請將速度調降。
When the stroke is over 900mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

※馬達加減速設定0.2秒。
Acceleration and deacceleration value is set 0.2 second.

## 感應器接線圖<原點及端點> Sensor Layout

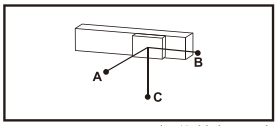



## 容許負載力距表 Allowable Overhang



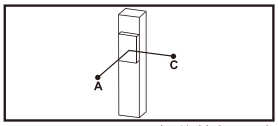

(單位 Unit : mm)

| 水平安裝 Horizontal Installation | | A | B | C |
|---|---|---|---|---|
| 導程 5 Lead | 100 | 5000 | 633 | 557 |
| | 125 | 3880 | 491 | 431 |
| | 150 | 3357 | 396 | 347 |
| 導程 10 Lead | 100 | 3220 | 563 | 474 |
| | 125 | 2554 | 434 | 367 |
| | 150 | 2113 | 349 | 295 |
| 導程 25 Lead | 65 | 1522 | 614 | 458 |
| | 85 | 1136 | 451 | 336 |
| | 105 | 893 | 350 | 262 |
| 導程 40 Lead | 18 | 2445 | 1616 | 1052 |
| | 30 | 1436 | 938 | 613 |
| | 43 | 978 | 630 | 412 |




(單位 Unit : mm)

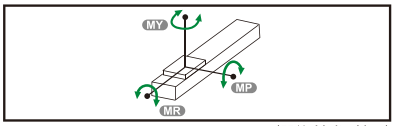
| 壁掛安裝 Wall Installation | | A | B | C |
|---|---|---|---|---|
| 導程 5 Lead | 110 | 500 | 569 | 4500 |
| | 130 | 412 | 469 | 3711 |
| | 150 | 347 | 396 | 3357 |
| 導程 10 Lead | 110 | 427 | 503 | 2900 |
| | 130 | 351 | 414 | 2444 |
| | 150 | 295 | 349 | 2113 |
| 導程 25 Lead | 70 | 420 | 564 | 1404 |
| | 90 | 315 | 420 | 1066 |
| | 105 | 262 | 350 | 893 |
| 導程 40 Lead | 15 | 1272 | 1955 | 2948 |
| | 24 | 778 | 1190 | 1813 |
| | 43 | 412 | 630 | 978 |




(單位 Unit : mm)

| 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|
| 導程 5 Lead | 30 | 2355 | 2355 |
| | 40 | 1768 | 1768 |
| | 55 | 1288 | 1288 |
| 導程 10 Lead | 25 | 2505 | 2505 |
| | 35 | 1795 | 1795 |
| | 45 | 1396 | 1396 |
| 導程 25 Lead | 15 | 2711 | 2711 |
| | 20 | 2033 | 2033 |
| | - | - | - |
| 導程 40 Lead | 7 | 3511 | 3511 |
| | 12 | 2055 | 2055 |
| | - | - | - |

## 靜態容許負載慣量 Static Loading Moment




(單位 Unit : N.m)

| | |
|---|---|
| MY | 2052 |
| MP | 2052 |
| MR | 1810 |

※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

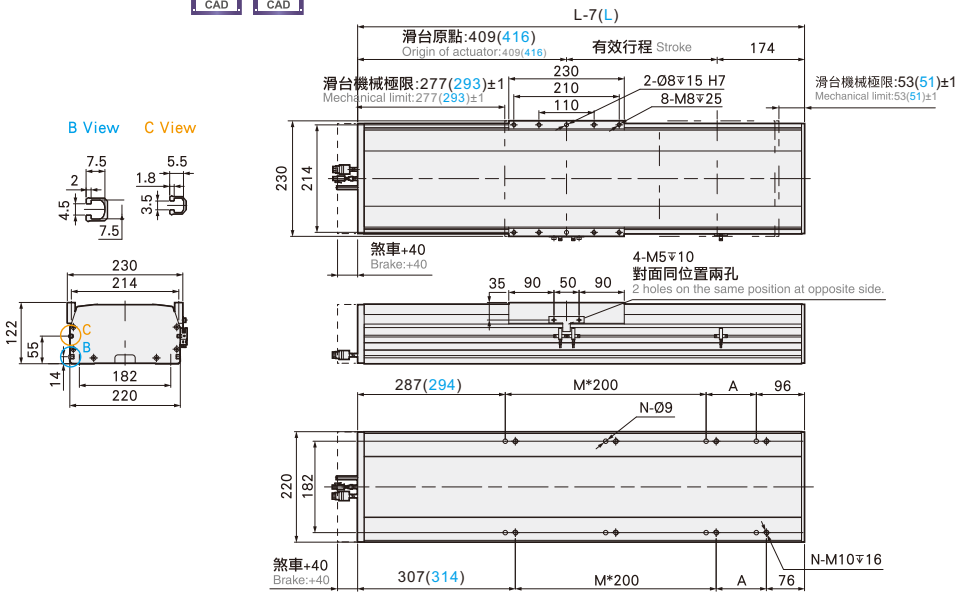
| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watt | 電源電壓 AC-Voltage | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | 無煞車(水平仕樣) No Brake (Horizontal Type) | 750 | 220 | HG-KN73J-S100 | MR-JE-70A |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 750 | 220 | HG-KN73BJ-S100 | MR-JE-70A |
| 松下 Panasonic | P | 無煞車(水平仕樣) No Brake (Horizontal Type) | 750 | 220 | MHMF082L1U2M | MCDLN35SE |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 750 | 220 | MHMF082L1V2M | MCDLN35SE |
| 台達 Delta | T | 無煞車(水平仕樣) No Brake (Horizontal Type) | 750 | 220 | ECM-B3M-C20807RS1 | ASD-B3-0721-L |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 750 | 220 | ECM-B3M-C20807SS1 | ASD-B3-0721-L |

## 馬達直結/馬達外露
Motor Hidden In / Motor Exposed

### M 馬達直結 Motor Hidden In

2D CAD 3D CAD

單位 Unit : mm

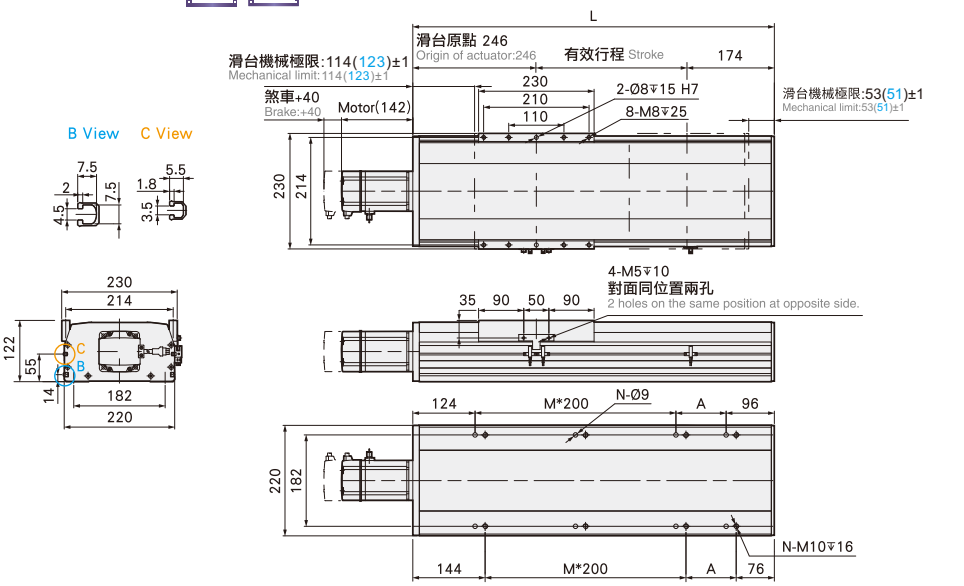



| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 640 | 690 | 740 | 790 | 840 | 890 | 940 | 990 | 1040 | 1090 | 1140 | 1190 | 1240 | 1290 | 1340 | 1390 | 1440 | 1490 | 1540 | 1590 | 1640 | 1690 | 1740 | 1790 | 1840 | 1890 | 1940 | 1990 | 2040 | 2090 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 27.85 | 29.32 | 30.79 | 32.26 | 33.73 | 35.2 | 36.67 | 38.14 | 39.61 | 41.08 | 42.55 | 44.02 | 45.49 | 46.96 | 48.43 | 49.9 | 51.37 | 52.84 | 54.31 | 55.78 | 57.25 | 58.72 | 60.19 | 61.66 | 63.13 | 64.6 | 66.07 | 67.54 | 69.01 | 70.48 |

### BC 馬達外露 Motor Exposed

2D CAD 3D CAD

單位 Unit : mm



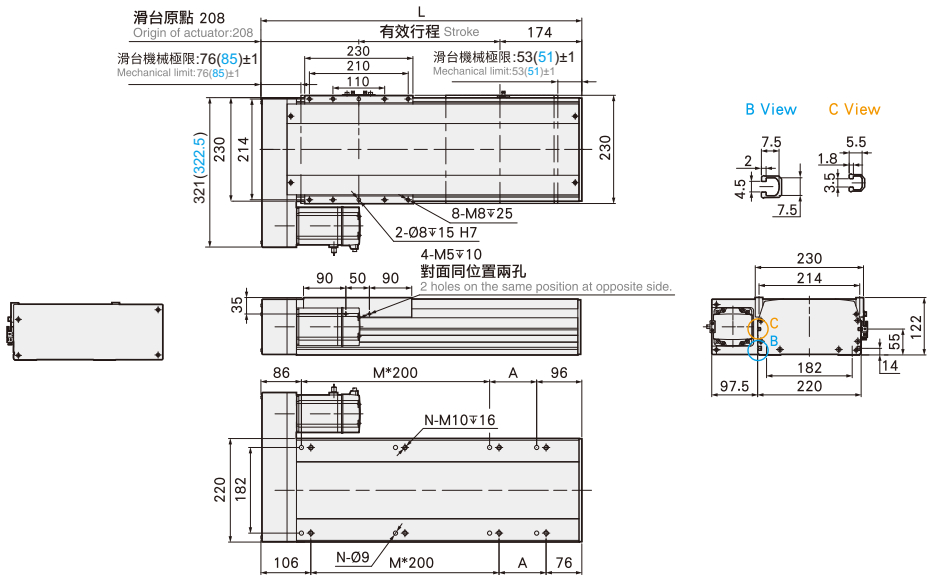

| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 470 | 520 | 570 | 620 | 670 | 720 | 770 | 820 | 870 | 920 | 970 | 1020 | 1070 | 1120 | 1170 | 1220 | 1270 | 1320 | 1370 | 1420 | 1470 | 1520 | 1570 | 1620 | 1670 | 1720 | 1770 | 1820 | 1870 | 1920 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 25.4 | 26.86 | 28.32 | 29.78 | 31.24 | 32.7 | 34.16 | 35.62 | 37.08 | 38.54 | 40 | 41.46 | 42.92 | 44.38 | 45.84 | 47.3 | 48.76 | 50.22 | 51.68 | 53.14 | 54.6 | 56.06 | 57.52 | 58.98 | 60.44 | 61.9 | 63.36 | 64.82 | 66.28 | 67.74 |

# 馬達左折/馬達右折
Motor Left Side / Motor Right Side

單位 Unit : mm

## BL 馬達左折 Motor Left Side

2D CAD 3D CAD

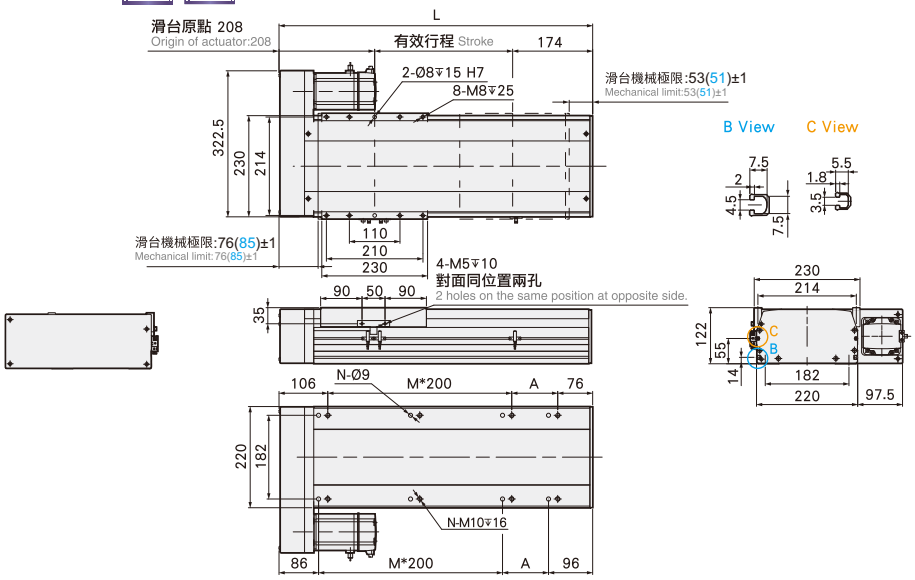



| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 432 | 482 | 532 | 582 | 632 | 682 | 732 | 782 | 832 | 882 | 932 | 982 | 1032 | 1082 | 1132 | 1182 | 1232 | 1282 | 1332 | 1382 | 1432 | 1482 | 1532 | 1582 | 1632 | 1682 | 1732 | 1782 | 1832 | 1882 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 24.2 | 25.66 | 27.12 | 28.58 | 30.04 | 31.5 | 32.96 | 34.42 | 35.88 | 37.34 | 38.8 | 40.26 | 41.72 | 43.18 | 44.64 | 46.1 | 47.56 | 49.02 | 50.48 | 51.94 | 53.4 | 54.86 | 56.32 | 57.78 | 59.24 | 60.7 | 62.16 | 63.62 | 65.08 | 66.54 |

單位 Unit : mm

## BR 馬達右折 Motor Right Side

2D CAD 3D CAD

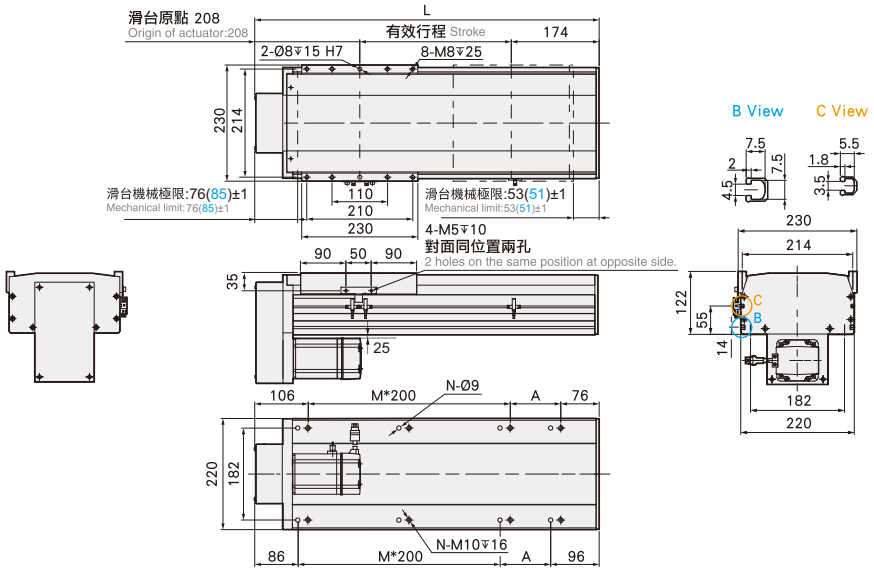



| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 432 | 482 | 532 | 582 | 632 | 682 | 732 | 782 | 832 | 882 | 932 | 982 | 1032 | 1082 | 1132 | 1182 | 1232 | 1282 | 1332 | 1382 | 1432 | 1482 | 1532 | 1582 | 1632 | 1682 | 1732 | 1782 | 1832 | 1882 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 24.2 | 25.66 | 27.12 | 28.58 | 30.04 | 31.5 | 32.96 | 34.42 | 35.88 | 37.34 | 38.8 | 40.26 | 41.72 | 43.18 | 44.64 | 46.1 | 47.56 | 49.02 | 50.48 | 51.94 | 53.4 | 54.86 | 56.32 | 57.78 | 59.24 | 60.7 | 62.16 | 63.62 | 65.08 | 66.54 |

## 馬達下折
Motor Bottom Side

單位 Unit : mm

BM 馬達下折 Motor Bottom Side




| 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 | 1300 | 1350 | 1400 | 1450 | 1500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 432 | 482 | 532 | 582 | 632 | 682 | 732 | 782 | 832 | 882 | 932 | 982 | 1032 | 1082 | 1132 | 1182 | 1232 | 1282 | 1332 | 1382 | 1432 | 1482 | 1532 | 1582 | 1632 | 1682 | 1732 | 1782 | 1832 | 1882 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 24.2 | 25.66 | 27.12 | 28.58 | 30.04 | 31.5 | 32.96 | 34.42 | 35.88 | 37.34 | 38.8 | 40.26 | 41.72 | 43.18 | 44.64 | 46.1 | 47.56 | 49.02 | 50.48 | 51.94 | 53.4 | 54.86 | 56.32 | 57.78 | 59.24 | 60.7 | 62.16 | 63.62 | 65.08 | 66.54 |