

精度
±0.005 mm

最大行程
Maximum Stroke 1100mm

最高速度
Maximum Speed 1200mm/s

马达容量
Motor Output 400W

最大可搬重量
Max Payload 50kg

型号表示方式 Ordering Method

GTH8D- L 5 - 100 - BC - M40B - C 4 - 0001

本体型号
Model

行程
Stroke

转造级
Rolled Ballscrews
50-1250mm
研磨级
Ground Ballscrews
50-700mm
*间隔50 Pitch 50 mm

马达位置
Motor Position

BC 马达外露
Motor Exposed
BM 马达下折
Motor Bottom Side
BR 马达左折
Motor Right Side
BL 马达右折
Motor Left Side

马达厂牌、功率
Motor Brand · Power Output

| | | | | |
|---|---------------|----|------|---|
| M | 三菱 Mitsubishi | 05 | - | B |
| P | 松下 Panasonic | 10 | - | |
| Y | 安川 Yaskawa | 20 | - | |
| T | 台达 Delta | 40 | 400W | |

原点感应器
Home Sensor

外挂型 Outside
C 马达侧 Motor Side
3 1只 1 Pc
D 反马达侧 Opposite Motor Side
4 2只 2 Pc
E 无 SENSOR No Sensor

端点极限感应器
Limit Sensor

外挂型 Outside
3 1只 1 Pc
4 2只 2 Pc
5 无 SENSOR No Sensor

特注式样
Customization Order No.

*选用C研磨级螺杆, 有行程限制, 详见基本式样
C precision-level ground ball screws are not available in all stroke lengths, please consult the model datasheet.

*若无刹车则不表示
If No Brake, No Description.

*选择行程50时, 有以下限制:
When the stroke is 50mm, the sensor installation has the following restrictions:
1. 原点与极限需放置与不同侧。
Home sensor and limit sensor has to be installed on the different side of body.
2. 底座左右两侧均需安装感应片。
Both sides of base need to install the sensor trigger device.

基本式样 Specification

| 性能 | 性能 | | L | | C | | |
|----------------------------------|---|---|--------------------------------------|------|-------------------------------------|--------------|--|
| | 螺杆等级代号 Ballscrew Accuracy Grade Code | | C7 转造 C7 Rolled Ballscrew | | C5 研磨 C5 Ground Ballscrew | | |
| 螺杆等级 Ballscrew Accuracy Grade | | | ± 0.01 | | ±0.005 | | |
| 位置重复精度 Repeatability | mm | | 50-1100mm / 50 间隔 (50 increments) | | 50-700mm / 50 间隔 (50 increments) | | |
| 标准行程 Stroke (increments) | mm | | | | | | |
| 性能 | 螺杆导程 Lead | mm | 5 | 10 | 20 | | |
| | 最高转速 Maximum Rotating speed | rpm | 3600 | 3600 | 3600 | | |
| | 最高速度 Maximum linear speed ^{※1 ※2} | mm/s | 300 | 600 | 1200 | | |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal | kg | 50 | 30 | 18 | |
| | | 垂直使用 Vertical | kg | 15 | 8 | 3 | |
| | 定格推力 Rated Thrust | N | 1388 | 694 | 347 | | |
| | 最大加速度 Maximum acceleration | G | 0.3 | 0.3 | 0.6 | | |
| | 滚珠螺杆 Ball screw | 基本动额定负荷 Basic dynamic load rating Ca | N | - | - | - | |
| | | 基本静额定负荷 Basic static load rating Coa | N | - | - | - | |
| | 直线滑轨 Linear Guide | 动态水平负载 Dynamic horizontal (100km) | N | - | - | - | |
| 静态水平负载 Static Horizontal | | N | - | - | - | | |
| 固定侧轴承 Fixed bearing | 基本静额定负荷 Basic dynamic load rating Cr | N | - | - | - | | |
| | 静态容许负荷 Static load rating Cor | N | - | - | - | | |
| 部品 | AC伺服马达容量 AC Servo Motor Output | W | | | | 400 | |
| | 滚珠螺杆外径 Ball Screw Ø | mm | | | | Ø16 | |
| | 联轴器 Coupling | mm | | | | 10X14 | |
| | 原点感应器 Home Sensor | 外挂 Outside | | | | FF-U674(NPN) | |

※1 马达加减速设定0.2秒, Acceleration and deceleration value is set 0.2 second.
※2 长行程时, 会产生螺杆偏摆, 需将速度降低 (线速度请参考尺寸图下方表格)
During a long stroke, it causes ballscrew deflection, the speed must reduce. (Please refer to the linear velocity from the data sheet below the dimension graph.)

容许负载力距表 Allowable Overhang

| 水平安装 Horizontal Installation | 容许负载力距表 | | | 壁挂安装 Wall Installation | 容许负载力距表 | | | 垂直安装 Vertical Installation | 容许负载力距表 | | |
|---------------------------------|---------|------|-----|---------------------------|---------|-----|-----|-------------------------------|---------|-----|-----|
| | A | B | C | | A | B | C | | A | C | |
| 导程 5 Lead | 20kg | 1275 | 127 | 197 | 20kg | 197 | 127 | 1275 | 5kg | 647 | 647 |
| | 30kg | 725 | 72 | 112 | 30kg | 112 | 72 | 725 | 10kg | 323 | 323 |
| | 50kg | 380 | 38 | 58 | 50kg | 58 | 38 | 380 | 15kg | 215 | 215 |
| 导程 10 Lead | 10kg | 1269 | 246 | 345 | 10kg | 345 | 246 | 1269 | 3kg | 937 | 937 |
| | 20kg | 588 | 104 | 148 | 20kg | 148 | 104 | 588 | 5kg | 561 | 561 |
| | 30kg | 352 | 58 | 82 | 30kg | 82 | 58 | 352 | 8kg | 351 | 351 |
| 导程 20 Lead | 5kg | 988 | 380 | 440 | 5kg | 440 | 380 | 988 | 2kg | 990 | 990 |
| | 10kg | 471 | 174 | 204 | 10kg | 204 | 174 | 471 | 2.5kg | 792 | 792 |
| | 18kg | 248 | 88 | 104 | 18kg | 104 | 88 | 248 | 3kg | 660 | 660 |

静额定扭矩 Static Loading Moment

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

*力矩表所表示的数据, 代表荷重的重心位置单一方向容许悬出的长度。
The data represented by the moment table is the center of gravity of the load. The length of the overhang is allowed in a single direction.
*符合型录规范的正常使用时, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*倒吊使用无法套用标准规范, 如有需求请咨询我司业务。
Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

搭配伺服马达一览表 Suitable Motor Brand

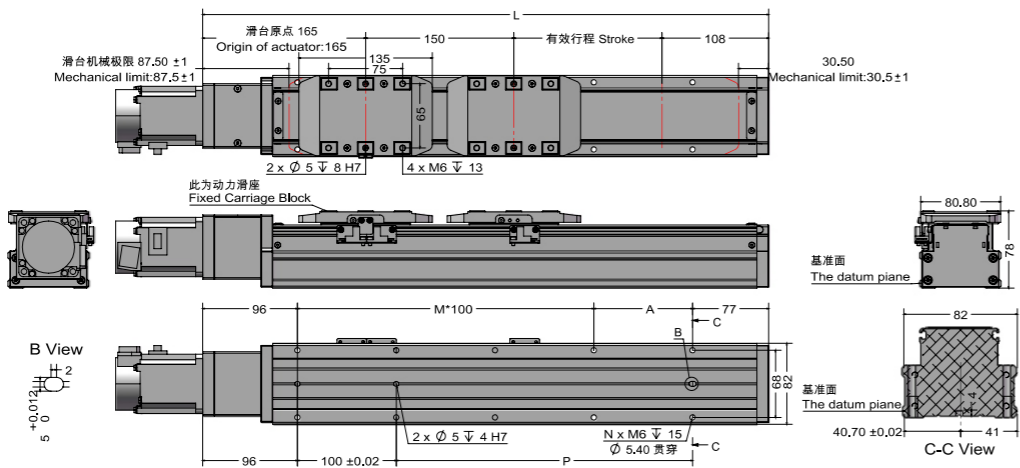
| 厂牌 Brand | 马达记号 Mark | 刹车有无 Brake | 马达容量 Watt | 电源电压 AC-Voltage | 伺服马达型号 Motor Model | 驱动器型号 Driver Model |
|------------------|--------------|--|--------------|--------------------|-----------------------|-----------------------|
| 三菱 Mitsubishi | M | 无刹车 (水平式样) No Brake (Horizontal Type) | 400 | 220 | HG-KR43 | MR-J4-40A |
| | | 有刹车 (垂直式样) With Brake (Vertical Type) | 400 | 220 | HG-KR43B | MR-J4-40A |
| 松下 Panasoni | P | 无刹车 (水平式样) No Brake (Horizontal Type) | 400 | 220 | MHMD042G1U | MBDHT2510 |
| | | 有刹车 (垂直式样) With Brake (Vertical Type) | 400 | 220 | MHMD042G1V | MBDHT2510 |
| 台达 Delta | T | 无刹车 (水平式样) No Brake (Horizontal Type) | 400 | 220 | ECMA-C20604ES | ASD-B20421-B |
| | | 有刹车 (垂直式样) With Brake (Vertical Type) | 400 | 220 | ECMA-C20604FS | ASD-B20421-B |

BC 马达外露 Motor Exposed



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单位 Unit: mm



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The dual-carriage design does not feature an internal synchronous mechanism; the customer can select an external connection to best-fit application requirements.

| 有效行程 Stroke | 50 ^{±2} | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 |
|-----------------------------|------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 极限行程 Limit Stroke (±1) | 70 | 120 | 170 | 220 | 270 | 320 | 370 | 420 | 470 | 520 | 570 | 620 | 670 | 720 | 770 | 820 | 870 | 920 | 970 | 1020 | 1070 | 1120 |
| L | 473 | 523 | 573 | 623 | 673 | 723 | 773 | 823 | 873 | 923 | 973 | 1023 | 1073 | 1123 | 1173 | 1223 | 1273 | 1323 | 1373 | 1423 | 1473 | 1523 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |
| M | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 |
| N | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 27 | 27 | 28 |
| P | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
| KG | 6.47 | 6.82 | 7.15 | 7.47 | 7.82 | 8.11 | 8.44 | 8.88 | 9.18 | 9.59 | 9.88 | 10.12 | 10.43 | 10.84 | 11.09 | 11.48 | 11.75 | 12.17 | 12.59 | 13.01 | 13.43 | 13.85 |
| 线速度 Linear Speed mm/s | 导程 Lead 5 | 300 | | | | | | | | | | | | | | | | | | | | |
| | 导程 Lead 10 | 600 | | | | | | | | | | | | | | | | | | | | |
| | 导程 Lead 20 | 1200 | | | | | | | | | | | | | | | | | | | | |

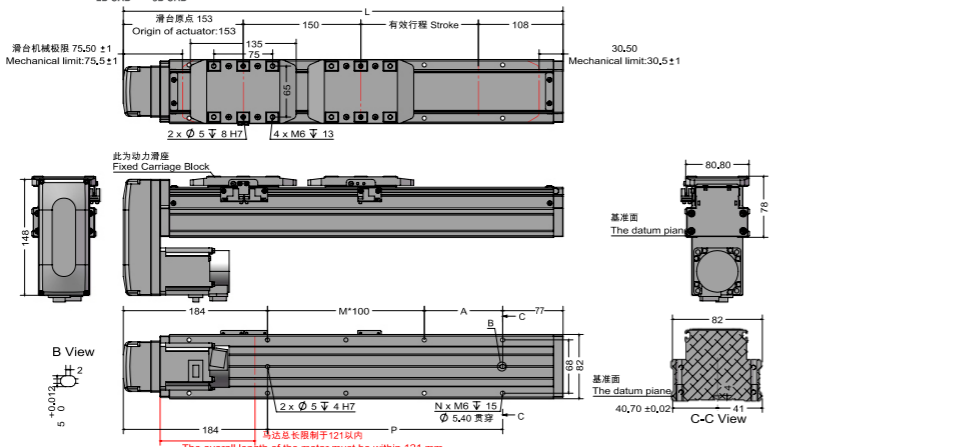
※1行程50mm时, 因本体上锁式固定孔会被滑座遮挡, 仅能使用4支螺丝固定。建议客户本体用下锁式固定孔锁附。When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix, as a result, suggest that fixing actuator body from the bottom to the top.

BM 马达下折 Motor Bottom Side



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单位 Unit: mm



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|-----------------------------|------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 极限行程 Limit Stroke (±1) | 70 | 120 | 170 | 220 | 270 | 320 | 370 | 420 | 470 | 520 | 570 | 620 | 670 | 720 | 770 | 820 | 870 | 920 | 970 | 1020 | 1070 | 1120 |
| L | 461 | 511 | 561 | 611 | 661 | 711 | 761 | 811 | 861 | 911 | 961 | 1011 | 1061 | 1111 | 1161 | 1211 | 1261 | 1311 | 1361 | 1411 | 1461 | 1511 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 27 |
| P | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
| KG | 6.56 | 6.86 | 7.19 | 7.51 | 7.86 | 8.15 | 8.48 | 8.92 | 9.22 | 9.63 | 9.92 | 10.16 | 10.47 | 10.88 | 11.13 | 11.55 | 11.79 | 12.21 | 12.63 | 13.05 | 13.47 | 13.89 |
| 线速度 Linear Speed mm/s | 导程 Lead 5 | 300 | | | | | | | | | | | | | | | | | | | | |
| | 导程 Lead 10 | 600 | | | | | | | | | | | | | | | | | | | | |
| | 导程 Lead 20 | 1200 | | | | | | | | | | | | | | | | | | | | |

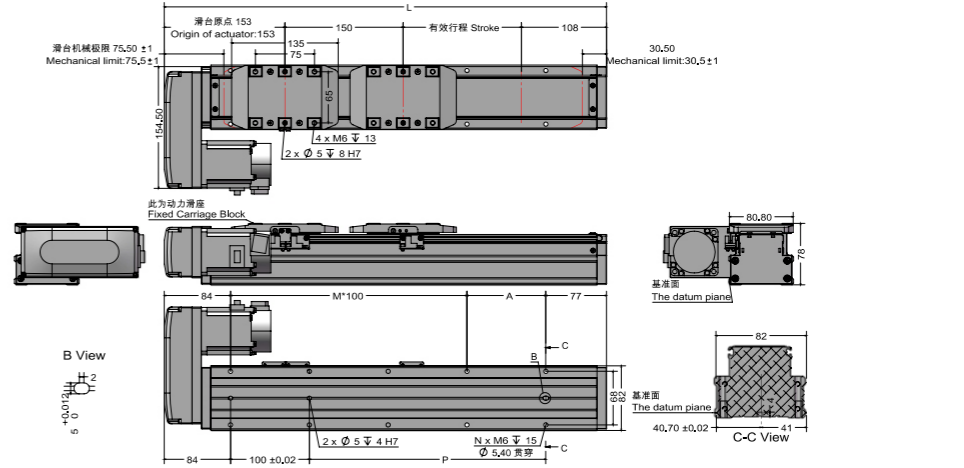
※1马达下折时, 若选用刹车马达, 或超出马达总长度限制时, 无法套用标准PIN孔, 如有需求, 请联系我司业务。When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.
※2行程50mm时, 因本体上锁式固定孔会被滑座遮挡, 仅能使用4支螺丝固定。建议客户本体用下锁式固定孔锁附。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.

BL 马达左折 Motor Left Side



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| L | 461 | 511 | 561 | 611 | 661 | 711 | 761 | 811 | 861 | 911 | 961 | 1011 | 1061 | 1111 | 1161 | 1211 | 1261 | 1311 | 1361 | 1411 | 1461 | 1511 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |
| M | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 |
| N | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 27 | 27 | 28 |
| P | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
| KG | 6.56 | 6.86 | 7.19 | 7.51 | 7.86 | 8.15 | 8.48 | 8.92 | 9.22 | 9.63 | 9.92 | 10.16 | 10.47 | 10.88 | 11.13 | 11.55 | 11.79 | 12.21 | 12.63 | 13.05 | 13.47 | 13.89 |
| 线速度 Linear Speed mm/s | 导程 Lead 5 | 300 | | | | | | | | | | | | | | | | | | | | |
| | 导程 Lead 10 | 600 | | | | | | | | | | | | | | | | | | | | |
| | 导程 Lead 20 | 1200 | | | | | | | | | | | | | | | | | | | | |

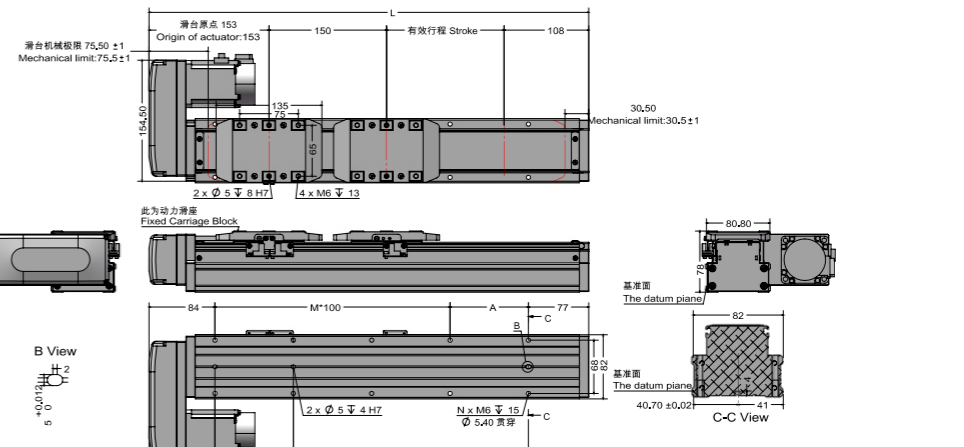
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BR 马达右折 Motor Right Side



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|-----------------------------|------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
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| L | 461 | 511 | 561 | 611 | 661 | 711 | 761 | 811 | 861 | 911 | 961 | 1011 | 1061 | 1111 | 1161 | 1211 | 1261 | 1311 | 1361 | 1411 | 1461 | 1511 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 |
| M | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 |
| N | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 27 | 27 | 28 |
| P | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
| KG | 6.56 | 6.86 | 7.19 | 7.51 | 7.86 | 8.15 | 8.48 | 8.92 | 9.22 | 9.63 | 9.92 | 10.16 | 10.47 | 10.88 | 11.13 | 11.55 | 11.79 | 12.21 | 12.63 | 13.05 | 13.47 | 13.89 |
| 线速度 Linear Speed mm/s | 导程 Lead 5 | 300 | | | | | | | | | | | | | | | | | | | | |
| | 导程 Lead 10 | 600 | | | | | | | | | | | | | | | | | | | | |
| | 导程 Lead 20 | 1200 | | | | | | | | | | | | | | | | | | | | |

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