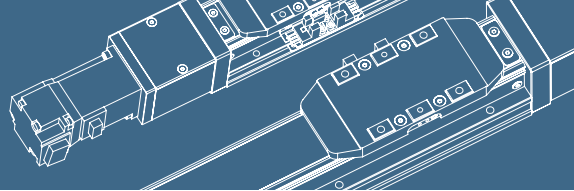


GTH8 单轴 /1-axis

► 轨道内嵌
Integrated Linear Bearing
一般环境使用

► 螺杆驱动
Ball Screw Drive



2023 综合目录 **BTR**

免费服务热线: **0769-88189802**

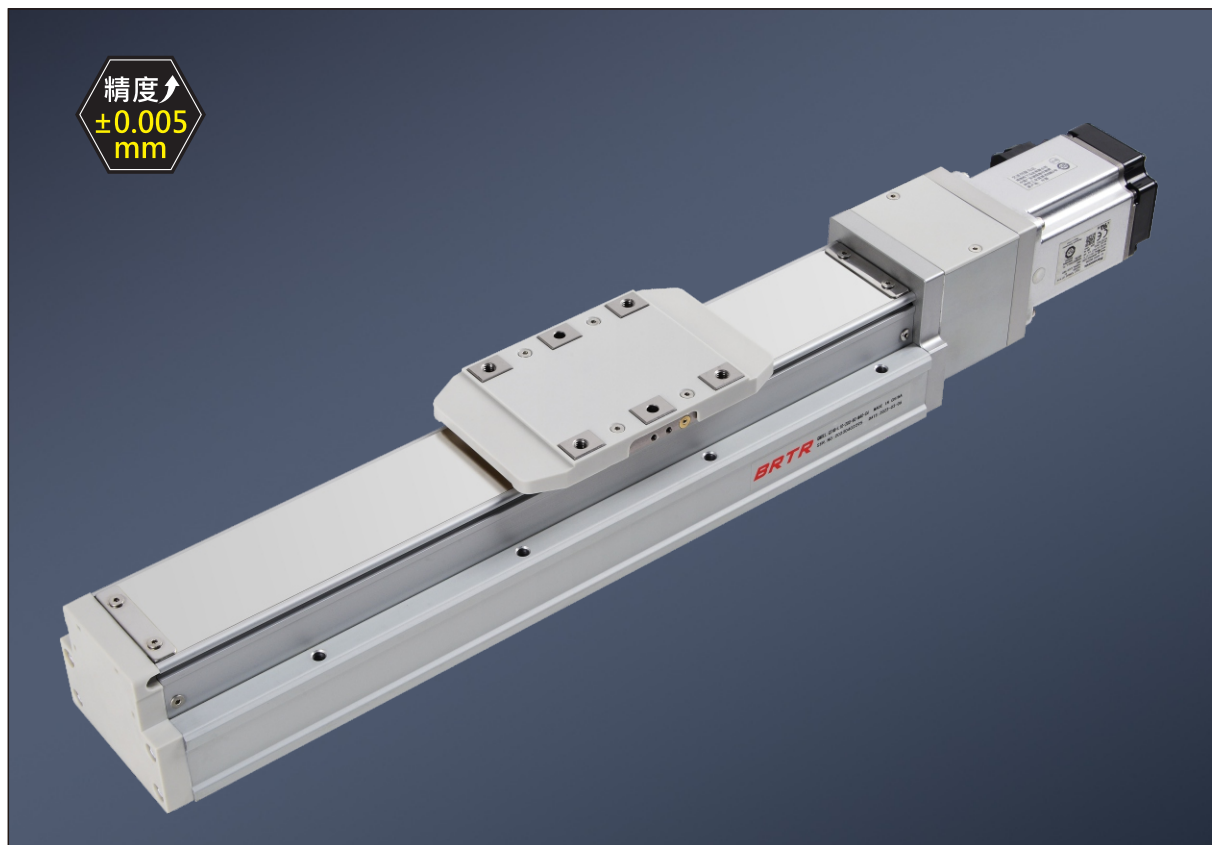
应用列
Application

一般螺杆式样
GTH series

无尘/螺杆式样
GCH

直交连接
XYGT

参考资料
Reference



最大行程
Maximum Stroke **1250mm**

最高速度
Maximum Speed **1200mm/s**

马达容量
Motor Output **200W**

最大可搬重量
Max Payload **50kg**

型号表示方式 Ordering Method

GTH8 - L 5 - 100 - BC - M20B - 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

螺杆等级
Ball Screw
Accuracy Grade

L 转造级
Rolled Ballscrews
C 研磨级
Ground Ballscrews

*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.

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 200W
T 台达 Delta 40 -

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

原点感应器
Home Sensor

外挂型 Outside
C 马达侧 Motor Side
D 反马达侧 Opposite Motor Side
无 SENSOR No Sensor
E 无 SENSOR No Sensor

* 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. 滑座左右两侧均需安装感应片。
Both sensor slots need to install the sensor regardless.

端点极限感应器
Limit Sensor

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

基本式样 Specification

性能	螺杆等级代号 Ballscrew Accuracy Grade Code			L	C	
	螺杆等级 Ballscrew Accuracy Grade			C7 转造 C7 Rolled Ballscrew	C5 研磨 C5 Ground Ballscrew	
	位置重复精度 Repeatability		mm	± 0.01	±0.005	
	标准行程 Stroke (increments)		mm	50-1250mm / 50间隔 (50 increments)	50-700mm / 50 间隔 (50 increments)	
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	683	341	174
	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	200	
		滚珠螺杆外径 Ball Screw Ø		mm	Ø16	
联轴器 Coupling		mm	10x14/11 ※4			
原点感应器 Home Sensor		外挂 Outside		FF-U674(NPN)		

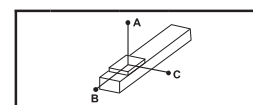
※1 马达加减速设定0.2秒。Acceleration and deceleration value is set 0.2 second.

※2 长行程时，会产生螺杆偏摆，需将速调降（线速度请参阅尺寸图下方表格）

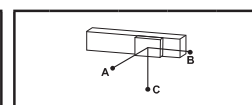
During in a long stroke, it causes ballscrew deflection, the speed must reduce. (Please refer to the linear velocity from the data sheet below the dimension graph.)

※3 使用Panasonic 200W马达时，马达轴心为 Ø11；其他厂牌，马达轴心为 Ø14。Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

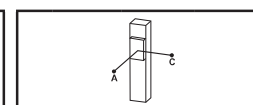
容许负载力距表 Allowable Overhang



(单位 Unit: mm)



(单位 Unit: mm)



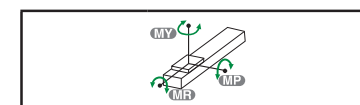
(单位 Unit: mm)

水平安装	A	B	C
导程 5 Lead	20kg 1275	127	197
	30kg 725	72	112
	50kg 380	38	58
导程 10 Lead	10kg 1269	246	345
	20kg 588	104	148
	30kg 352	58	82
导程 20 Lead	5kg 988	380	440
	10kg 471	174	204
	18kg 248	88	104

壁挂安装	A	B	C
导程 5 Lead	20kg 197	127	1275
	30kg 112	72	725
	50kg 58	38	380
导程 10 Lead	10kg 345	246	1269
	20kg 148	104	588
	30kg 82	58	352
导程 20 Lead	5kg 440	380	988
	10kg 204	174	471
	18kg 104	88	248

垂直安装	A	C
导程 5 Lead	5kg 647	647
	10kg 323	323
	15kg 215	215
导程 10 Lead	3kg 937	937
	5kg 561	561
	8kg 351	351
导程 20 Lead	2kg 990	990
	2.5kg 792	792
	3kg 660	660

静额定扭矩 Static Loading Moment



(单位 Unit: N.m)

MY	318
MP	318
MR	626

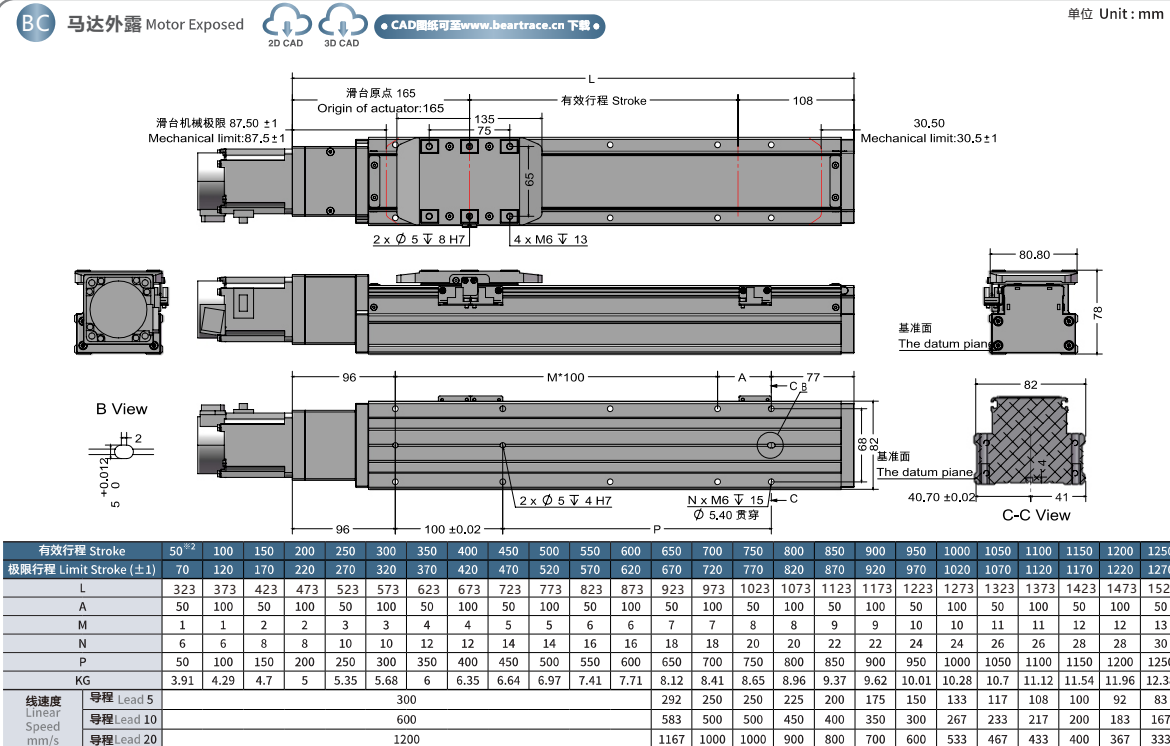
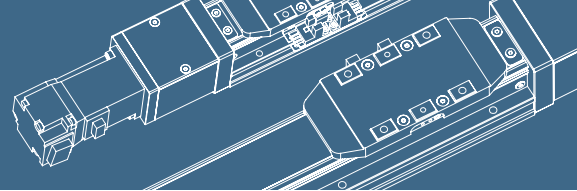
*力矩表所表示的数据，代表荷重的重心位置单一方向容许悬出的长度。
The data represented by the moment table is the center of gravity of the load. The length of the overhang is allowed in a single direction.
*符合型录规范的正常使用时，保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*侧吊使用无法套用标准规范，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

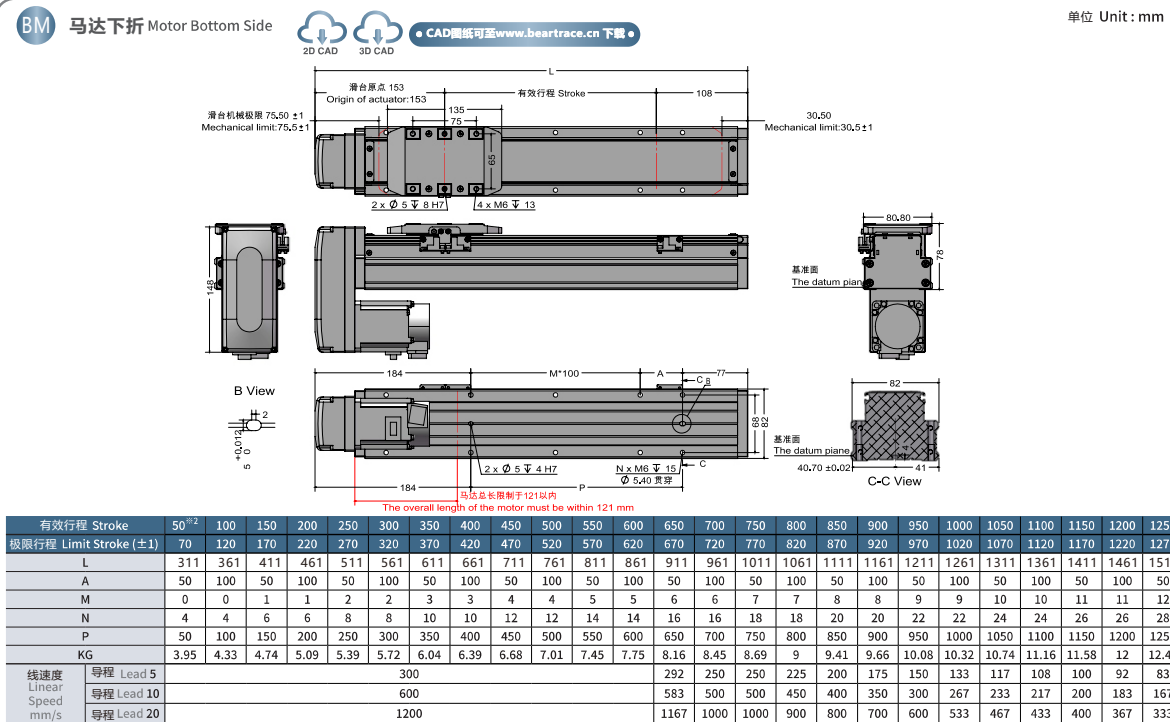
厂牌 Brand	马达记号 Mark	刹车有无 Brake	马达容易 Watt	电源电压 AC-Voltage	伺服马达型号 Motor Model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车 (水平式样) No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
		有刹车 (垂直式样) With Brake (Vertical Type)	200	220	HG-KR23B	MR-J4-20A
松下 Panasonic	P	无刹车 (水平式样) No Brake (Horizontal Type)	200	220	MHMD022G1U	MADHT1507
		有刹车 (垂直式样) With Brake (Vertical Type)	200	220	MHMD022G1V	MADHT1507
台达 Delta	T	无刹车 (水平式样) No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B
		有刹车 (垂直式样) With Brake (Vertical Type)	200	220	ECMA-C20602FS	ASD-B20221-B

GTH Series

GTH4
GTH4M
GTH5
GTH8
GTH12
GTH14
GTH17

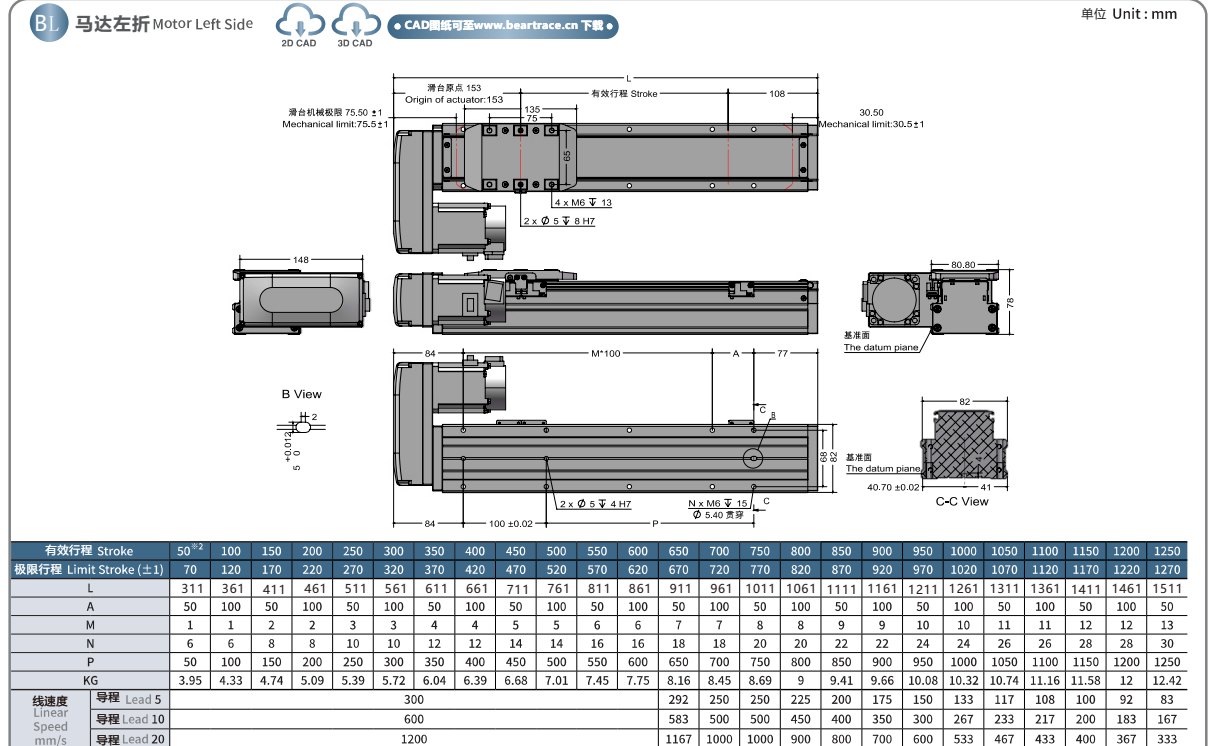


※ 2行程50时, 因本体上锁式固定孔会被滑座堵住, 仅能使用4支螺丝固定, 建议客户本体用下锁式固定孔锁附。When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

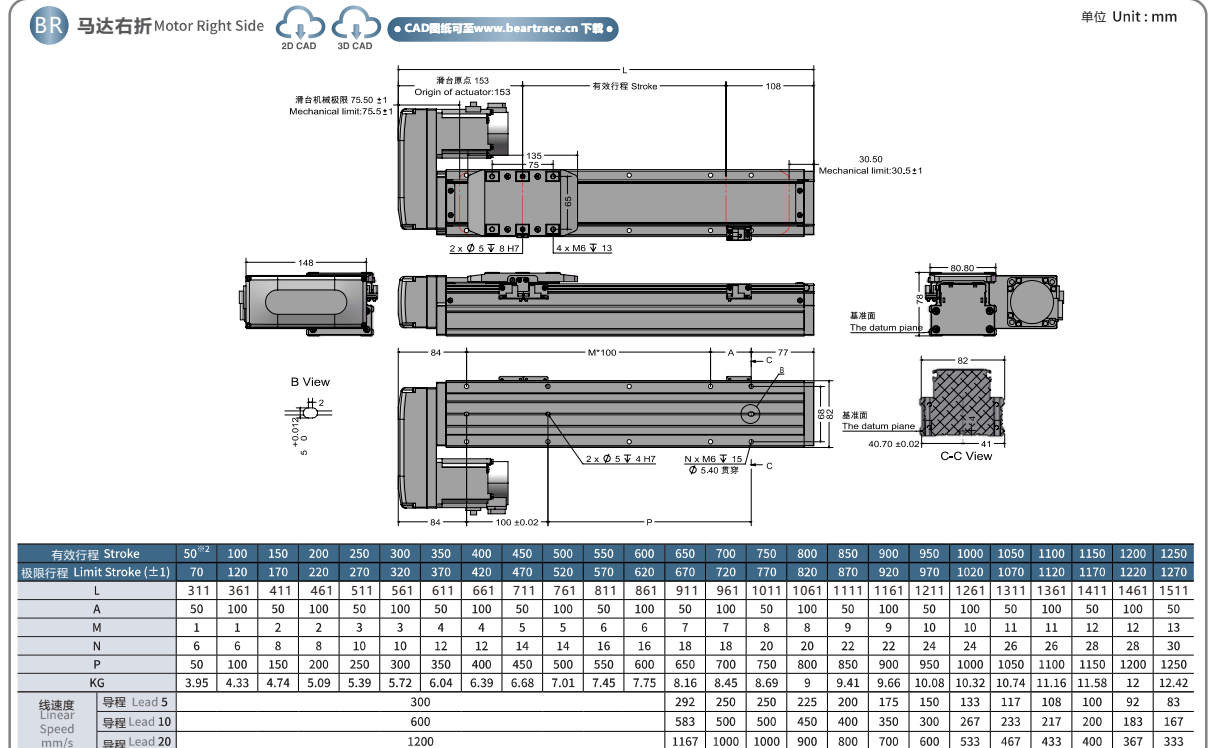


※ 1 马达下折时, 若选用刹车马达, 或是超出马达总长度限制时, 无法套用标准PIN孔, 如有需求, 请联系我司业务。When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

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