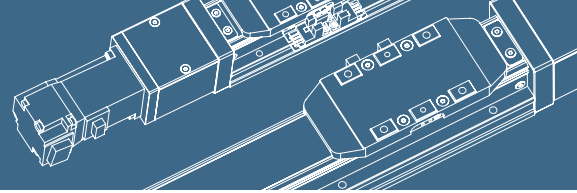


GTH4 单轴 /1-axis

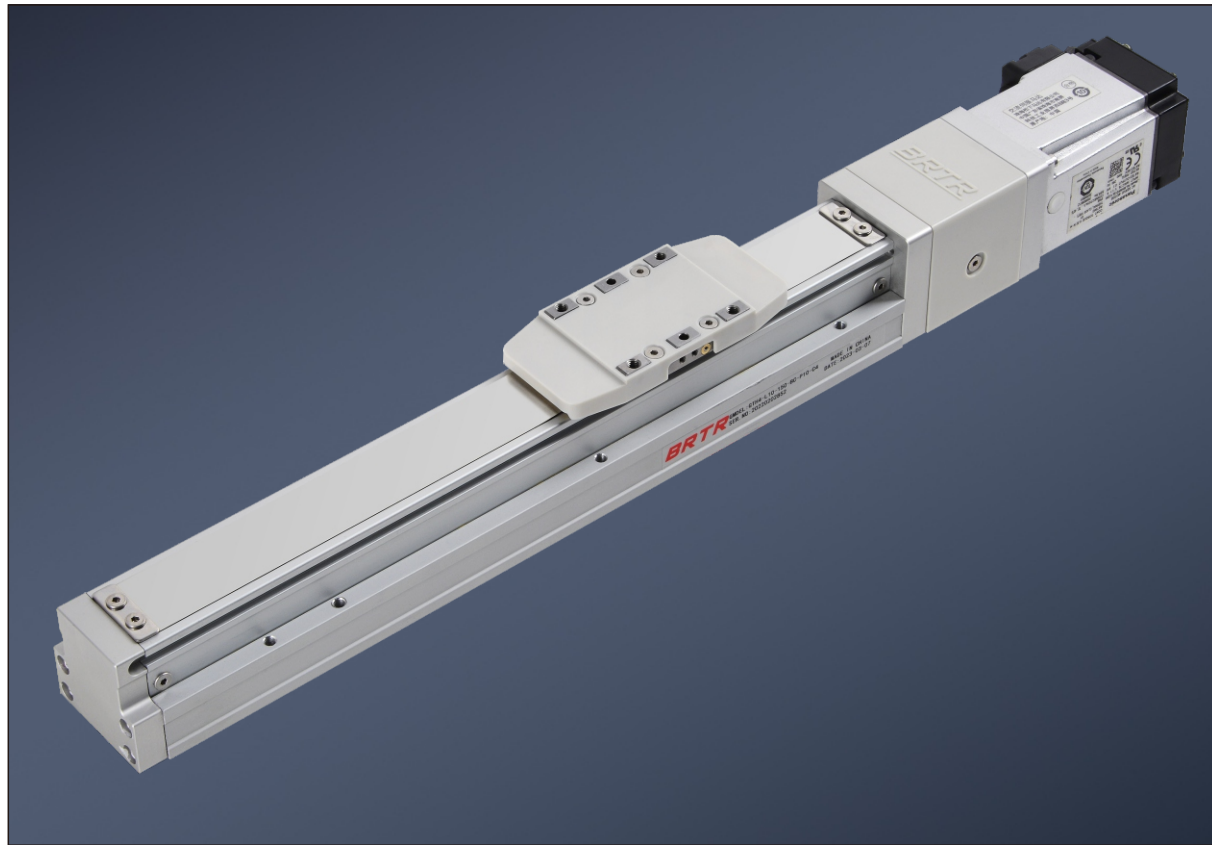
► 轨道内嵌
Integrated Linear Bearing
一般环境使用

► 螺杆驱动
Ball Screw Drive



2023 综合目录 **BTR**

免费服务热线: **0769-88189802**



最大行程
Maximum Stroke **600mm**

最高速度
Maximum Speed **720mm/s**

马达容量
Motor Output **100W**

最大可搬重量
Max Payload **25kg**

型号表示方式 Ordering Method

GTH4 - L2-100- BC - M10B-C 4 - 0001

本体型号
Model

行程
Stroke
50-600mm
50间隔 50 mm Pitch

特注式样
Customization Order No.

马达位置
Motor Position

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

马达厂牌、功率
Motor Brand · Power Output

M	三菱 Mitsubishi	05	-	B
P	松下 Panasonic	10	100W	
Y	安川 Yaskawa	20	-	
T	台达 Delta	40	-	

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

原点感应器
Home Sensor

C	外挂型 Out Side
D	马达侧 Motor Side
E	反马达侧 Opposite Motor Side
无	SENSOR No Sensor
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. 滑座左右两侧皆需安装感应片。
Both sides of slider need to install the sensor trigger device.

端点极限感应器
Limit Sensor

3	1只 1 Pc
4	2只 2 Pc
无	SENSOR No Sensor
5	无 SENSOR No Sensor

基本式样 Specification

性能	位置重复精度 Repeatability	mm	± 0.01		
	螺杆导程 Lead	mm	2	6	12
	最高转速 Maximum Rotating speed	rpm	3000	3600	3600
	最高速度 Maximum linear speed ^{※1} ^{※2}	mm/s	100	360	720
	最大可搬重量 Maximum Payload	水平使用 Horizontal	kg	25	12
		垂直使用 Vertical	kg	8	2
	定格推力 Rated Thrust	N	854	285	142
	标准行程 Stroke (increments)	mm	50- 600 mm /50 间隔 (50 increments)		
	最大加速度 Maximum acceleration	G	0.3	0.3	0.6
	滚珠螺杆 Ball screw	基本额定负荷 Basic dynamic load rating Ca	N	—	—
部品	滚珠螺杆 Ball screw	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	—	—
	直线滑轨 Linear Guide	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	—	—
	AC伺服马达容量 AC Servo Motor Output	W	100		
部品	滚珠螺杆外径 Ball Screw Ø	mm	Ø 10		
	联轴器 Coupling	mm	7X8		
	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文表格)

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

(单位 Unit: mm)				(单位 Unit: mm)				(单位 Unit: mm)			
水平安装 Horizontal Installation	A	B	C	壁挂安装 Wall Installation	A	B	C	垂直安装 Vertical Installation	A	C	
	12kg	1000	55	80	12kg	80	55	1000	4kg	192	192
	18kg	750	35	50	18kg	50	35	750	8kg	96	96
	25kg	500	23	32	25kg	32	23	500	-	-	-
导程 2 Lead	10kg	459	52	70	10kg	71	52	450	3kg	200	200
	15kg	292	32	44	15kg	44	32	292	5kg	120	120
	20kg	208	22	30	20kg	30	22	208	-	-	-
	8kg	250	58	71	8kg	75	58	250	1.5kg	338	338
导程 6 Lead	10kg	196	44	55	10kg	54	44	196	2kg	253	253
	12kg	160	36	44	12kg	44	36	160	-	-	-
	10kg	196	44	55	10kg	54	44	196	-	-	-
	12kg	160	36	44	12kg	44	36	160	-	-	-
导程 12 Lead	10kg	196	44	55	10kg	54	44	196	-	-	-
	12kg	160	36	44	12kg	44	36	160	-	-	-
	10kg	196	44	55	10kg	54	44	196	-	-	-
	12kg	160	36	44	12kg	44	36	160	-	-	-

静额定扭矩 Static Loading Moment

(单位 Unit: N·m)	
MY	79
MP	79
MR	116

~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下, 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)	100	220	HG-KR13	MR-J4-10A
		有刹车 (垂直式样) With Brake (Vertical Type)	100	220	HG-KR13B	MR-J4-10A
松下 Panasonic	P	无刹车 (水平式样) No Brake (Horizontal Type)	100	220	MSMD012G1U	MADHT1505
		有刹车 (垂直式样) With Brake (Vertical Type)	100	220	MSMD012G1V	MADHT1505
台达 Delta	T	无刹车 (水平式样) No Brake (Horizontal Type)	100	220	ECMA-C20401ES	ASD-B20121-B
		有刹车 (垂直式样) With Brake (Vertical Type)	100	220	ECMA-C20401FS	ASD-B20121-B

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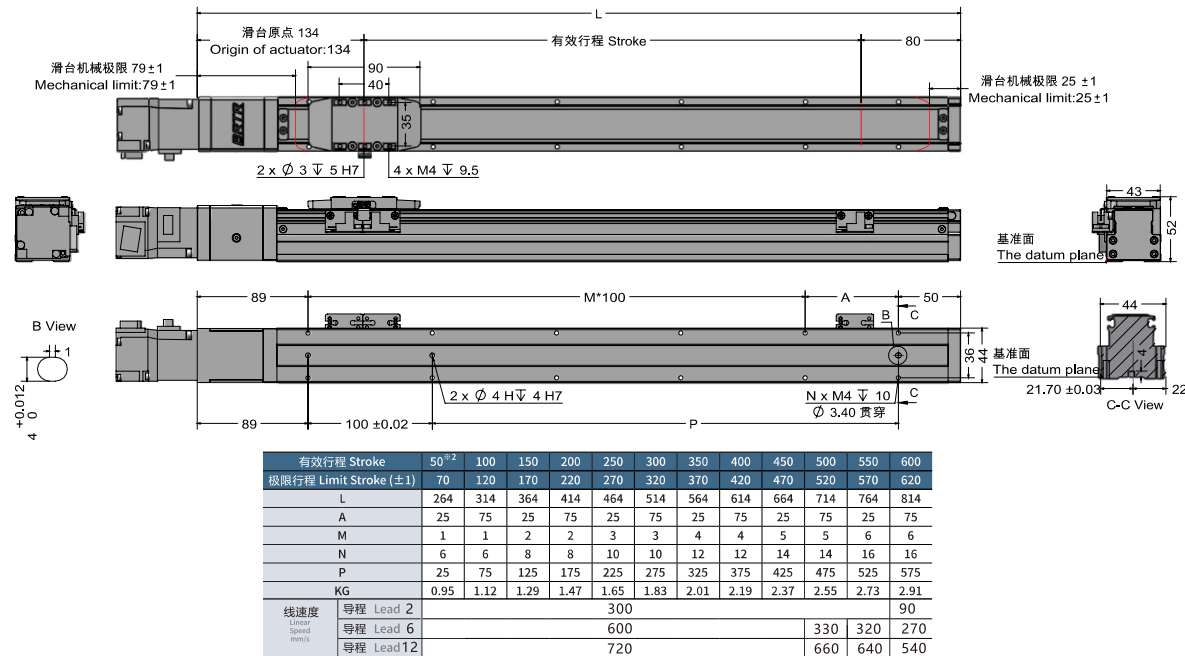
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BC 马达外露 Motor Exposed



CAD图纸可至www.beartrace.cn下载

单位 Unit: mm



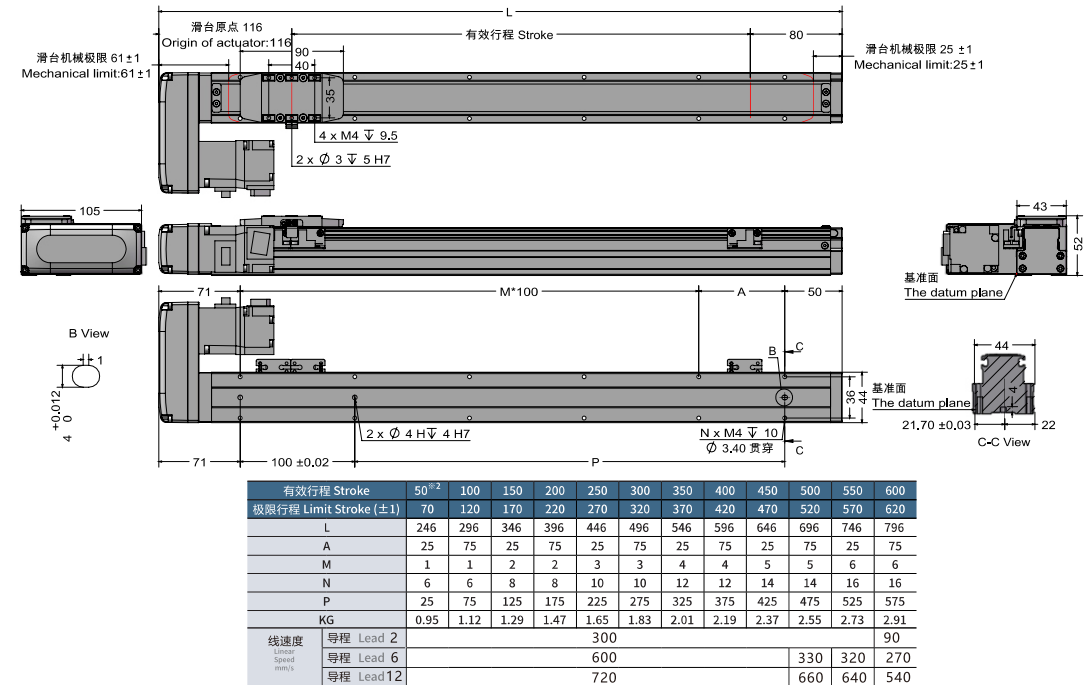
※ 2行程50时, 因本体上锁式固定孔会被滑座遮挡, 仅能使用4支螺丝固定, 建议客户本体用下锁式固定孔锁附。When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix, as a result, suggest that fixing actuator body from the bottom to the top.

BL 马达左折 Motor Left Side



CAD图纸可至www.beartrace.cn下载

单位 Unit: mm



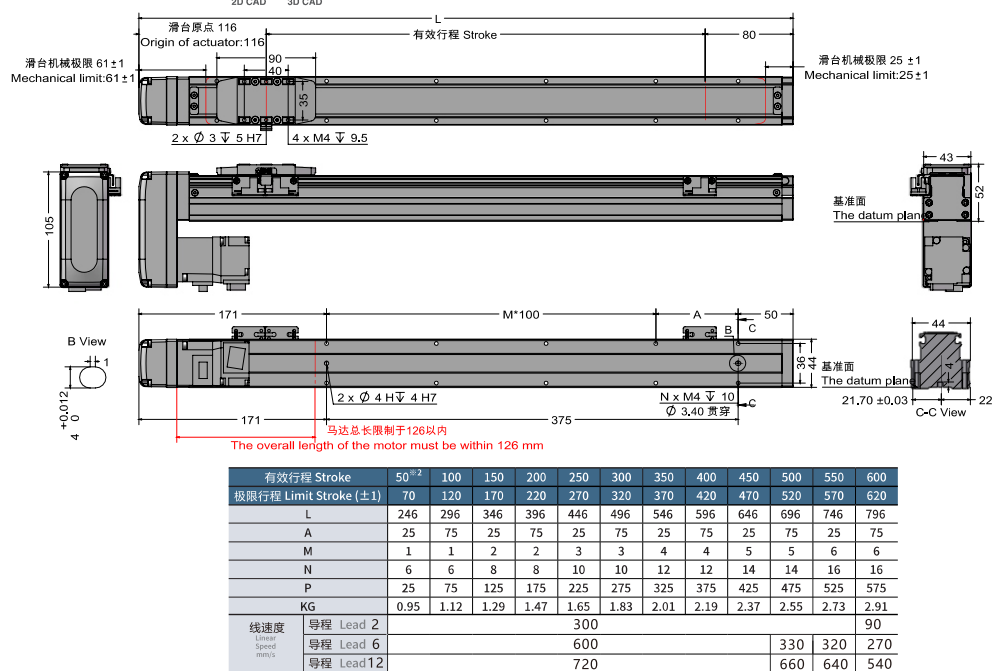
※ 2行程50时, 因本体上锁式固定孔会被滑座遮挡, 仅能使用4支螺丝固定, 建议客户本体用下锁式固定孔锁附。When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix, as a result, suggest that fixing actuator body from the bottom to the top.

BM 马达下折 Motor Bottom Side



CAD图纸可至www.beartrace.cn下载

单位 Unit: mm



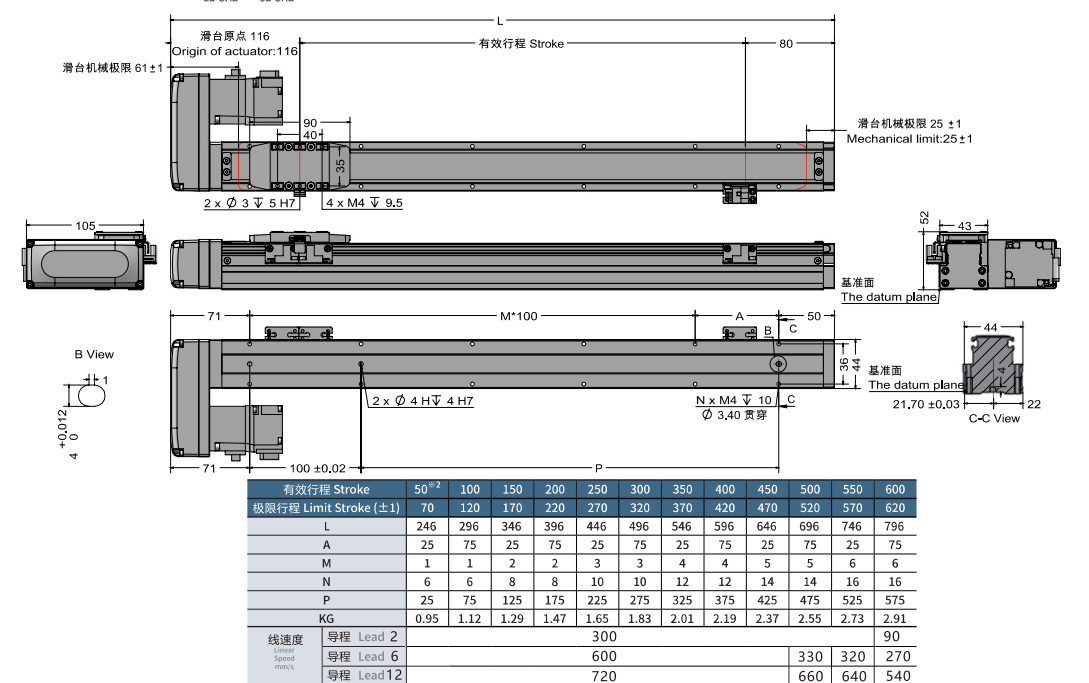
※ 1 马达下折时, 若选用刹车马达, 或是超出马达总长度限制时, 无法套用标准PIN孔, 如有需求, 请联系我司业务。When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.
※ 2 行程50时, 因本体上锁式固定孔会被滑座遮挡, 仅能使用4支螺丝固定,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

BR 马达右折 Motor Right Side



CAD图纸可至www.beartrace.cn下载

单位 Unit: mm



※ 2行程50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.