

精度 ± 0.005 mm

最大行程 Maximum Stroke **1050mm** | 最高速度 Maximum Speed **1200mm/s** | 马达容量 Motor Output **100W** | 最大可搬重量 Max Payload **30kg**

型号表示方式 Ordering Method

GCH5 - L 5 - 100 - BC - M10B - C 4 - 0001

本体型号 Model	行程 Stroke	马达位置 Motor Position	螺杆等级 Ball Screw Accuracy Grade	螺杆导程 Ball Screw Lead	马达厂牌、功率 Motor Brand * Power Output	原点感应器 Home Sensor	端点极限感应器 Limit Sensor
	转造级 Rolled Ballscrews 50-800mm 研磨级 Ground Ballscrews 50-300mm *间隔50 Pitch 50 mm	BC Motor Exposed BM Motor Bottom Side BR Motor Right Side BL Motor Left Side	L 转造级 Rolled Ballscrews C 研磨级 Ground Ballscrews	5 5mm 10 10mm 20 20mm	M 三菱 Mitsubishi 05 - B P 松下 Panasonic 10 100W Y 安川 Yaskawa 20 - T 台达 Delta 40 -	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	外挂型 Outside 3 1只 1 Pc 4 2只 2 Pc 5 无 SENSOR No Sensor

* 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. 插座左右两侧均需安装感应片。

基本式样 Specification

性能	螺杆等级代号 Ballscrew Accuracy Grade Code	L		C	
		C7 转造 C7 Rolled Ballscrew	C5 研磨 C5 Ground Ballscrew		
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	50-1050mm /50 间隔 (50 increments)		50-300mm /50 间隔 (50 increments)	
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	—	30	15
	垂直使用 Vertical	kg	—	10	5
定规格推力 Rated Thrust	N	—	341	170	85
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	—		
AC伺服马达容量 AC Servo Motor Output	W	100			
滚珠螺杆外径 Ball Screw Ø	mm	Ø12			
联轴器 Coupling	mm	7X8			
原点感应器 Home Sensor	外挂 Outside	FF-U674(NPN)			

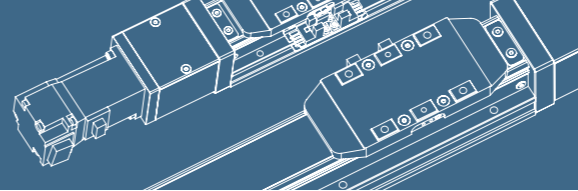
*1 马达加减速设定0.2秒。Acceleration and deceleration value is set 0.2 second.
*2 长行程时, 会产生螺杆偏摆, 需将速度调降 (线速度请参阅尺寸图下文表格)
During a long stroke, it causes ballscrew deflection, the speed must reduce. (Please refer to the linear velocity from the data sheet below the dimension graph.)

容许负载力距表 Allowable Overhang | 静额定扭矩 Static Loading Moment

水平安装 Horizontal Installation	壁挂安装 Wall Installation	垂直安装 Vertical Installation	静额定扭矩 Static Loading Moment																																																																																																																				
<p>(单位 Unit: mm)</p> <table border="1"> <tr><th>导程 Lead</th><th>A</th><th>B</th><th>C</th></tr> <tr><td>5</td><td>10kg 840</td><td>84</td><td>111</td></tr> <tr><td></td><td>20kg 393</td><td>34</td><td>45</td></tr> <tr><td></td><td>30kg 237</td><td>18</td><td>26</td></tr> <tr><td>10</td><td>5kg 808</td><td>156</td><td>190</td></tr> <tr><td></td><td>10kg 376</td><td>70</td><td>84</td></tr> <tr><td></td><td>15kg 236</td><td>41</td><td>51</td></tr> <tr><td>20</td><td>3kg 504</td><td>194</td><td>200</td></tr> <tr><td></td><td>7kg 211</td><td>80</td><td>82</td></tr> <tr><td></td><td>10kg 144</td><td>54</td><td>56</td></tr> </table>	导程 Lead	A	B	C	5	10kg 840	84	111		20kg 393	34	45		30kg 237	18	26	10	5kg 808	156	190		10kg 376	70	84		15kg 236	41	51	20	3kg 504	194	200		7kg 211	80	82		10kg 144	54	56	<p>(单位 Unit: mm)</p> <table border="1"> <tr><th>导程 Lead</th><th>A</th><th>B</th><th>C</th></tr> <tr><td>5</td><td>10kg 111</td><td>84</td><td>840</td></tr> <tr><td></td><td>20kg 45</td><td>34</td><td>393</td></tr> <tr><td></td><td>30kg 26</td><td>18</td><td>237</td></tr> <tr><td>10</td><td>5kg 190</td><td>156</td><td>808</td></tr> <tr><td></td><td>10kg 84</td><td>70</td><td>376</td></tr> <tr><td></td><td>15kg 51</td><td>41</td><td>236</td></tr> <tr><td>20</td><td>3kg 200</td><td>194</td><td>504</td></tr> <tr><td></td><td>7kg 82</td><td>80</td><td>211</td></tr> <tr><td></td><td>10kg 56</td><td>54</td><td>144</td></tr> </table>	导程 Lead	A	B	C	5	10kg 111	84	840		20kg 45	34	393		30kg 26	18	237	10	5kg 190	156	808		10kg 84	70	376		15kg 51	41	236	20	3kg 200	194	504		7kg 82	80	211		10kg 56	54	144	<p>(单位 Unit: mm)</p> <table border="1"> <tr><th>导程 Lead</th><th>A</th><th>C</th></tr> <tr><td>5</td><td>6kg 165</td><td>165</td></tr> <tr><td></td><td>8kg 123</td><td>123</td></tr> <tr><td></td><td>10kg 99</td><td>99</td></tr> <tr><td>10</td><td>1kg 859</td><td>859</td></tr> <tr><td></td><td>3kg 286</td><td>286</td></tr> <tr><td></td><td>5kg 171</td><td>171</td></tr> <tr><td>20</td><td>1kg 639</td><td>639</td></tr> <tr><td></td><td>2kg 319</td><td>319</td></tr> <tr><td></td><td>2.5kg 255</td><td>255</td></tr> </table>	导程 Lead	A	C	5	6kg 165	165		8kg 123	123		10kg 99	99	10	1kg 859	859		3kg 286	286		5kg 171	171	20	1kg 639	639		2kg 319	319		2.5kg 255	255	<table border="1"> <tr><th>MY</th><td>103</td></tr> <tr><th>MP</th><td>103</td></tr> <tr><th>MR</th><td>144</td></tr> </table> <p>* 力矩表所表示的数据, 代表重心的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.</p>	MY	103	MP	103	MR	144
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搭配伺服马达一览表 Suitable Motor Brand

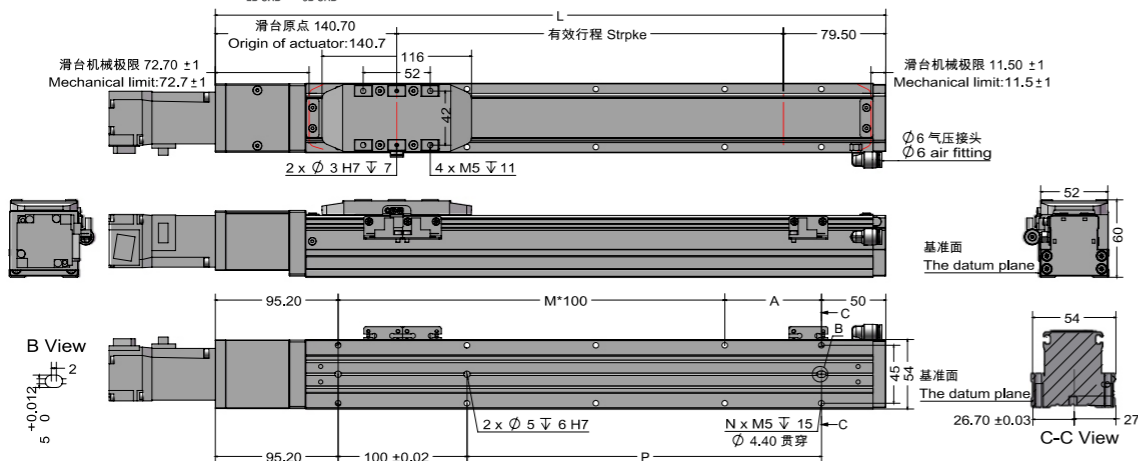
厂牌 Brand	马达记号 Mark	刹车有无 Brake	马达容易 Watt	电源电压 AC-Voltage	伺服马达型号 Motor Model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车 (水平式样) No Brake (Horizontal Type)	100	220	HG-KR13	MR-J4-10A
		有刹车 (垂直式样) With Brake (Vertical Type)	100	220	HG-KR13B	MR-J4-10A
松下 Panasonic	P	无刹车 (水平式样) No Brake (Horizontal Type)	100	220	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



BC 马达外露 Motor Exposed

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单位 Unit: mm



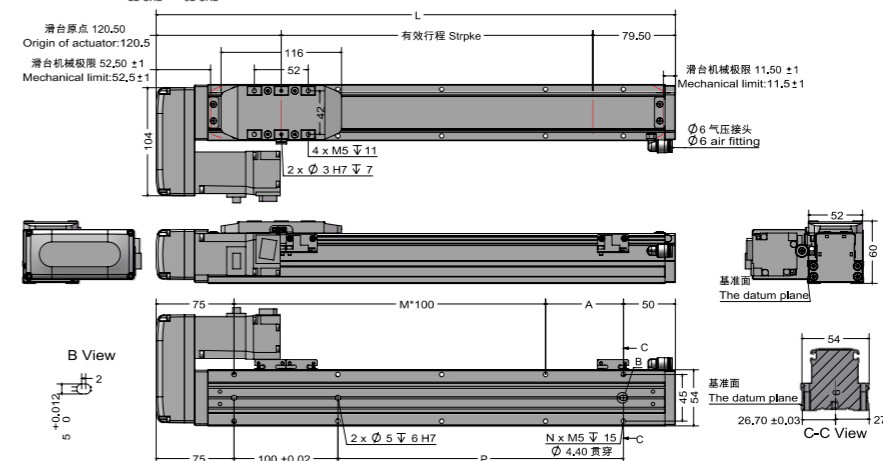
有效行程 Stroke	50 ⁻²	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050		
极限行程 Limit Stroke (±1)	70	120	170	220	270	320	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070		
L	270.2	320.2	370.2	420.2	470.2	520.2	570.2	620.2	670.2	720.2	770.2	820.2	870.2	920.2	970.2	1020.2	1070.2	1120.2	1170.2	1220.2	1270.2		
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25		
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	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025		
KG	1.65	1.79	1.92	2.11	2.39	2.5	2.52	2.75	2.86	2.95	3.15	3.28	3.44	3.58	3.71	4.09	4.47	4.85	5.23	5.61	6		
线速度 Linear Speed mm/s																							
	导程 Lead 5	300																					
	导程 Lead 10	600																					
导程 Lead 20	1200																						

* 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.
* 若光电选用D4时(原点SENSOR置于抱持端时)负压安装于右侧。When sensor select is D4(Origin sensor is placed at Holder end), vacuum pressure connector is installed on opposite side.

BL 马达左折 Motor Left Side

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单位 Unit: mm



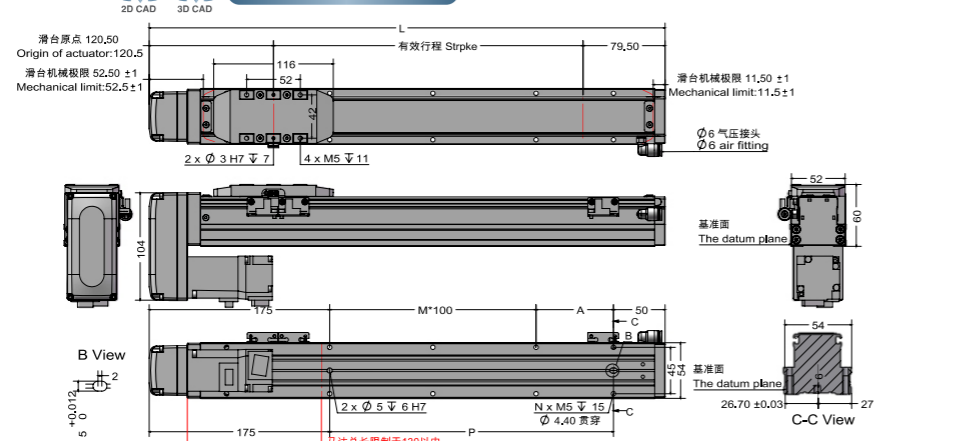
有效行程 Stroke	50 ⁻²	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050		
极限行程 Limit Stroke (±1)	70	120	170	220	270	320	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070		
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250		
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25		
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	25	75	125	175	225	275	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025		
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BM 马达下折 Motor Bottom Side

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单位 Unit: mm



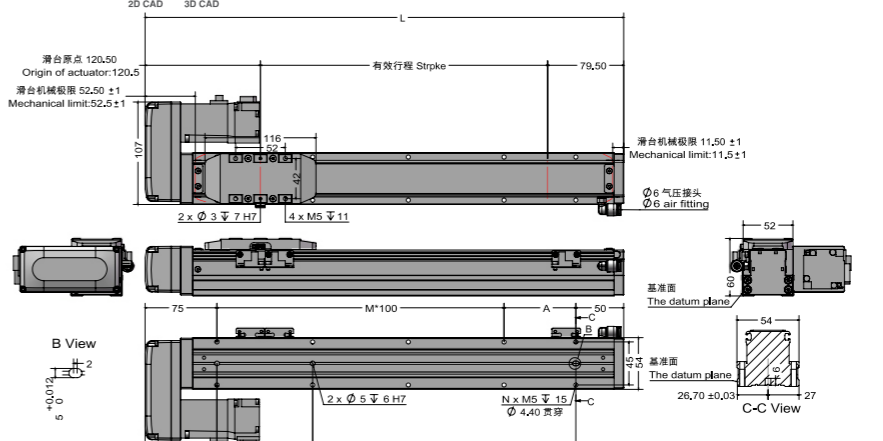
有效行程 Stroke	50 ⁻²	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050		
极限行程 Limit Stroke (±1)	70	120	170	220	270	320	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070		
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250		
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25		
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		
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线速度 Linear Speed mm/s																							
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* 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 len GCH over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirements.
* 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.
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BR 马达右折 Motor Right Side

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单位 Unit: mm



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		
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		
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250		
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25		
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		
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