

精度
±0.005 mm

最大行程
Maximum Stroke 1250mm

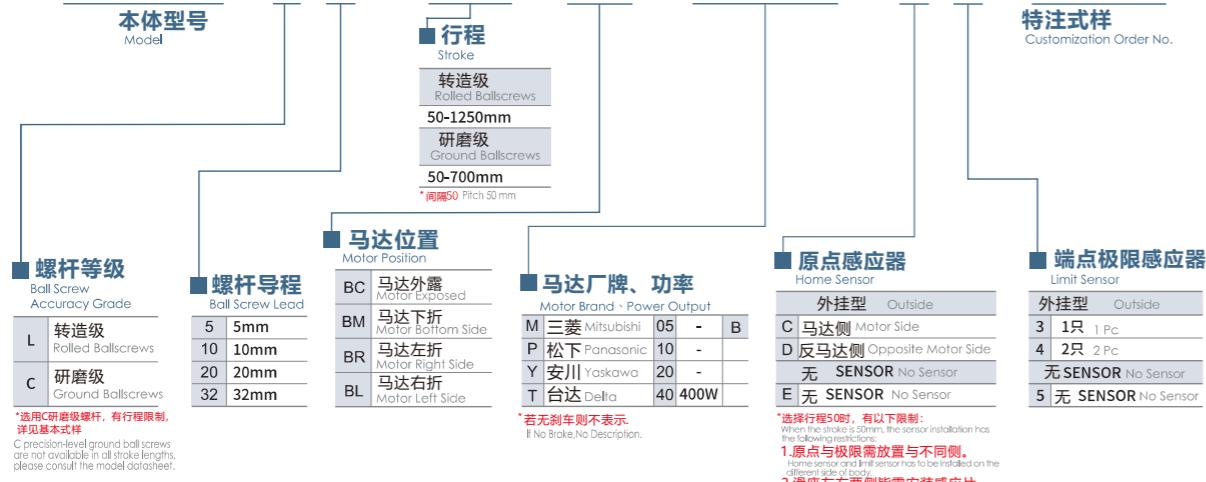
最高速度
Maximum Speed 1920mm/s

马达容量
Motor Output 400W

最大可搬重量
Max Payload 110kg

型号表示方式 Ordering Method

GTH12K- L 5 - 100 - BC - M40B - C 4 - 0001

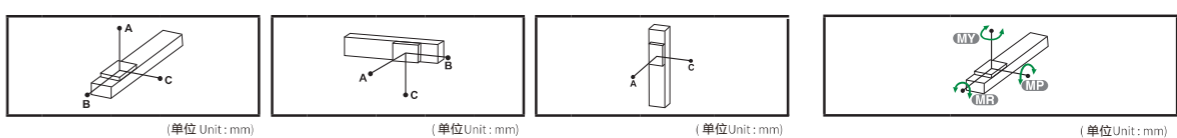


基本式样 Specification

性能	性能	性能	L		C	
			5	10	20	32
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		50-1250mm /50 间隔 (50 increments)		50-700mm /50 间隔 (50 increments)	
标准行程 Stroke (increments)	mm					
螺杆菌程 Lead	mm		5	10	20	32
最高转速 Maximum Rotating speed	rpm		3600	3600	3600	3600
最高速度 Maximum linear speed ※1 ※2	mm/s		300	600	1200	1920
最大可搬重量 Maximum Payload	kg	水平使用 Horizontal	110	88	40	30
	kg	垂直使用 Vertical	33	22	10	8
定格推力 Rated Thrust	N		1388	694	347	218
最大加速度 Maximum acceleration	G		0.3	0.3	0.6	0.6
滚珠螺杆 Ball screw	N	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	-	-	-	-
直线滑轨 Linear Guide	N	动态水平负载 Dynamic horizontal (100km)	-	-	-	-
	N	静态水平负载 Static Horizontal	-	-	-	-
固定侧轴承 Fixed bearing	N	基本动额定负荷 Basic dynamic load rating Cr	-	-	-	-
	N	静态容许负荷 Static load rating Cor	-	-	-	-
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, 需将速调降 (线速度请参阅尺寸图下文表格)
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.)

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



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	MY	MP	MR	
导程 5 Lead	60kg	2480	248	340	60kg	361	254	2540	15kg	1188	1188	606	606	1168
	80kg	1800	180	250	80kg	262	184	1840	22kg	810	810			
	110kg	1240	124	170	110kg	180	127	1270	33kg	540	540			
导程 10 Lead	30kg	2321	459	591	30kg	634	478	2321	10kg	1546	1546			
	50kg	1358	265	342	50kg	367	277	1358	14kg	1107	1107			
	88kg	736	140	180	88kg	194	146	736	22kg	702	702			
导程 20 Lead	10kg	2675	1070	1153	10kg	1410	1235	2995	5kg	2170	2170			
	22kg	1194	472	510	22kg	626	547	1335	7kg	1556	1556			
	40kg	638	248	269	40kg	332	289	713	10kg	1089	1089			
	15kg	708	448	397	15kg	508	527	847	3kg	2220	2220			
导程 32 Lead	25kg	415	259	230	25kg	296	306	496	5kg	1332	1332			
	30kg	341	211	189	30kg	243	251	408	8kg	832	832			

搭配伺服马达一览表 Suitable Motor Brand

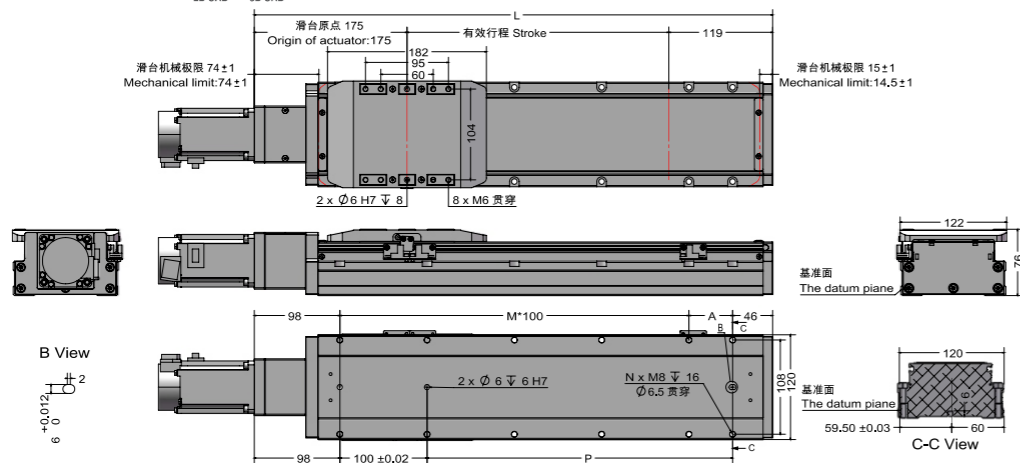
厂牌 Brand	马达记号 Mark	刹车有无 Brake	马达容量 Watt	电源电压 AC-Voltage	伺服马达型号 Motor Model	驱动器型号 Driver Model
三菱 Mitsubishi	M	无刹车 (水平式样) No Brake (Horizontal Type)	400	220	HG-KR43	MR-J4-40A
		有刹车 (垂直式样) With Brake (Vertical Type)	400	220	HG-KR43B	MR-J4-40A
松下 Panasonic	P	无刹车 (水平式样) No Brake (Horizontal Type)	400	220	MSMD042G1U	MBDHT2510
		有刹车 (垂直式样) With Brake (Horizontal Type)	400	220	MSMD042G1V	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

*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.
*符合规格的正常使用时, 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.

BC 马达外露 Motor Exposed

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单位 Unit: mm



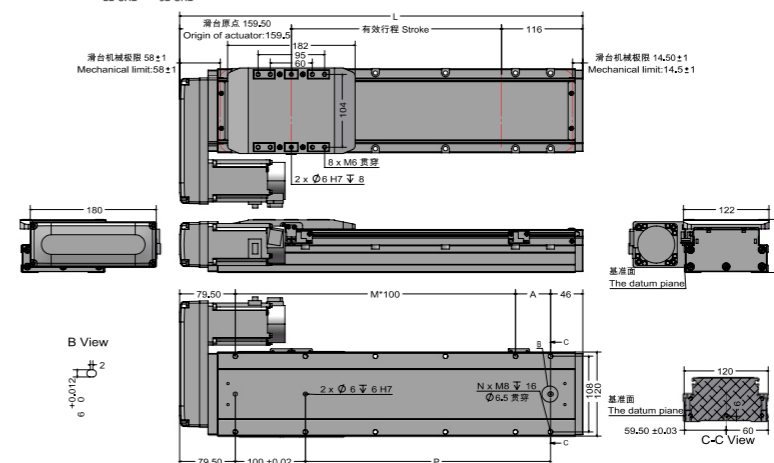
有效行程 Stroke	50 ^{±2}	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
极限行程 Limit Stroke (±1)	58.5	108.5	158.5	208.5	258.5	308.5	358.5	408.5	458.5	508.5	558.5	608.5	658.5	708.5	758.5	808.5	858.5	908.5	958.5	1008.5	1058.5	1108.5	1158.5	1208.5	1258.5
L	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	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
KG	5.05	5.4	5.75	6.1	6.45	6.8	7.15	7.5	7.85	8.2	8.55	8.9	9.25	9.6	9.95	10.3	10.65	11	11.35	11.7	12.05	12.4	12.75	13.1	13.45
线速度 Linear Speed mm/s	导程 Lead 5	300																							
	导程 Lead 10	600																							
	导程 Lead 20	1200																							
	导程 Lead 32	1920																							

※1 行程50时, 因本体上锁式固定孔会被滑座遮住, 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.

BL 马达左折 Motor Left Side

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单位 Unit: mm



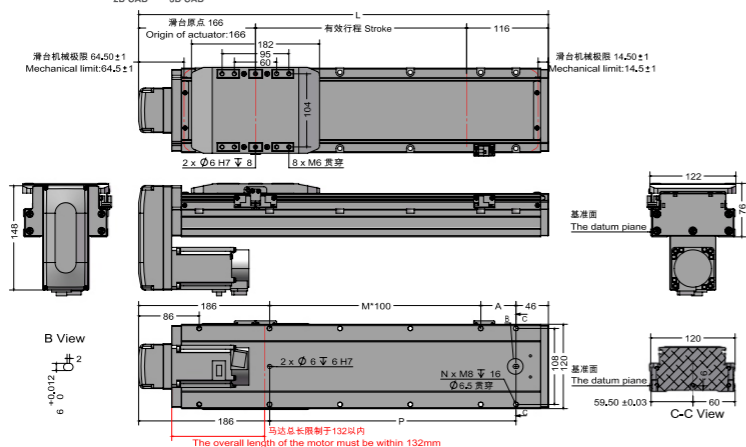
有效行程 Stroke	50 ^{±2}	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
极限行程 Limit Stroke (±1)	58.5	108.5	158.5	208.5	258.5	308.5	358.5	408.5	458.5	508.5	558.5	608.5	658.5	708.5	758.5	808.5	858.5	908.5	958.5	1008.5	1058.5	1108.5	1158.5	1208.5	1258.5
L	325.5	375.5	425.5	475.5	525.5	575.5	625.5	675.5	725.5	775.5	825.5	875.5	925.5	975.5	1025.5	1075.5	1125.5	1175.5	1225.5	1275.5	1325.5	1375.5	1425.5	1475.5	1525.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	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
KG	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.05	8.4	8.75	9.1	9.45	9.8	10.15	10.85	11.2	11.55	11.9	12.25	12.6	12.95	13.26	13.61	
线速度 Linear Speed mm/s	导程 Lead 5	300																							
	导程 Lead 10	600																							
	导程 Lead 20	1200																							
	导程 Lead 32	1920																							

※2 行程50时, 因本体上锁式固定孔会被滑座遮住, 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.

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	1100	1150	1200	1250
极限行程 Limit Stroke (±1)	58.5	108.5	158.5	208.5	258.5	308.5	358.5	408.5	458.5	508.5	558.5	608.5	658.5	708.5	758.5	808.5	858.5	908.5	958.5	1008.5	1058.5	1108.5	1158.5	1208.5	1258.5
L	332	382	432	482	532	582	632	682	732	782	832	882	932	982	1032	1082	1132	1182	1232	1282	1332	1382	1432	1482	1532
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
P	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
KG	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.26	13.61
线速度 Linear Speed mm/s	导程 Lead 5	300																							
	导程 Lead 10	600																							
	导程 Lead 20	1200																							
	导程 Lead 32	1920																							

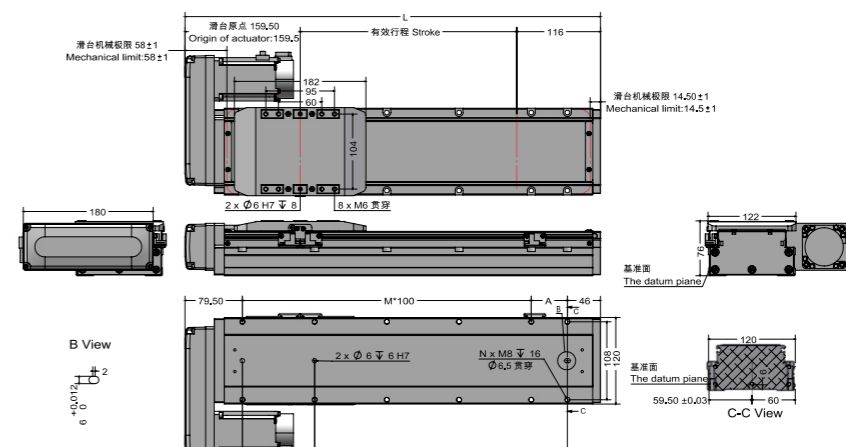
※1 马达下折时, 若选用刹车马达, 或是超出马达总长度限制时, 无法套用标准PIN孔, 如有需求, 请联系我司业务。When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

※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.

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	1100	1150	1200	1250
极限行程 Limit Stroke (±1)	58.5	108.5	158.5	208.5	258.5	308.5	358.5	408.5	458.5	508.5	558.5	608.5	658.5	708.5	758.5	808.5	858.5	908.5	958.5	1008.5	1058.5	1108.5	1158.5	1208.5	1258.5
L	325.5	375.5	425.5	475.5	525.5	575.5	625.5	675.5	725.5	775.5	825.5	875.5	925.5	975.5	1025.5	1075.5	1125.5	1175.5	1225.5	1275.5	1325.5	1375.5	1425.5	1475.5	1525.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	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
KG	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.05	8.4	8.75	9.1	9.45	9.8	10.15	10.85	11.2	11.55	11.9	12.25	12.6	12.95	13.26	13.61	
线速度 Linear Speed mm/s	导程 Lead 5	300																							
	导程 Lead 10	600																							
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