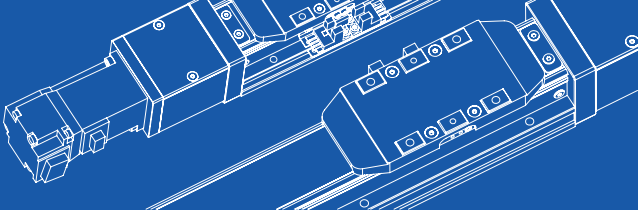


RGH12单轴 /1-axis

轨道内嵌
Rail Built-in

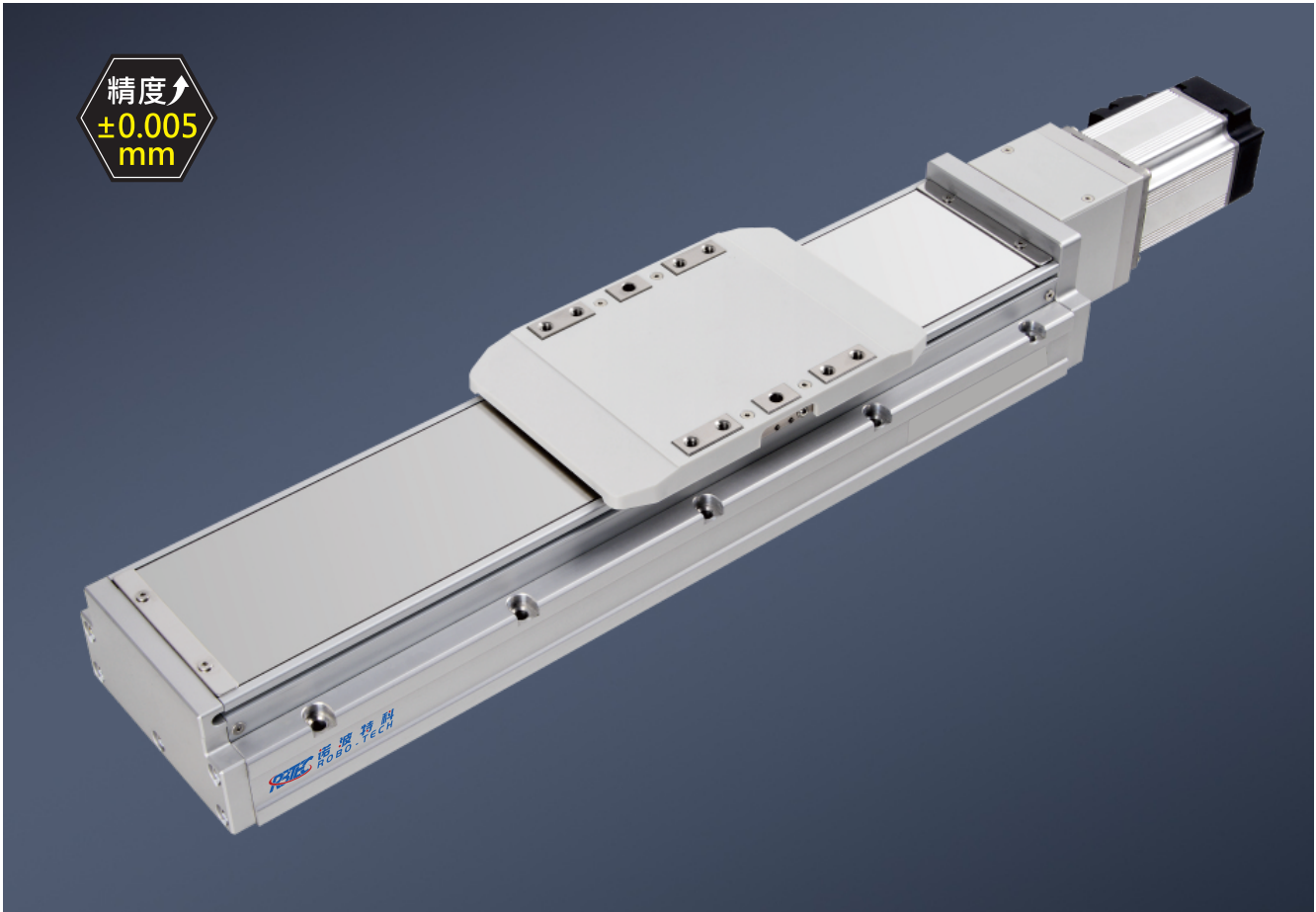
滚珠丝杆驱动
Ball Screw Drive



应用列
Application

一轴/滚珠丝杆样式
RGH series

无尘/滚珠丝杆样式
RGC



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

滚珠丝杆
Ball Screw ø16mm

型号表示方式 Ordering Method

RGH12-
本体型号
Model

05 -
行程
Stroke
转造级
Rolled Ballscrews
50-1250 mm
研磨级
Grind Ballscrews
50-700mm
*间隔50 Interval 50 mm

E -
丝杆等级
Screw Grade
无 转造级
Rolled Ballscrews
G 研磨级
Grind Ballscrews

100 -
丝杆导程
Ball Screw Lead
05 05mm
10 10mm
20 20mm
32 32mm

M40B* -
电机位置
Motor Position
E 电机外露
Motor Exposed
L 电机左折
Motor Left Side
R 电机右折
Motor Right Side
M 电机下折
Motor Bottom Side

C -
电机厂牌、功率
Motor Brand · Power Output
M 三菱 Mitsubishi
P 松下 Panasonic
Y 安川 Yaskawa
T 台达 Delta 40 400W B

4 -
原点感应器
Origin Sensor
外挂型 Outside
C 电机侧 Motor Side
D 反电机侧 Opposite Motor Side
无 SENSOR No Sensor
E 无 SENSOR No Sensor

01 -
限位传感器
Limit Sensor
外挂型 Outside
3 1只 1 Pc
4 2只 2 Pc
无 SENSOR No Sensor
5 无 SENSOR No Sensor

特注式样
Special Order No.

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

*若无刹车则B不表示。
If There is No Brake, B Does Not Indicate.

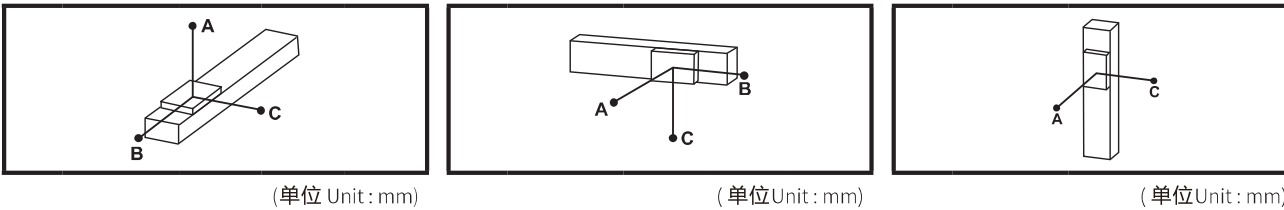
*选择行程50时，有以下限制：
When the stroke is 50mm, the sensor installation has the following restrictions.
1.原点与极限需放置与不同侧。
Home sensor and limit sensor has to be installed on the different side of body.
2.滑座左右两侧均需安装感应片。
Both sides of slider need to install the sensor trigger device

基本式样 Specification

性能 Performance	滚珠丝杆等级代号 Ballscrew Accuracy Grade Code		—		G		
	滚珠丝杆等级 Ballscrew Accuracy Grade		C7 转造 C7 Rolled Ballscrew		C5 研磨 C5 Grind Ballscrew		
	位置重复精度 Repeatability		mm	±0.005			
	标准行程 Stroke Pitch		mm	50-1250mm /50 间隔 Interval		50-700mm /50 间隔 Interval	
	滚珠丝杆导程 Ball Screw 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		水平使用 Horizontal	kg	110	88	40
垂直使用 Vertical			kg	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
部品 Parts	AC伺服电机容量 AC Servo Motor Output		W	400			
	滚珠丝杆外径 Ball Screw Ø		mm	Ø16			
	联轴器 Coupling		mm	Ø10-Ø14			
	原点及限位感应器※ Origin & Limit Sensor	外挂 Outside	EE-SX674(NPN)				

※1电机加减速设定0.2秒，Acceleration and deacceleration value is set 0.2 second.
※2长行程时，会产生滚珠丝杆偏摆，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.)
※3有关传感器另外的选型，如有需求请洽询我司业务。
For additional selection of sensors, please contact our business it you have any requirements.

容许负载悬矩表 Allowable Overhang

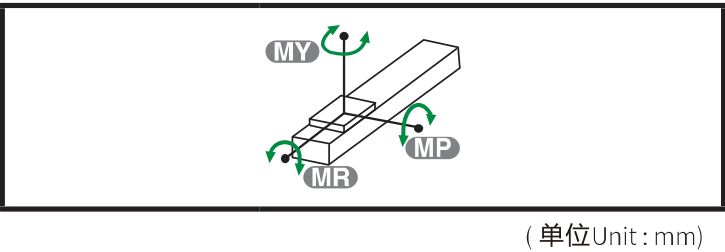


水平安装 Horizontal Installation		A	B	C
导程 5 Lead	60kg	2480	248	340
	80kg	1800	180	250
	110kg	1240	124	170
导程 10 Lead	30kg	2321	459	591
	50kg	1358	265	342
	88kg	736	140	180
导程 20 Lead	10kg	2675	1070	1153
	22kg	1194	472	510
	40kg	638	248	269
导程 32 Lead	15kg	708	448	397
	25kg	415	259	230
	30kg	341	211	189

壁挂安装 Wall Installation		A	B	C
导程 5 Lead	60kg	361	254	2540
	80kg	262	184	1840
	110kg	180	127	1270
导程 10 Lead	30kg	634	478	2321
	50kg	367	277	1358
	88kg	194	146	736
导程 20 Lead	10kg	1410	1235	2995
	22kg	626	547	1335
	40kg	332	289	713
导程 32 Lead	15kg	508	527	847
	25kg	296	306	496
	30kg	243	251	408

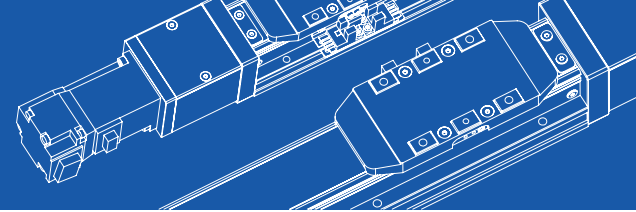
垂直安装 Vertical Installation		A	C
导程 5 Lead	15kg	1188	1188
	22kg	810	810
	33kg	540	540
导程 10 Lead	10kg	1546	1546
	14kg	1107	1107
	22kg	702	702
导程 20 Lead	5kg	2170	2170
	7kg	1556	1556
	10kg	1089	1089
导程 32 Lead	3kg	2220	2220
	5kg	1332	1332
	8kg	832	832

静态容许负载惯量 Static Allowable Load Inertia



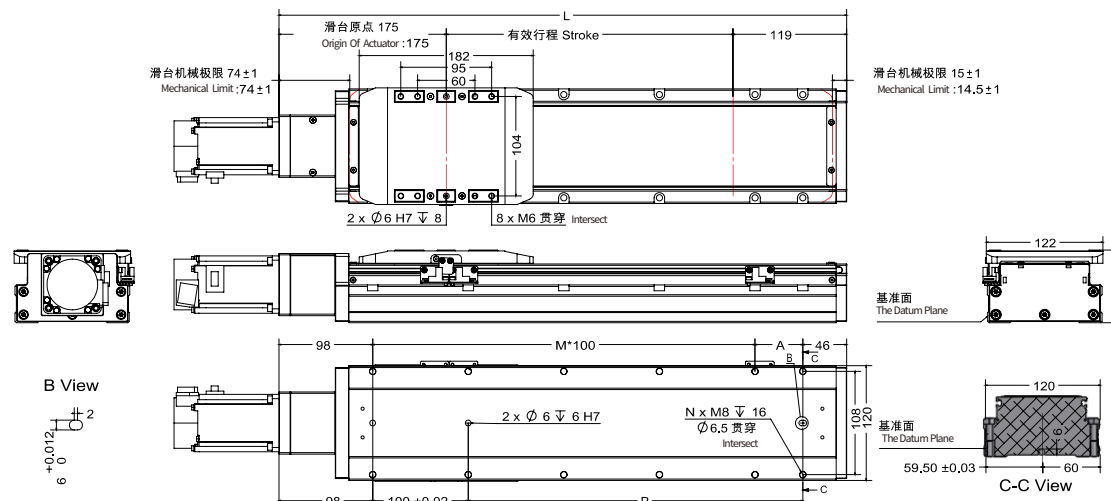
MY	606
MP	606
MR	1168

*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.
*慎用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.



E 电机外露 Motor Exposed

单位 Unit: mm

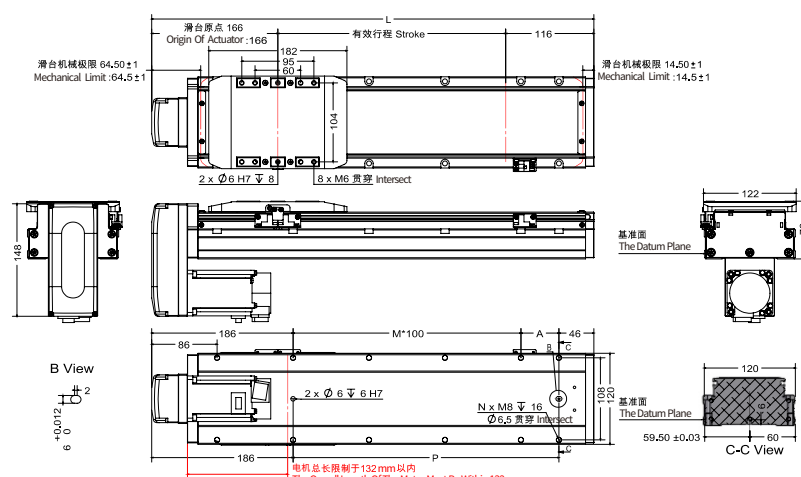


有效行程 Stroke	50 ^{±2}	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250					
极限行程 Limit Stroke (±1)	58.5	108.5	158.5	208.5	258.5	308.5	358.5	408.5	458.5	508.5	558.5	608.5	658.5	708.5	758.5	808.5	858.5	908.5	958.5	1008.5	1058.5	1108.5	1158.5	1208.5	1258.5					
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										导程 Lead 10										导程 Lead 20									
	300										600										1200									
KG	导程 Lead 5										导程 Lead 10										导程 Lead 20									
	300										600										1200									

*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.

M 电机下折 Motor Bottom Side

单位 Unit: mm

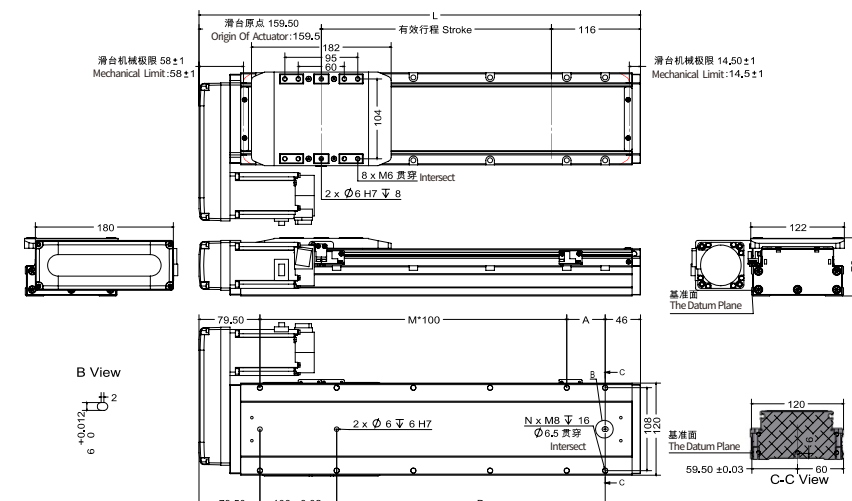


有效行程 Stroke		50 ^{±2}	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250					
极限行程 Limit Stroke (±1)		58.5	108.5	158.5	208.5	258.5	308.5	358.5	408.5	458.5	508.5	558.5	608.5	658.5	708.5	758.5	808.5	858.5	908.5	958.5	1008.5	1058.5	1108.5	1158.5	1208.5	1258.5					
线速度 Linear Speed mm/s	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										275										250									
	导程 Lead 10	600										550										500									
	导程 Lead 20	1200										1100										900									
	导程 Lead 32	1920										1760										1600									

*1 电机下折时, 若选用刹车电机, 或是超出电机总长度限制时, 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.

L 电机左折 Motor Left Side

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	12.91	13.26	13.61							
线速度 Linear Speed mm/s	导程 Lead 5	300												275												225		200		175	
	导程 Lead 10	600												550												450		400		350	
	导程 Lead 20	1200												1100												900		800		700	
	导程 Lead 32	1920												1760												1600		1440		1280	
	导程 Lead 50	2880												2640												2400		2160		1920	