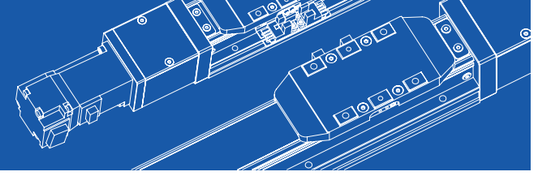
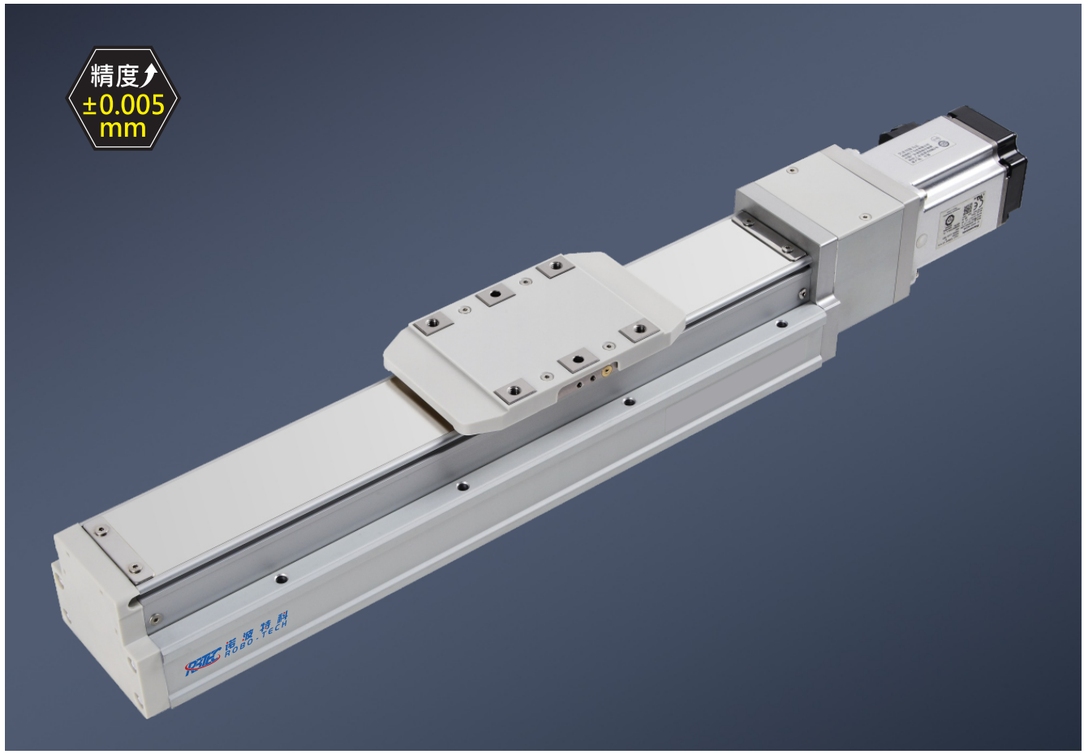
RGH8 单轴 /1-axis

▶ 轨道内嵌 Rail Built-in

▶ 滚珠丝杆驱动 Ball Screw Drive



诺波特科 RBTEC



最大行程 Maximum Stroke 1250mm | 最高速度 Maximum Speed 1200mm/s | 电机容量 Motor Output 200W | 最大可搬重量 Max Payload 50kg | 滚珠丝杆 Ball Screw ø16mm

型号表示方式 Ordering Method

RGH8 - 05 - 100 - E - M20B* - C 4 - 01

本体型号 Model

行程 Stroke

转造级 Rolled Ballscrews	50-1250 mm
研磨级 Grind Ballscrews	50-700mm

*间隔50 Interval 50 mm

丝杆 等级 Screw Grade

无	转造级 Rolled Ballscrews
G	研磨级 Grind Ballscrews

*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.

丝杆 导程 Ball Screw Lead

05	05mm
10	10mm
20	20mm

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

电机 厂牌、功率 Motor Brand、Power Output

M	三菱 Mitsubishi			
P	松下 Panasonic			
Y	安川 Yaskawa	20	200W	B
T	台达 Delta			

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

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

* 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

限位传感器 Limit Sensor

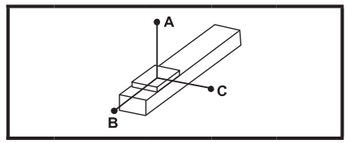
外挂型 Outside	
3	1只 1 Pc
4	2只 2 Pc
无SENSOR No Sensor	
5	无 SENSOR No Sensor

基本式样 Specification

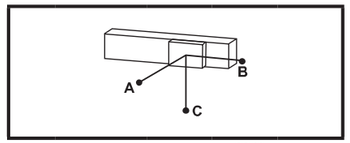
性能 Performance	滚珠丝杆 等级代号 Ballscrew Accuracy Grade Code			—	G
	滚珠丝杆 等级 Ballscrew Accuracy Grade			C7 转造 C7 Rolled Ballscrew	C5 研磨 C5 Grind Ballscrew
	位置重复精度 Repeatability		mm	±0.005	
	标准行程 Stroke Pitch		mm	50-1250mm / 50间隔 Interval	50-700mm / 50 间隔 Interval
	滚珠丝杆 导程 Ball Screw Lead		mm	5	10 / 20
	最高转速 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
部品 Parts	AC伺服电机容量 AC Servo Motor Output		W	200	
	滚珠丝杆外径 Ball Screw Ø		mm	Ø16	
	联轴器 Coupling		mm	Ø10-Ø11/14	
	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 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.

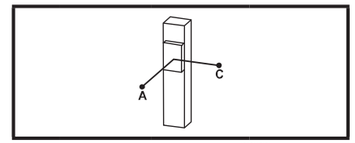
容许负载悬矩表 Allowable Overhang



(单位 Unit : mm)



(单位Unit : mm)



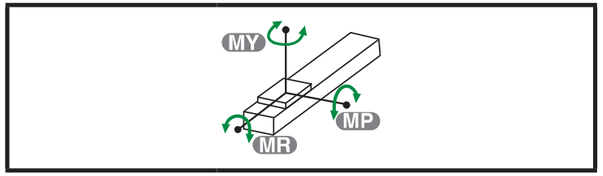
(单位Unit : mm)

水平安装 Horizontal Installation		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 Wall Installation		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 Vertical Installation		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

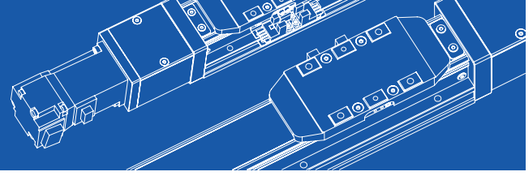
静态容许负载惯量 Static Allowable Load Inertia



(单位Unit : N.m)

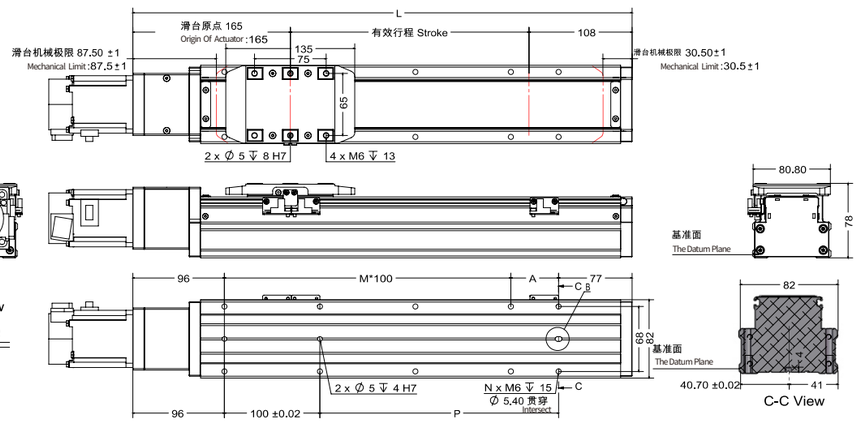
MY	318
MP	318
MR	626

*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.



E 电机外露 Motor Exposed

单位 Unit : mm

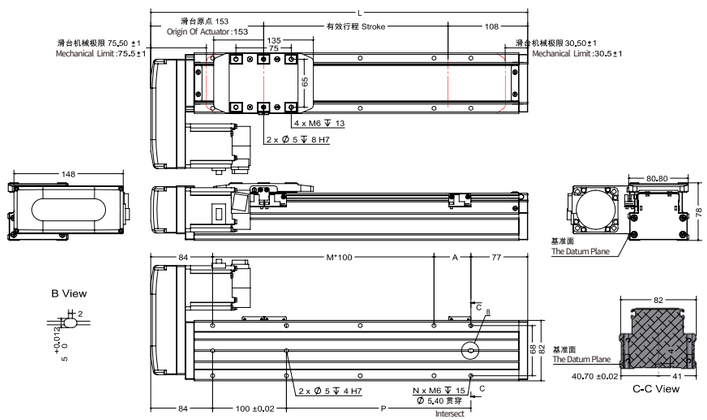


有效行程 Stroke	50[※2]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
极限行程 Limit Stroke (±1)	70	120	170	220	270	320	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270
L	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	1323	1373	1423	1473	1523
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
KG	3.91	4.29	4.7	5	5.35	5.68	6	6.35	6.64	6.97	7.41	7.71	8.12	8.41	8.65	8.96	9.37	9.62	10.01	10.28	10.7	11.12	11.54	11.96	12.38
线速度 Linear Speed mm/s 导程 Lead 5	300												292	250	250	225	200	175	150	133	117	108	100	92	83
线速度 Linear Speed mm/s 导程 Lead 10	600												583	500	500	450	400	350	300	267	233	217	200	183	167
线速度 Linear Speed mm/s 导程 Lead 20	1200												1167	1000	1000	900	800	700	600	533	467	433	400	367	333

※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

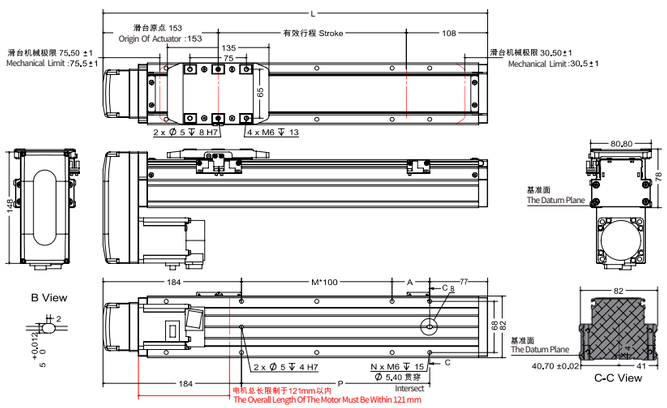


有效行程 Stroke	50[※2]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
极限行程 Limit Stroke (±1)	70	120	170	220	270	320	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270
L	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	12	13
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
KG	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.16	8.45	8.69	9	9.41	9.66	10.08	10.32	10.74	11.16	11.58	12	12.42
线速度 Linear Speed mm/s 导程 Lead 5	300												292	250	250	225	200	175	150	133	117	108	100	92	83
线速度 Linear Speed mm/s 导程 Lead 10	600												583	500	500	450	400	350	300	267	233	217	200	183	167
线速度 Linear Speed mm/s 导程 Lead 20	1200												1167	1000	1000	900	800	700	600	533	467	433	400	367	333

※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.

M 电机下折 Motor Bottom Side

单位 Unit : mm



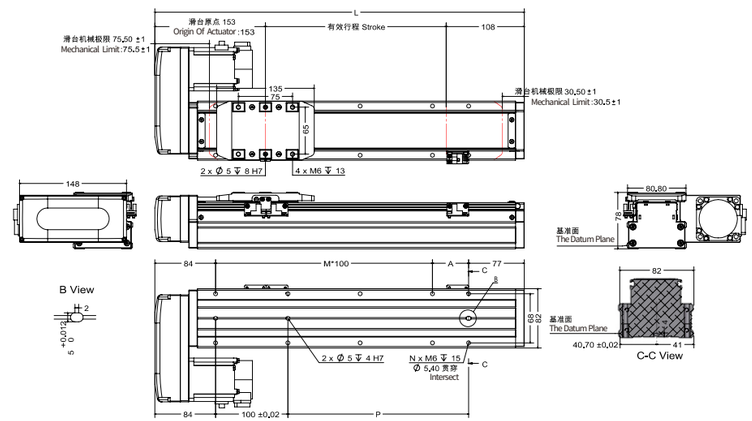
有效行程 Stroke	50[※2]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
极限行程 Limit Stroke (±1)	70	120	170	220	270	320	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270
L	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12
N	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
KG	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.16	8.45	8.69	9	9.41	9.66	10.08	10.32	10.74	11.16	11.58	12	12.42
线速度 Linear Speed mm/s 导程 Lead 5	300												292	250	250	225	200	175	150	133	117	108	100	92	83
线速度 Linear Speed mm/s 导程 Lead 10	600												583	500	500	450	400	350	300	267	233	217	200	183	167
线速度 Linear Speed mm/s 导程 Lead 20	1200												1167	1000	1000	900	800	700	600	533	467	433	400	367	333

※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.

R 电机右折 Motor Right 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)	70	120	170	220	270	320	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270
L	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
KG	3.95	4.33	4.74	5.09	5.39	5.72	6.04	6.39	6.68	7.01	7.45	7.75	8.16	8.45	8.69	9	9.41	9.66	10.08	10.32	10.74	11.16	11.58	12	12.42
线速度 Linear Speed mm/s 导程 Lead 5	300												292	250	250	225	200	175	150	133	117	108	100	92	83
线速度 Linear Speed mm/s 导程 Lead 10	600												583	500	500	450	400	350	300	267	233	217	200	183	167
线速度 Linear Speed mm/s 导程 Lead 20	1200												1167	1000	1000	900	800	700	600	533	467	433	400	367	333

※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.