

BTH120 单轴/1-axis

▶ 轨道内镶 Built-in Guideway ▶ 螺杆驱动 Ball Screw Drive



此图仅供参考, 出货规格详见尺寸图面
The picture is just for the reference. Please check the actual dimensions on the drawing.

最大行程 Maximum Stroke: 1000mm
最高速度 Maximum Speed: 1000mm/s
马达容量 Motor Output: 400W
滚珠螺杆 Ball Screw: Ø16mm

型号表示方式 Ordering Method

BTH120- L10 - 100 - BC - M40B - C 4 - 0001



*选择行程50时, 有以下限制:
When the stroke is 50mm, the sensor installation has the following restrictions:
1. 原点与极限感应器置于不同侧。
Home sensor and limit sensor has to be installed on the different side of body.
2. 滑轨左右两侧均需安装感应元件。
Both sides of slider need to install the sensor trigger device.

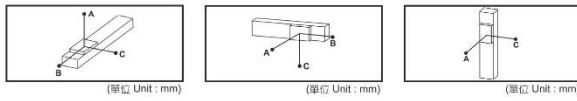


基本式样 Specification

规格 Spec	位置重复精度 Repeatability (mm)	±0.01			
	螺杆导程 Ball Screw Lead (mm)	5	10	20	
	最高速度 Maximum Speed (mm/s)	250	500	1000	
	最大可搬重量 Repeatability (kg)	水平使用 Horizontal (kg)	110	88	40
		垂直使用 Vertical (kg)	33	22	10
定格推力 Rated Thrust (N)	1388	694	347		
标准行程 Stroke Pitch (mm)	50-1000mm/50间隔 50mm Pitch				
部品 Parts	AC伺服马达容量 AC Servo Motor Output (W)	400			
	滚珠螺杆外径 Ball Screw Ø (mm)	C7Ø16			
	联轴器 Coupling (mm)	10X14			
	原点感应器 Home Sensor	外挂 Outside	FF-U674(NPN)		

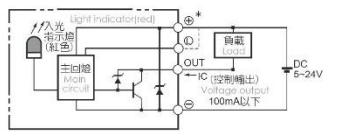
*行程超过750时, 会产生螺杆偏摆, 此时请将速度调降。
When the stroke is over 750 mm, the run-out of the ball screw will occur. We recommend to low down the working speed under this circumstances.
*马达加速设定0.2秒。
Acceleration and deceleration value is set 0.2 second.

容许负载力矩表 Allowable Overhang

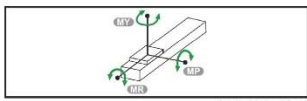


水平安装 Horizontal Installation				壁挂安装 Vertical Installation				垂直安装 Vertical Installation			
行程 Stroke	重量 Weight	A	B	C	重量 Weight	A	B	C	重量 Weight	A	C
行程 5 Lead	60kg	2850	250	340	55kg	280	280	3300	15kg	1200	331
	80kg	2100	180	250	75kg	200	195	2400	22kg	820	220
	110kg	1500	120	170	110kg	130	125	1550	33kg	550	-
行程 10 Lead	30kg	2850	490	600	35kg	400	410	2500	10kg	1600	589
	50kg	1700	280	350	55kg	245	250	1550	14kg	1150	368
	88kg	950	140	190	88kg	150	150	950	22kg	730	-
行程 20 Lead	10kg	3400	1250	1400	12kg	900	1070	3000	7kg	1800	935
	22kg	1650	550	620	22kg	1650	550	630	10kg	1250	-
	40kg	900	290	330	40kg	260	300	900	-	-	-

感应器接线图<原点及端点> Sensor Layout



静态容许负载力矩表 Static Loading Moment



MY	1168
MP	606
MR	606

*力矩表所表示的数据, 代表重心。
The torque value in the chart indicate the center of gravity.
*符合安装条件的安装式样下, 保证寿命为10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
*侧用数据无法套用标准规范, 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

品牌 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 (Vertical 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

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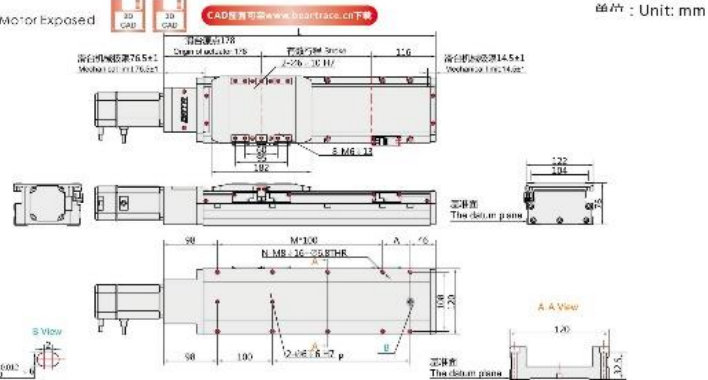


服务热线:0769-28686186

马达外露/马达下折

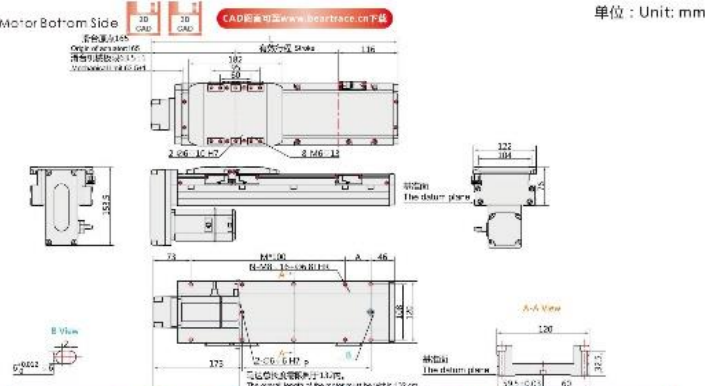
Motor Exposed / Motor Bottom Side

BC 马达外露 Motor Exposed



有效行程 Stroke	标准行程 Standard Trip										非标行程 Allow Trip									
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	364	394	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	8	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
P	100	100	200	200	300	350	400	400	500	550	600	700	750	800	850	900	900	1000	1000	1000
KG	7.9	5.4	8.9	9.37	9.84	10.3	10.77	11.23	11.7	12.16	12.73	13.19	13.66	14.12	14.59	15.05	15.6	16	15.45	17

BD 马达下折 Motor Bottom Side

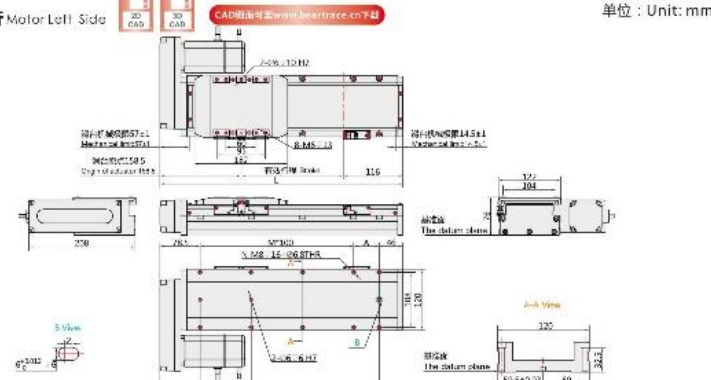


有效行程 Stroke	标准行程 Standard Trip										非标行程 Allow Trip									
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	334.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10
N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24
P	100	100	200	200	300	350	400	400	500	550	600	700	750	800	850	900	900	1000	1000	1000
KG	7.79	5.5	8.92	9.54	10.18	10.78	11.4	12.02	12.74	13.38	14.05	14.8	15.22	15.86	16.45	17.1	17.42	18.04	18.88	

马达左折/马达右折

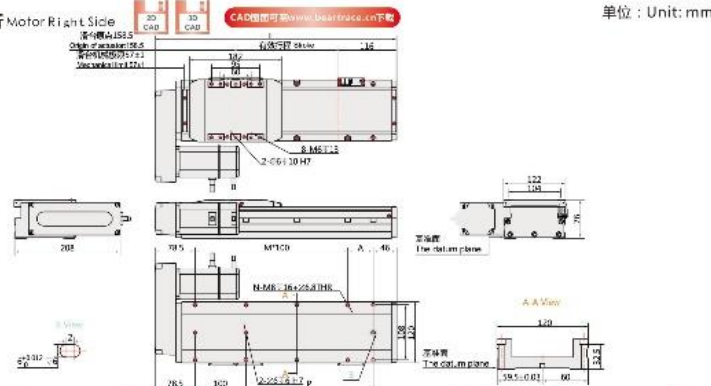
Motor Left Side / Motor Right Side

BL 马达左折 Motor Left Side



有效行程 Stroke	标准行程 Standard Trip										非标行程 Allow Trip									
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	324.5	374.5	424.5	474.5	524.5	574.5	624.5	674.5	724.5	774.5	824.5	874.5	924.5	974.5	1024.5	1074.5	1124.5	1174.5	1224.5	1274.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	8	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1000
KG	7.99	9.5	9.12	9.74	10.36	10.98	11.6	12.22	12.84	13.66	14.18	14.8	15.42	16	16.66	17.28	17.9	18.52	19.24	19.86

BR 马达右折 Motor Right Side



有效行程 Stroke	标准行程 Standard Trip										非标行程 Allow Trip									
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	324.5	374.5	424.5	474.5	524.5	574.5	624.5	674.5	724.5	774.5	824.5	874.5	924.5	974.5	1024.5	1074.5	1124.5	1174.5	1224.5	1274.5
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
P	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1000
KG	7.99	8.5	9.12	9.74	10.36	10.98	11.6	12.22	12.84	13.66	14.18	14.8	15.42	16	16.66	17.28	17.9	18.52	19.24	19.86