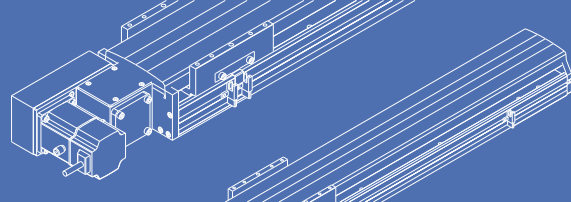
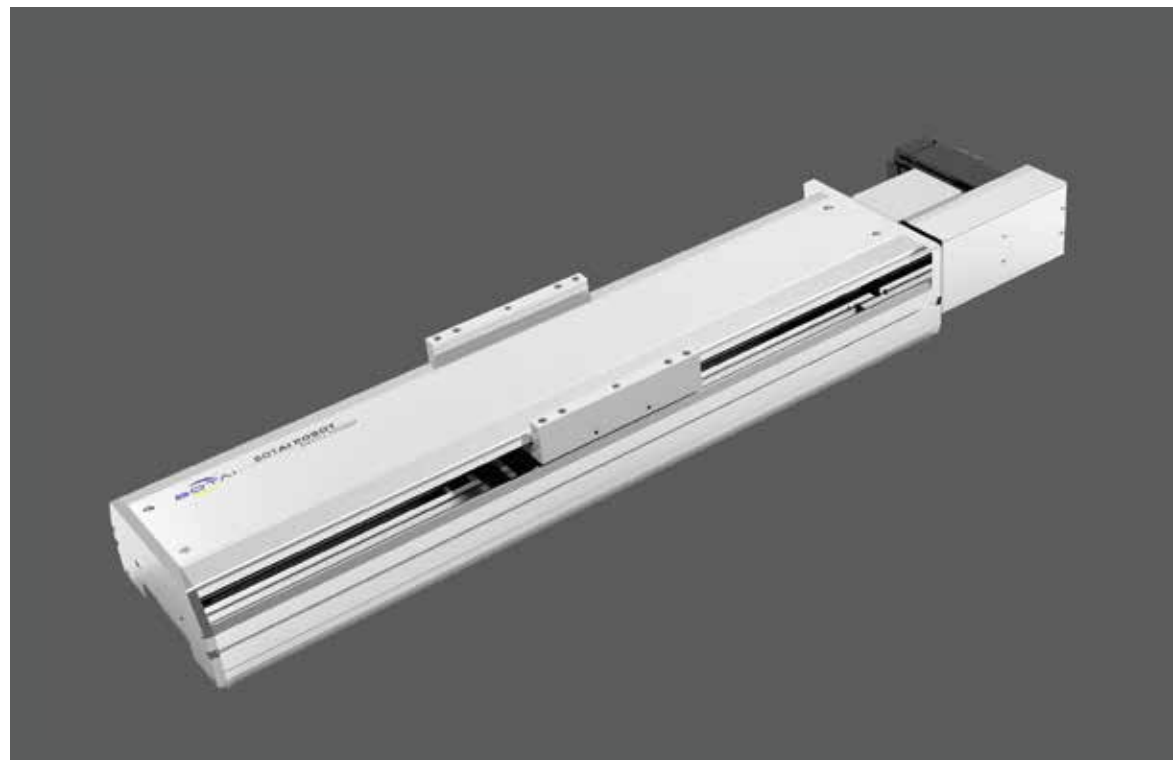


BTB14M 單軸/1-axis

▶ 皮帶驅動
Belt Drive



BOTAI INTELLIGENT
2020・綜合目錄

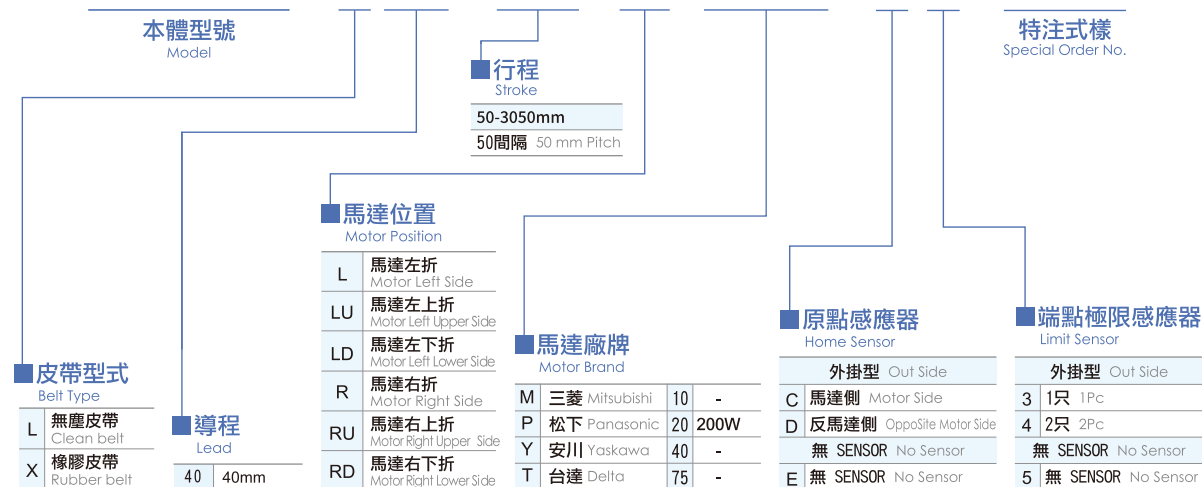


此圖僅供參考，出貨規格詳見尺寸圖面
The picture is just for the reference, Please check the the actual dimensions on the drawing.

最大行程 Maximum Stroke	3050mm	最高速度 Maximum Speed	2000mm/s	馬達容量 Motor Output	200W	皮帶寬度 Belt Width	25 mm	直線滑軌 Linear Guide	15X12.5-2支
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型號表示方式 Ordering MBTHod

BTB14M - L 40 - 100 - L - M 20 - C 4 - 0001



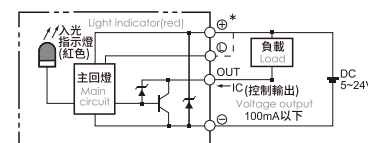
※選擇步進電機請諮詢銷售。

基本仕様 Specification

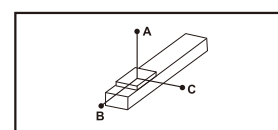
規格 Spec	位置重複精度 Repeatability (mm)	±0.04
	導程 Lead (mm)	40
	最高速度 Maximum Speed (mm/s)	2000
	最大可搬重量 Maximum Payload	水平使用 Horizontal (kg) 25 垂直使用 Vertical (kg)
	定格推力 Rated Thrust (N)	100
	標準行程 Stroke Pitch (mm)	50-3050mm/50間隔 50 mm Pitch
部品 Parts	AC伺服馬達容量 AC Servo Motor Output (W)	200
	皮帶寬度 Belt Width	25
	高刚性直線滑軌 High Rigidity Linear Guide (mm)	W15XH12.5
	原點感應器 Home Sensor	外掛 Outside EE-SX672(NPN)

※馬達加減速設定0.4秒。
Acceleration and deceleration value is set 0.4 second.

感應器接線圖<原點極端點> Sensor Layout

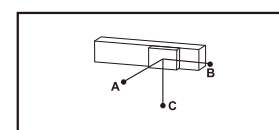


容許負載力距表 Allowable Overhang



(單位 Unit : mm)

水平安裝 Horizont install dian	A	B	C
10kg	1794	688	538
20kg	858	324	253
25kg	670	251	197

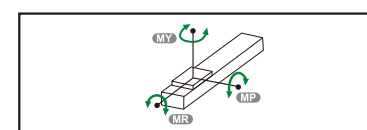


(單位 Unit : mm)

壁掛安裝 Wall installation	A	B	C
15kg	348	446	1170
18kg	285	365	961
25kg	197	251	670

※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
※倒吊使用無法套用標準規範，如有需求請洽詢我司業務。
Data information is not for ceiling-mount inverse use.
Contact us for the details if you want to apply ceiling-mount inverse usage.

靜態容許負載慣量 Static Loading Moment



(單位 Unit : N.m)

MY	551
MP	552
MR	485

搭配伺服馬達一覽表 Suitable Motor Brand

廠牌 Brand	馬達記號 Mark	煞車有無 Brake	馬達容量 Watt	電源電壓 AC-Voltage	伺服馬達型號 Motor Model	驅動器型號 Driver Model
三菱 Mitsubishi	M	無煞車(水平仕様) No Brake (Horizontal Type)	200	220	HG-KR23	MR-J4-20A
松下 Panasonic	P	無煞車(水平仕様) No Brake (Horizontal Type)	200	220	MHMD022G1U	MADHT1507
台達 Delta	T	無煞車(水平仕様) No Brake (Horizontal Type)	200	220	ECMA-C20602ES	ASD-B20221-B

應用例
Application

一般/軌道內嵌
CTH / CTY

一般/螺桿仕様
BTH

一般/圓基滑台
KH

一般/皮帶仕様
BTB / B

無塵/螺桿仕様
BCH

無塵/皮帶仕様
BCB

參考資料
Reference

單軸
1 axis
BTB

BTB6

BTB10

BTB11

BTB14M

BTB17M

BTB22M

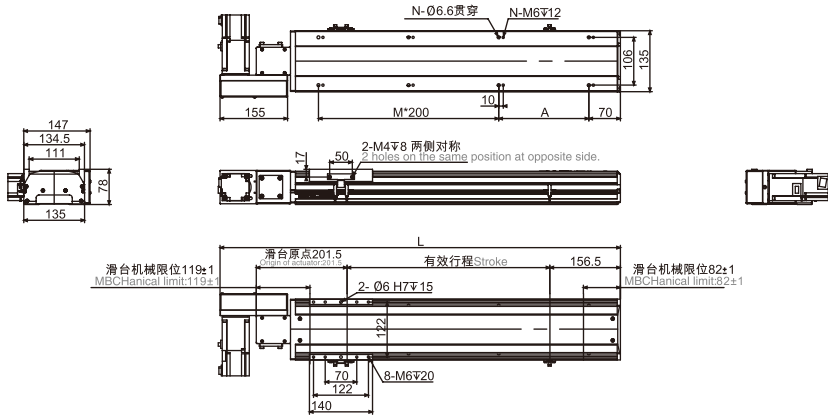
馬達左折/馬達右折

Motor Left Side / Motor Right Side

L 馬達左折 Motor Left Side



單位 Unit : mm

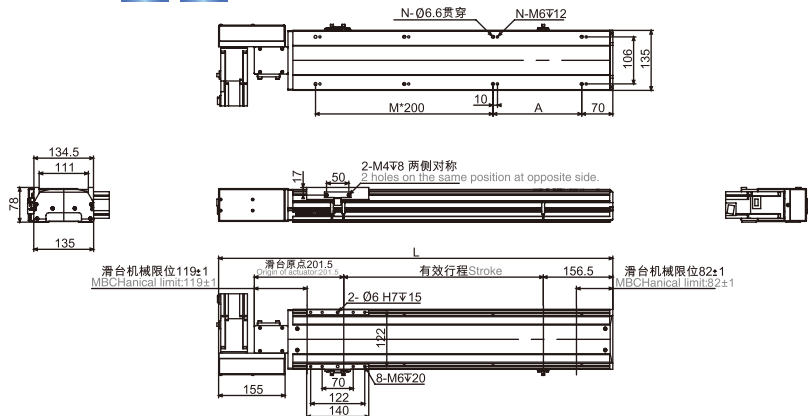


有效行程 stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
L	493.5	543.5	593.5	643.5	693.5	743.5	793.5	843.5	893.5	943.5	993.5	1043.5	1093.5	1143.5	1193.5	1243.5	1293.5	1343.5	1393.5	1443.5	1493.5	1543.5	1593.5	1643.5	1693.5	1743.5	1793.5	1843.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	6	6	7	7	7	7	7
N	4	6	6	6	6	8	8	8	10	10	10	10	10	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1
有效行程 stroke	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800
L	1893.5	1943.5	1993.5	2043.5	2093.5	2143.5	2193.5	2243.5	2293.5	2343.5	2393.5	2443.5	2493.5	2543.5	2593.5	2643.5	2693.5	2743.5	2793.5	2843.5	2893.5	2943.5	2993.5	3043.5	3093.5	3143.5	3193.5	3243.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	9	10	10	10	10	11	11	11	12	12	12	12	13	13	13	13	14	14	14
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32
KG	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	39.5

R 馬達右折 Motor Right Side



單位 Unit : mm



有效行程 stroke	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	1300	1350	1400
L	493.5	543.5	593.5	643.5	693.5	743.5	793.5	843.5	893.5	943.5	993.5	1043.5	1093.5	1143.5	1193.5	1243.5	1293.5	1343.5	1393.5	1443.5	1493.5	1543.5	1593.5	1643.5	1693.5	1743.5	1793.5	1843.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	6	6	7	7	7	7	7
N	4	6	6	6	6	8	8	8	10	10	10	10	10	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1
有效行程 stroke	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800
L	1893.5	1943.5	1993.5	2043.5	2093.5	2143.5	2193.5	2243.5	2293.5	2343.5	2393.5	2443.5	2493.5	2543.5	2593.5	2643.5	2693.5	2743.5	2793.5	2843.5	2893.5	2943.5	2993.5	3043.5	3093.5	3143.5	3193.5	3243.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	9	10	10	10	10	11	11	11	12	12	12	12	13	13	13	13	14	14	14
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32
KG	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	39.5

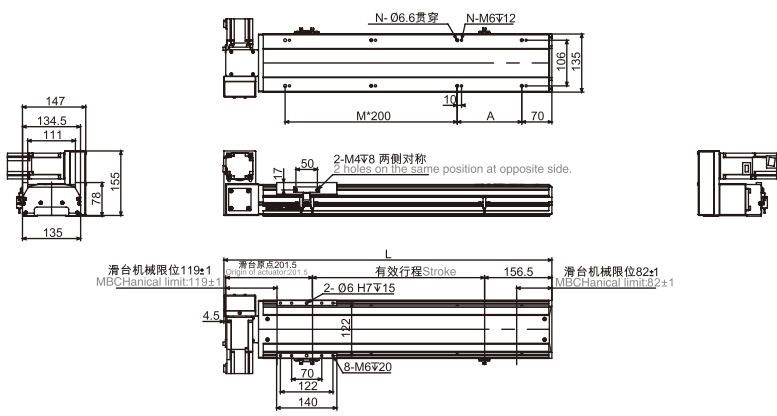
馬達左上折/馬達右上折

Motor Left Upper Side / Motor Right Upper Side

LU 馬達左上折 Motor Left Upper Side



單位 Unit : mm

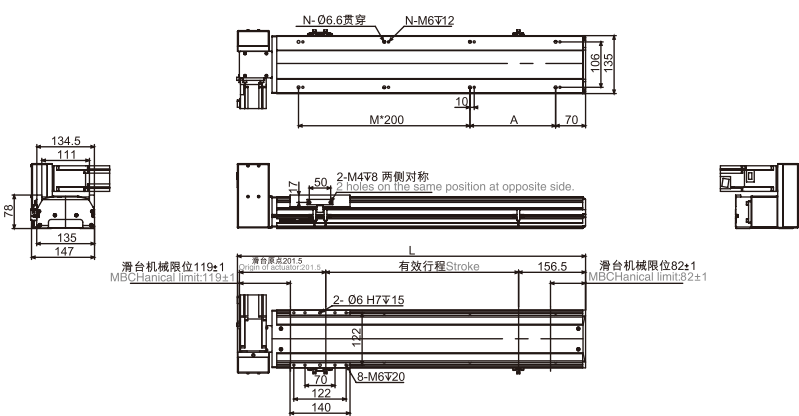


有效行程 stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
L	412.5	462.5	512.5	562.5	612.5	662.5	712.5	762.5	812.5	862.5	912.5	962.5	1012.5	1062.5	1112.5	1162.5	1212.5	1262.5	1312.5	1362.5	1412.5	1462.5	1512.5	1562.5	1612.5	1662.5	1712.5	1762.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	6	6	7	7	7	7	7
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1
有效行程 stroke	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800
L	1812.5	1862.5	1912.5	1962.5	2012.5	2062.5	2112.5	2162.5	2212.5	2262.5	2312.5	2362.5	2412.5	2462.5	2512.5	2562.5	2612.5	2662.5	2712.5	2762.5	2812.5	2862.5	2912.5	2962.5	3012.5	3062.5	3112.5	3162.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	9	10	10	10	10	11	11	11	12	12	12	12	13	13	13	13	14	14	14
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32
KG	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	39.5

RU 馬達右上折 Motor Right Upper Side



單位 Unit : mm



有效行程 stroke	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	1300	1350	1400
L	412.5	462.5	512.5	562.5	612.5	662.5	712.5	762.5	812.5	862.5	912.5	962.5	1012.5	1062.5	1112.5	1162.5	1212.5	1262.5	1312.5	1362.5	1412.5	1462.5	1512.5	1562.5	1612.5	1662.5	1712.5	1762.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	6	6	7	7	7	7	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1
有效行程 stroke	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800
L	1812.5	1862.5	1912.5	1962.5	2012.5	2062.5	2112.5	2162.5	2212.5	2262.5	2312.5	2362.5	2412.5	2462.5	2512.5	2562.5	2612.5	2662.5	2712.5	2762.5	2812.5	2862.5	2912.5	2962.5	3012.5	3062.5	3112.5	3162.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	13	13	13	13	14	14	14	14
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32
KG	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	39.5

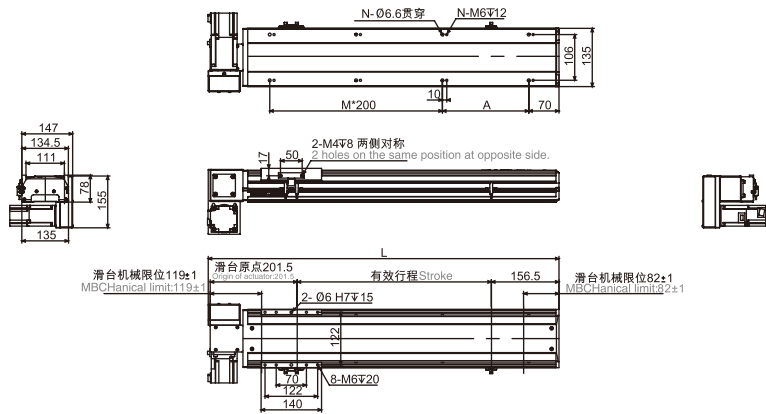
馬達左下折/馬達右下折

Motor Left Lower Side / Motor Right Lower Side

LD 馬達左下折 Motor Left Lower Side



單位 Unit : mm

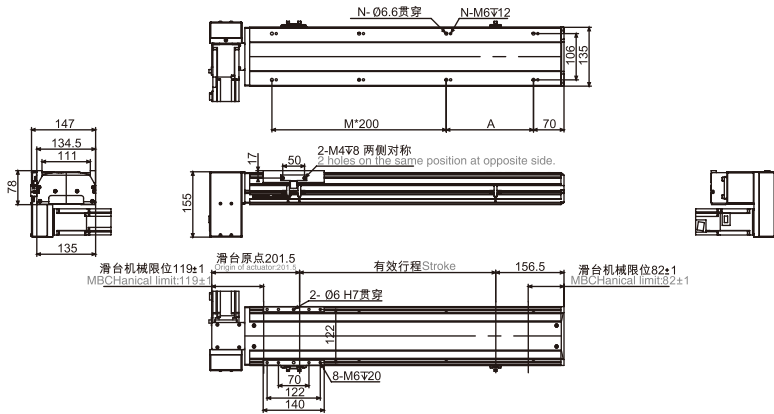


有效行程 stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
L	412.5	462.5	512.5	562.5	612.5	662.5	712.5	762.5	812.5	862.5	912.5	962.5	1012.5	1062.5	1112.5	1162.5	1212.5	1262.5	1312.5	1362.5	1412.5	1462.5	1512.5	1562.5	1612.5	1662.5	1712.5	1762.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	
N	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1
有效行程 stroke	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800
L	1812.5	1862.5	1912.5	1962.5	2012.5	2062.5	2112.5	2162.5	2212.5	2262.5	2312.5	2362.5	2412.5	2462.5	2512.5	2562.5	2612.5	2662.5	2712.5	2762.5	2812.5	2862.5	2912.5	2962.5	3012.5	3062.5	3112.5	3162.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32
KG	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	39.5

RD 馬達右下折 Motor Right Lower Side



單位 Unit : mm



有效行程 stroke	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	1300	1350	1400
L	412.5	462.5	512.5	562.5	612.5	662.5	712.5	762.5	812.5	862.5	912.5	962.5	1012.5	1062.5	1112.5	1162.5	1212.5	1262.5	1312.5	1362.5	1412.5	1462.5	1512.5	1562.5	1612.5	1662.5	1712.5	1762.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18
KG	8.2	8.6	9	9.5	10	10.5	11	11.4	12	12.4	13	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.3	17.9	18.5	19.1	19.7	20.3	20.9	21.5	22.1
有效行程 stroke	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800
L	1812.5	1862.5	1912.5	1962.5	2012.5	2062.5	2112.5	2162.5	2212.5	2262.5	2312.5	2362.5	2412.5	2462.5	2512.5	2562.5	2612.5	2662.5	2712.5	2762.5	2812.5	2862.5	2912.5	2962.5	3012.5	3062.5	3112.5	3162.5
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14
N	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32
KG	22.7	23.3	23.9	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3	29.9	30.5	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7	38.3	39.5

MEMO

應用例
Application

一般/軌道內嵌
CTH / CTY

一般/螺桿仕様
BTH

一般/簡基滑台
KH

一般/皮帶仕様
BTB / B

無塵/螺桿仕様
BCH

無塵/皮帶仕様
BCB

參考資料
Reference

單軸
1 axis
BTB

BTB6

BTB10

BTB11

BTB14M

BTB17M

BTB22M