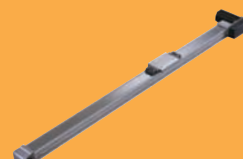




M Series

Standard/Belt Type (Europe Type)

CONTENTS

Standard/Ball Screw		
SMALL MH65		Width 65mm Max. stroke 3000mm277 Recommended payload 15kg
MEDIUM MH80		Width 80mm Max. stroke 3000mm281 Recommended payload 25kg
SMALL MK65		Width 65mm Max. stroke 5000mm285 Recommended payload 60kg
MEDIUM MK85		Width 85mm Max. stroke 5000mm293 Recommended payload 100kg
LARGE MK110		Width 110mm Max. stroke 4800mm301 Recommended payload 200kg
SMALL MG65		Width 66mm Max. stroke 3700mm309 Recommended payload 52kg

軌道內嵌歐規皮帶滑台優勢

NEW PRODUCT

Built-in Linear Motion Guide Europe Type Belt Actuator Advantages

應用例
Application一般 / 螺桿仕様
GTH / GTV / ETH / Y一般 / 皮帶仕様
M無塵 / 螺桿仕様
GCH / ECH無塵 / 皮帶仕様
ECB直交連結
XYGT / XYTH / XYTB參考資料
Reference

MG50

MG65

MG85

長行程 Long stroke

標準行程可做到 3.7 米。

Up to 3.7m for standard stroke. Custom order for extended stroke.

Max. stroke
最長行程

3700 mm

精度改善 Better repeatability

使用齒輪機構來實現平滑且準確的運動，高抗扭特性，能確保長行程運作下也可達到微米的定位精度。

Utilizing a gear mechanism to achieve smooth and precise motion, high resistance to torque, ensuring micrometer positioning accuracy even during long strokes.

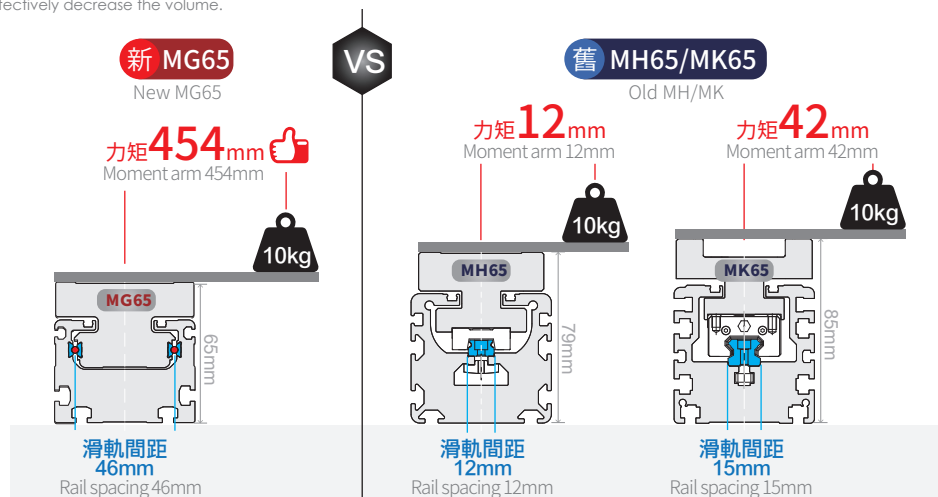
Repeatability
重複定位精度

±0.04 mm

力矩改善 Enhanced resistance to directional torque.

以歐規皮帶滑台產品而言，MG65 與舊款 MH65/MK65 比較，滑軌間距寬度最大，故可承受之側向力矩也最大。同時，高度降低，尺寸與體積也有效縮小。

For M series. Comparing MG65 with MH65/MK65, the rail spacing is the widest. Therefore MG65 can handle the highest directional torque. Further more, we reduce the height of MG65. Effectively decrease the volume.



高荷重、高剛性 High payload, High Rigidity

高剛性齒輪機構的設計，能夠承受較大負載。非常適合處理重物或具高負載的應用。能夠穩定運與定位。適用低外部振動場合。

High rigidity gear design which can handle higher payload. Suitable for transferring heavy object for it's smooth movement and positioning. Suitable for low vibration application.

Max. payload
最高荷重

97 kg

高速度 Higher speed

可實現快速的運動和高加速度。

Fast motion and acceleration.

Max. speed
最高速度

3500 mm/s

軌道內嵌歐規皮帶滑台優勢

Built-in Linear Motion Guide Europe Type Belt Actuator Advantages

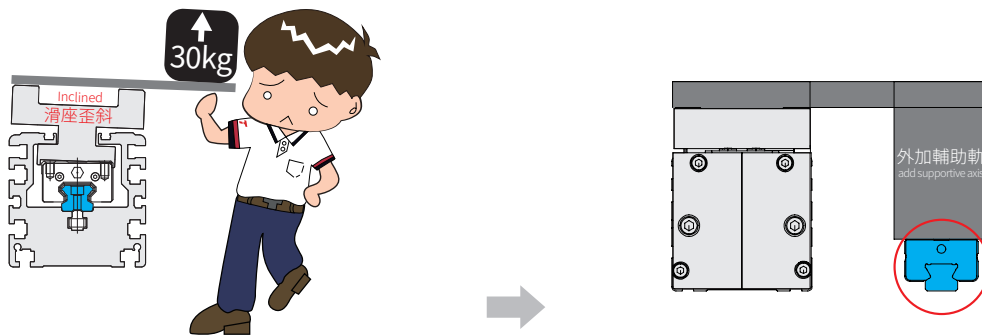
多應用於超過2000mm長距離且高速度、點對點的搬運、噴塗、點膠等。實現大動作的範圍應用。
Mostly use in over 2000mm long-stroke application, such as pick and place, painting or dispensing, etc.

改善力矩 Enhanced resistance to directional torque.

以歐規皮帶滑台產品而言，MG65 與舊款 MH65/MK65 比較，滑軌間距寬度最大，故可承受之側向力矩也最大。同時，高度降低，尺寸與體積也有效縮小。

For M series. Comparing MG65 with MH65/MK65, the rail spacing is the widest. Therefore MG65 can handle the highest directional torque. Further more, we reduce the height of MG65. Effectively decrease the volume.

舊款 MK 系列 Previous MK series



C 方向力矩荷重過大時，滑座會傾斜，如何改善變形量？

When the moment load is too large, the slider will be inclined.

How to improve the deformation?

- 增加輔助軌
- Add supportive axis
- 改善滑座變形量
- Improve the amount of deformation of the slider.
- 成本增加
- Cost up.

新款 MG 系列 (MG65 為例) New MG series(MG65 for example)



- 滑軌間距加大
- Rail spacing increased
- C 側向力矩可達 50kg
- C lateral Moment can be reach to 50kg
- 不需另外增加輔助軌，減少成本
- No need to add additional supportive axis, reducing costs.



可多軸連結，不需連接板

No bracket needed for building multi axis system

滑座延伸設計，新增通孔，多軸連結不須連結版，滑座可直接和本體鎖固。可組成各種多軸連結。

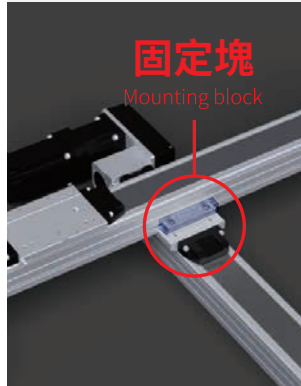
Slider extension design with through holes for securing. No bracket needed for building multi axis system. Direct secure though slider and body. Supporting various multi-axis connections.



上鎖 OK Top-down secure

固定塊卡住上面滑台溝槽
往下鎖在下方滑座上

Slide the end block into the rail, then top-down secure the actuator on the carriage of another actuator.



下鎖 OK Bottom-up secure

直接使用對位孔
由下往上鎖

Direct mount though the bottom thread hole.



龍門同動移載組合

Two axes with drive shaft



XY龍門連桿同動

Gantry with drive shaft



XYZ龍門連桿同動

Three axes gantry with drive shaft



XY龍門連桿同動+Y軸側掛

Gantry with side mount Y axis



XYZ龍門連桿同動+Y軸側掛+Z軸推桿

Three axes gantry with side mount Y and Rod style Z



懸臂連結

Cantilever MAS



十字型連結

Cross MAS



雙滑座龍門同動

Gantry with two carriage

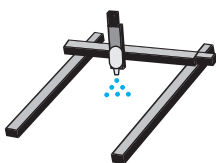


應用例

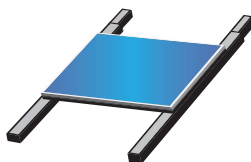
Applications

舉凡大面積、長距離的搬運，皆可使用。目前面板業及 PCB 產業皆有大量導入。

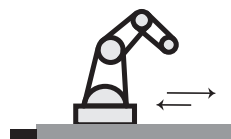
It is suitable for large area and long distance applications. We also have a lot of user applied MG in panel and PCB manufacturing industry.



噴塗設備
Spraying equipment/
Painting Equipment



面板/PCB板搬運
Panel/PCB board handling

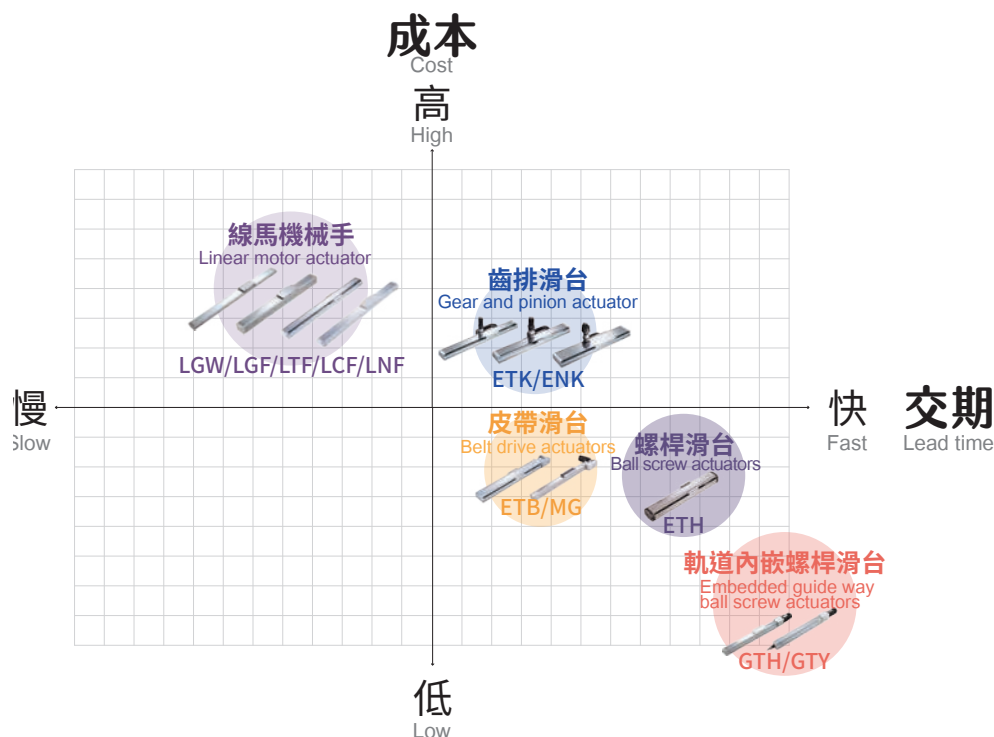


機械手臂走行軸
Robotic arm handling application

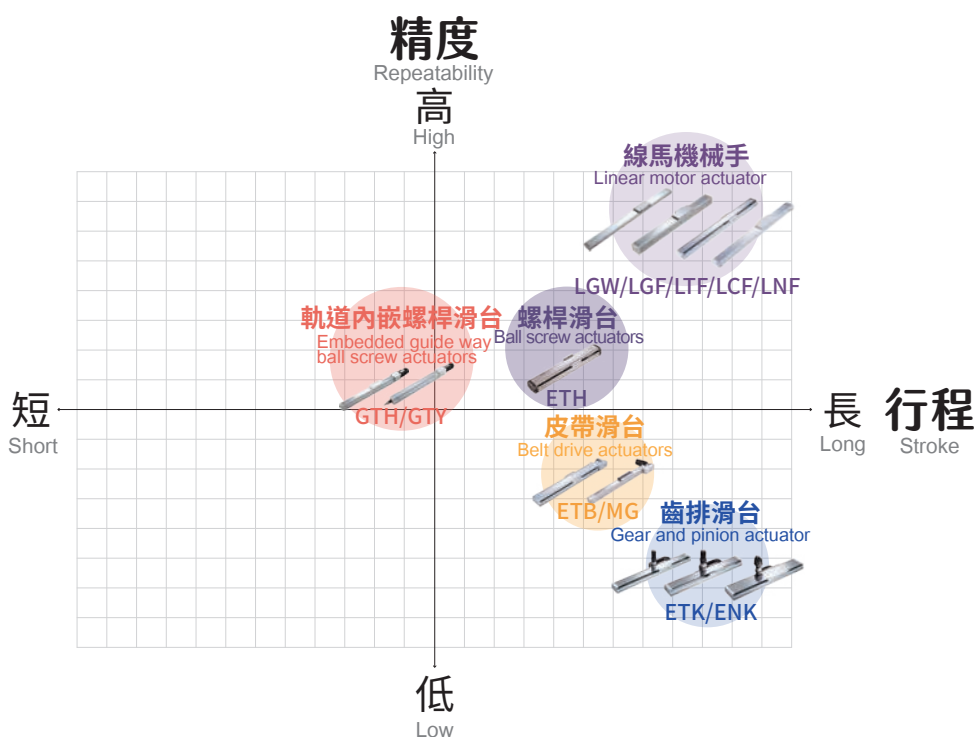
皮帶滑台與其他驅動方式之比較

Built-in Linear Motion Guide Europe Type Belt Actuator Advantages

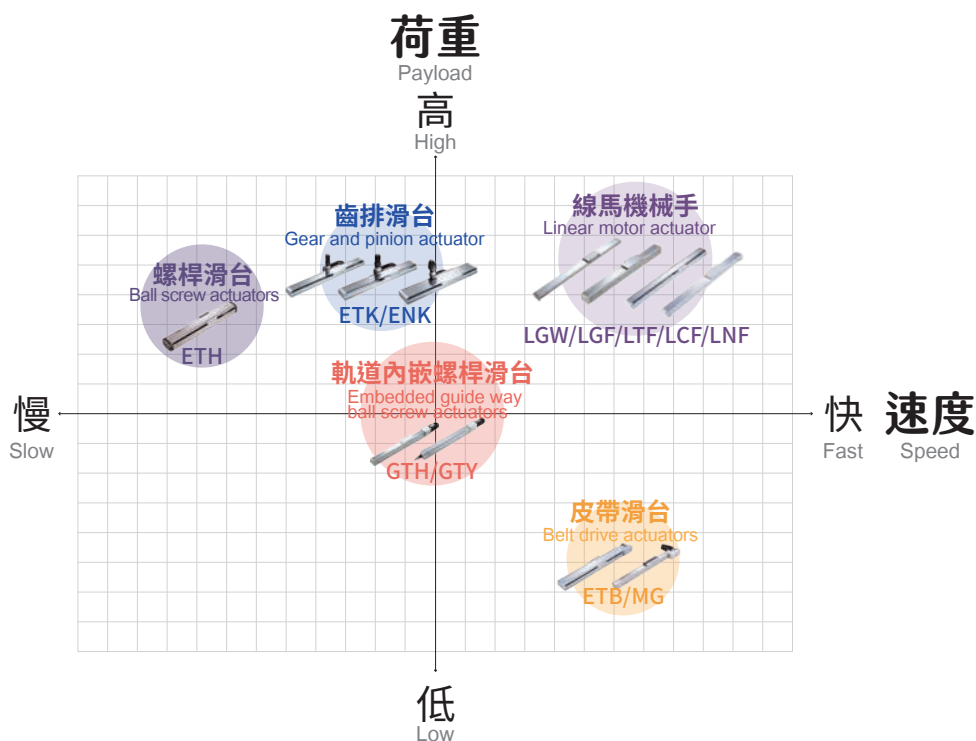
成本 / 交期比較 Cost / Lead time comparison



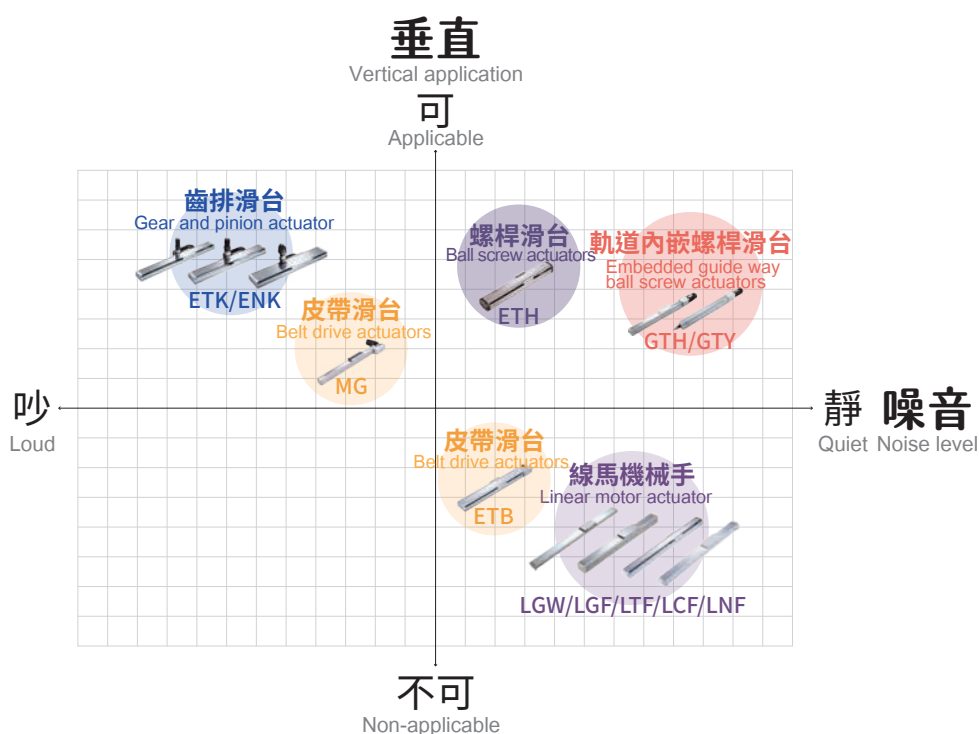
行程 / 精度比較 Stroke / repeatability comparison



荷重 / 速度比較 Payload / speed comparison



垂直 / 噪音比較 Payload / speed comparison



內部結構圖-軌道內嵌歐規皮帶滑台

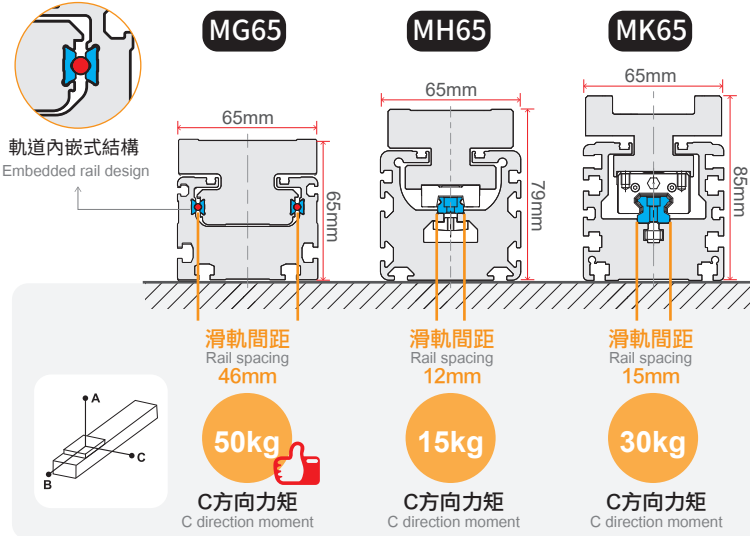
Inner structure

Built-in Linear Motion Guide Europe Type Belt Actuator

軌道內嵌式結構，力矩更大 Lateral Moment Improved

以歐規皮帶滑台產品而言，MG65與舊款MH65/MK65比較，滑軌間距寬度最大，故可承受之側向力矩也最大。同時，高度降低，尺寸與體積也有效縮小。

In terms of European standard belt type products, compared with the old MH65/MK65, MG65 has the largest width of the guide rails, so it can withstand the largest lateral moment. At the same time, height, size and volume are also effectively reduced.



專利加油嘴設計(標配)

Patented Greasing Hole(Optional)

業界唯一專利加油嘴設計，由滑座上單一加油嘴注油，可同時對滑軌與滑塊做注油保養，讓您在維修保養上更方便、省時。加油嘴可依客戶需求選擇安裝方向。

(Industry only) Patented single grease fitting on the slide to lubricate multiple areas which can reduce maintenance overhead and time. Grease fitting can also be tailored to customer specified orientation.



專利加油嘴設計
Patented grease fitting design

(專利註冊，仿冒必究)
Copyright ©



防塵鋼帶
Dust-proof Cover Strip

全系列皆安裝防塵鋼帶。

All Series Come With Dust-proof Cover Strip.

垂直使用 Vertical application

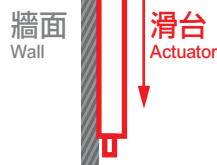
全系列皆可垂直使用。

Able to use in vertical application.

固定方式:

本體可在側邊安裝固定塊固定或由下往上固定本體溝槽。

Fixing method:
Able to mount the unit from top and bottom side.

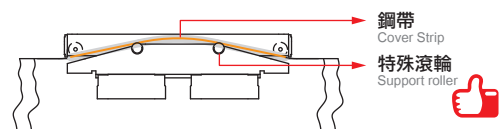


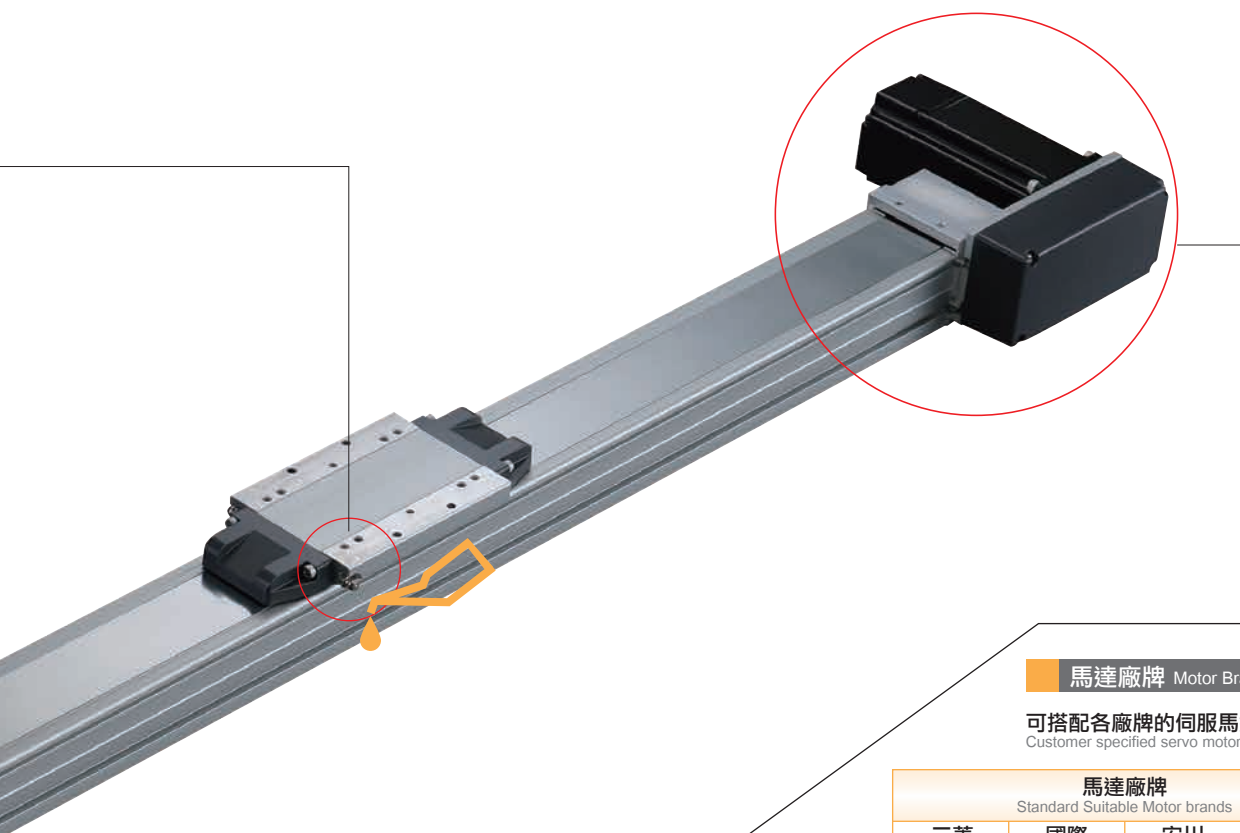
鋼帶設計滾輪支撐不易產生粉塵

Cover Strip Roller Support Design To Reduce The Dust

特殊滾輪支撐鋼帶設計，減緩滑座與鋼帶摩擦造成的粉塵。

The special roller supports the cover strip design to reduce the dust caused by friction between the slider and the cover strip.



**馬達廠牌** Motor Brand可搭配各廠牌的伺服馬達。
Customer specified servo motor.**馬達廠牌**

Standard Suitable Motor brands

三菱
Mitsubishi國際
Panasonic安川
Yaskawa台達
Delta

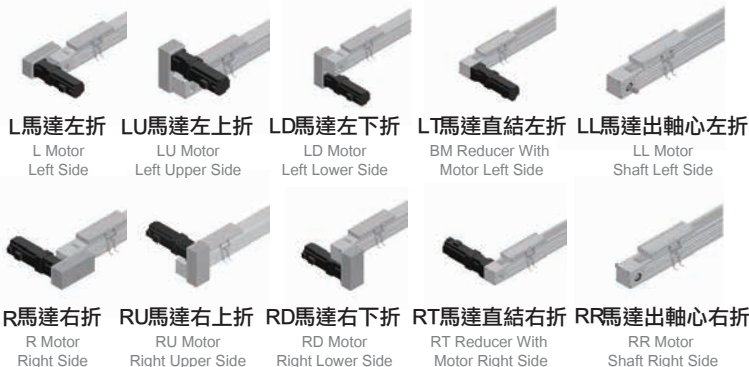
◎其他馬達廠牌規格，請聯絡業務人員。

◎ Please consult with our sales personnel for other motor specifications.

馬達安裝位置 Motor Install Options

多方向馬達安裝位置可供選擇，讓機台設計更有彈性。

Multiple motor installation positions provides the flexibility for machine design.

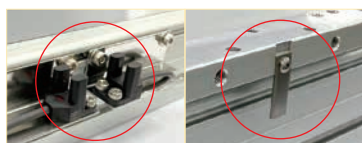
**減速機構多樣化** Reduce ratio options標配2比減速機構，不需要另外購買，客戶採購成本更有競爭力。
另外，也可搭配3比減速機，選擇多樣化。

Multiple motor installation positions provides the flexibility for machine design.

減速機構/減速機搭配
Applied Gear Box/Reduce

代號 Model No.	02	03	N	00
	2比減速機構 2:1 Reduce	3比減速機 3:1 Reduce	無動力輔助軸 No Support Axis	馬達直接驅動 Motor Direct Drive

※以MG65為例 ※ Using MG65 as an example

特點：
Features :長行程
Long stroke全密閉
Small cubage高速度
High Speed**感應器位置** Sensor LocationSENSOR位置為外掛型式的安裝方式
Optional Internal or external SENSOR locations.外掛SENSOR
External SENSOR外掛SENSOR感應片
External SENSOR
Trigger Device

滑台模組規格索引

Spec Index of Electric Actuator

M 歐規皮帶滑台系列
M Europe Type Belt Actuator

使用環境 Environment	傳動方式 Driven Mode	仕様 Specification	減速機構 Reducer Mechanism	馬達容量 Motor Output (w)	本體寬幅 Width(mm)	位置重複精度 Repeatability(mm)	皮帶規格 Belt Spec		最大可搬重量 Maximum Payload(kg)		最高速度 ^{*1} Maximum Speed (mm/s)
							寬度 Belt Width(mm)	導程 Lead(mm)	水平使用 Horizontal	垂直使用 Vertical	
一般環境 Standard Room	歐規皮帶 Europe Belt	MH65	No	400W	65	±0.1	20	78	15		3900
		MH80		750W	80		30	102	25		5000
		MK65	Yes	400W	65		32	110 ^{*2}	60	17	5000 ^{*2}
		MK85		750W	85		46	200 ^{*2}	100	24	5000 ^{*2}
		MK110		750W	110		50	250 ^{*2}	200	50	5000 ^{*2}
		MG50		100W	50	±0.04	15	60 ^{*2}	16	4	3500 ^{*2}
		MG65		400W	65		20	90 ^{*2}	50	14	3500 ^{*2}
		MG85		400W	85		25	120 ^{*2}	97	19	3500 ^{*2}

*1: 最高速度 (mm/s) 是以伺服馬達最高轉速 3600rpm 為基準。

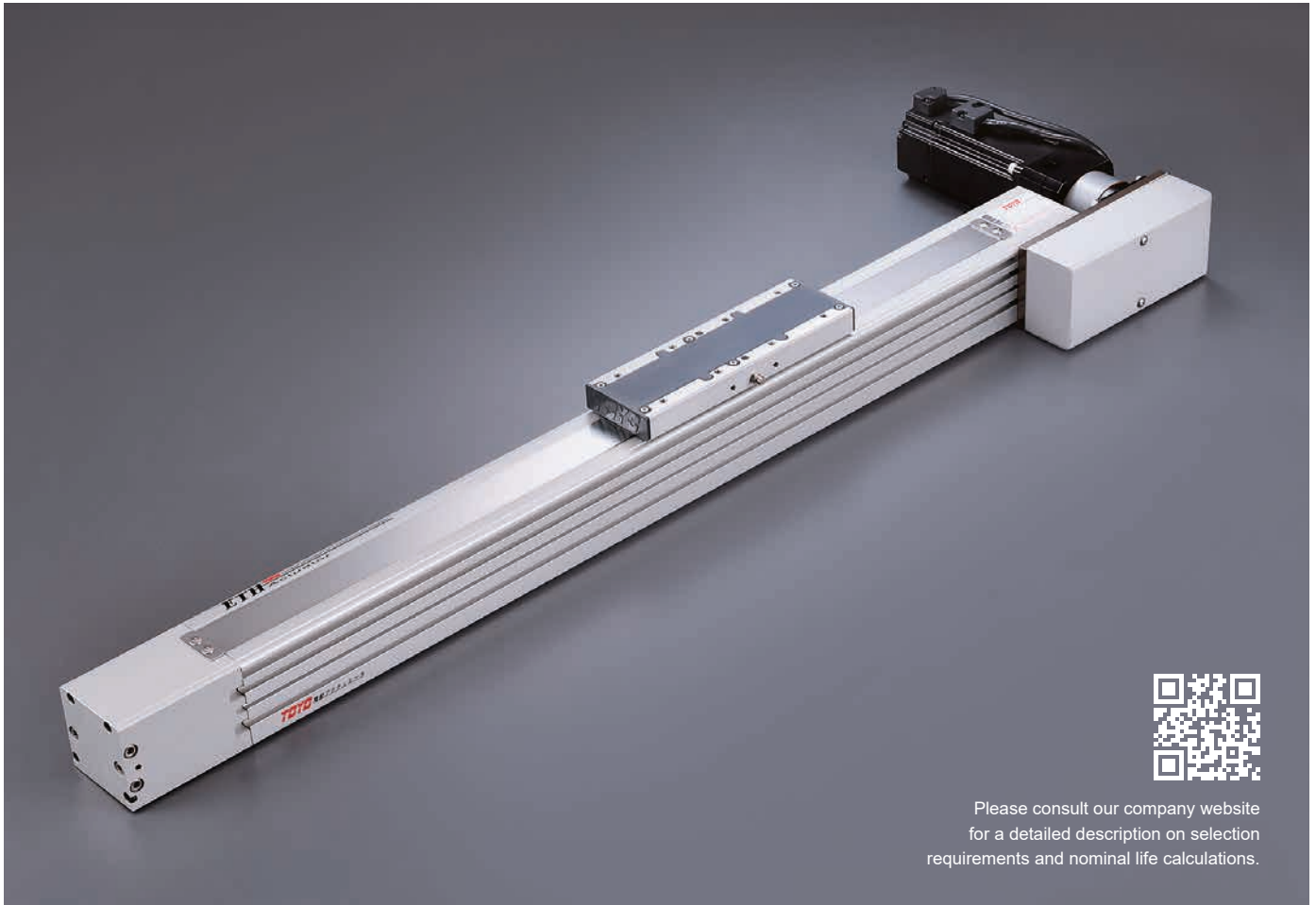
The maximum speed (mm/s) is based on the maximum rotating speed of the servo motor on a 3600rpm basis.

*2: 導程、最高速度會依減速比不同而異。

Lead、the maximum speed depends on different gear ratio.

免費服務專線：大陸 400-875-0009 台灣 0800-800-893
Toll-Free Number China Taiwan

標準行程及最高使用速度 ^{*2} Stroke(mm) & Maximum Speed(mm/s)																												代表速度 Speed	頁數 Page
行程 Stroke	500	700	900	1100	1300	1500	1700	1900	2100	2300	2500	2700	3000	3100	3300	3500	3700	3900	4100	4300	4500	4800	5000	5100	5300	5500	5700		
						3900																						353	
						5000																						357	
											5000																	361	
											5000																	369	
											5000																	377	
									3500																			-	
									3500																			385	
									3500																			-	



Please consult our company website for a detailed description on selection requirements and nominal life calculations.

Ordering Method

MK65 - 2000 - L - M4B - C 4 - NL - 10 - A001

Model

Stroke

100-5000mm
100 mm Increments

Motor Position

L	Motor Left Side
LU	Motor Left Upper Side
LD	Motor Left Lower Side
LT	Reducer With Motor Left Side
LL	Motor Shaft Left Side
R	Motor Right Side
RU	Motor Right Upper Side
RD	Motor Right Lower Side
RT	Reducer With Motor Right Side
RR	Motor Shaft Right Side

Dimensions

M4	Servo motor: PCD70-M5-shift Φ 14mm	B*
P4	Servo motor: PCD70-M4-shift Φ 14mm	

*If No Brake, No Description.

Grease Fitting Position

NL	On The Left of The Slider
NR	On The Right of The Slider

Home Sensor

Out Side	
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

Limit Sensor

Out Side	
3	1Pc
4	2Pc
	No Sensor
5	No Sensor

Gearbox Ratio

3	3:1
5	5:1
7	7:1
10	10:1
N	None Gearbox Type

*It's optional N when using LL/RR only.

Specification

Item	Belt	Reducers Ratio			3	5	7	10
		Lead with gearbox		mm	36.6	22	15.7	11
		Maximum Rotating speed		rpm	3600	3600	3600	3600
		Maximum linear speed		mm/s	2200	1320	943	660
		Load factor			1.75	1.75	1.35	1.35
		Tis (Nominal Tension)		N	222			
		Timax (Maximum Tension)		N	393			
	Linear Guide	Dynamic horizontal	100 Km of travel	N	12916			
			1000 Km of travel	N	5995			
			10000 Km of travel	N	2783			
		Static horizontal		N	29171			
	Fixed bearing	Basic dynamic load rating Cr		N	7400			
		Static load rating Cor		N	12800			
	Common Spec	Repeatability		mm	±0.1			
		Allowable input torque		N.m	13.5	22.5	31.5	45
		Maximum acceleration		m/s ²	5			
		Friction coefficient			0.03			
		Stroke (increments)		mm	50-5000mm (100 increments)			
		Ambient temperature※1		°C	0~+40			

※1 For extreme temperatures: -20°C ~80°C special greases are required.

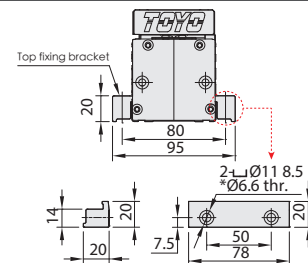
*When the actuator is not attached with reducer to drive, the lead is 110mm.

Numbers of Fixing Screws

M5 nuts Qty.(by stroke)			
Stroke	Quantity	Stroke	Quantity
100~500	4	2600~3000	14
600~1000	6	3100~3500	16
1100~1500	8	3600~4000	18
1600~2000	10	4100~4500	20
2100~2500	12	4600~5000	22

*Standard mounting method is fix from the bottom, using the M5 bolt and nut.

Installation Reference



※Top fixing plate is optional.

Static Loading Moment

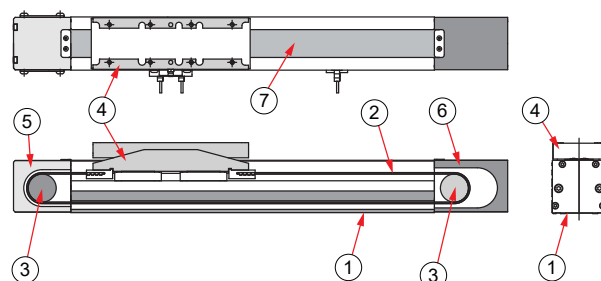
M _{0Y}	N.m		338
M _{0P}	N.m		338
M _{0R}	N.m		59

Dynamic Loading Moment

The diagram shows a 3D rectangular beam. Three coordinate systems are defined on the beam: MY, MP, and MR. Each system is represented by a grey oval with a black dot at its origin and a green curved arrow indicating the direction of rotation. The MY system is located at the top of the beam, the MP system is at the right end, and the MR system is at the front-left corner.

Travel	km	100	1000	10000
MY	N.m	111.4	51.7	24
MP	N.m	111.4	51.7	24
MR	N.m	13.6	6.3	2.9

Parts list



No.	Part Description	Material
1	Base Extrusion	AL6463
2	Belt	PU
3	Timing pulley	S45C
4	Carriage	AL6463
5	Input pulley support block	AL6061
6	Output pulley support block	AL6061
7	Steel Band	SUS430

M Series

MH65

MH80

MK65

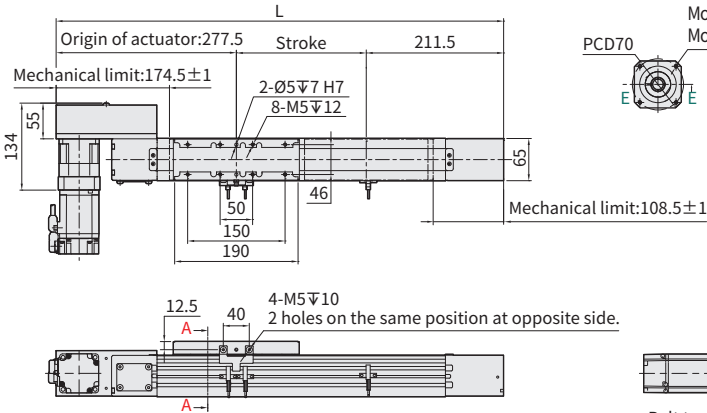
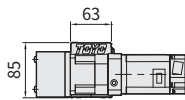
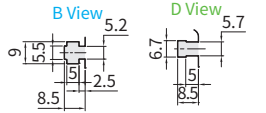
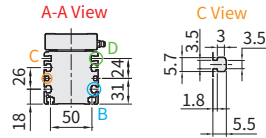
MK85

MK110

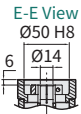
MG65

L Motor Left Side   [Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm



Dimensions
Model M4 using M5 tapping hole
Model P4 using M4 tapping hole



Belt tension adjusting screw.

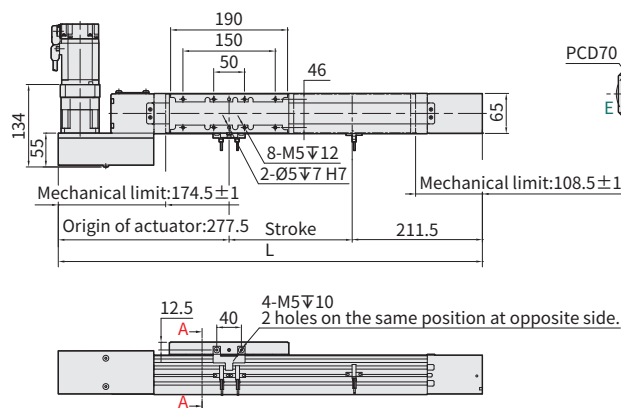
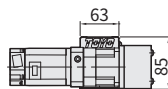
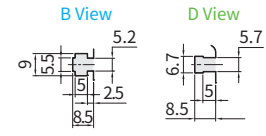
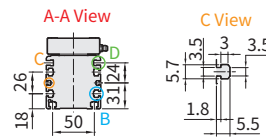
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	589	689	789	889	989	1089	1189	1289	1389	1489	1589	1689	1789	1889	1989	2089	2189	2289	2389	2489	2589	2689	2789	2889	2989
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31
Linear Speed mm/s	Lead110 5000*																								

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3089	3189	3289	3389	3489	3589	3689	3789	3889	3989	4089	4189	4289	4389	4489	4589	4689	4789	4889	4989	5089	5189	5289	5389	5489
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31
Linear Speed mm/s	Lead110 5000*																								

*Speed will be vary with condition of use. Please refer to Specification on P. 286.

R Motor Right Side   [Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm



Dimensions
Model M4 using M5 tapping hole
Model P4 using M4 tapping hole



Belt tension adjusting screw.

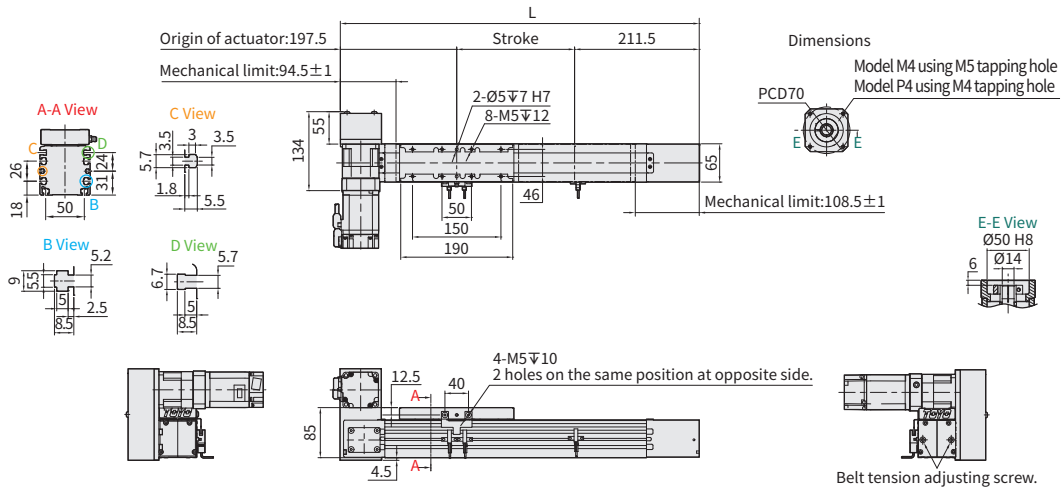
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	589	689	789	889	989	1089	1189	1289	1389	1489	1589	1689	1789	1889	1989	2089	2189	2289	2389	2489	2589	2689	2789	2889	2989
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31
Linear Speed mm/s	Lead110 5000*																								

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3089	3189	3289	3389	3489	3589	3689	3789	3889	3989	4089	4189	4289	4389	4489	4589	4689	4789	4889	4989	5089	5189	5289	5389	5489
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31
Linear Speed mm/s	Lead110 5000*																								

*Speed will be vary with condition of use. Please refer to Specification on P. 286.

LU Motor Left Side
[Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm



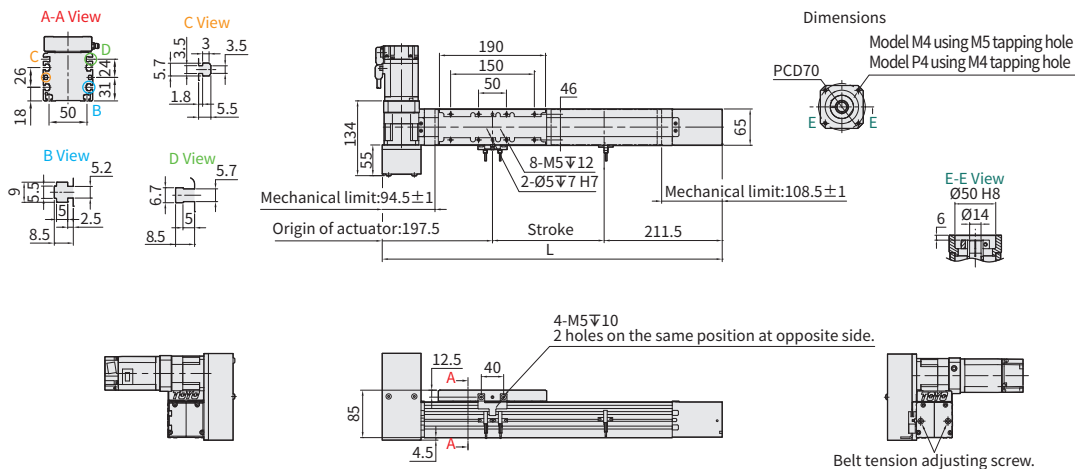
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	509	609	709	809	909	1009	1109	1209	1309	1409	1509	1609	1709	1809	1909	2009	2109	2209	2309	2409	2509	2609	2709	2809	2909
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31
Linear Speed mm/s	5000*																								
Lead110																									

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3009	3109	3209	3309	3409	3509	3609	3709	3809	3909	4009	4109	4209	4309	4409	4509	4609	4709	4809	4909	5009	5109	5209	5309	5409
KG	19.87	20.39	20.91	21.43	21.95	22.47	22.99	23.51	24.03	24.55	25.07	25.59	26.11	26.63	27.15	27.67	28.19	28.71	29.23	29.75	30.27	30.79	31.31	31.83	32.35
Linear Speed mm/s	5000*																								
Lead110																									

*Speed will be vary with condition of use. Please refer to Specification on P. 286.

RU Motor Right Side
[Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	509	609	709	809	909	1009	1109	1209	1309	1409	1509	1609	1709	1809	1909	2009	2109	2209	2309	2409	2509	2609	2709	2809	2909
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31
Linear Speed mm/s	5000*																								
Lead110																									

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3009	3109	3209	3309	3409	3509	3609	3709	3809	3909	4009	4109	4209	4309	4409	4509	4609	4709	4809	4909	5009	5109	5209	5309	5409
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31
Linear Speed mm/s	5000*																								
Lead110																									

*Speed will be vary with condition of use. Please refer to Specification on P. 286.

M Series

MH65

MH80

MK65

MK85

MK110

MG65

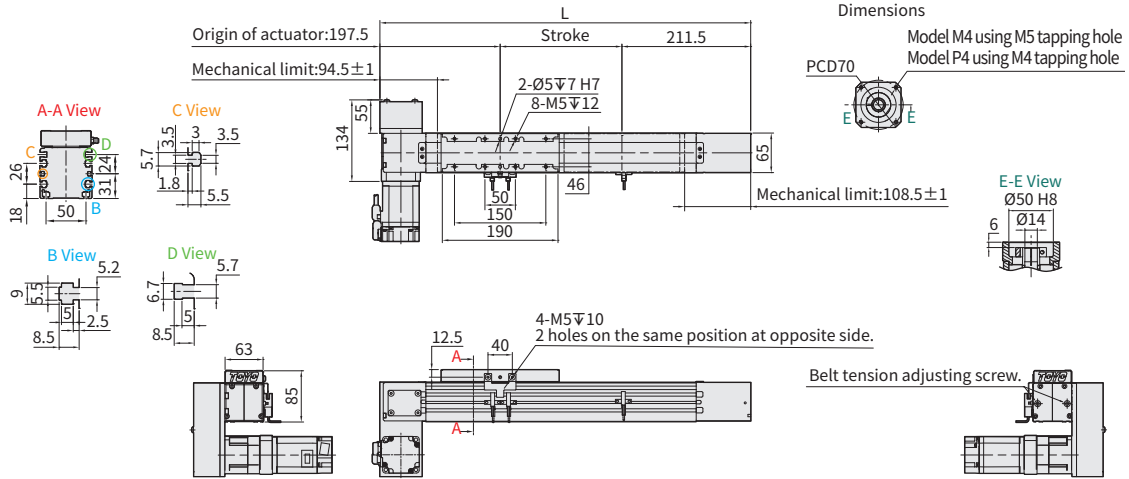
LD

Motor Left Lower Side



Download CAD data at www.toyorobot.com

Unit : mm



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	509	609	709	809	909	1009	1109	1209	1309	1409	1509	1609	1709	1809	1909	2009	2109	2209	2309	2409	2509	2609	2709	2809	2909
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31
Linear Speed mm/s	5000*																								
Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3009	3109	3209	3309	3409	3509	3609	3709	3809	3909	4009	4109	4209	4309	4409	4509	4609	4709	4809	4909	5009	5109	5209	5309	5409
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31
Linear Speed mm/s	5000*																								

*Speed will be vary with condition of use. Please refer to Specification on P. 286.

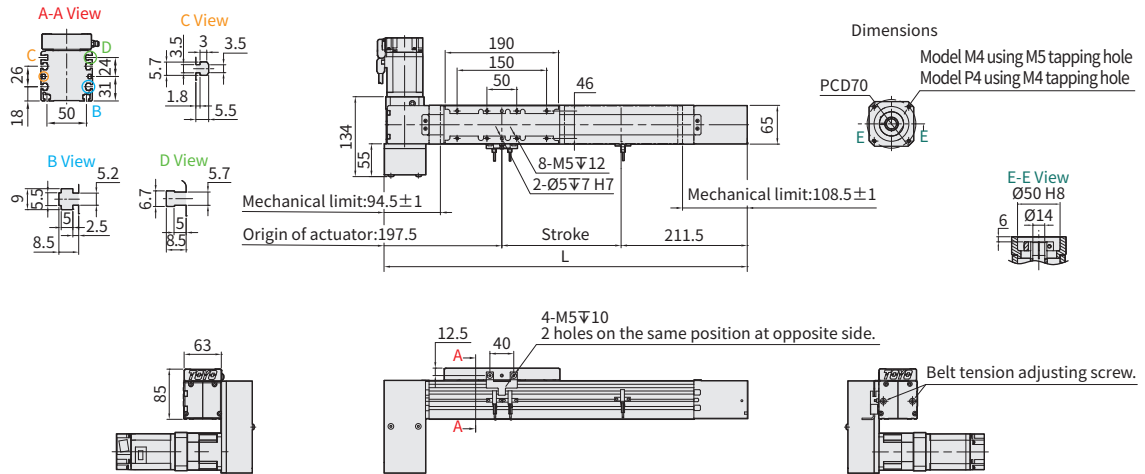
RD

Motor Right Lower Side



Download CAD data at www.toyorobot.com

Unit : mm

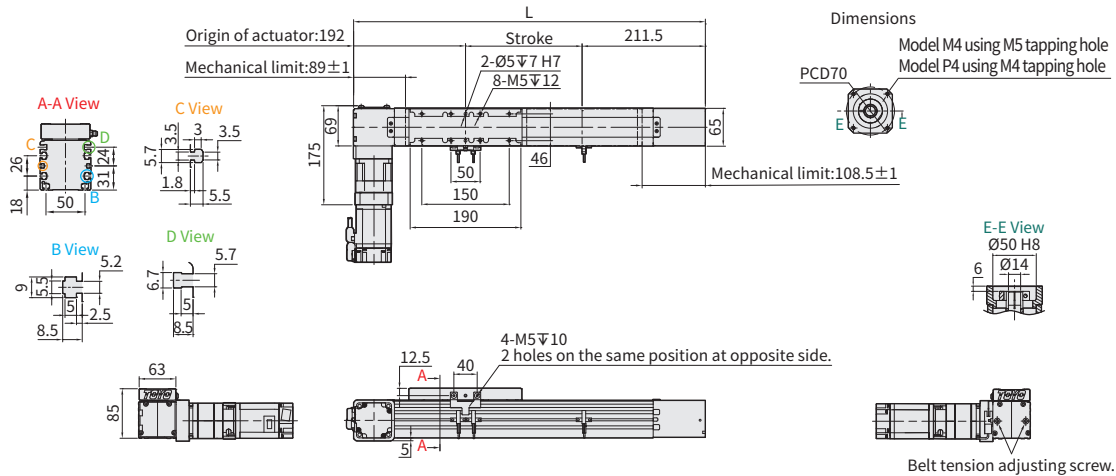


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	509	609	709	809	909	1009	1109	1209	1309	1409	1509	1609	1709	1809	1909	2009	2109	2209	2309	2409	2509	2609	2709	2809	2909
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31
Linear Speed mm/s	5000*																								
Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3009	3109	3209	3309	3409	3509	3609	3709	3809	3909	4009	4109	4209	4309	4409	4509	4609	4709	4809	4909	5009	5109	5209	5309	5409
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31
Linear Speed mm/s	5000*																								

*Speed will be vary with condition of use. Please refer to Specification on P. 286.

LT Reducer With Motor Left Side
[Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm



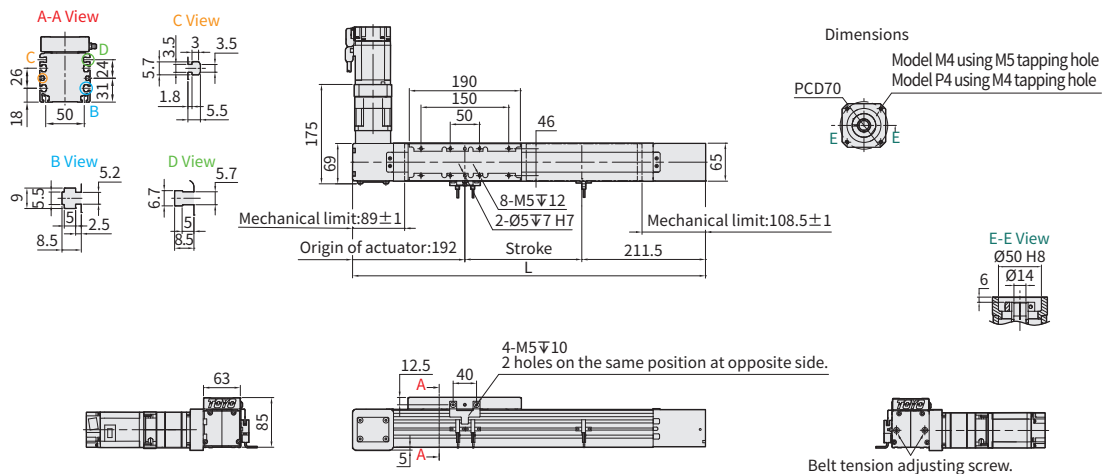
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	503.5	603.5	703.5	803.5	903.5	1003.5	1103.5	1203.5	1303.5	1403.5	1503.5	1603.5	1703.5	1803.5	1903.5	2003.5	2103.5	2203.5	2303.5	2403.5	2503.5	2603.5	2703.5	2803.5	2903.5
KG	6.87	7.39	7.91	8.43	8.95	9.47	9.99	10.51	11.03	11.55	12.07	12.59	13.11	13.63	14.15	14.67	15.19	15.71	16.23	16.75	17.27	17.79	18.31	18.83	19.35
Linear Speed mm/s	Lead110 5000*																								

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3003.5	3103.5	3203.5	3303.5	3403.5	3503.5	3603.5	3703.5	3803.5	3903.5	4003.5	4103.5	4203.5	4303.5	4403.5	4503.5	4603.5	4703.5	4803.5	4903.5	5003.5	5103.5	5203.5	5303.5	5403.5
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31
Linear Speed mm/s	Lead110 5000*																								

*Speed will be vary with condition of use. Please refer to Specification on P. 286.

RT Reducer With Motor Right Side
[Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	503.5	603.5	703.5	803.5	903.5	1003.5	1103.5	1203.5	1303.5	1403.5	1503.5	1603.5	1703.5	1803.5	1903.5	2003.5	2103.5	2203.5	2303.5	2403.5	2503.5	2603.5	2703.5	2803.5	2903.5
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31
Linear Speed mm/s	Lead110 5000*																								

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3003.5	3103.5	3203.5	3303.5	3403.5	3503.5	3603.5	3703.5	3803.5	3903.5	4003.5	4103.5	4203.5	4303.5	4403.5	4503.5	4603.5	4703.5	4803.5	4903.5	5003.5	5103.5	5203.5	5303.5	5403.5
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31
Linear Speed mm/s	Lead110 5000*																								

*Speed will be vary with condition of use. Please refer to Specification on P. 286.

M Series

MH65

MH80

MK65

MK85

MK110

MG65

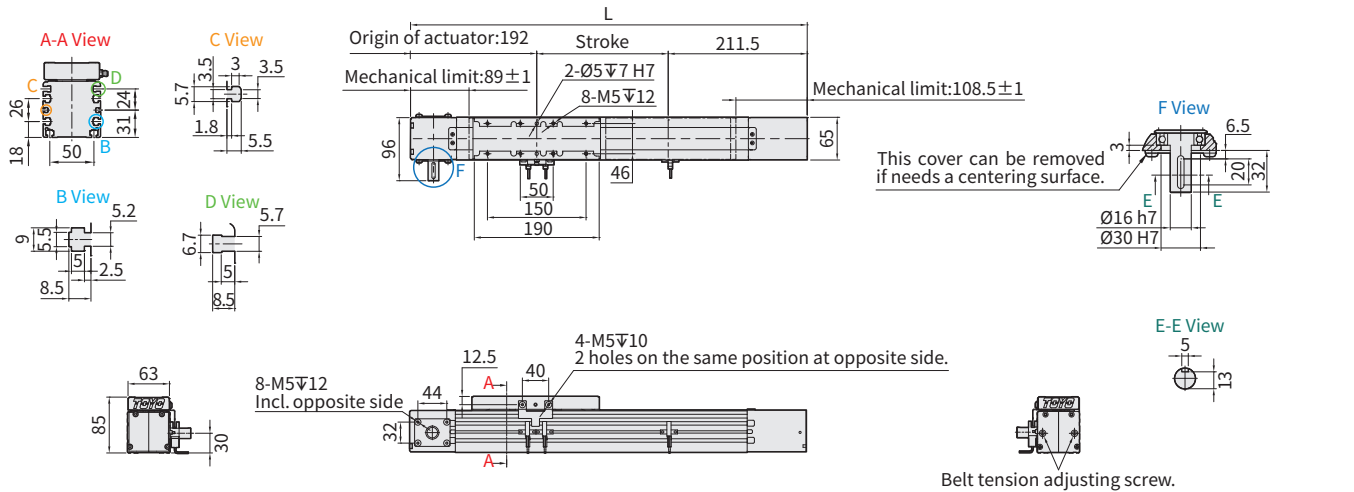
LL

Motor Shaft Left Side



Download CAD data at www.toyorobot.com

Unit : mm



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	503.5	603.5	703.5	803.5	903.5	1003.5	1103.5	1203.5	1303.5	1403.5	1503.5	1603.5	1703.5	1803.5	1903.5	2003.5	2103.5	2203.5	2303.5	2403.5	2503.5	2603.5	2703.5	2803.5	2903.5
KG	4.36	4.9	5.44	5.98	6.52	7.06	7.6	8.14	8.68	9.22	9.76	10.3	10.84	11.38	11.92	12.46	13	13.54	14.08	14.62	15.16	15.7	16.24	16.78	17.32
Linear Speed mm/s	5000*																								
Lead110																									

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3003.5	3103.5	3203.5	3303.5	3403.5	3503.5	3603.5	3703.5	3803.5	3903.5	4003.5	4103.5	4203.5	4303.5	4403.5	4503.5	4603.5	4703.5	4803.5	4903.5	5003.5	5103.5	5203.5	5303.5	5403.5
KG	17.86	18.4	18.94	19.48	20.02	20.56	21.1	21.64	22.18	22.72	23.26	23.8	24.34	24.88	25.42	25.96	26.5	27.04	27.58	28.12	28.66	29.2	29.74	30.28	30.82
Linear Speed mm/s	5000*																								
Lead110																									

*Speed will be vary with condition of use . Please refer to Specification on P. 286.

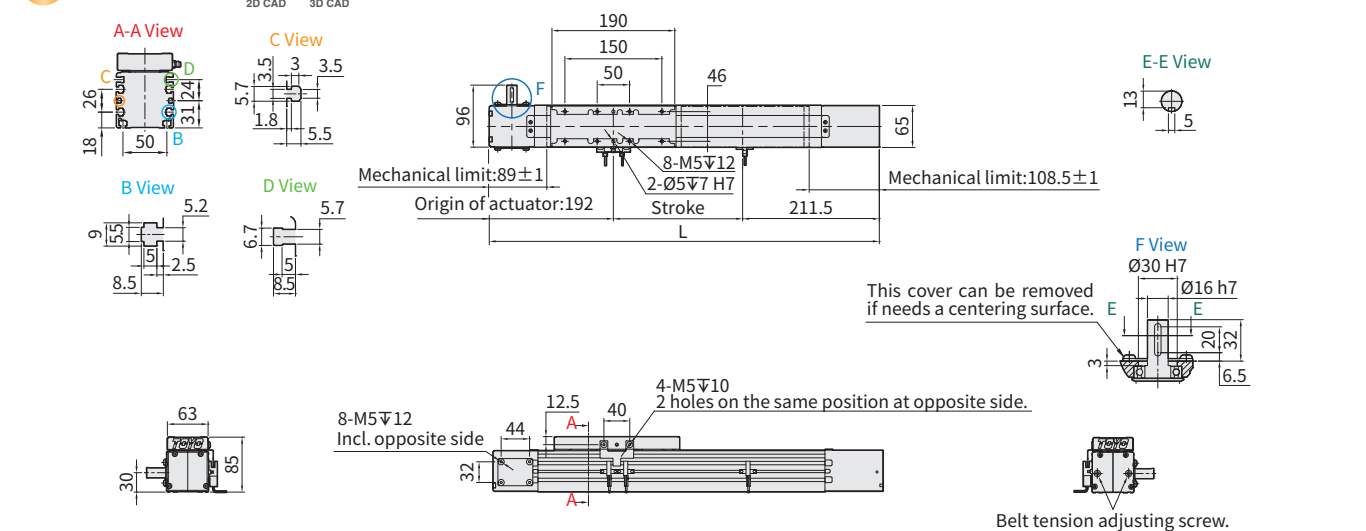
RR

Motor Shaft Right Side



Download CAD data at www.toyorobot.com

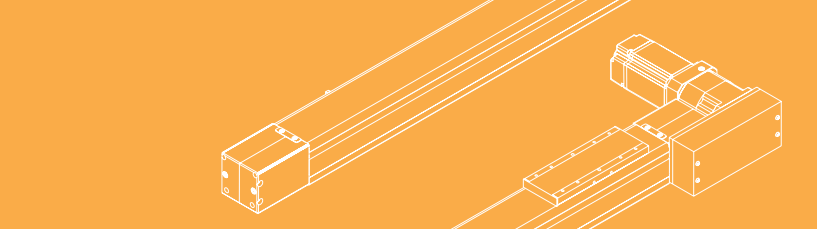
Unit : mm



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	503.5	603.5	703.5	803.5	903.5	1003.5	1103.5	1203.5	1303.5	1403.5	1503.5	1603.5	1703.5	1803.5	1903.5	2003.5	2103.5	2203.5	2303.5	2403.5	2503.5	2603.5	2703.5	2803.5	2903.5
KG	7.87	8.43	8.99	9.55	10.11	10.67	11.23	11.79	12.35	12.91	13.47	14.03	14.59	15.15	15.71	16.27	16.83	17.39	17.95	18.51	19.07	19.63	20.19	20.75	21.31
Linear Speed mm/s	5000*																								
Lead110																									

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3003.5	3103.5	3203.5	3303.5	3403.5	3503.5	3603.5	3703.5	3803.5	3903.5	4003.5	4103.5	4203.5	4303.5	4403.5	4503.5	4603.5	4703.5	4803.5	4903.5	5003.5	5103.5	5203.5	5303.5	5403.5
KG	21.87	22.43	22.99	23.55	24.11	24.67	25.23	25.79	26.35	26.91	27.47	28.03	28.59	29.15	29.71	30.27	30.83	31.39	31.95	32.51	33.07	33.63	34.19	34.75	35.31
Linear Speed mm/s	5000*																								
Lead110																									

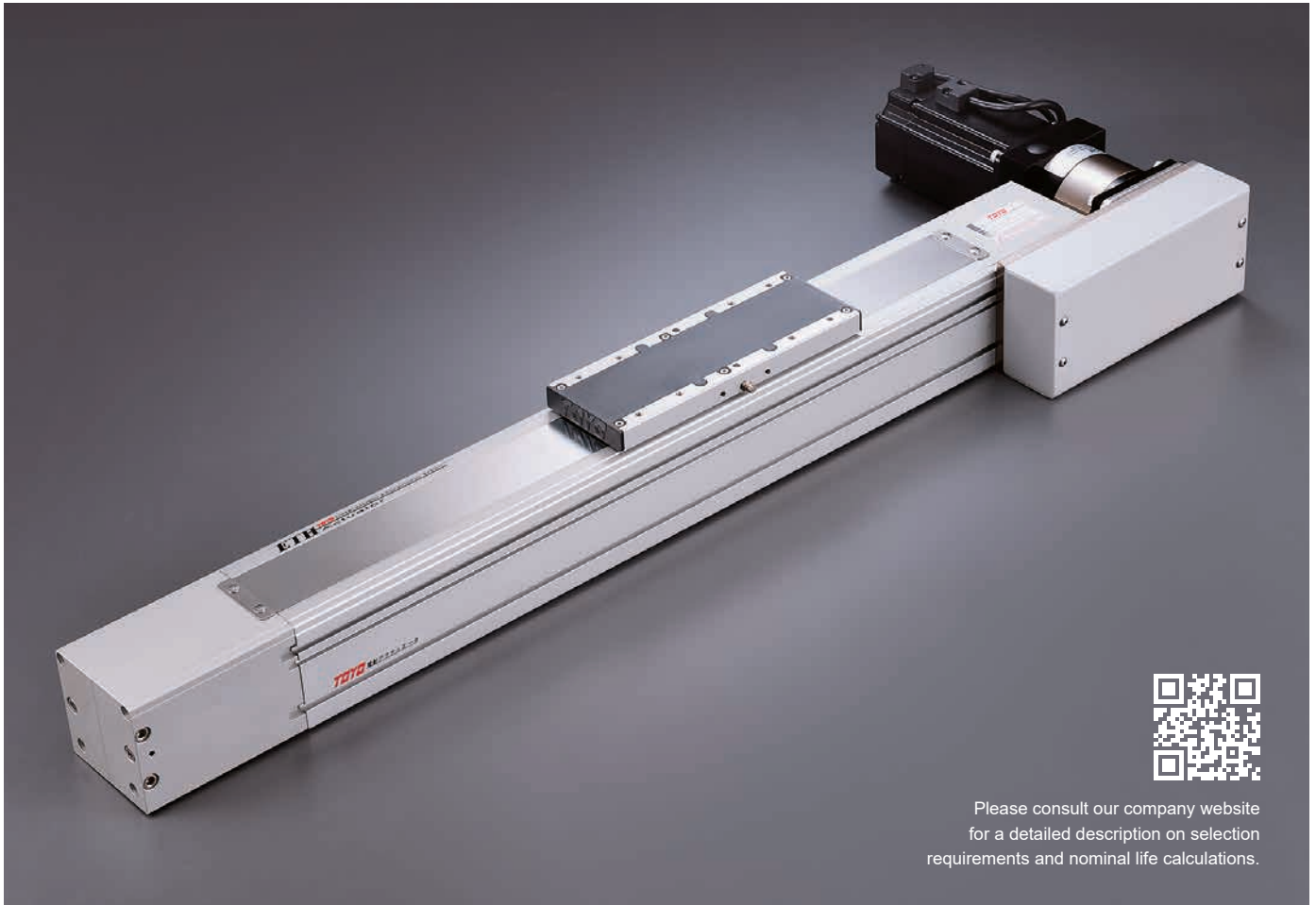
*Speed will be vary with condition of use . Please refer to Specification on P. 286.



Application
Standard Ball Screw Type GTH / GTY / ETH
Standard Belt Type M Series
Cleanroom Ball Screw Type GCH / ECH
Cleanroom Belt Type ECB
Reference

Memo

M Series
MH65
MH80
MK65
MK85
MK110
MG65



Please consult our company website for a detailed description on selection requirements and nominal life calculations.

Ordering Method

MK85 - 2000 - L - M7B - C 4 - NL - 10 - A001

Model

Stroke

100-5000mm
100 mm Increments

Motor Position

L	Motor Left Side
LU	Motor Left Upper Side
LD	Motor Left Lower Side
LT	Reducer With Motor Left Side
LL	Motor Shaft Left Side
R	Motor Right Side
RU	Motor Right Upper Side
RD	Motor Right Lower Side
RT	Reducer With Motor Right Side
RR	Motor Shaft Right Side

Dimensions

M7	Servo motor: PCD90-M6-shift Φ19mm	B
P7	Servo motor: PCD90-M5-shift Φ19mm	

*If No Brake, No Description.

Grease Fitting Position

NL	On The Left of The Slider
NR	On The Right of The Slider

Home Sensor

Out Side	
C	Motor Side
D	Opposite Motor Side
	No Sensor
E	No Sensor

Limit Sensor

Out Side	
3	1Pc
4	2Pc
	No Sensor
5	No Sensor

Gearbox Ratio

5	5:1
7	7:1
10	10:1
N	None Gearbox Type

*It's optional N when using LL/RR only.

Specification

Item	Belt	Reducers Ratio			5	7	10
		Lead with gearbox		mm	40	28.5	20
		Maximum Rotating speed		rpm	3600	3600	3600
		Maximum linear speed		mm/s	2400	1714	1200
		Load factor			1.75	1.75	1.35
		Tis (Nominal Tension)		N	372		
		Timax (Maximum Tension)		N	647		
	Linear Guide	Dynamic horizontal	100 Km of travel	N	20204		
			1000 Km of travel	N	9378		
			10000 Km of travel	N	4353		
		Static horizontal		N	43245		
	Fixed bearing	Basic dynamic load rating Cr		N	9100		
		Static load rating Cor		N	14100		
	Common Spec	Repeatability		mm	±0.1		
		Allowable input torque		N.m	42	58.8	84
		Maximum acceleration		m/s ²	5		
		Friction coefficient			0.03		
		Stroke (increments)		mm	50-5000mm (100 increments)		
		Ambient temperature ^{※1}		°C	0~+40		

※1 For extreme temperatures: -20°C ~80°C special greases are required.

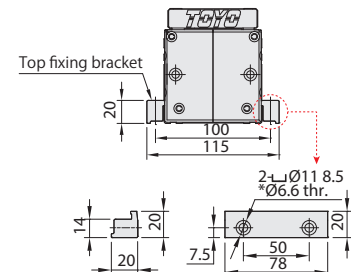
*When the actuator is not attached with reducer to drive, the lead is 200mm.

Numbers of Fixing Screws

M5 nuts Qty.(by stroke)			
Stroke	Quantity	Stroke	Quantity
100~500	4	2600~3000	14
600~1000	6	3100~3500	16
1100~1500	8	3600~4000	18
1600~2000	10	4100~4500	20
2100~2500	12	4600~5000	22

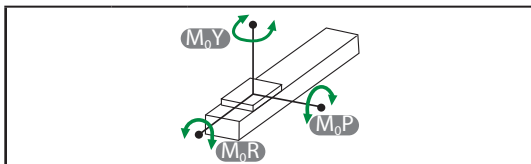
*Standard mounting method is fix from the bottom, using the M5 bolt and nut.

Installation Reference



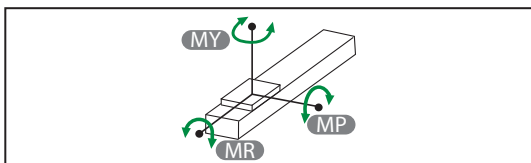
*Top fixing plate is optional.

Static Loading Moment



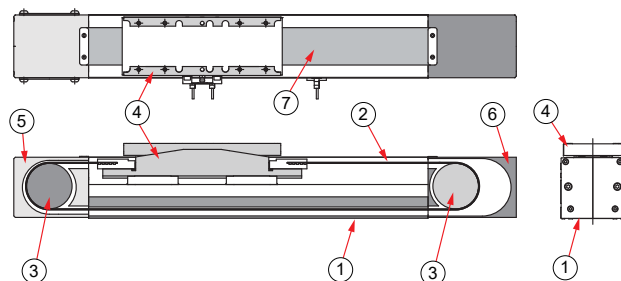
M_{0Y}	N.m	868
M_{0P}	N.m	868
M_{0R}	N.m	123

Dynamic Loading Moment



Travel	km	100	1000	10000
MY	N.m	287.5	133.4	61.9
MP	N.m	287.5	133.4	61.9
MR	N.m	32.2	15	6.9

Parts list



No.	Part Description	Material
1	Base Extrusion	AL6463
2	Belt	PU
3	Timing pulley	S45C
4	Carriage	AL6463
5	Input pulley support block	AL6061
6	Output pulley support block	AL6061
7	Steel Band	SUS430

M Series

MH65

MH80

MK65

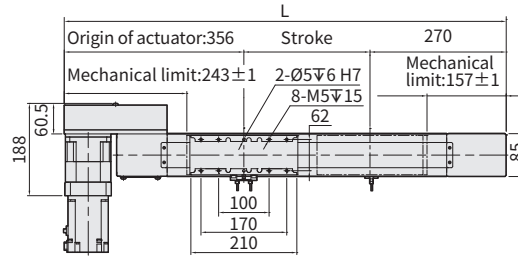
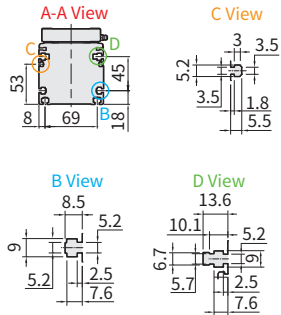
MK85

MK110

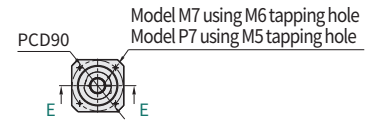
MG65

L Motor Left Side   Download CAD data at www.toyorobot.com

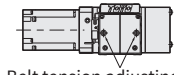
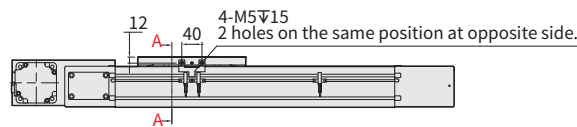
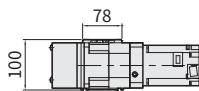
Unit : mm



Dimensions



E-E View



Belt tension adjusting screw.

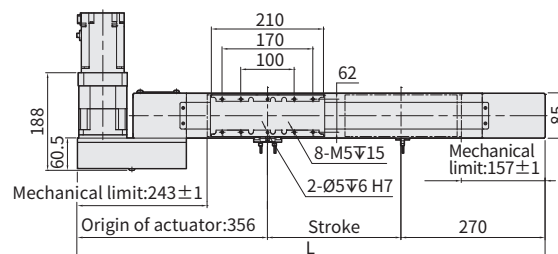
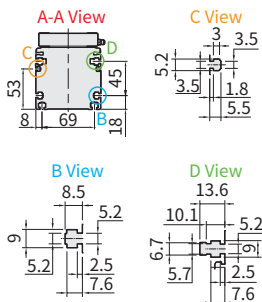
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	726	826	926	1026	1126	1226	1326	1426	1526	1626	1726	1826	1926	2026	2126	2226	2326	2426	2526	2626	2726	2826	2926	3026	3126
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97
Linear Speed mm/s	Lead200 5000*																								

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3226	3326	3426	3526	3626	3726	3826	3926	4026	4126	4226	4326	4426	4526	4626	4726	4826	4926	5026	5126	5226	5326	5426	5526	5626
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	52.61	53.45	54.29	55.13	55.97
Linear Speed mm/s	Lead200 5000*																								

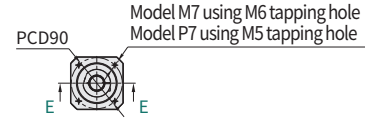
*Speed will be vary with condition of use . Please refer to Specification on P. 294.

R Motor Right Side   Download CAD data at www.toyorobot.com

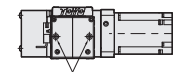
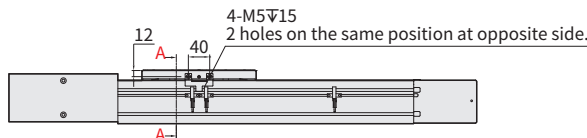
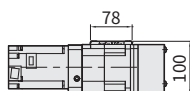
Unit : mm



Dimensions



E-E View



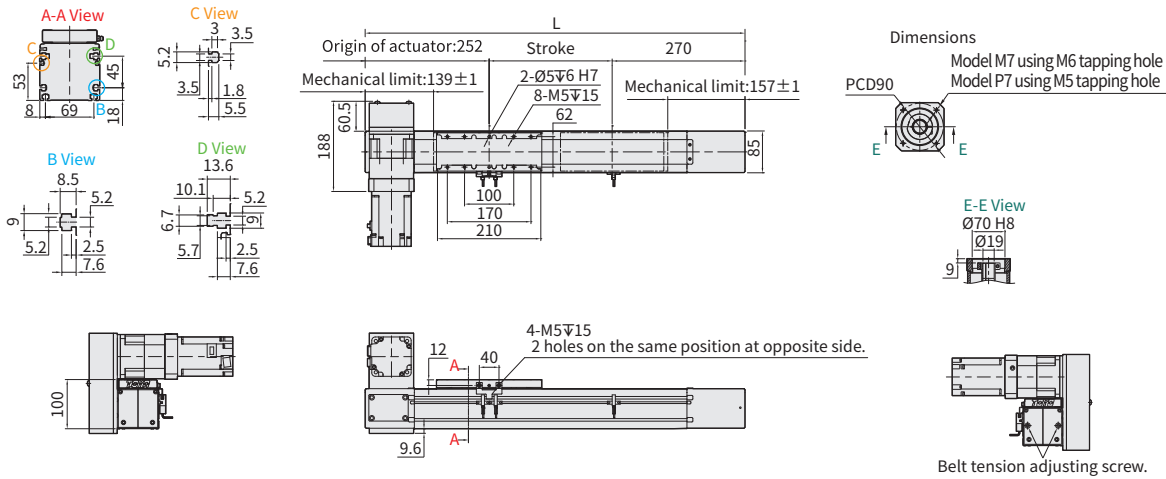
Belt tension adjusting screw.

Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	726	826	926	1026	1126	1226	1326	1426	1526	1626	1726	1826	1926	2026	2126	2226	2326	2426	2526	2626	2726	2826	2926	3026	3126
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97
Linear Speed mm/s	Lead200 5000*																								

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3226	3326	3426	3526	3626	3726	3826	3926	4026	4126	4226	4326	4426	4526	4626	4726	4826	4926	5026	5126	5226	5326	5426	5526	5626
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	52.61	53.45	54.29	55.13	55.97
Linear Speed mm/s	Lead200 5000*																								

*Speed will be vary with condition of use . Please refer to Specification on P. 294.

LU Motor Left Side   [Download CAD data at www.toyorobot.com](http://www.toyorobot.com) Unit : mm

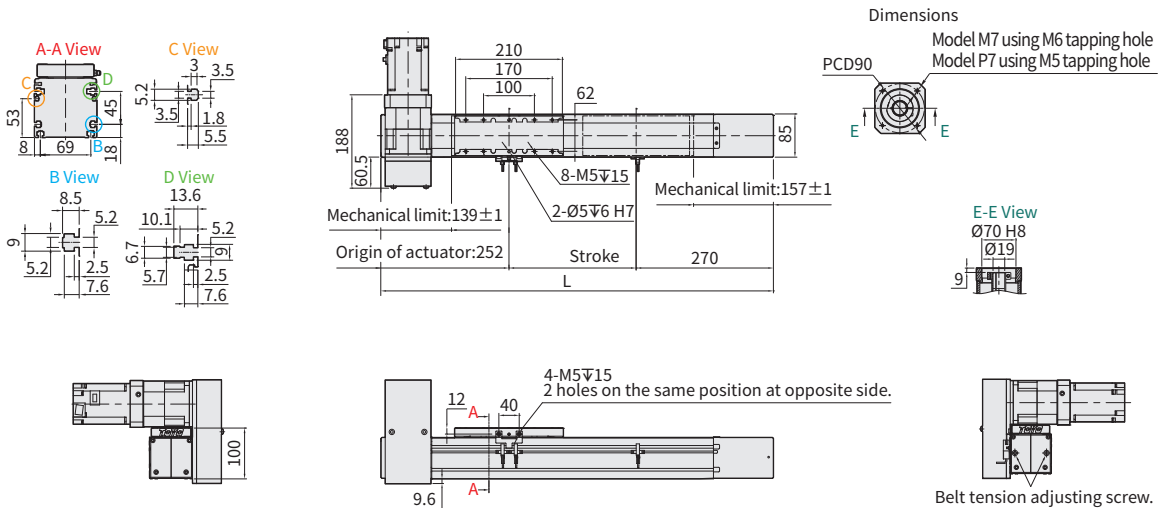


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97
Linear Speed mm/s	Lead200 5000*																								

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	52.61	53.45	54.29	55.13	55.97
Linear Speed mm/s	Lead200 5000*																								

*Speed will be vary with condition of use. Please refer to Specification on P. 294.

RU Motor Right Side   [Download CAD data at www.toyorobot.com](http://www.toyorobot.com) Unit : mm



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97
Linear Speed mm/s	Lead200 5000*																								

Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	52.61	53.45	54.29	55.13	55.97
Linear Speed mm/s	Lead200 5000*																								

*Speed will be vary with condition of use. Please refer to Specification on P. 294.

M Series

MH65

MH80

MK65

MK85

MK110

MG65

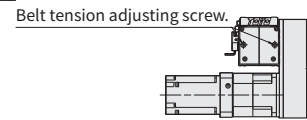
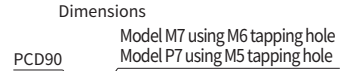
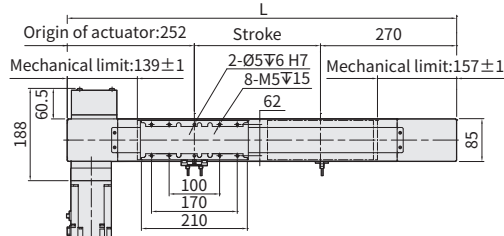
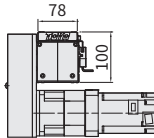
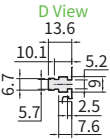
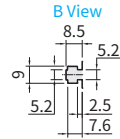
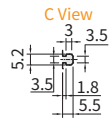
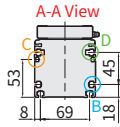
LD

Motor Left Lower Side



Download CAD data at www.toyorobot.com

Unit : mm



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97
Linear Speed mm/s	5000*																								
Lead200																									
Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	52.61	53.45	54.29	55.13	55.97
Linear Speed mm/s	5000*																								
Lead200																									

*Speed will be vary with condition of use. Please refer to Specification on P. 294.

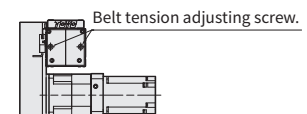
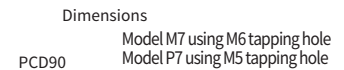
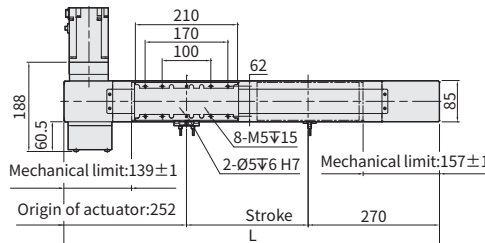
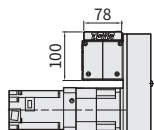
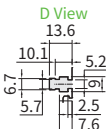
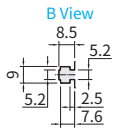
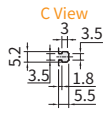
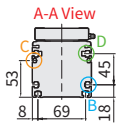
RD

Motor Right Lower Side



Download CAD data at www.toyorobot.com

Unit : mm

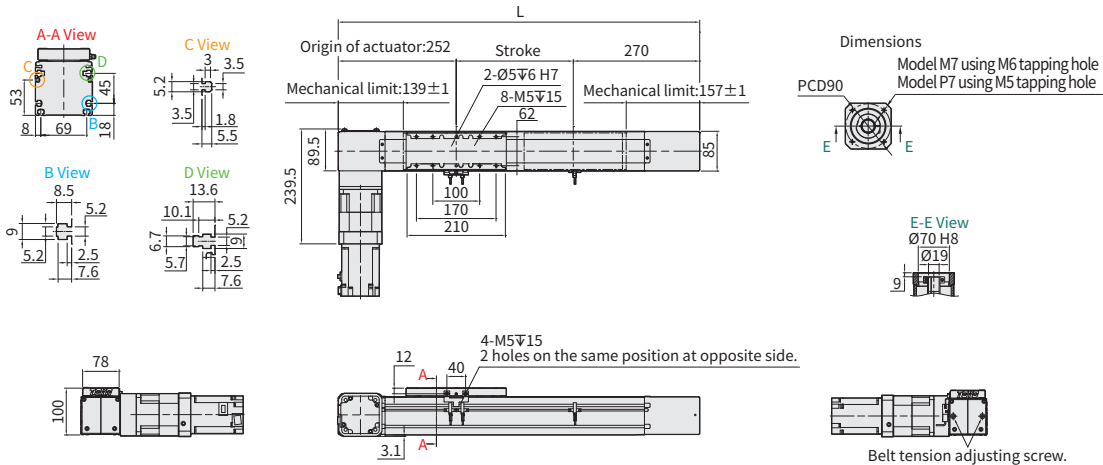


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	14.81	15.65	16.49	17.33	18.17	19.01	19.85	20.69	21.53	22.37	23.21	24.05	24.89	25.73	26.57	27.41	28.25	29.09	29.93	30.77	31.61	32.45	33.29	34.13	34.97
Linear Speed mm/s	5000*																								
Lead200																									
Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	35.81	36.65	37.49	38.33	39.17	40.01	40.85	41.69	42.53	43.37	44.21	45.05	45.89	46.73	47.57	48.41	49.25	50.09	50.93	51.77	52.61	53.45	54.29	55.13	55.97
Linear Speed mm/s	5000*																								
Lead200																									

*Speed will be vary with condition of use. Please refer to Specification on P. 294.

LT Reducer With Motor Left Side
[Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm

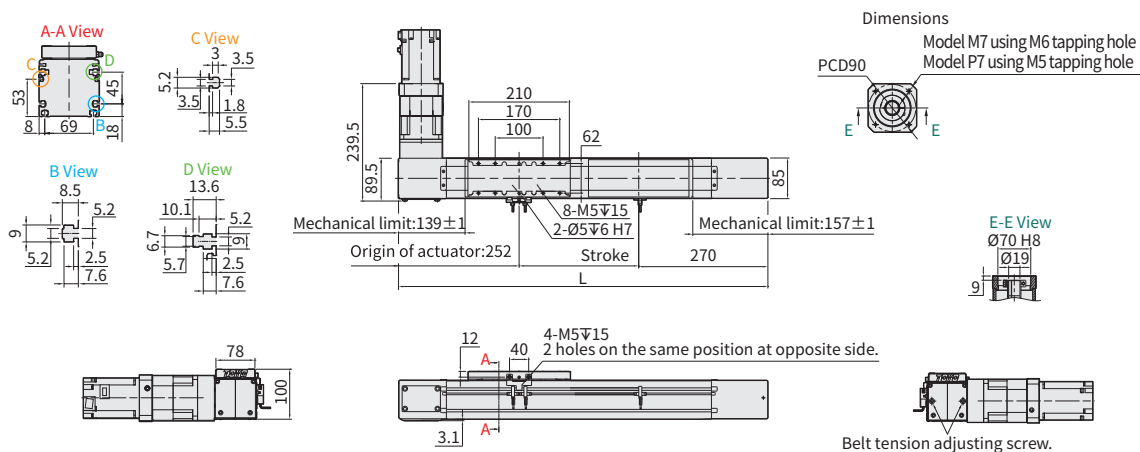


Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	13.06	13.88	14.7	15.52	16.34	17.16	17.98	18.8	19.62	20.44	21.26	22.08	22.9	23.72	24.54	25.36	26.18	27	27.82	28.64	29.46	30.28	31.1	31.92	32.7
Linear Speed mm/s	Lead200 5000*																								
Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	33.56	34.38	35.2	36.02	36.84	37.66	38.48	39.3	40.12	40.94	41.76	42.58	43.4	44.22	45.04	45.86	46.68	47.5	48.32	49.14	49.96	50.78	51.6	52.42	53.24
Linear Speed mm/s	Lead200 5000*																								

*Speed will be vary with condition of use. Please refer to Specification on P. 294.

RT Reducer With Motor Right Side
[Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414	2514
L	622	722	822	922	1022	1122	1222	1322	1422	1522	1622	1722	1822	1922	2022	2122	2222	2322	2422	2522	2622	2722	2822	2922	3022
KG	13.06	13.88	14.7	15.52	16.34	17.16	17.98	18.8	19.62	20.44	21.26	22.08	22.9	23.72	24.54	25.36	26.18	27	27.82	28.64	29.46	30.28	31.1	31.92	32.7
Linear Speed mm/s	Lead200 5000*																								
Stroke	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000
Limit Stroke (±1)	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814	4914	5014
L	3122	3222	3322	3422	3522	3622	3722	3822	3922	4022	4122	4222	4322	4422	4522	4622	4722	4822	4922	5022	5122	5222	5322	5422	5522
KG	33.56	34.38	35.2	36.02	36.84	37.66	38.48	39.3	40.12	40.94	41.76	42.58	43.4	44.22	45.04	45.86	46.68	47.5	48.32	49.14	49.96	50.78	51.6	52.42	53.24
Linear Speed mm/s	Lead200 5000*																								

*Speed will be vary with condition of use. Please refer to Specification on P. 294.

M Series

MH65

MH80

MK65

MK85

MK110

MG65

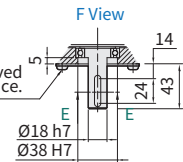
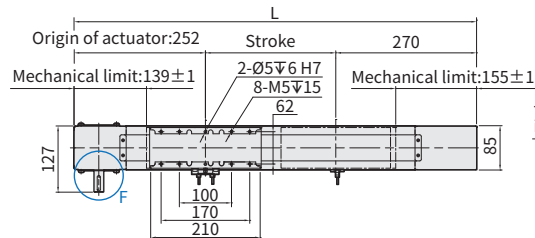
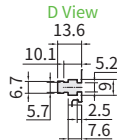
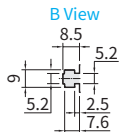
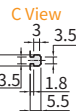
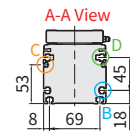


Motor Shaft Left Side

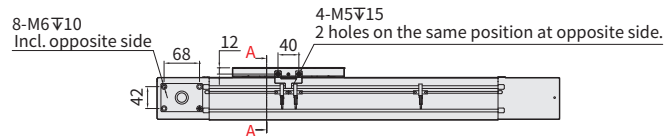
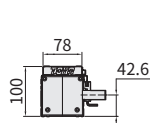
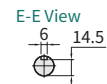


• Download CAD data at www.toyorobot.com •

Unit : mm



This cover can be removed if needs a centering surface.



▼
Belt tension adjusting screw.

[illegible][illegible]

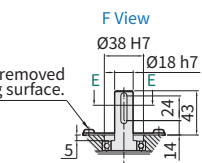
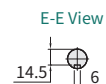
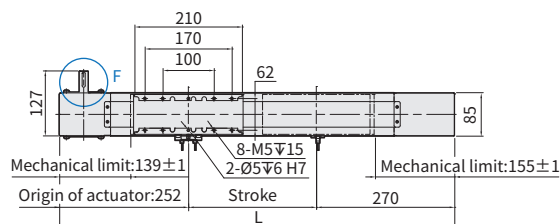
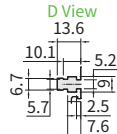
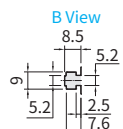
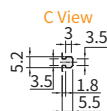
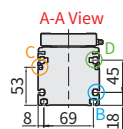
*Speed will be vary with condition of use . Please refer to Specification on P. 294.

Unit : mm

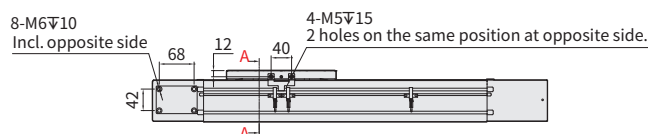
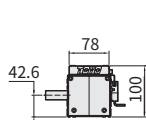
Motor Shaft Right Side



• Download CAD data at www.toyorobot.com



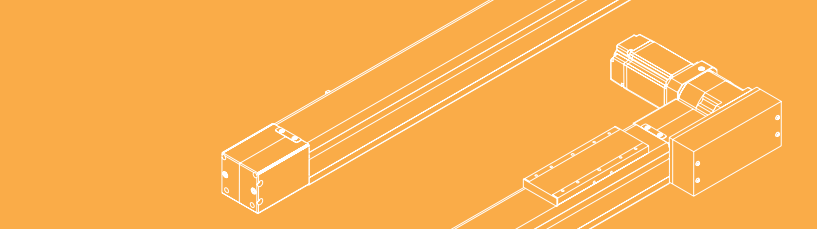
This cover can be removed if needs a centering surface.



Belt tension adjusting screw.

[illegible][illegible]

*Speed will be vary with condition of use . Please refer to Specification on P. 294.



Application
Standard Ball Screw Type GTH / GTY / ETH
Standard Belt Type M Series
Cleanroom Ball Screw Type GCH / ECH
Cleanroom Belt Type ECB
Reference

Memo

M Series
MH65
MH80
MK65
MK85
MK110
MG65



Please consult our company website for a detailed description on selection requirements and nominal life calculations.

Ordering Method

MK110 - 2000 - L - M7B - C 4 - NL - 10 - A001

Model

Stroke

100-4800mm
100 mm Increments

Motor Position

L	Motor Left Side
LU	Motor Left Upper Side
LD	Motor Left Lower Side
LT	Reducer With Motor Left Side
LL	Motor Shaft Left Side
R	Motor Right Side
RU	Motor Right Upper Side
RD	Motor Right Lower Side
RT	Reducer With Motor Right Side
RR	Motor Shaft Right Side

Dimensions

M7	Servo motor: PCD90-M6-shift Φ19mm	B
P7	Servo motor: PCD90-M5-shift Φ19mm	

*If No Brake, No Description.

Grease Fitting Position

NL	On The Left of The Slider
NR	On The Right of The Slider

Special Order No.

Home Sensor

Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
3	1Pc
4	2Pc
No Sensor	
5	No Sensor

Gearbox Ratio

10	10:1
15	15:1
20	20:1
N	None Gearbox Type

*It's optional N when using LL/RR only.

Specification

Item	Belt	Reducers Ratio			10	15	20
		Lead with gearbox		mm	25	16.6	12.5
		Maximum Rotating speed		rpm	3600	3600	3600
		Maximum linear speed		mm/s	1500	1000	750
		Load factor			1.75	1.35	1.35
		Tis (Nominal Tension)		N	376		
		Timax (Maximum Tension)		N	651		
	Linear Guide	Dynamic horizontal	100 Km of travel	N	27873		
			1000 Km of travel	N	12938		
			10000 Km of travel	N	6005		
		Static horizontal		N	59920		
	Fixed bearing	Basic dynamic load rating Cr		N	16600		
		Static load rating Cor		N	26400		
		Repeatability		mm	±0.1		
	Common Spec	Allowable input torque		N.m	84	126	168
		Maximum acceleration		m/s ²	5		
		Friction coefficient			0.03		
		Stroke (increments)		mm	50-4800mm (100 increments)		
		Ambient temperature※1		°C	0~+40		

※1 For extreme temperatures: -20°C ~80°C special greases are required.

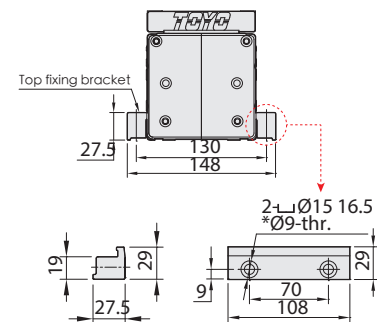
*When the actuator is not attached with reducer to drive, the lead is 250mm.

Numbers of Fixing Screws

M6 nuts Qty.(by stroke)			
Stroke	Quantity	Stroke	Quantity
100~500	4	2600~3000	14
600~1000	6	3100~3500	16
1100~1500	8	3600~4000	18
1600~2000	10	4100~4500	20
2100~2500	12	4600~5000	22

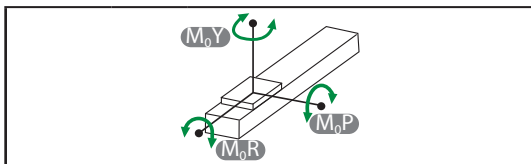
*Standard mounting method is fix from the bottom, using the M6 bolt and nut.

Installation Reference



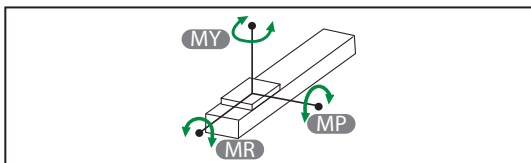
※Top fixing plate is optional.

Static Loading Moment



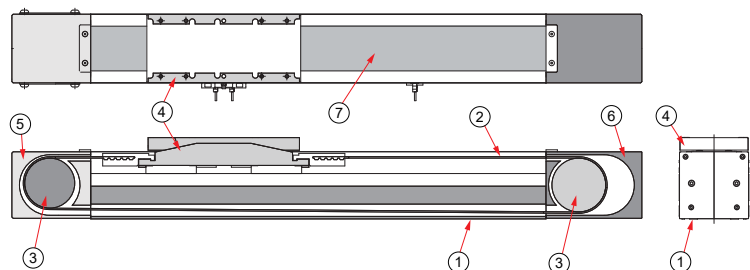
M _{0Y}	N.m	1479
M _{0P}	N.m	1479
M _{0R}	N.m	190

Dynamic Loading Moment



Travel	km	100	1000	10000
MY	N.m	501.8	232.9	108.1
MP	N.m	501.8	232.9	108.1
MR	N.m	50.2	23.3	10.8

Parts list



No.	Part Description	Material
1	Base Extrusion	AL6463
2	Belt	PU
3	Timing pulley	S45C
4	Carriage	AL6463
5	Input pulley support block	AL6061
6	Output pulley support block	AL6061
7	Steel Band	SUS430

M Series

MH65

MH80

MK65

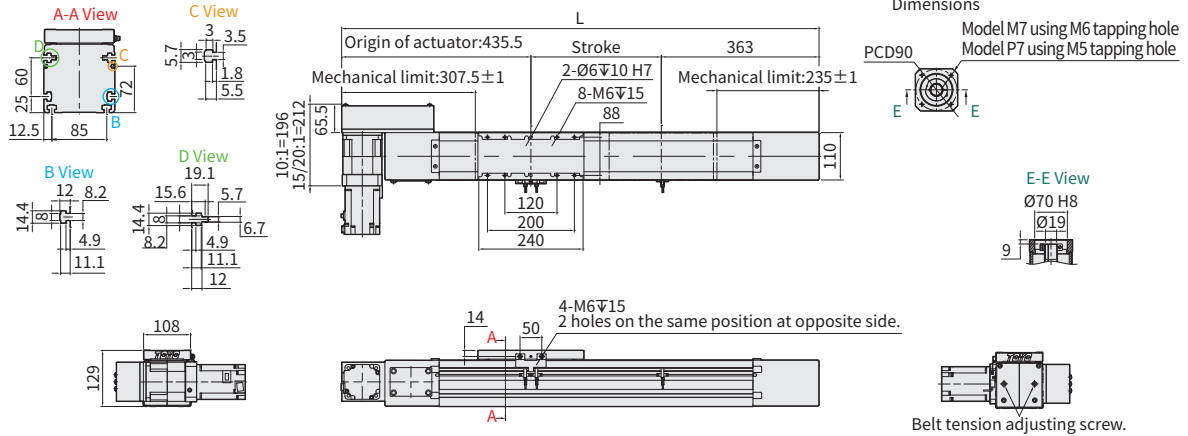
MK85

MK110

MG65

L Motor Left Side   Download CAD data at www.toyorobot.com

Unit : mm



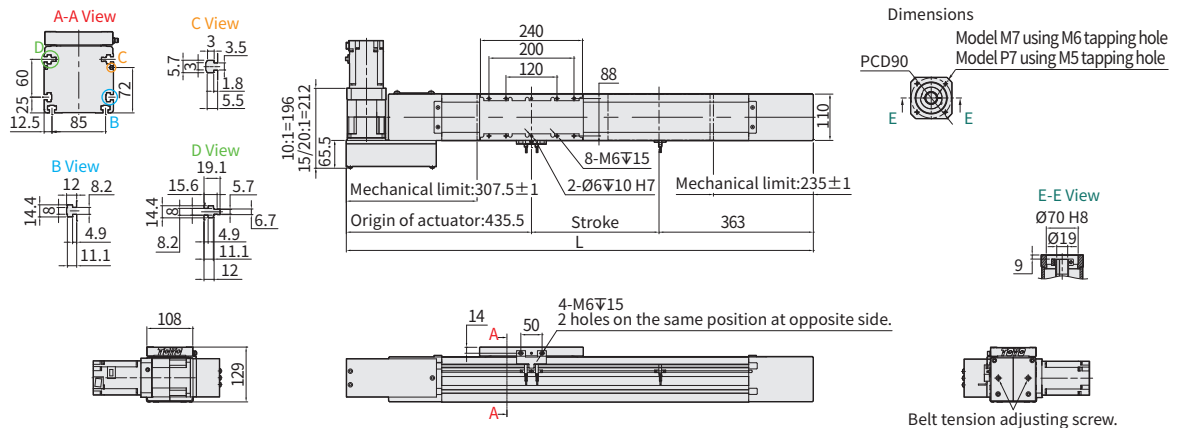
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414
L	898.5	998.5	1098.5	1198.5	1298.5	1398.5	1498.5	1598.5	1698.5	1798.5	1898.5	1998.5	2098.5	2198.5	2298.5	2398.5	2498.5	2598.5	2698.5	2798.5	2898.5	2998.5	3098.5	3198.5
KG	24.09	25.33	26.57	27.81	29.05	30.29	31.53	32.77	34.01	35.25	36.49	37.73	38.97	40.21	41.45	42.69	43.93	45.17	46.41	47.65	48.89	50.13	51.37	52.61
Linear Speed mm/s	5000*																							
Lead250																								

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
Limit Stroke (±1)	2514	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814
L	3298.5	3398.5	3498.5	3598.5	3698.5	3798.5	3898.5	3998.5	4098.5	4198.5	4298.5	4398.5	4498.5	4598.5	4698.5	4798.5	4898.5	4998.5	5098.5	5198.5	5298.5	5398.5	5498.5	5598.5
KG	53.85	55.09	56.33	57.57	58.81	60.05	61.29	62.53	63.77	65.01	66.25	67.49	68.73	69.97	71.21	72.45	73.69	74.93	76.17	77.41	78.65	79.89	81.13	82.37
Linear Speed mm/s	5000*																							
Lead250																								

*Speed will be vary with condition of use . Please refer to Specification on P.302.

R Motor Right Side   Download CAD data at www.toyorobot.com

Unit : mm



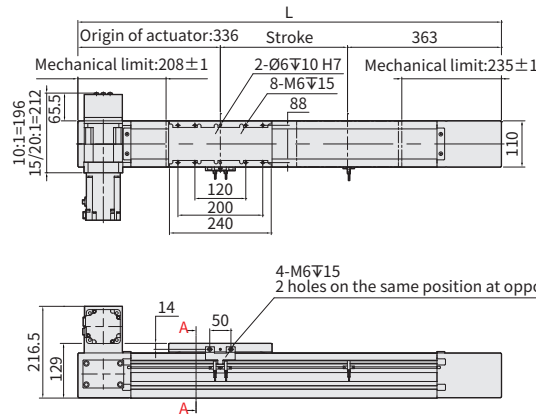
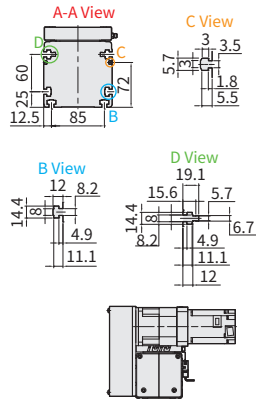
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414
L	898.5	998.5	1098.5	1198.5	1298.5	1398.5	1498.5	1598.5	1698.5	1798.5	1898.5	1998.5	2098.5	2198.5	2298.5	2398.5	2498.5	2598.5	2698.5	2798.5	2898.5	2998.5	3098.5	3198.5
KG	24.09	25.33	26.57	27.81	29.05	30.29	31.53	32.77	34.01	35.25	36.49	37.73	38.97	40.21	41.45	42.69	43.93	45.17	46.41	47.65	48.89	50.13	51.37	52.61
Linear Speed mm/s	5000*																							
Lead250																								

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
Limit Stroke (±1)	2514	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814
L	3298.5	3398.5	3498.5	3598.5	3698.5	3798.5	3898.5	3998.5	4098.5	4198.5	4298.5	4398.5	4498.5	4598.5	4698.5	4798.5	4898.5	4998.5	5098.5	5198.5	5298.5	5398.5	5498.5	5598.5
KG	53.85	55.09	56.33	57.57	58.81	60.05	61.29	62.53	63.77	65.01	66.25	67.49	68.73	69.97	71.21	72.45	73.69	74.93	76.17	77.41	78.65	79.89	81.13	82.37
Linear Speed mm/s	5000*																							
Lead250																								

*Speed will be vary with condition of use . Please refer to Specification on P.302.

LU Motor Left Side   [Download CAD data at: www.toyorobot.com](http://www.toyorobot.com)

Unit : mm



Dimensions
Model M7 using M6 tapping hole
Model P7 using M5 tapping hole



Belt tension adjusting screw.

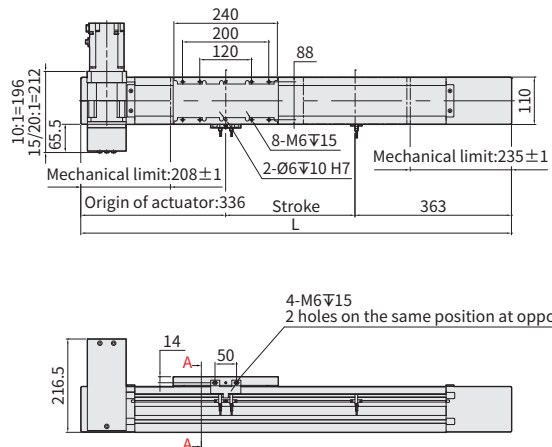
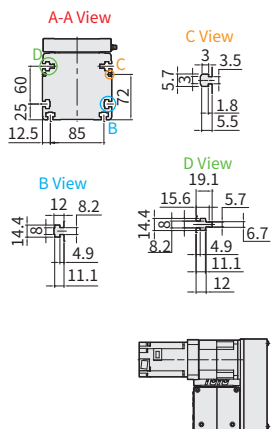
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	24.09	25.33	26.57	27.81	29.05	30.29	31.53	32.77	34.01	35.25	36.49	37.73	38.97	40.21	41.45	42.69	43.93	45.17	46.41	47.65	48.89	50.13	51.37	52.61
Linear Speed mm/s	5000*																							
Lead250																								

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
Limit Stroke (±1)	2514	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	53.85	55.09	56.33	57.57	58.81	60.05	61.29	62.53	63.77	65.01	66.25	67.49	68.73	69.97	71.21	72.45	73.69	74.93	76.17	77.41	78.65	79.89	81.13	82.37
Linear Speed mm/s	5000*																							
Lead250																								

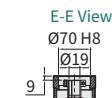
*Speed will be vary with condition of use . Please refer to Specification on P.302.

RU Motor Right Side   [Download CAD data at: www.toyorobot.com](http://www.toyorobot.com)

Unit : mm



Dimensions
Model M7 using M6 tapping hole
Model P7 using M5 tapping hole



Belt tension adjusting screw.

Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	24.09	25.33	26.57	27.81	29.05	30.29	31.53	32.77	34.01	35.25	36.49	37.73	38.97	40.21	41.45	42.69	43.93	45.17	46.41	47.65	48.89	50.13	51.37	52.61
Linear Speed mm/s	5000*																							
Lead250																								

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
Limit Stroke (±1)	2514	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	53.85	55.09	56.33	57.57	58.81	60.05	61.29	62.53	63.77	65.01	66.25	67.49	68.73	69.97	71.21	72.45	73.69	74.93	76.17	77.41	78.65	79.89	81.13	82.37
Linear Speed mm/s	5000*																							
Lead250																								

*Speed will be vary with condition of use . Please refer to Specification on P.302.

M Series

MH65

MH80

MK65

MK85

MK110

MG65

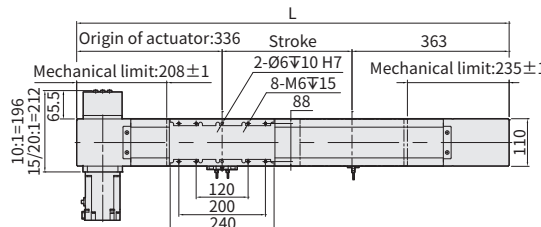
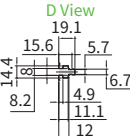
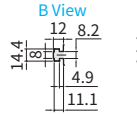
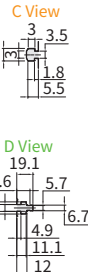
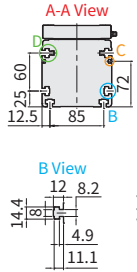
LD

Motor Left Lower Side



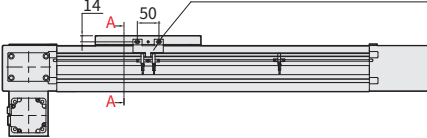
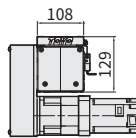
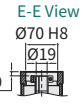
Download CAD data at www.toyorobot.com

Unit : mm

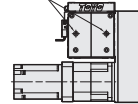


Dimensions

Model M7 using M6 tapping hole
Model P7 using M5 tapping hole



Belt tension adjusting screw.



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	24.09	25.33	26.57	27.81	29.05	30.29	31.53	32.77	34.01	35.25	36.49	37.73	38.97	40.21	41.45	42.69	43.93	45.17	46.41	47.65	48.89	50.13	51.37	52.61

Linear Speed	mm/s	Lead250	5000*
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Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
Limit Stroke (±1)	2514	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	53.85	55.09	56.33	57.57	58.81	60.05	61.29	62.53	63.77	65.01	66.25	67.49	68.73	69.97	71.21	72.45	73.69	74.93	76.17	77.41	78.65	79.89	81.13	82.37

Linear Speed	mm/s	Lead250	5000*
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*Speed will be vary with condition of use . Please refer to Specification on P. 302.

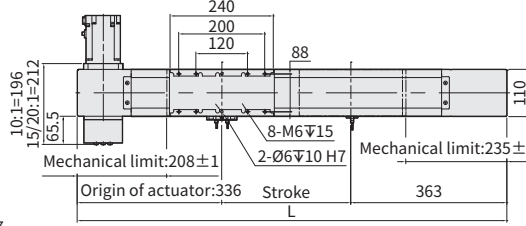
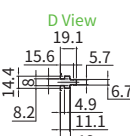
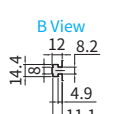
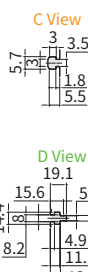
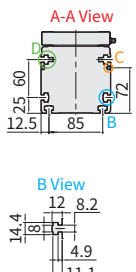
RD

Motor Right Lower Side



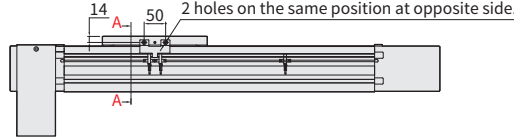
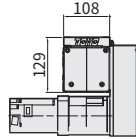
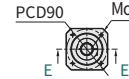
Download CAD data at www.toyorobot.com

Unit : mm

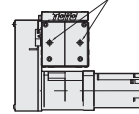


Dimensions

Model M7 using M6 tapping hole
Model P7 using M5 tapping hole



Belt tension adjusting screw.



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	24.09	25.33	26.57	27.81	29.05	30.29	31.53	32.77	34.01	35.25	36.49	37.73	38.97	40.21	41.45	42.69	43.93	45.17	46.41	47.65	48.89	50.13	51.37	52.61

Linear Speed	mm/s	Lead250	5000*
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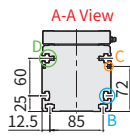
Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
Limit Stroke (±1)	2514	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	53.85	55.09	56.33	57.57	58.81	60.05	61.29	62.53	63.77	65.01	66.25	67.49	68.73	69.97	71.21	72.45	73.69	74.93	76.17	77.41	78.65	79.89	81.13	82.37

Linear Speed	mm/s	Lead250	5000*
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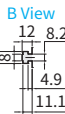
*Speed will be vary with condition of use . Please refer to Specification on P. 302.

LT Reducer With Motor Left Side
[Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

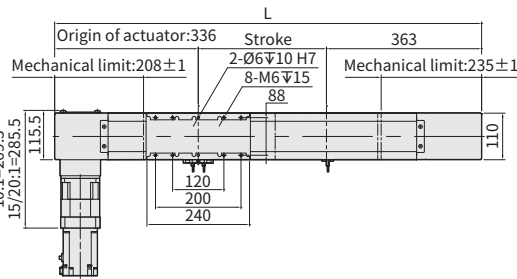
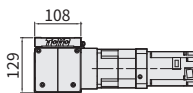
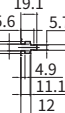
Unit : mm



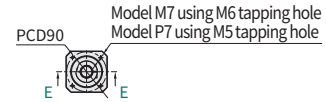
C View



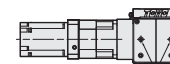
D View



Dimensions



E-E View



Belt tension adjusting screw.

Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	21.33	22.57	23.81	25.05	26.29	27.53	28.77	30.01	31.25	32.49	33.73	34.97	36.21	37.45	38.69	39.93	41.17	42.41	43.65	44.89	46.13	47.37	48.61	49.85

Linear Speed mm/s	Lead250	5000*																						
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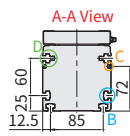
Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
Limit Stroke (±1)	2514	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	51.09	52.33	53.57	54.81	56.05	57.29	58.53	59.77	61.01	62.25	63.49	64.73	65.97	67.21	68.45	69.69	70.93	72.17	73.41	74.65	75.89	77.13	78.37	79.61

Linear Speed mm/s	Lead250	5000*																						
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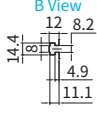
*Speed will be vary with condition of use . Please refer to Specification on P.302.

RT Reducer With Motor Right Side
[Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

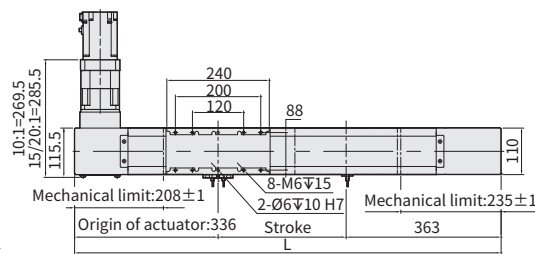
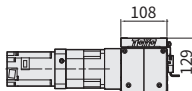
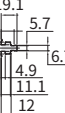
Unit : mm



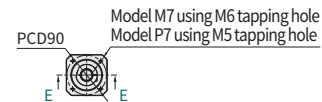
C View



D View



Dimensions



E-E View



Belt tension adjusting screw.

Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	21.33	22.57	23.81	25.05	26.29	27.53	28.77	30.01	31.25	32.49	33.73	34.97	36.21	37.45	38.69	39.93	41.17	42.41	43.65	44.89	46.13	47.37	48.61	49.85

Linear Speed mm/s	Lead250	5000*																						
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Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
Limit Stroke (±1)	2514	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	51.09	52.33	53.57	54.81	56.05	57.29	58.53	59.77	61.01	62.25	63.49	64.73	65.97	67.21	68.45	69.69	70.93	72.17	73.41	74.65	75.89	77.13	78.37	79.61

Linear Speed mm/s	Lead250	5000*																						
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*Speed will be vary with condition of use . Please refer to Specification on P.302.

M Series

MH65

MH80

MK65

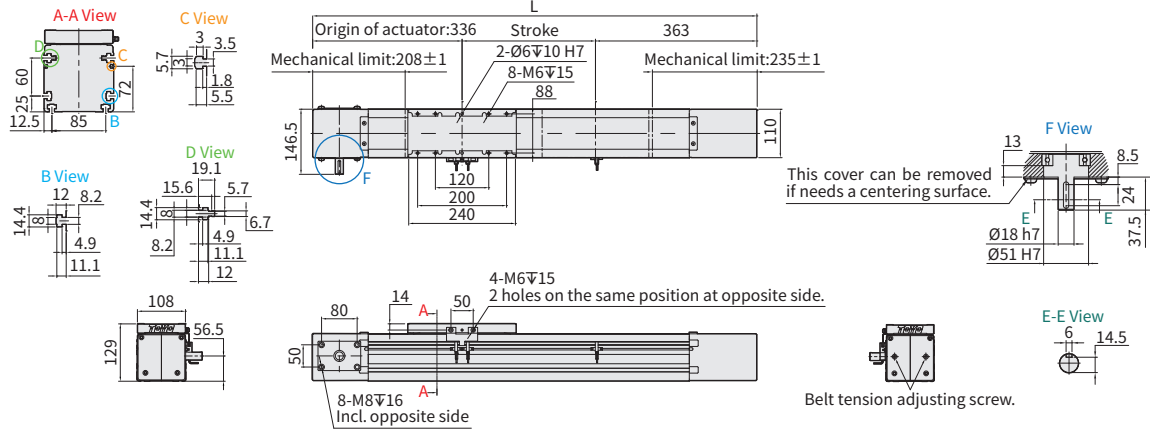
MK85

MK110

MG65

LL Motor Shaft Left Side   Download CAD data at www.toyorobot.com

Unit : mm



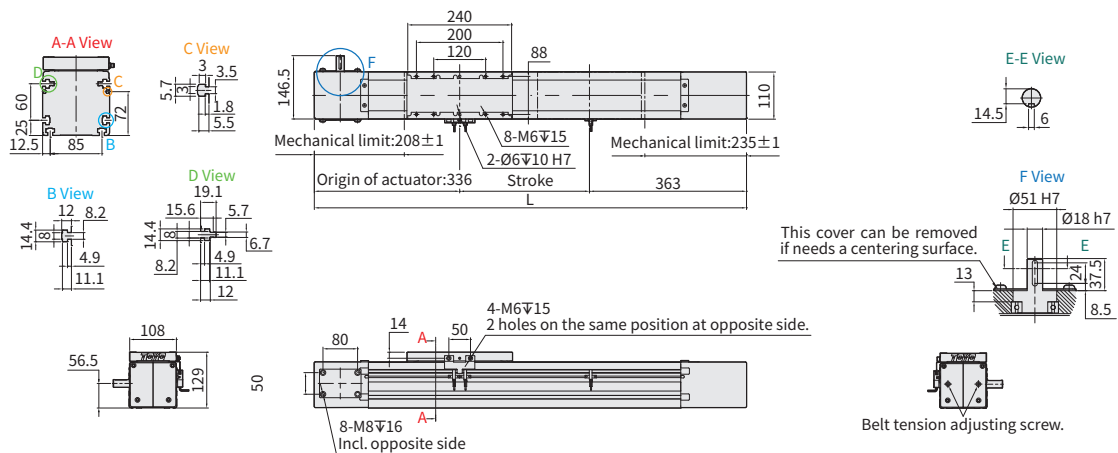
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	18.86	20.1	21.34	22.58	23.82	25.06	26.3	27.54	28.78	30.02	31.26	32.5	33.74	34.98	36.22	37.46	38.7	39.94	41.18	42.42	43.66	44.9	46.14	47.38
Linear Speed mm/s	Lead250 5000*																							

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
Limit Stroke (±1)	2514	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	48.62	49.86	51.1	52.34	53.58	54.82	56.06	57.3	58.54	59.78	61.02	62.26	63.5	64.74	65.98	67.22	68.46	69.7	70.94	72.18	73.42	74.66	75.9	77.14
Linear Speed mm/s	Lead250 5000*																							

*Speed will be vary with condition of use . Please refer to Specification on P. 302.

RR Motor Shaft Right Side   Download CAD data at www.toyorobot.com

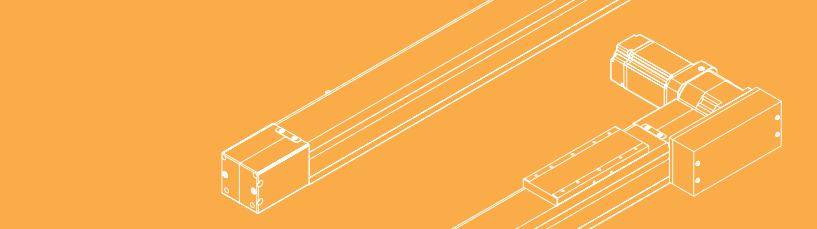
Unit : mm



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Limit Stroke (±1)	114	214	314	414	514	614	714	814	914	1014	1114	1214	1314	1414	1514	1614	1714	1814	1914	2014	2114	2214	2314	2414
L	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799	2899	2999	3099
KG	18.86	20.1	21.34	22.58	23.82	25.06	26.3	27.54	28.78	30.02	31.26	32.5	33.74	34.98	36.22	37.46	38.7	39.94	41.18	42.42	43.66	44.9	46.14	47.38
Linear Speed mm/s	Lead250 5000*																							

Stroke	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800
Limit Stroke (±1)	2514	2614	2714	2814	2914	3014	3114	3214	3314	3414	3514	3614	3714	3814	3914	4014	4114	4214	4314	4414	4514	4614	4714	4814
L	3199	3299	3399	3499	3599	3699	3799	3899	3999	4099	4199	4299	4399	4499	4599	4699	4799	4899	4999	5099	5199	5299	5399	5499
KG	48.62	49.86	51.1	52.34	53.58	54.82	56.06	57.3	58.54	59.78	61.02	62.26	63.5	64.74	65.98	67.22	68.46	69.7	70.94	72.18	73.42	74.66	75.9	77.14
Linear Speed mm/s	Lead250 5000*																							

*Speed will be vary with condition of use . Please refer to Specification on P. 302.



Application
Standard Ball Screw Type GTH / GTY / ETH
Standard Belt Type M Series
Cleanroom Ball Screw Type GCH / ECH
Cleanroom Belt Type ECB
Reference

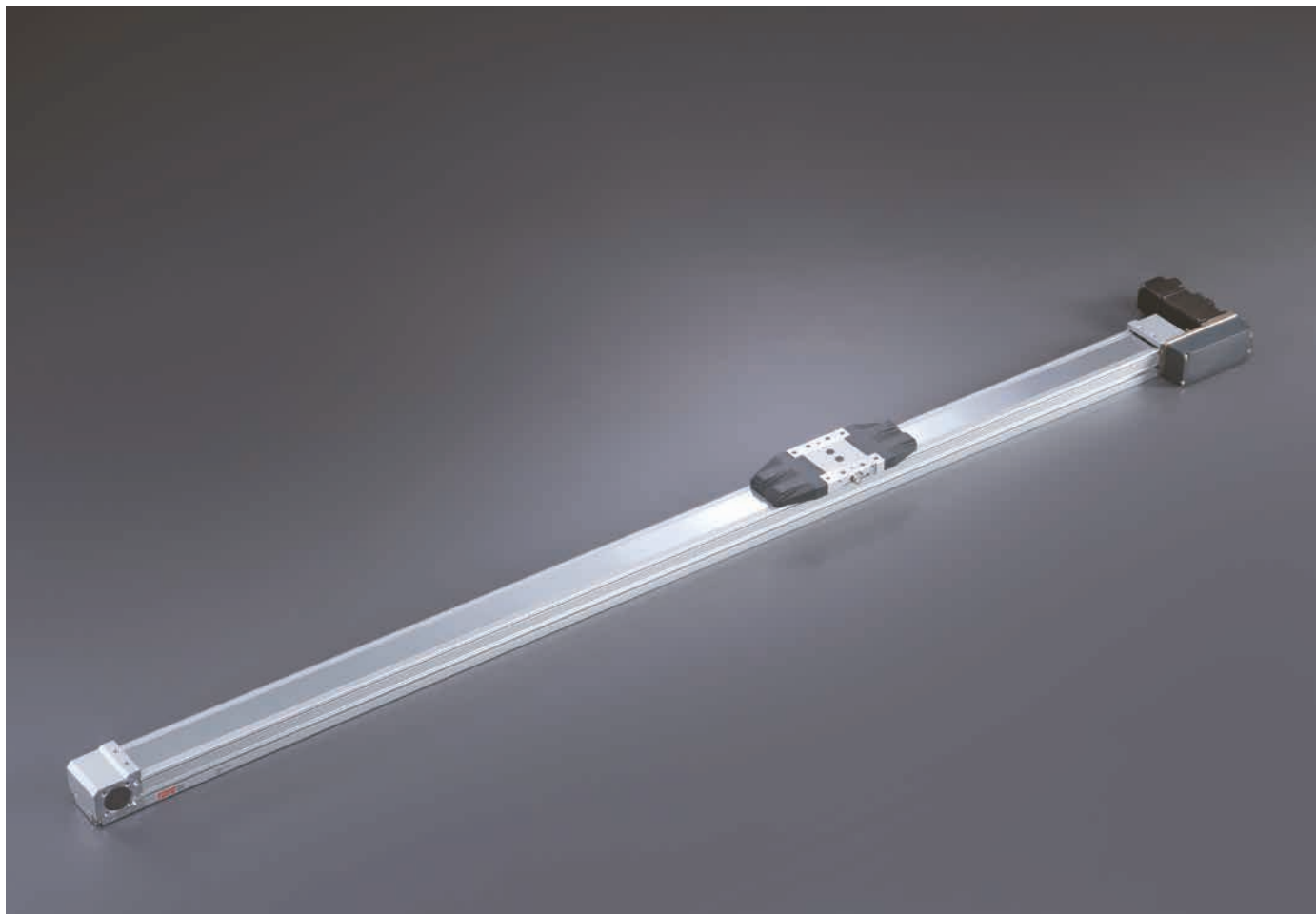
Memo

M Series
MH65
MH80
MK65
MK85
MK110
MG65

MG50 單軸 /1-axis

▶ 軌道內嵌
Integrated Linear Bearing

▶ 皮帶驅動
Belt Drive



最大行程
Maximum Stroke 3700mm

最高速度
Maximum Speed 3500mm/s

馬達容量
Motor Output 100W

皮帶寬度
Belt Width 15 mm

* 依減速比不同而異
* Differ from different gear ratio.

型號表示方式 Ordering Method

MG50 - 2000 - LUS - M10B - C4N5-02.5 - 參照右頁 - A001

本體型號
Model

行程
Stroke

300-3700mm
50間隔 50 mm Pitch

馬達位置^{*2}
Motor Position

有動力 With Gearbox			
L	馬達左折 Motor Left Side	R	馬達右折 Motor Right Side
LU	馬達左上折 Motor Left Upper Side	RU	馬達右上折 Motor Right Upper Side
LD	馬達左下折 Motor Left Lower Side	RD	馬達右下折 Motor Right Lower Side
LT	馬達直結左折 Reducer With Motor Left Side	RT	馬達直結右折 Reducer With Motor Right Side
無動力 Without Gearbox			
LL	馬達出軸心左折 Motor Shaft Left Side	RR	馬達出軸心右折 Motor Shaft Right Side

^{*2} 依減速型式不同，對應的馬達位置有限制。
^{*2} Depending on the drive mode, the corresponding motor position is limited.

同動軸心
Synchronous axis

^{*4} S 有同動軸心
With Synchronous axis

^{*4} 若無則不表示。
*4 If there is no, it will not be indicated.
^{*5} 馬達方向LL&RR不適用
*5 Motor direction LL&RR is not available.

馬達廠牌
Motor Brand

M	三菱 Mitsubishi	10	100W	B ^{*1}
P	松下 Panasonic	20	-	
Y	安川 Yaskawa	40	-	
T	台達 Delta	75	-	

^{*1} 若無煞車則不表示。^{*1} If No Brake, No Description.

原點感應器
Home Sensor

外掛型 Out Side	
C	馬達側 Motor Side
D	反馬達側 Opposite Motor Side
無 SENSOR No Sensor	
E	無 SENSOR No Sensor

輸出方式&線長
Output type & Cable length

N5	NPN+5米線 NPN+5M Cable
P2	PNP+2米線 PNP+2M Cable
P5	PNP+5米線 PNP+5M Cable
-	NPN+2米線 NPN+2M Cable

端點極限感應器
Limit Sensor

外掛型 Out Side	
3	1只 1 Pc
4	2只 2 Pcs
無 SENSOR No Sensor	
5	無 SENSOR No Sensor

選配
Options

特注式樣
Customization Order No.

搭配減速型式^{*2}
Gear Box Type

02.5	搭配2.5比減速機構 With 2.5:1 Gearratio 適用L/LU/LD/R/RU/RD Suit for L/LU/LD/R/RU/RD
04	搭配4比減速機構 ^{*3} With 4:1 Reducer 適用L/LU/LD/LT/R/RU/RD/RT Suit for L/LU/LD/LT/R/RU/RD/RT
N	無動力輔助軸 None powered support 適用LL/RR Suit for LL/RR
00	馬達直接驅動，無減速機(構) Motor direct drive, without reducer(Gearbox) 適用LT/RT Suit for LT/RT

^{*3} 減速機由TOYO提供，若需使用特殊減速機需提出特注處理。
^{*3} The gearbox is provided by TOYO, other than toyo gearbox required customization.

基本仕様 Specification

規格	減速型式代碼 Reduce Model code		02.5		04		00	
	減速型式 Drive Deceleration		減速機構 Gear Box		減速機 Reducer		馬達直驅 Motor directdrive	
	減速比 Reduce Ratio		2.5:1		4:1		1:1	
	馬達最高轉速 Motor max. speed (rpm)		3600	3000	3600	3000	3500	
	最高速度 Maximum Speed (mm/s) ※2		1440	1200	900	750	3500	
	最大可搬重量 Maximum Payload	水平使用 Horizontal (KG)※3	12	16	16	16	2	
		垂直使用 Vertical (KG)※1	1	2	3	4	1	
	位置重複精度 Repeatability (mm)		±0.04				±0.08	
定格推力 Rated Thrust (N)		71		113		28		
部品	標準行程 Stroke Pitch (mm)		300-3700mm / 50 間隔 50 mm Pitch					
	AC 伺服馬達容量 AC Servo Motor Output (W)		100					
	皮帶寬度 Belt width (mm)		15					
	原點感應器 Home Sensor	外掛 Outside	T64N2 (NPN+2 米線) (NPN+2M Cable)					

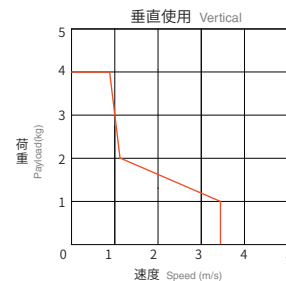
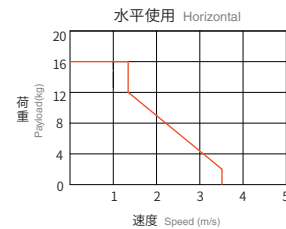
- ※1 垂直使用時，如果皮帶斷裂，負載可能會掉落。請小心。
When using it vertically, if the belt breaks, the load may fall down. Please be careful.
- ※2 滑台未安裝減速器時，導程為 60。
The lead is 60 when the reducer is not installed on the actuator.
- ※3 壁掛最大荷重為 2kg。The maximum payload for wall mount is 2kg.

滑台固定螺帽數量 Numbers of Fixing Screws

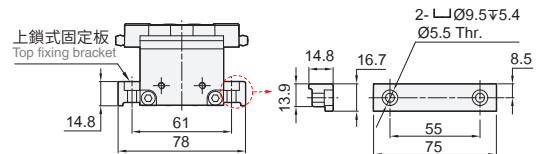
各行程 M5 後裝螺帽數量 M5 nuts Qty.(by stroke)									
有效行程 Stroke	300~450	500~650	700~850	900~1050	1100~1250	1300~1450	1500~1650	1700~1850	1900~2050
數量 Quantity	8	10	12	14	16	18	20	22	24
有效行程 Stroke	2100~2250	2300~2450	2500~2650	2700~2850	2900~3050	3100~3250	3300~3450	3500~3650	3700
數量 Quantity	26	28	30	32	34	36	38	40	42

- ※ 滑台標準固定方式為下鎖式，使用 M5 後裝螺絲固定。
Standard mounting method is fix from the bottom, using the M5 bolt and nut.

速度 - 荷重曲線圖 Acceleration-Payload Relationship



安裝示意圖 & 安裝尺寸 Installation Reference



- ※ 上鎖式固定板非標準品，若有需求請另外追加選購。Top fixing plate is optional.

容許負載力距表 Allowable Overhang Moment

(單位 Unit : mm)

(單位 Unit : mm)

水平安裝 Horizontal installation		A	B	C
2.5:1 減速機構 Gear Box	8kg	1730	970	172
	12kg	910	556	90
	16kg	600	495	60
4:1 減速機 Reducer	10kg	2310	990	230
	16kg	930	600	93
	-	-	-	-
1:1 馬達直驅 Motor direct drive	0.5kg	300	250	29
	2kg	250	200	24
	-	-	-	-

垂直安裝 Wall Installation		A	C
2.5:1 減速機構 Gear Box	0.5kg	600	600
	1kg	520	520
	-	-	-
4:1 減速機 Reducer	2kg	520	520
	3kg	470	470
	-	-	-
1:1 馬達直驅 Motor direct drive	0.5kg	270	270
	1kg	230	230
	-	-	-

靜額定扭矩 Static Loading Moment

		(單位 Unit : N.m)	
MY		379	
MP		379	
MR		360	

- * 力矩表所表示的數據，代表荷重的重心位置於單一方向容許懸出的長度。
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.
- * 符合型錄規範的正常情況下，保證壽命為 10000 公里。
Operation life is 10,000km when the product is using under the specified conditions.
Data information is not for ceiling-mount inverse use.
- * 倒吊使用無法套用標準規範，如有需求請洽詢我司業務。
The life and torque are calculated by setting the motor acceleration and deceleration for 0.4 seconds.

選配 Options

EB				MM				GC			
外觀黑色處理 Outer layer is treated with black oxide				指定馬達出線方向 Selectable Cable Leading Direction				減速機由客戶提供 Gear Box provided by customer			
代號 Code	說明 Instructions		需參照 Refer to	代號 Code	說明 Instructions		需參照 Refer to	代號 Code	說明 Instructions		需參照 Refer to
	顏色 Color	範圍 Range									
EB	黑色 Black	本體 Main Body	P.052	MW	朝上 Upper side	P.052 ~ P.053		GC	客供減速機尺寸需與標準固定尺寸相同 The size of the customer-supplied gearbox must be the same as the standard fixed size as page 683.		P.054
	原色 Original color	不銹鋼板材 Screw 鋼帶 Support rod		MM	朝下 Bottom side						
				ML	朝左 Left side						
				MR	朝右 Right side						

02.5: 搭配 2.5 比減速機構 2.5:1 Gear ratio

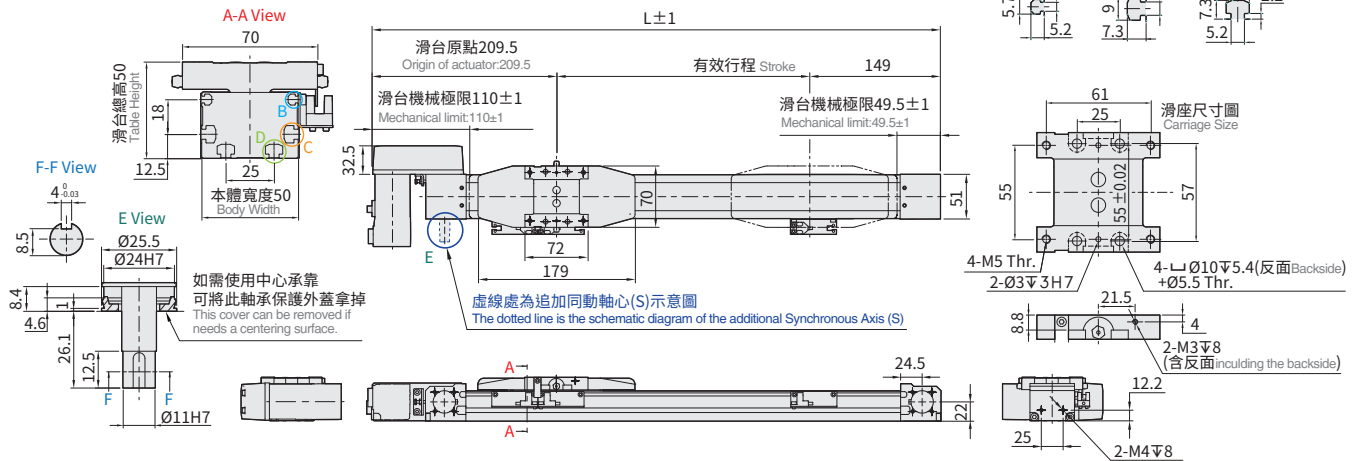
L 馬達左折 Motor Left Side



• CAD圖面可至www.toyorobot.com下載 •
Please download the CAD file from TOYO's website : www.toyorobot.com

單位 Unit : mm

LS 馬達左折 + 同動軸心 Motor Left Side With Synchronous axis



有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		658.5	758.5	858.5	958.5	1058.5	1158.5	1258.5	1358.5	1458.5	1558.5	1658.5	1758.5	1858.5	1958.5	2058.5	2158.5	2258.5	2358.5
KG		2.01	2.19	2.39	2.55	2.73	2.91	3.09	3.27	3.45	3.63	3.81	3.99	4.17	4.35	4.53	4.71	4.89	5.07
線速度 Linear Speed mm/s		1440																	
導程 Lead 24		1440																	
有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2458.5	2558.5	2658.5	2758.5	2858.5	2958.5	3058.5	3158.5	3258.5	3358.5	3458.5	3558.5	3658.5	3758.5	3858.5	3958.5	4058.5	
KG		5.25	5.42	5.6	5.78	5.96	6.14	6.32	6.5	6.68	6.86	7.04	7.22	7.4	7.58	7.76	7.94	8.12	
線速度 Linear Speed mm/s		1440																	
導程 Lead 24		1440																	

※ 由於版面限制，無法列出所有行程資訊，總長 L= 行程 +358.5; 極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+358.5 and the stroke limit is +10 of the stroke range.

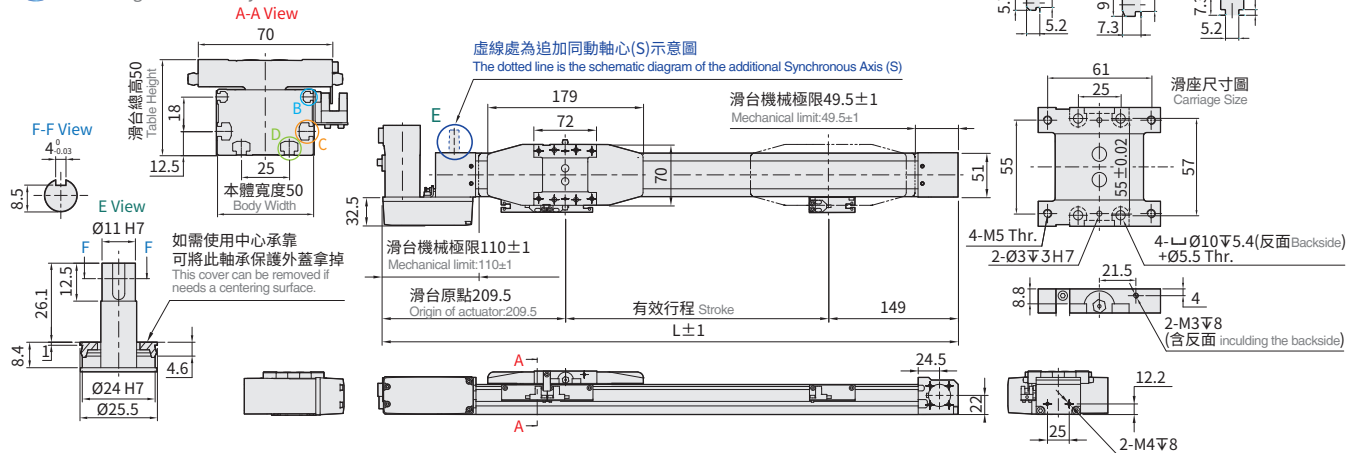
R 馬達右折 Motor Right Side



• CAD圖面可至www.toyorobot.com下載 •
Please download the CAD file from TOYO's website : www.toyorobot.com

單位 Unit : mm

RS 馬達右折 + 同動軸心 Motor Right Side With Synchronous axis

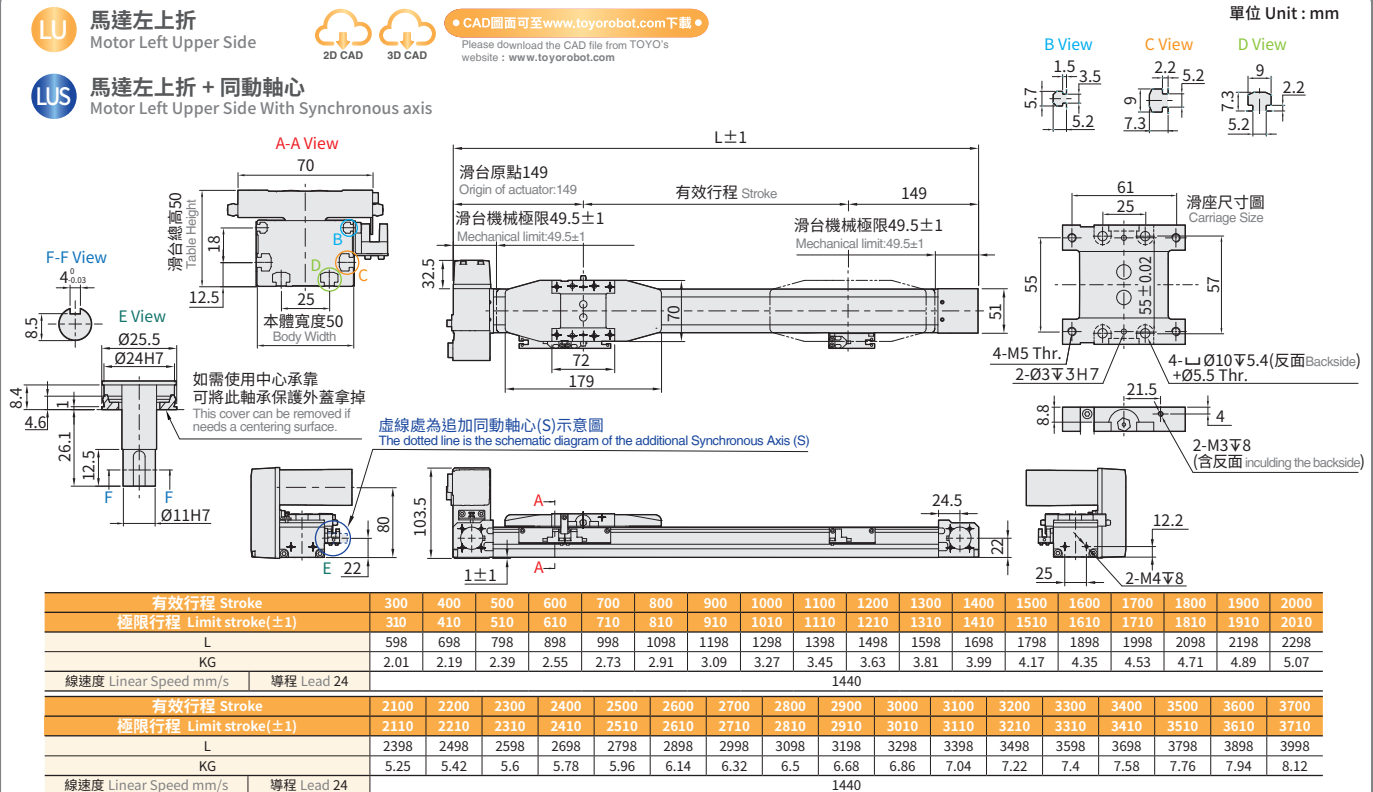
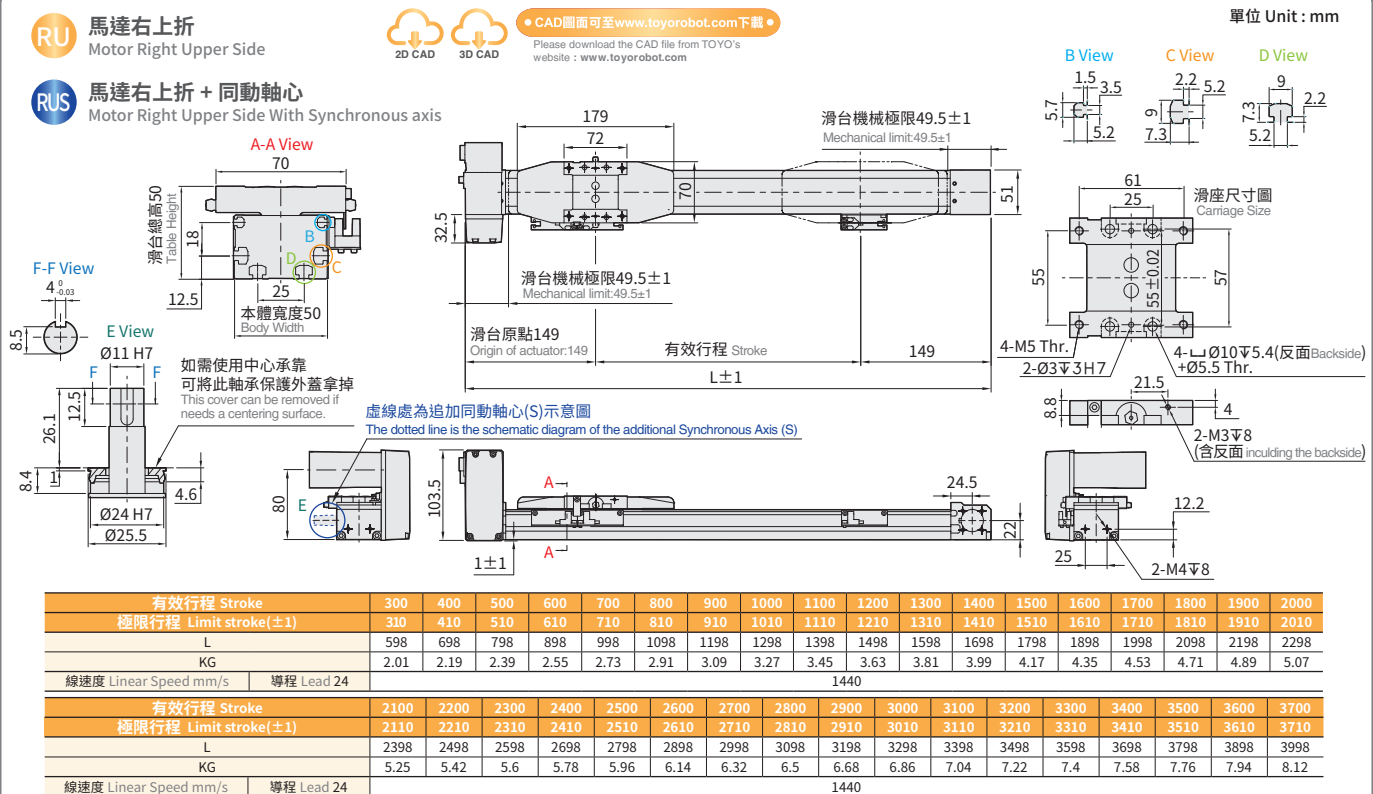


有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		658.5	758.5	858.5	958.5	1058.5	1158.5	1258.5	1358.5	1458.5	1558.5	1658.5	1758.5	1858.5	1958.5	2058.5	2158.5	2258.5	2358.5
KG		2.01	2.19	2.39	2.55	2.73	2.91	3.09	3.27	3.45	3.63	3.81	3.99	4.17	4.35	4.53	4.71	4.89	5.07
線速度 Linear Speed mm/s		導程 Lead 24																	
		1440																	
有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2458.5	2558.5	2658.5	2758.5	2858.5	2958.5	3058.5	3158.5	3258.5	3358.5	3458.5	3558.5	3658.5	3758.5	3858.5	3958.5	4058.5	
KG		5.25	5.42	5.6	5.78	5.96	6.14	6.32	6.5	6.68	6.86	7.04	7.22	7.4	7.58	7.76	7.94	8.12	
線速度 Linear Speed mm/s		導程 Lead 24																	
		1440																	

※ 由於版面限制，無法列出所有行程資訊，總長 L= 行程 +358.5; 極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+358.5 and the stroke limit is +10 of the stroke range.

02.5: 搭配 2.5 比減速機構

2.5:1 Gear ratio

LU 馬達左上折
Motor Left Upper SideCAD圖面可至www.toyorobot.com下載
Please download the CAD file from TOYO's website: www.toyorobot.comLUS 馬達左上折 + 同動軸心
Motor Left Upper Side With Synchronous axisRU 馬達右上折
Motor Right Upper SideCAD圖面可至www.toyorobot.com下載
Please download the CAD file from TOYO's website: www.toyorobot.comRUS 馬達右上折 + 同動軸心
Motor Right Upper Side With Synchronous axis應用例
Application一般 / 螺桿仕様
GTH / GTV / ETH / Y一般 / 皮帶仕様
M無塵 / 螺桿仕様
GCH / ECH無塵 / 皮帶仕様
ECB直交連結
XYGT / XYTH / XYTB參考資料
Reference

M Series

MG50

MG65

MG85

02.5: 搭配 2.5 比減速機構 2.5:1 Gear ratio



馬達左下折
Motor Left Lower Side

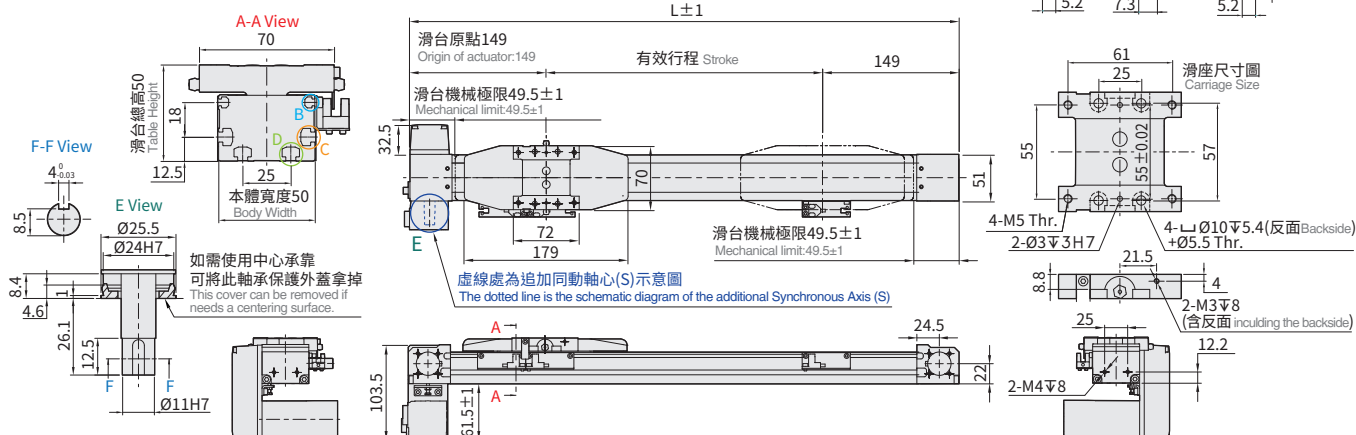


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Please download the CAD file from TOYO's website : www.toyorobot.com

單位 Unit : mm



馬達左下折 + 同動軸心
Motor Left Side With Synchronous axis



有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		598	698	798	898	998	1098	1198	1298	1398	1498	1598	1698	1798	1898	1998	2098	2198	2298
KG		2.01	2.19	2.39	2.55	2.73	2.91	3.09	3.27	3.45	3.63	3.81	3.99	4.17	4.35	4.53	4.71	4.89	5.07
線速度 Linear Speed mm/s		導程 Lead 24																	
		1440																	

有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2398	2498	2598	2698	2798	2898	2998	3098	3198	3298	3398	3498	3598	3698	3798	3898	3998	
KG		5.25	5.42	5.6	5.78	5.96	6.14	6.32	6.5	6.68	6.86	7.04	7.22	7.4	7.58	7.76	7.94	8.12	
線速度 Linear Speed mm/s		導程 Lead 24																	
		1440																	

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 +298；極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+298 and the stroke limit is +10 of the stroke range.



馬達右下折
Motor Right Lower Side

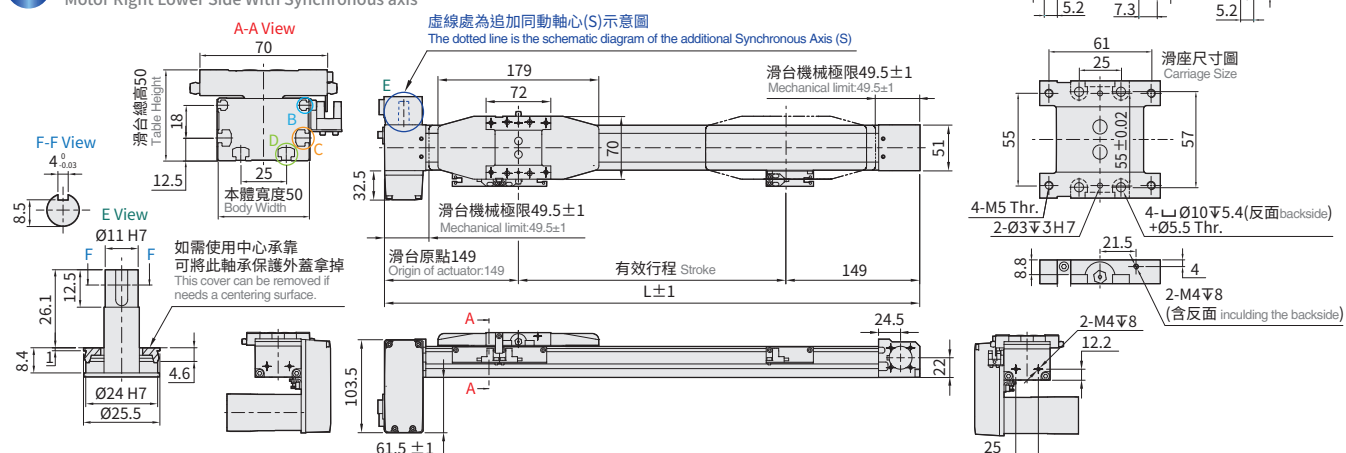


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Please download the CAD file from TOYO's website : www.toyorobot.com

單位 Unit : mm



馬達右下折 + 同動軸心
Motor Right Lower Side With Synchronous axis



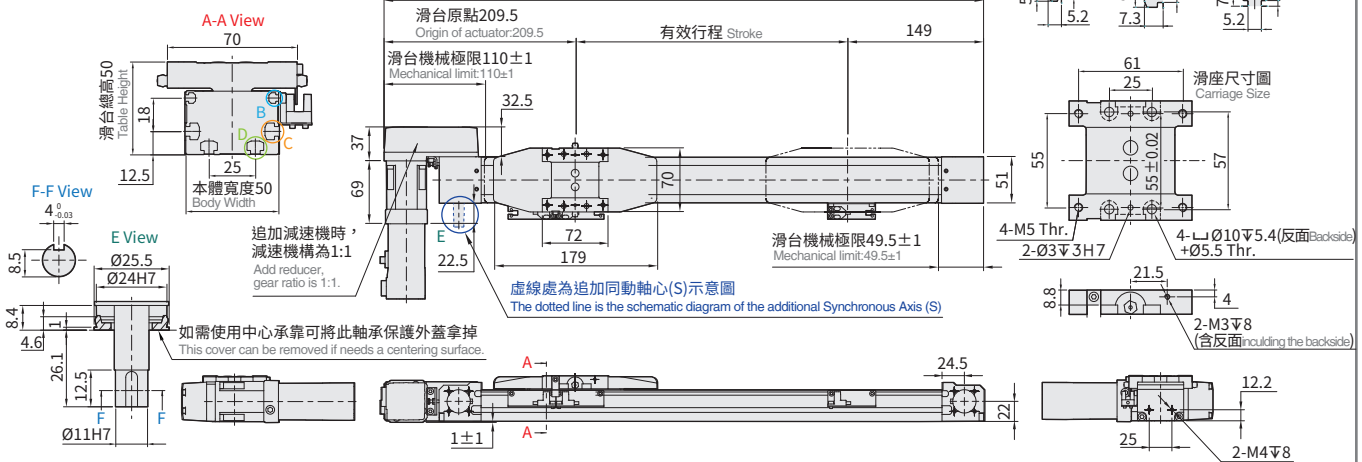
有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		598	698	798	898	998	1098	1198	1298	1398	1498	1598	1698	1798	1898	1998	2098	2198	2298
KG		2.01	2.19	2.39	2.55	2.73	2.91	3.09	3.27	3.45	3.63	3.81	3.99	4.17	4.35	4.53	4.71	4.89	5.07
線速度 Linear Speed mm/s		1440																	
導程 Lead 24		1440																	

有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2398	2498	2598	2698	2798	2898	2998	3098	3198	3298	3398	3498	3598	3698	3798	3898	3998	
KG		5.25	5.42	5.6	5.78	5.96	6.14	6.32	6.5	6.68	6.86	7.04	7.22	7.4	7.58	7.76	7.94	8.12	
線速度 Linear Speed mm/s		1440																	
導程 Lead 24		1440																	

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 +298；極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+298 and the stroke limit is +10 of the stroke range.

04: 搭配四比減速機
4:1 Reducer馬達左折
Motor Left Side● CAD圖面可至www.toyorobot.com下載 ●
Please download the CAD file from TOYO's website: www.toyorobot.com

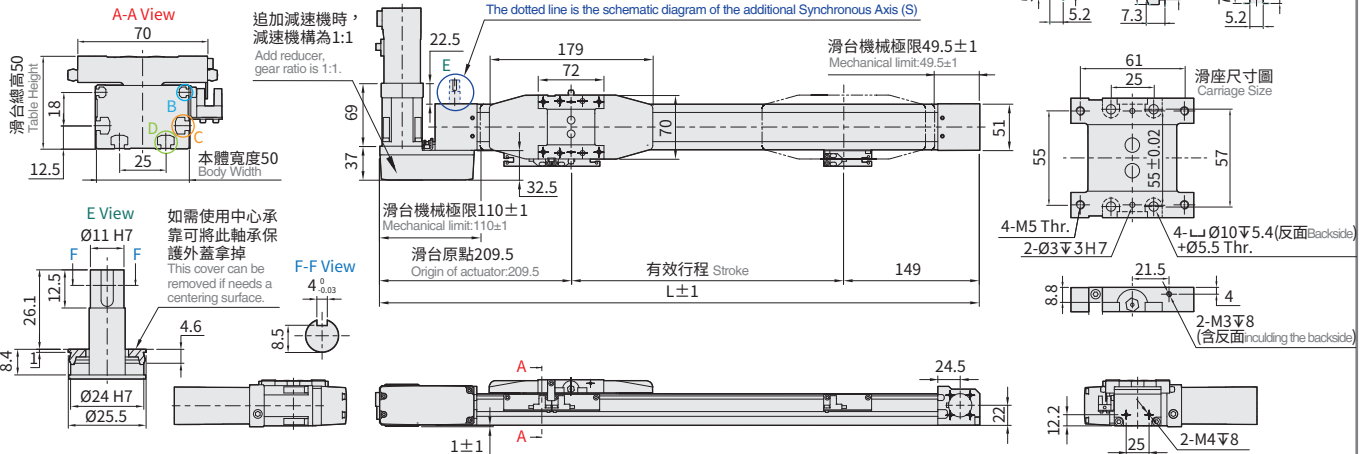
單位 Unit : mm

馬達左折 + 同動軸心
Motor Left Side With Synchronous axis

有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		658.5	758.5	858.5	958.5	1058.5	1158.5	1258.5	1358.5	1458.5	1558.5	1658.5	1758.5	1858.5	1958.5	2058.5	2158.5	2258.5	2358.5
KG		2.71	2.89	3.07	3.25	3.42	3.6	3.78	3.96	4.14	4.32	4.5	4.68	4.86	5.04	5.22	5.40	5.58	5.76
線速度 Linear Speed mm/s		導程 Lead 15																	
		900																	
有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2458.5	2558.5	2658.5	2758.5	2858.5	2958.5	3058.5	3158.5	3258.5	3358.5	3458.5	3558.5	3658.5	3758.5	3858.5	3958.5	4058.5	
KG		5.94	6.12	6.3	6.48	6.66	6.84	7.02	7.2	7.38	7.56	7.74	7.92	8.1	8.27	8.46	8.64	8.82	
線速度 Linear Speed mm/s		導程 Lead 15																	
		900																	

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 + 358.5；極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke + 358.5 and the stroke limit is +10 of the stroke range.馬達右折
Motor Right Side● CAD圖面可至www.toyorobot.com下載 ●
Please download the CAD file from TOYO's website: www.toyorobot.com

單位 Unit : mm

馬達右折 + 同動軸心
Motor Right Side With Synchronous axis

有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		658.5	758.5	858.5	958.5	1058.5	1158.5	1258.5	1358.5	1458.5	1558.5	1658.5	1758.5	1858.5	1958.5	2058.5	2158.5	2258.5	2358.5
KG		2.71	2.89	3.07	3.25	3.42	3.6	3.78	3.96	4.14	4.32	4.5	4.68	4.86	5.04	5.22	5.40	5.58	5.76
線速度 Linear Speed mm/s		導程 Lead 15900																	
有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2458.5	2558.5	2658.5	2758.5	2858.5	2958.5	3058.5	3158.5	3258.5	3358.5	3458.5	3558.5	3658.5	3758.5	3858.5	3958.5	4058.5	
KG		5.94	6.12	6.3	6.48	6.66	6.84	7.02	7.2	7.38	7.56	7.74	7.92	8.1	8.27	8.46	8.64	8.82	
線速度 Linear Speed mm/s		導程 Lead 15900																	

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 + 358.5；極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke + 358.5 and the stroke limit is +10 of the stroke range.

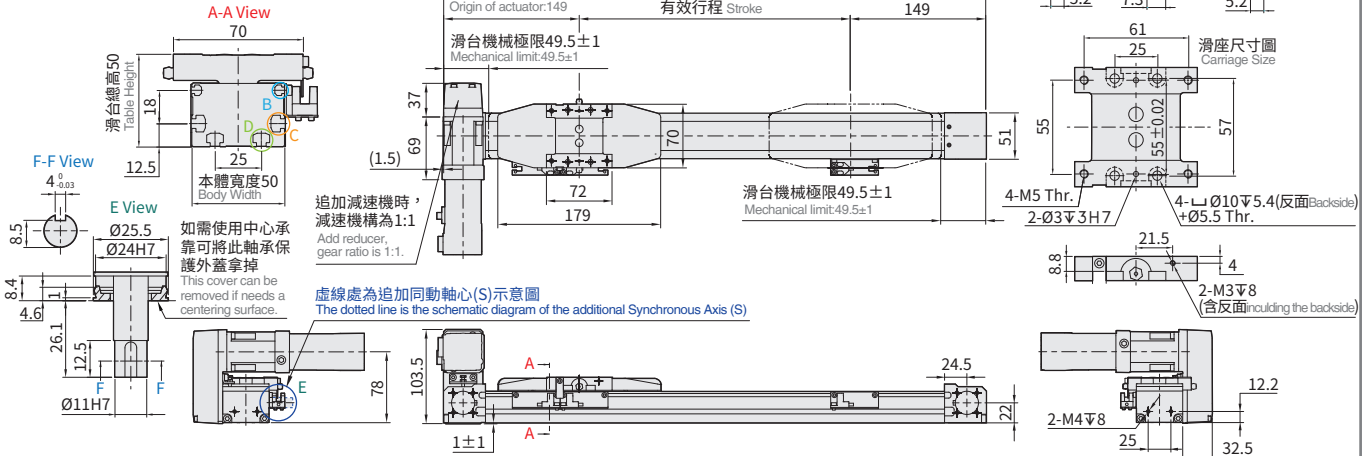
04: 搭配四比減速機 4:1 Reducer

馬達左上折 Motor Left Upper Side



• CAD圖面可至www.toyorobot.com下載
Please download the CAD file from TOYO's website: www.toyorobot.com

馬達左上折 + 同動軸心 Motor Left Upper Side With Synchronous axis



有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		598	698	798	898	998	1098	1198	1298	1398	1498	1598	1698	1798	1898	1998	2098	2198	2298
KG		2.71	2.89	3.07	3.25	3.42	3.6	3.78	3.96	4.14	4.32	4.5	4.68	4.86	5.04	5.22	5.40	5.58	5.76
線速度 Linear Speed mm/s		900																	
導程 Lead 15																			

有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2398	2498	2598	2698	2798	2898	2998	3098	3198	3298	3398	3498	3598	3698	3798	3898	3998	
KG		5.94	6.12	6.3	6.48	6.66	6.84	7.02	7.2	7.38	7.56	7.74	7.92	8.1	8.27	8.46	8.64	8.82	
線速度 Linear Speed mm/s		900																	
導程 Lead 15																			

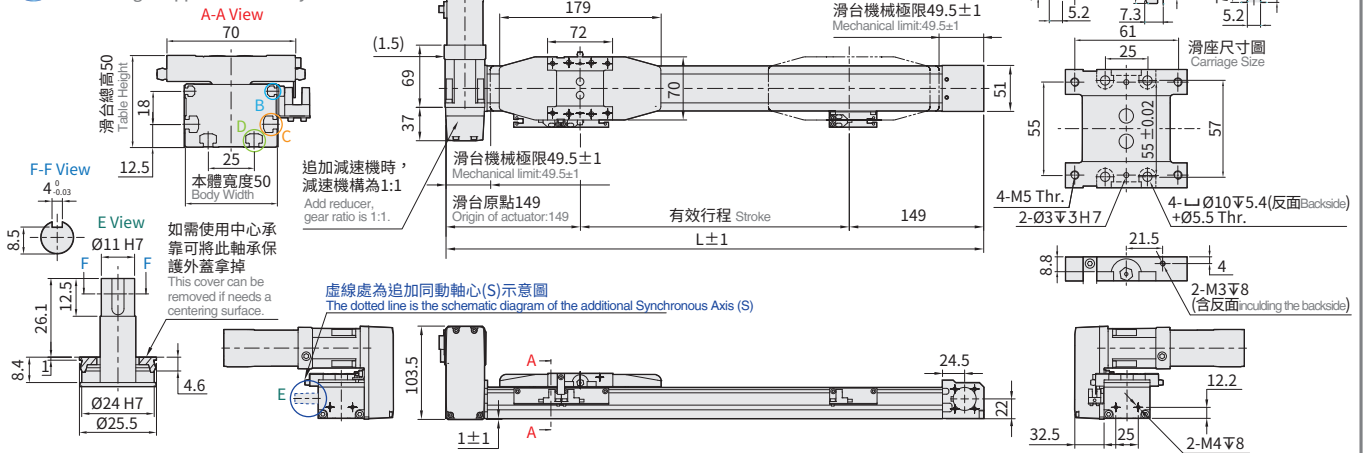
※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 +298；極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+298 and the stroke limit is +10 of the stroke range.

馬達右上折 Motor Right Upper Side



• CAD圖面可至www.toyorobot.com下載
Please download the CAD file from TOYO's website: www.toyorobot.com

馬達右上折 + 同動軸心 Motor Right Upper Side With Synchronous axis



有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		598	698	798	898	998	1098	1198	1298	1398	1498	1598	1698	1798	1898	1998	2098	2198	2298
KG		2.71	2.89	3.07	3.25	3.42	3.6	3.78	3.96	4.14	4.32	4.5	4.68	4.86	5.04	5.22	5.40	5.58	5.76
線速度 Linear Speed mm/s		900																	
導程 Lead 15		900																	

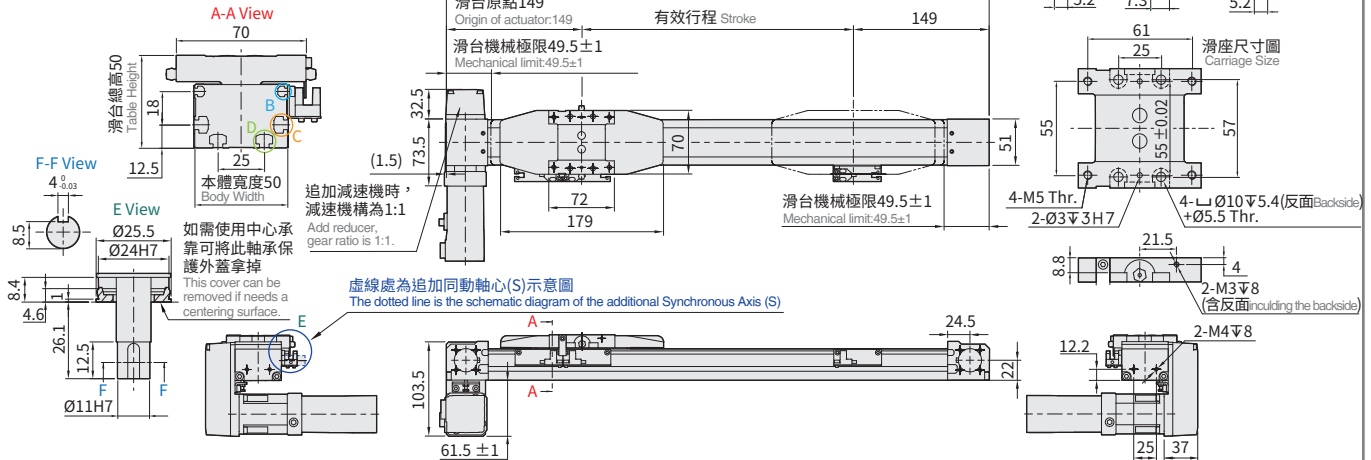
有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2398	2498	2598	2698	2798	2898	2998	3098	3198	3298	3398	3498	3598	3698	3798	3898	3998	
KG		5.94	6.12	6.3	6.48	6.66	6.84	7.02	7.2	7.38	7.56	7.74	7.92	8.1	8.27	8.46	8.64	8.82	
線速度 Linear Speed mm/s		900																	
導程 Lead 15		900																	

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 +298；極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+298 and the stroke limit is +10 of the stroke range.

04: 搭配四比減速機
4:1 ReducerLD 馬達左下折
Motor Left Lower Side

CAD圖面可至www.toyorobot.com下載

Please download the CAD file from TOYO's website: www.toyorobot.com

LDS 馬達左下折 + 同動軸心
Motor Left Lower Side With Synchronous axis

有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		598	698	798	898	998	1098	1198	1298	1398	1498	1598	1698	1798	1898	1998	2098	2198	2298
KG		2.71	2.89	3.07	3.25	3.42	3.6	3.78	3.96	4.14	4.32	4.5	4.68	4.86	5.04	5.22	5.40	5.58	5.76
線速度 Linear Speed mm/s		900																	
導程 Lead 15		900																	
有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2398	2498	2598	2698	2798	2898	2998	3098	3198	3298	3398	3498	3598	3698	3798	3898	3998	
KG		5.94	6.12	6.3	6.48	6.66	6.84	7.02	7.2	7.38	7.56	7.74	7.92	8.1	8.27	8.46	8.64	8.82	
線速度 Linear Speed mm/s		900																	
導程 Lead 15		900																	

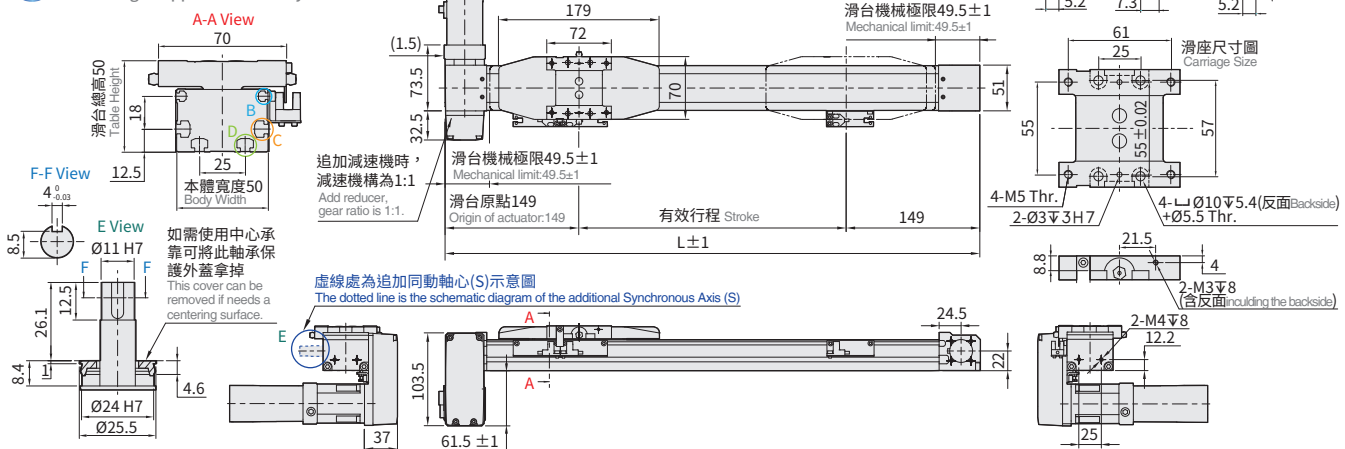
※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 + 298; 極限行程為有效行程 + 10。

Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke + 298 and the stroke limit is + 10 of the stroke range.

RD 馬達右下折
Motor Right Lower Side

CAD圖面可至www.toyorobot.com下載

Please download the CAD file from TOYO's website: www.toyorobot.com

RDS 馬達右上折 + 同動軸心
Motor Right Upper Side With Synchronous axis

有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		598	698	798	898	998	1098	1198	1298	1398	1498	1598	1698	1798	1898	1998	2098	2198	2298
KG		2.71	2.89	3.07	3.25	3.42	3.6	3.78	3.96	4.14	4.32	4.5	4.68	4.86	5.04	5.22	5.40	5.58	5.76
線速度 Linear Speed mm/s		導程 Lead 15																	
		900																	

有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L		2398	2498	2598	2698	2798	2898	2998	3098	3198	3298	3398	3498	3598	3698	3798	3898	3998
KG		5.94	6.12	6.3	6.48	6.66	6.84	7.02	7.2	7.38	7.56	7.74	7.92	8.1	8.27	8.46	8.64	8.82
線速度 Linear Speed mm/s		導程 Lead 15																
		900																

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 + 298; 極限行程為有效行程 + 10。

Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke + 298 and the stroke limit is + 10 of the stroke range.

04: 搭配四比減速機 4:1 Reducer

LT 馬達直結左折 Motor Left Side

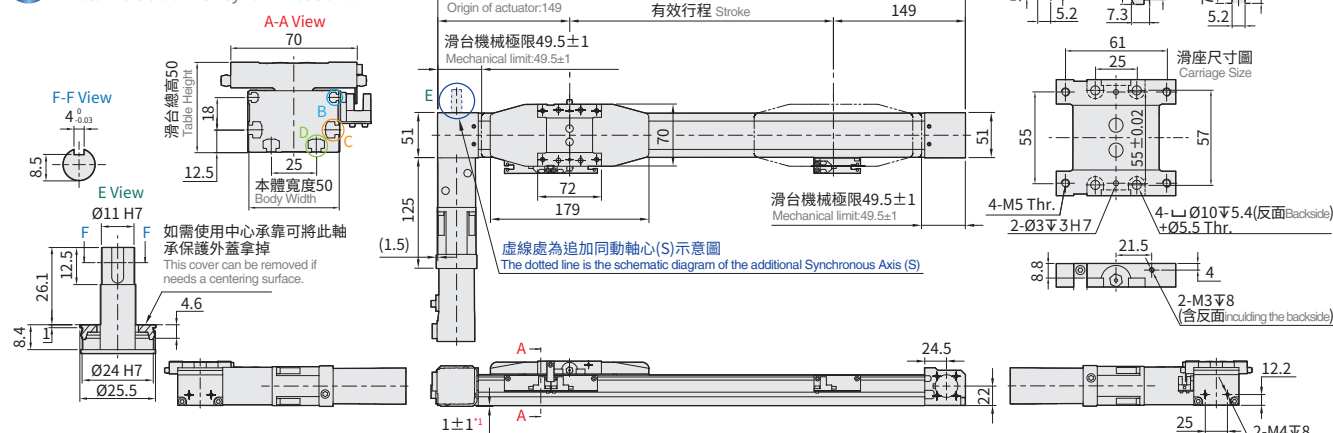


● CAD圖面可至 www.toyorobot.com 下載 ●

Please download the CAD file from TOYO's website: www.toyorobot.com

單位 Unit : mm

LTS 馬達直結左折 + 同動軸心 Motor Left Side With Synchronous axis



有效行程 Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	598	698	798	898	998	1098	1198	1298	1398	1498	1598	1698	1798	1898	1998	2098	2198	2298
KG	2.43	2.61	2.79	2.97	3.15	3.33	3.51	3.69	3.86	4.04	4.22	4.4	4.58	4.76	4.94	5.12	5.3	5.48
線速度 Linear Speed mm/s	900																	
導程 Lead 15	900																	

有效行程 Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
極限行程 Limit stroke(±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2398	2498	2598	2698	2798	2898	2998	3098	3198	3298	3398	3498	3598	3698	3798	3898	3998
KG	5.66	5.84	6.02	6.2	6.38	6.56	6.74	6.92	7.1	7.28	7.46	7.64	7.82	8	8.18	8.36	8.54
線速度 Linear Speed mm/s	900																
導程 Lead 15	900																

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 +298；極限行程為有效行程 +10。

Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+298 and the stroke limit is +10 of the stroke range.

*1 馬達安裝後會低於本體 1mm，由於各廠牌的馬達外框尺寸有異，建議底部需預留 3~5mm 空間，防止干涉產生。

*1 When motor is installed, it will be lower than the body by 1mm. Because the size of the motor frame of each brand is different, it's recommended to reserve 3~5mm more space at the bottom to prevent interference.

RT 馬達直結右折 Motor Right Side

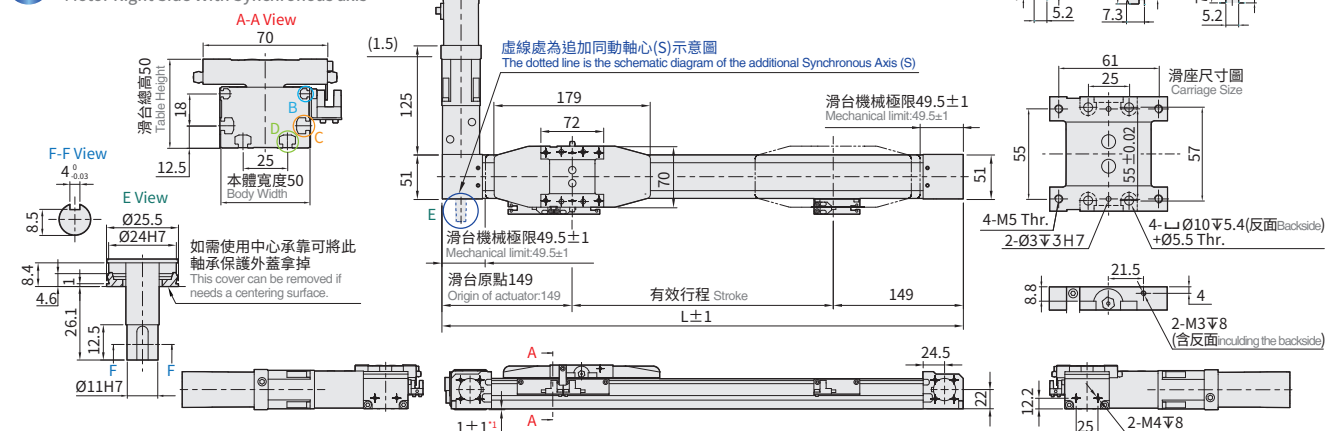


● CAD圖面可至 www.toyorobot.com 下載 ●

Please download the CAD file from TOYO's website: www.toyorobot.com

單位 Unit : mm

RTS 馬達直結右折 + 同動軸心 Motor Right Side With Synchronous axis



有效行程 Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	598	698	798	898	998	1098	1198	1298	1398	1498	1598	1698	1798	1898	1998	2098	2198	2298
KG	2.43	2.61	2.79	2.97	3.15	3.33	3.51	3.69	3.86	4.04	4.22	4.4	4.58	4.76	4.94	5.12	5.3	5.48
線速度 Linear Speed mm/s	900																	
導程 Lead 15	900																	

有效行程 Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
極限行程 Limit stroke(±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2398	2498	2598	2698	2798	2898	2998	3098	3198	3298	3398	3498	3598	3698	3798	3898	3998
KG	5.66	5.84	6.02	6.2	6.38	6.56	6.74	6.92	7.1	7.28	7.46	7.64	7.82	8	8.18	8.36	8.54
線速度 Linear Speed mm/s	900																
導程 Lead 15	900																

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 +298；極限行程為有效行程 +10。

Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+298 and the stroke limit is +10 of the stroke range.

*1 馬達安裝後會低於本體 1mm，由於各廠牌的馬達外框尺寸有異，建議底部需預留 3~5mm 空間，防止干涉產生。

*1 When motor is installed, it will be lower than the body by 1mm. Because the size of the motor frame of each brand is different, it's recommended to reserve 3~5mm more space at the bottom to prevent interference.

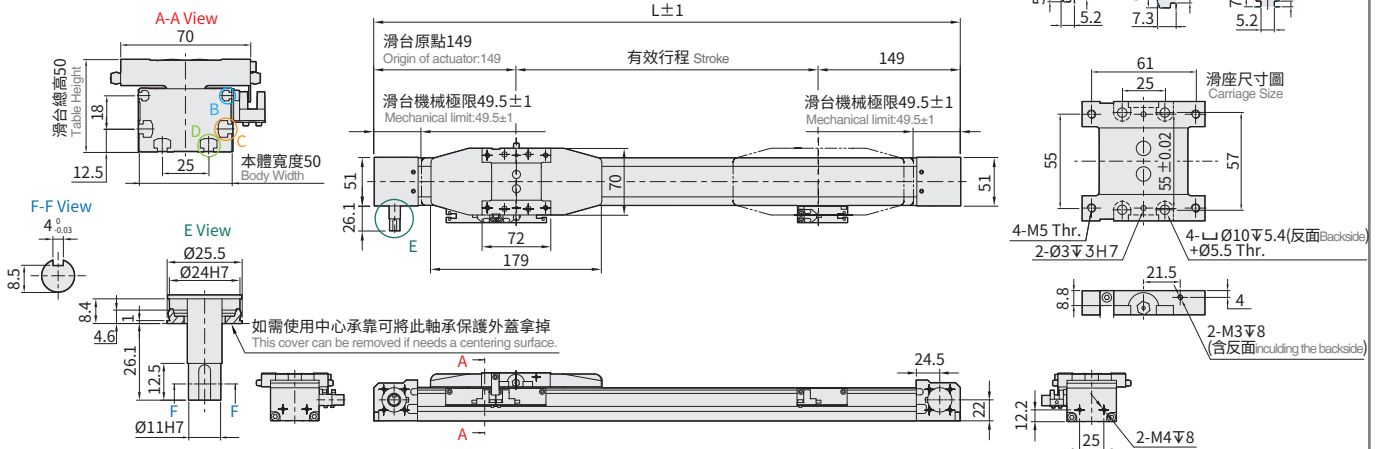
N: 無動力輔助軸 (無減速機 & 減速機構)

No support axis (Without Reducer & Gear Box)

LL 出軸心左折
Motor Shaft Left Side

CAD圖面可至 www.toyorobot.com 下載
Please download the CAD file from TOYO's website: www.toyorobot.com

單位 Unit : mm



有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		598	698	798	898	998	1098	1198	1298	1398	1498	1598	1698	1798	1898	1998	2098	2198	2298
KG		1.76	1.94	2.12	2.3	2.48	2.66	2.84	3.02	3.2	3.38	3.56	3.76	3.92	4.1	4.28	4.46	4.64	4.82
線速度 Linear Speed mm/s	導程 Lead	-																	

有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L		2398	2498	2598	2698	2798	2898	2998	3098	3198	3298	3398	3498	3598	3698	3798	3898	3998
KG		5	5.18	5.36	5.54	5.72	5.9	6.08	6.26	6.44	6.61	6.79	6.97	7.15	7.33	7.51	7.69	7.87
線速度 Linear Speed mm/s	導程 Lead	-																

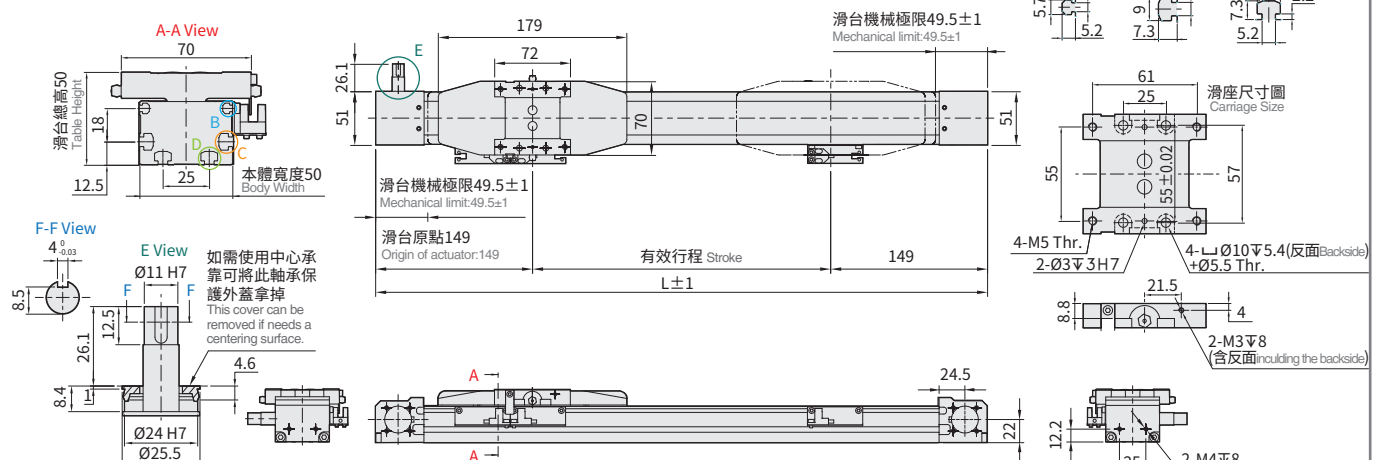
※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 + 298; 極限行程為有效行程 + 10。

Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke + 298 and the stroke limit is + 10 of the stroke range.

RR 出軸心右折
Motor Shaft Right Side

CAD圖面可至 www.toyorobot.com 下載
Please download the CAD file from TOYO's website: www.toyorobot.com

單位 Unit : mm



有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	
L		598	698	798	898	998	1098	1198	1298	1398	1498	1598	1698	1798	1898	1998	2098	2198	2298	
KG		1.76	1.94	2.12	2.3	2.48	2.66	2.84	3.02	3.2	3.38	3.56	3.76	3.92	4.1	4.28	4.46	4.64	4.82	
線速度 Linear Speed mm/s		導程 Lead																		
有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700		
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710		
L		2398	2498	2598	2698	2798	2898	2998	3098	3198	3298	3398	3498	3598	3698	3798	3898	3998		
KG		5	5.18	5.36	5.54	5.72	5.9	6.08	6.26	6.44	6.61	6.79	6.97	7.15	7.33	7.51	7.69	7.87		
線速度 Linear Speed mm/s		導程 Lead																		

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 + 298; 極限行程為有效行程 + 10。

Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke + 298 and the stroke limit is + 10 of the stroke range.

M Series

MG50

MG65

MG85

00: 馬達直接驅動 (無減速機 & 減速機構)

Motor direct drive(Without Reducer & Gear Box)

LT

馬達直結左折

Motor Left side



• CAD圖面可至www.toyorobot.com下載 •

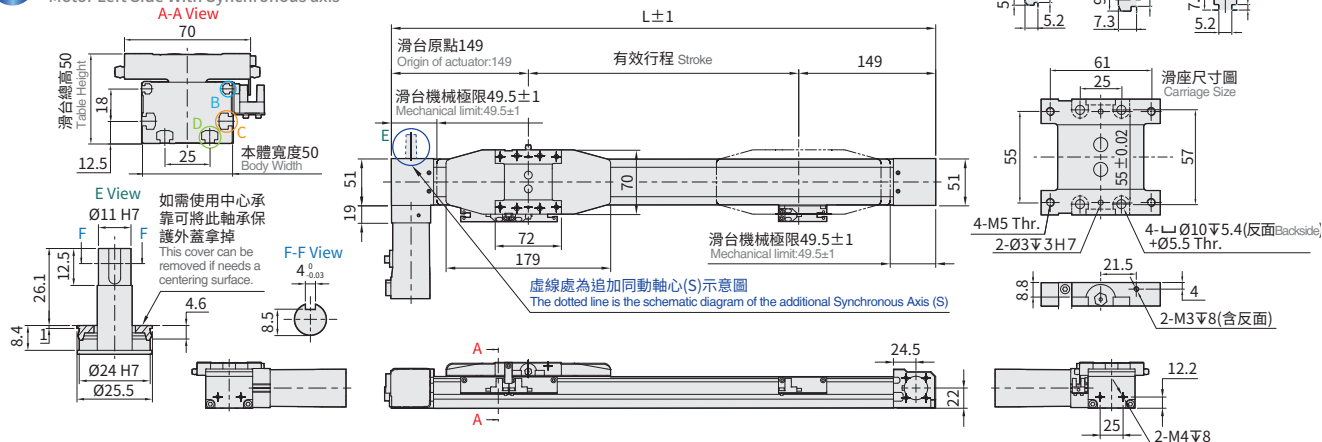
Please download the CAD file from TOYO's website: www.toyorobot.com

單位 Unit : mm

LTS

馬達直結左折 + 同動軸心

Motor Left Side With Synchronous axis



有效行程 Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	598	698	798	898	998	1098	1198	1298	1398	1498	1598	1698	1798	1898	1998	2098	2198	2298
KG	1.85	2.03	2.21	2.37	2.57	2.75	2.93	3.11	3.29	3.47	3.65	3.83	4.01	4.19	4.37	4.55	4.73	4.91
線速度 Linear Speed mm/s	3500																	
導程 Lead 60																		

有效行程 Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
極限行程 Limit stroke(±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2398	2498	2598	2698	2798	2898	2998	3098	3198	3298	3398	3498	3598	3698	3798	3898	3998
KG	5.09	5.27	5.45	5.63	5.81	5.99	6.16	6.34	6.52	6.7	6.88	7.06	7.24	7.42	7.6	7.78	7.96
線速度 Linear Speed mm/s	3500																
導程 Lead 60																	

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 +298；極限行程為有效行程 +10。

Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+298 and the stroke limit is +10 of the stroke range.

※ 馬達安裝後可能低於本體，由於各廠牌的馬達外框尺寸有異，建議底部需多預留 3~5mm 空間，防止干涉產生。

When motor is installed, it may be lower than the body. Because the size of the motor frame of each brand is different, it's recommended to reserve 3~5mm more space at the bottom to prevent interference.

RT

馬達直結右折

Motor Right side



• CAD圖面可至www.toyorobot.com下載 •

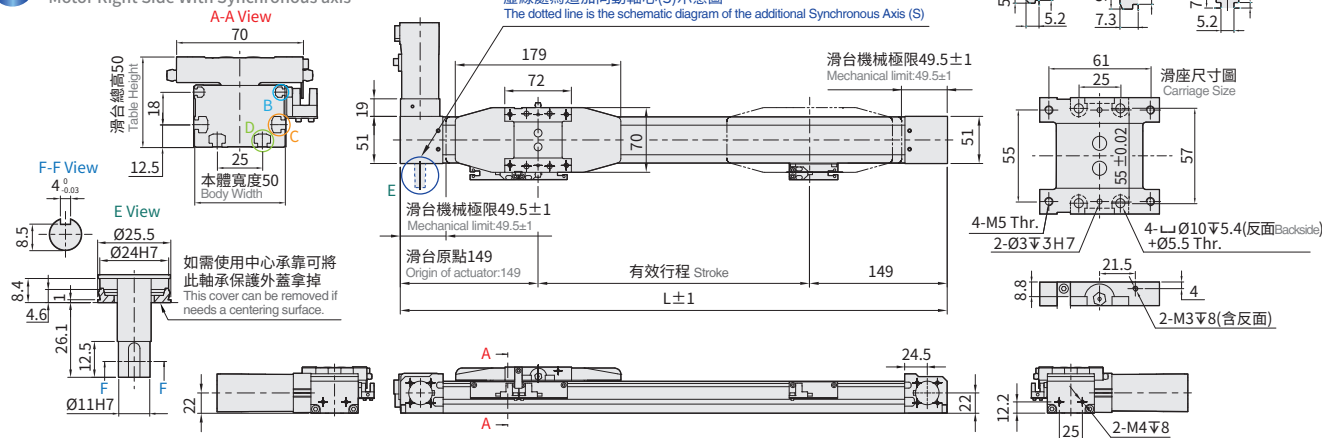
Please download the CAD file from TOYO's website: www.toyorobot.com

單位 Unit : mm

RTS

馬達直結右折 + 同動軸心

Motor Right Side With Synchronous axis



有效行程 Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	598	698	798	898	998	1098	1198	1298	1398	1498	1598	1698	1798	1898	1998	2098	2198	2298
KG	1.85	2.03	2.21	2.37	2.57	2.75	2.93	3.11	3.29	3.47	3.65	3.83	4.01	4.19	4.37	4.55	4.73	4.91
線速度 Linear Speed mm/s	3500																	
導程 Lead 60																		

有效行程 Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
極限行程 Limit stroke(±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2398	2498	2598	2698	2798	2898	2998	3098	3198	3298	3398	3498	3598	3698	3798	3898	3998
KG	5.09	5.27	5.45	5.63	5.81	5.99	6.16	6.34	6.52	6.7	6.88	7.06	7.24	7.42	7.6	7.78	7.96
線速度 Linear Speed mm/s	3500																
導程 Lead 60																	

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 +298；極限行程為有效行程 +10。

Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+298 and the stroke limit is +10 of the stroke range.

※ 馬達安裝後可能低於本體，由於各廠牌的馬達外框尺寸有異，建議底部需多預留 3~5mm 空間，防止干涉產生。

When motor is installed, it may be lower than the body. Because the size of the motor frame of each brand is different, it's recommended to reserve 3~5mm more space at the bottom to prevent interference.



免費服務專線：大陸 400-875-0009 台灣 0800-800-893
Toll-Free Number China Taiwan

Memo

應用例
Application

一般 / 螺桿仕樣
GTH / GTV / ETH / Y

一般 / 皮帶仕樣
M

無塵 / 螺桿仕樣
GCH / ECH

無塵 / 皮帶仕樣
ECB

直交連結
XYGT / XYTH / XYTB

參考資料
Reference

M Series

MG50

MG65

MG85



Please consult our company website for a detailed description on selection requirements and nominal life calculations.

Ordering Method

MG65 - 2000 - L - M40B - C4 - 02 - A001

Model

Stroke

300-3700mm
50 mm Increments

Special Order No.

Motor Position

L	Motor Left Side
LU	Motor Left Upper Side
LD	Motor Left Lower Side
LT	Reducer With Motor Left Side
LL	Motor Shaft Left Side
R	Motor Right Side
RU	Motor Right Upper Side
RD	Motor Right Lower Side
RT	Reducer With Motor Right Side
RR	Motor Shaft Right Side

Dimensions

M	Mitsubishi	10	-	B ¹
P	Panasonic	20	-	
Y	Yaskawa	40	400W	
T	Delta	75	-	

¹2 Depending on the drive mode, the corresponding motor position is limited.

¹If No Brake, No Description.

Home Sensor

Out Side	
C	Motor Side
D	Opposite Motor Side
No Sensor	
E	No Sensor

Limit Sensor

Out Side	
3	1Pc
4	2Pc
No Sensor	
5	No Sensor

Gearbox Ratio²

02	With 2:1 Gear ratio Suit for L/LU/LD/R/RU/RD
03	With 3:1 Reducer Suit for L/LU/LD/LT/R/RU/RD/RT
N	None powered support axis Suit for LL/RR
00	Motor direct drive, without reducer (Gear box) Suit for LT/RT

Specification

Item	Belt	Reduce Model code			02	03	00
		Drive Deceleration			Gear Box	Reducer	Motor directdrive
		Reduce Ratio			2:1	3:1	1:1
		Maximum Rotating speed ^{※1}		rpm	3600	3600	2333
		Maximum linear speed ^{※2}		mm/s	2700	1800	3500
		Load factor			1.75	1.35	1.75
		Tis (Nominal Tension)		N	98		
		Timax (Maximum Tension)		N	195		
	Linear Guide	Dynamic horizontal	100 Km of travel	N	12971		
			1000 Km of travel	N	6020		
			10000 Km of travel	N	2795		
		Static horizontal		N	31272		
	Fixed bearing	Basic dynamic load rating Cr		N	6500		
		Static load rating Cor		N	12000		
	Common Spec	Repeatability		mm	±0.04		±0.06
		Allowable input torque		N.m	9	13.5	4.5
		Maximum acceleration		m/s ²	5		
		Friction coefficient			0.03		
		Stroke (increments)		mm	300-3700mm (50 increments)		
		Ambient temperature		°C	0~+40		

※1 Acceleration and deceleration value is set 0.4 second.

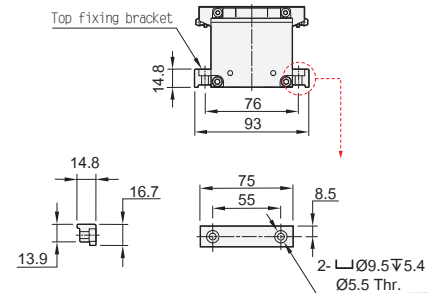
※2 The lead is 90 when the reducer is not installed on the actuator.

Numbers of Fixing Screws

M5 nuts Qty.(by stroke)					
Stroke	Quantity	Stroke	Quantity	Stroke	Quantity
300~450	8	1500~1650	20	2700~2850	32
500~650	10	1700~1850	22	2900~3050	34
700~850	12	1900~2050	24	3100~3250	36
900~1050	14	2100~2250	26	3300~3450	38
1100~1250	16	2300~2450	28	3500~3650	70
1300~1450	18	2500~2650	30	3700	42

*Standard mounting method is fix from the bottom, using the M5 bolt and nut.

Installation Reference



※Top fixing plate is optional.

Static Loading Moment

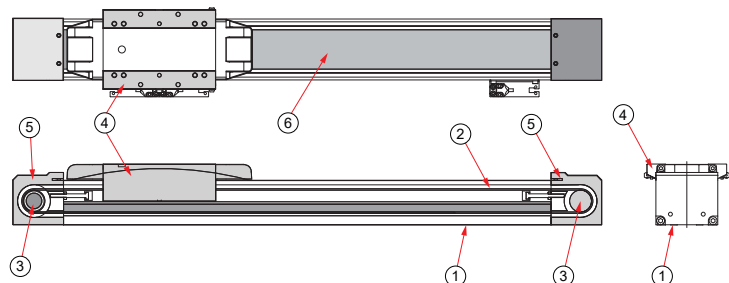
M _{0Y}	N.m	540
M _{0P}	N.m	540
M _{0R}	N.m	599

Dynamic Loading Moment

The diagram shows a 3D perspective of a rectangular beam. Three points are marked on the top surface with black dots. At each dot, a green curved arrow indicates a moment. The moment at the left end is labeled 'MY', the moment at the right end is labeled 'MP', and the moment at the center is labeled 'MR'. The beam is shown in a perspective view, with the front face and the top surface visible.

Travel	km	100	1000	10000
MY	N.m	116	53.9	25
MP	N.m	116	53.9	25
MR	N.m	128.6	59.7	27.7

Parts list



No.	Part Description	Material
1	Base Extrusion	AL6463
2	Belt	PU
3	Timing pulley	S45C
4	Carriage	AL6463
5	Input pulley support block	AL6061
6	Steel Band	SUS430

M Series

MH65

MH80

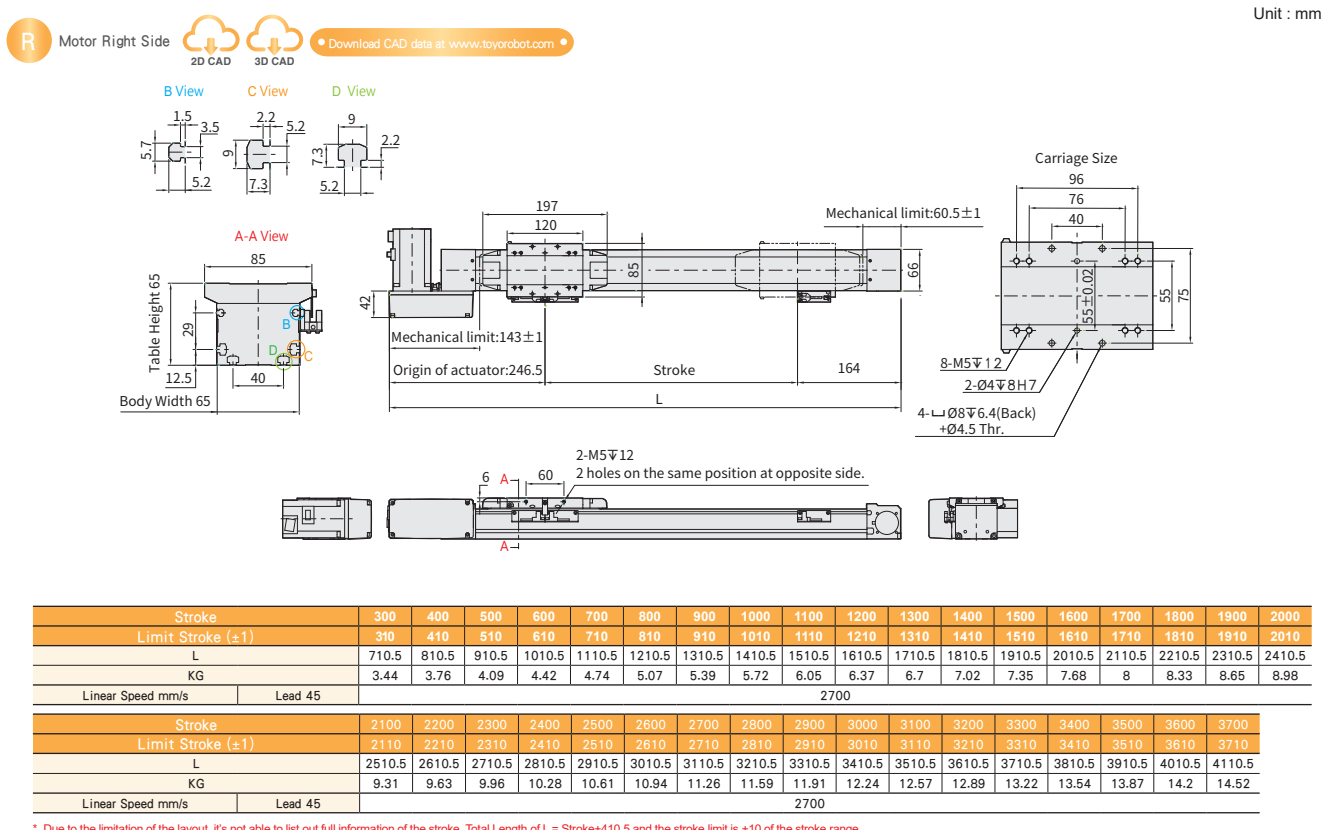
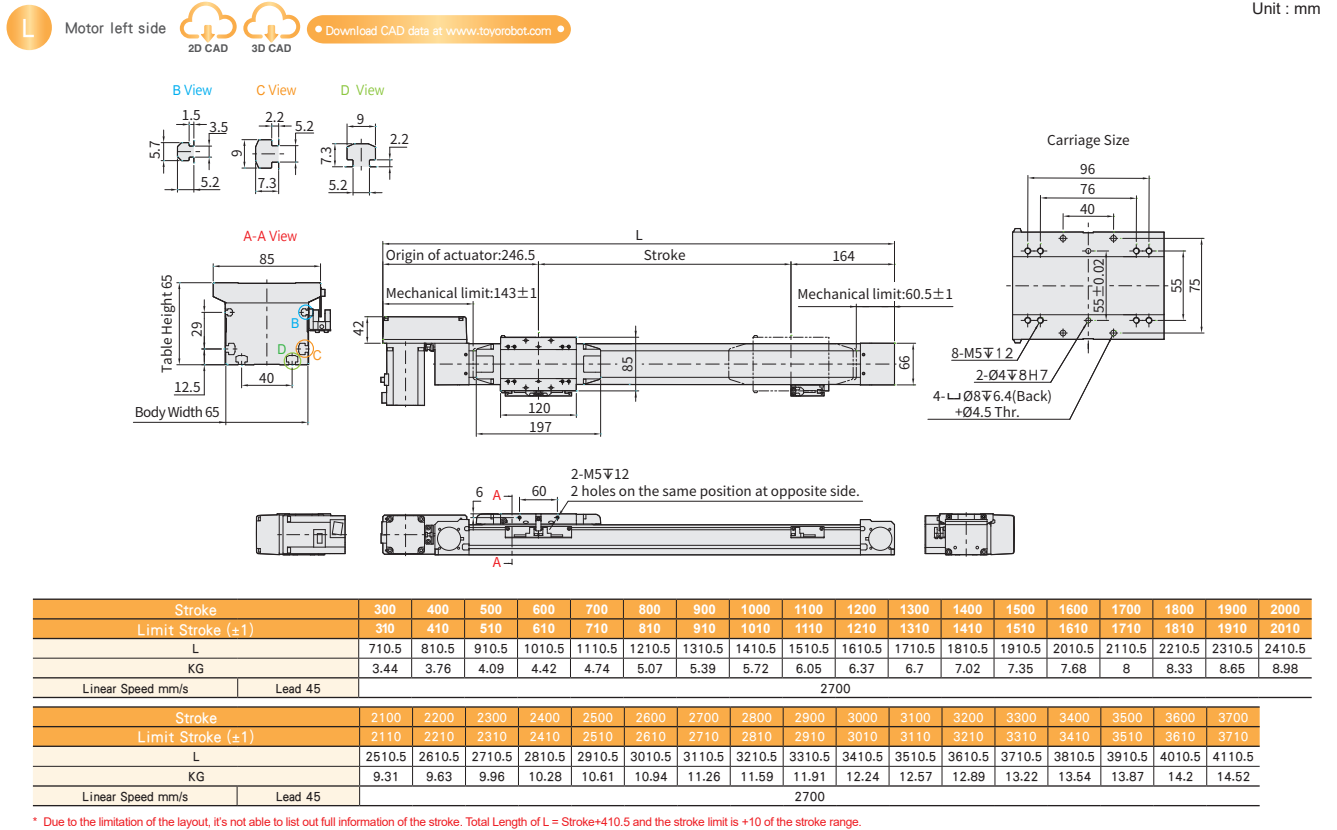
MK65

MK85

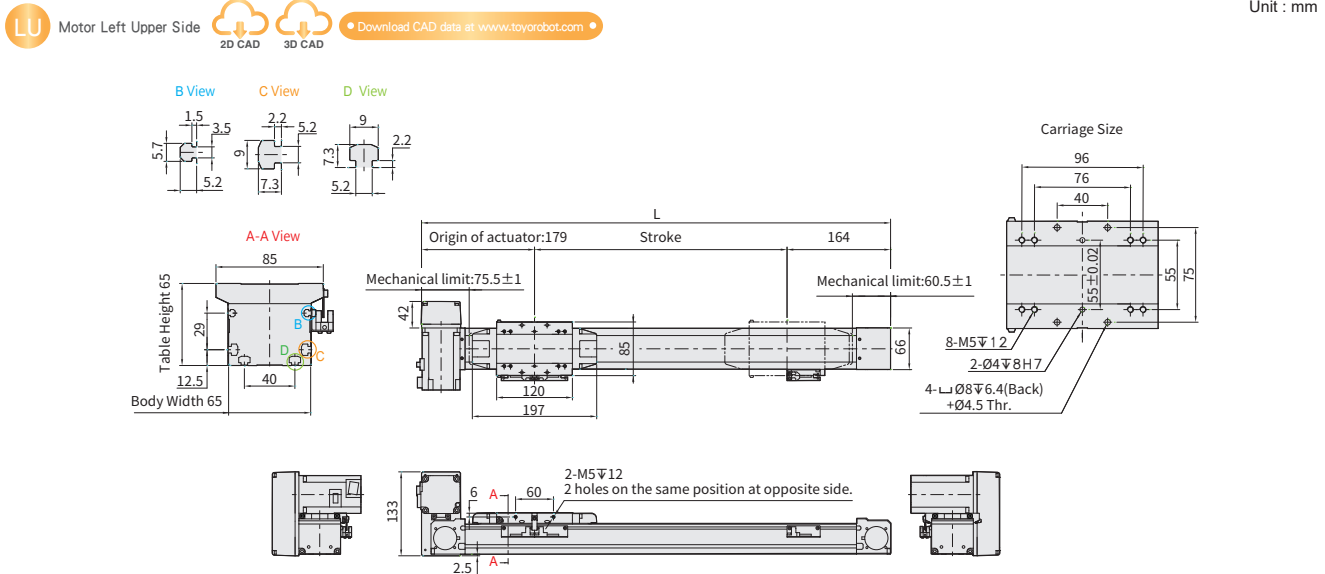
MK110

MG65

2:1 Gear ratio



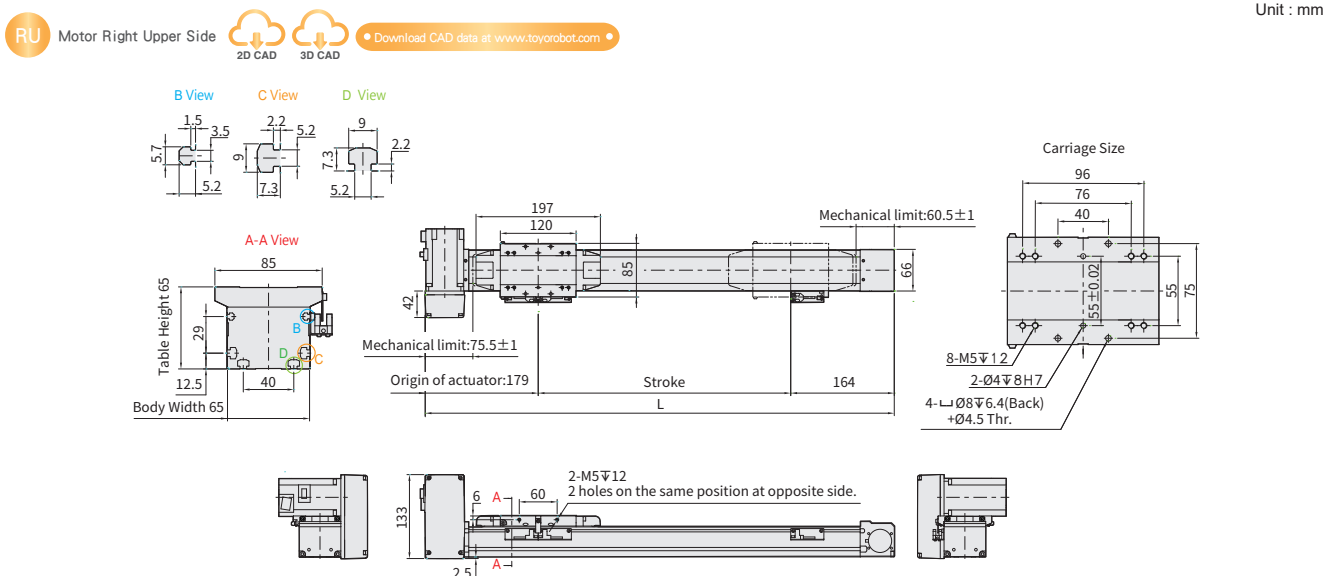
2:1 Gear ratio



Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
Limit Stroke (±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		643	743	843	943	1043	1143	1243	1343	1443	1543	1643	1743	1843	1943	2043	2143	2243	2343
KG		3.44	3.76	4.09	4.42	4.74	5.07	5.39	5.72	6.05	6.37	6.7	7.02	7.35	7.68	8	8.33	8.65	8.98
Linear Speed mm/s	Lead 45	2700																	

Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
Limit Stroke (±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L		2443	2543	2643	2743	2843	2943	3043	3143	3243	3343	3443	3543	3643	3743	3843	3943	4043
KG		9.31	9.63	9.96	10.28	10.61	10.94	11.26	11.59	11.91	12.24	12.57	12.89	13.22	13.54	13.87	14.2	14.52
Linear Speed mm/s	Lead 45	2700																

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+343 and the stroke limit is +10 of the stroke range.



Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	
Limit Stroke (±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	
L	643	743	843	943	1043	1143	1243	1343	1443	1543	1643	1743	1843	1943	2043	2143	2243	2343	
KG	3.44	3.76	4.09	4.42	4.74	5.07	5.39	5.72	6.05	6.37	6.7	7.02	7.35	7.68	8	8.33	8.65	8.98	
Linear Speed mm/s	Lead 45		2700																
Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700		
Limit Stroke (±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710		
L	2443	2543	2643	2743	2843	2943	3043	3143	3243	3343	3443	3543	3643	3743	3843	3943	4043		
KG	9.31	9.63	9.96	10.28	10.61	10.94	11.26	11.59	11.91	12.24	12.57	12.89	13.22	13.54	13.87	14.2	14.52		
Linear Speed mm/s	Lead 45		2700																

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+343 and the stroke limit is +10 of the stroke range.

M Series

MH65

MH80

MK65

MK85

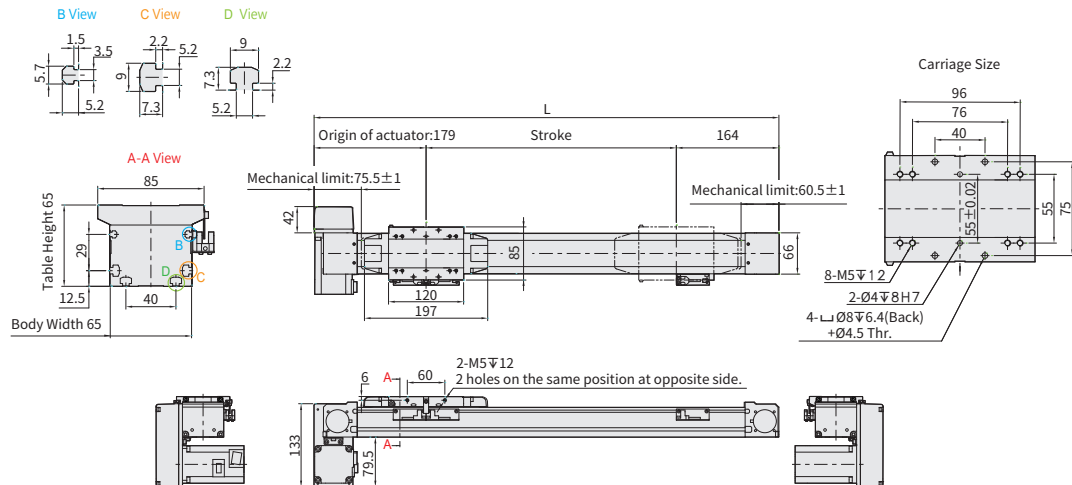
MK110

MG65

2:1 Gear ratio

LD Motor Left Lower Side   [Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm



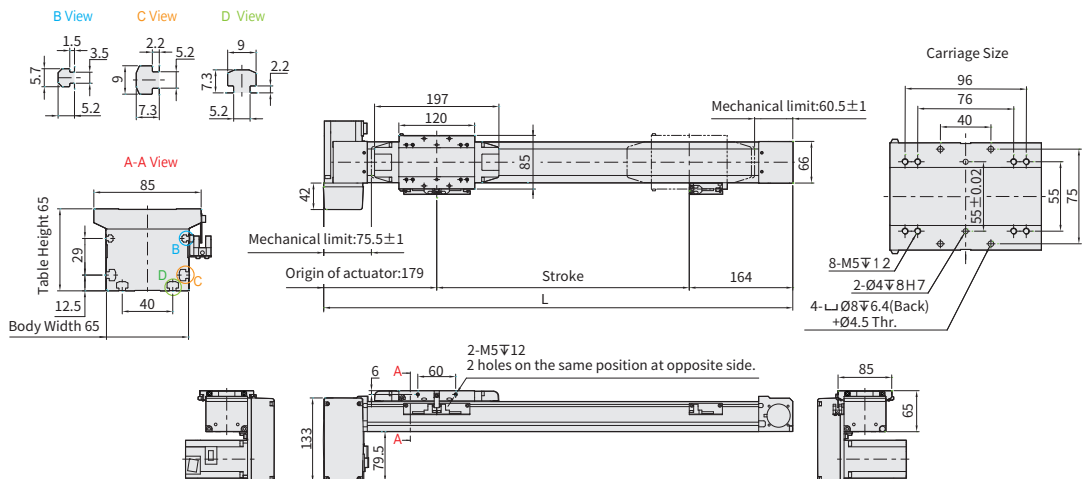
Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
Limit Stroke (±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	643	743	843	943	1043	1143	1243	1343	1443	1543	1643	1743	1843	1943	2043	2143	2243	2343
KG	3.44	3.76	4.09	4.42	4.74	5.07	5.39	5.72	6.05	6.37	6.7	7.02	7.35	7.68	8	8.33	8.65	8.98
Linear Speed mm/s	2700																	
Lead 45																		

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
Limit Stroke (±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2443	2543	2643	2743	2843	2943	3043	3143	3243	3343	3443	3543	3643	3743	3843	3943	4043
KG	9.31	9.63	9.96	10.28	10.61	10.94	11.26	11.59	11.91	12.24	12.57	12.89	13.22	13.54	13.87	14.20	14.52
Linear Speed mm/s	2700																
Lead 45																	

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+343 and the stroke limit is +10 of the stroke range.

RD Motor Right Lower Side   [Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm

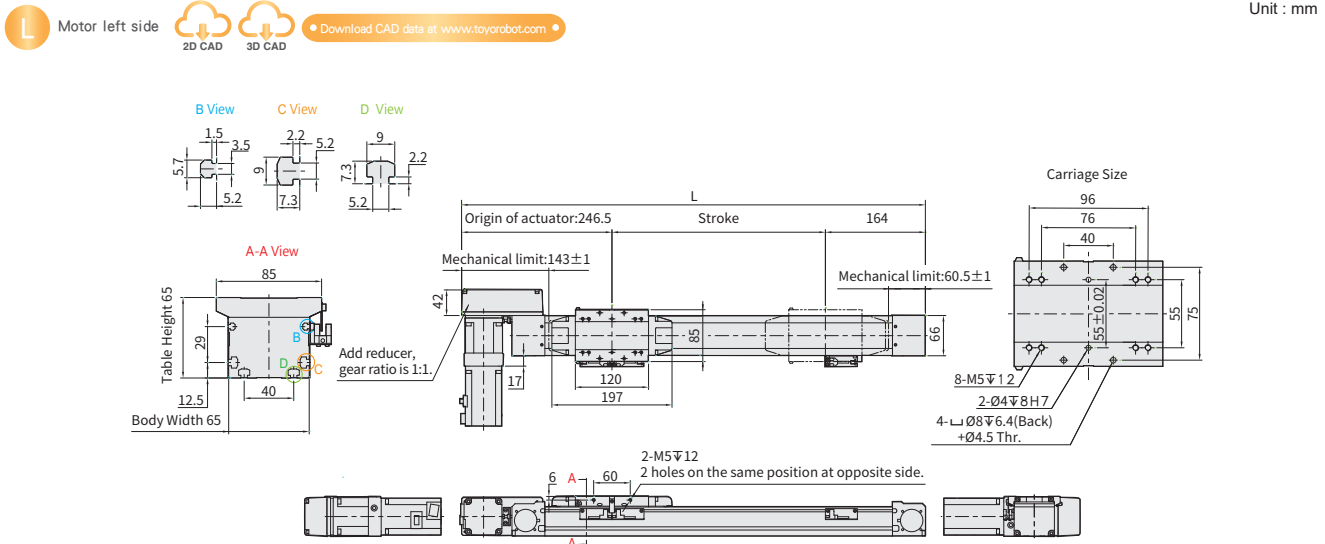


Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
Limit Stroke (±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	643	743	843	943	1043	1143	1243	1343	1443	1543	1643	1743	1843	1943	2043	2143	2243	2343
KG	3.44	3.76	4.09	4.42	4.74	5.07	5.39	5.72	6.05	6.37	6.7	7.02	7.35	7.68	8	8.33	8.65	8.98
Linear Speed mm/s	2700																	
Lead 45																		

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
Limit Stroke (±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2443	2543	2643	2743	2843	2943	3043	3143	3243	3343	3443	3543	3643	3743	3843	3943	4043
KG	9.31	9.63	9.96	10.28	10.61	10.94	11.26	11.59	11.91	12.24	12.57	12.89	13.22	13.54	13.87	14.20	14.52
Linear Speed mm/s	2700																
Lead 45																	

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+343 and the stroke limit is +10 of the stroke range.

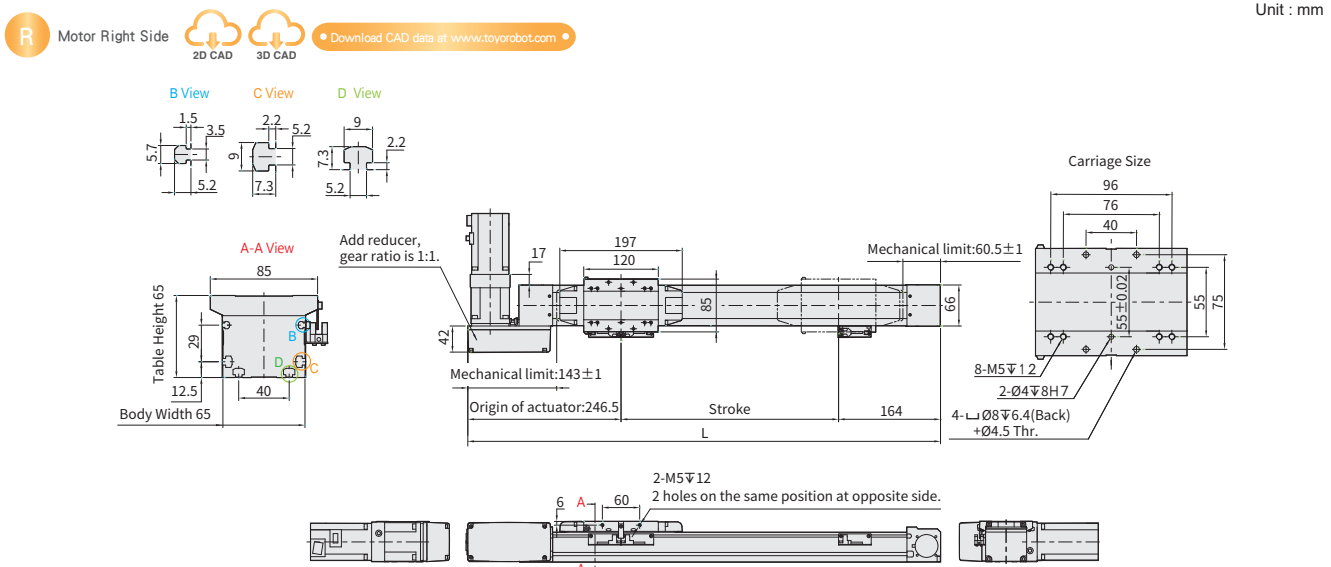
3:1 Reducer



Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
Limit Stroke (± 1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	710.5	810.5	910.5	1010.5	1110.5	1210.5	1310.5	1410.5	1510.5	1610.5	1710.5	1810.5	1910.5	2010.5	2110.5	2210.5	2310.5	2410.5
KG	5.24	5.56	5.89	6.22	6.54	6.87	7.19	7.52	7.85	8.17	8.5	8.82	9.15	9.48	9.8	10.13	10.45	10.78
Linear Speed mm/s	1800																	
Lead	30																	

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
Limit Stroke (± 1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2510.5	2610.5	2710.5	2810.5	2910.5	3010.5	3110.5	3210.5	3310.5	3410.5	3510.5	3610.5	3710.5	3810.5	3910.5	4010.5	4110.5
KG	11.11	11.43	11.76	12.08	12.41	12.74	13.06	13.39	13.71	14.04	14.37	14.69	15.02	15.34	15.67	16	16.32
Linear Speed mm/s	1800																
Lead	30																

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+410.5 and the stroke limit is +10 of the stroke range.



Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
Limit Stroke (± 1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	710.5	810.5	910.5	1010.5	1110.5	1210.5	1310.5	1410.5	1510.5	1610.5	1710.5	1810.5	1910.5	2010.5	2110.5	2210.5	2310.5	2410.5
KG	5.24	5.56	5.89	6.22	6.54	6.87	7.19	7.52	7.85	8.17	8.5	8.82	9.15	9.48	9.8	10.13	10.45	10.78
Linear Speed mm/s	1800																	
Lead	30																	

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
Limit Stroke (± 1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2510.5	2610.5	2710.5	2810.5	2910.5	3010.5	3110.5	3210.5	3310.5	3410.5	3510.5	3610.5	3710.5	3810.5	3910.5	4010.5	4110.5
KG	11.11	11.43	11.76	12.08	12.41	12.74	13.06	13.39	13.71	14.04	14.37	14.69	15.02	15.34	15.67	16	16.32
Linear Speed mm/s	1800																
Lead	30																

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+410.5 and the stroke limit is +10 of the stroke range.

M Series

MH65

MH80

MK65

MK85

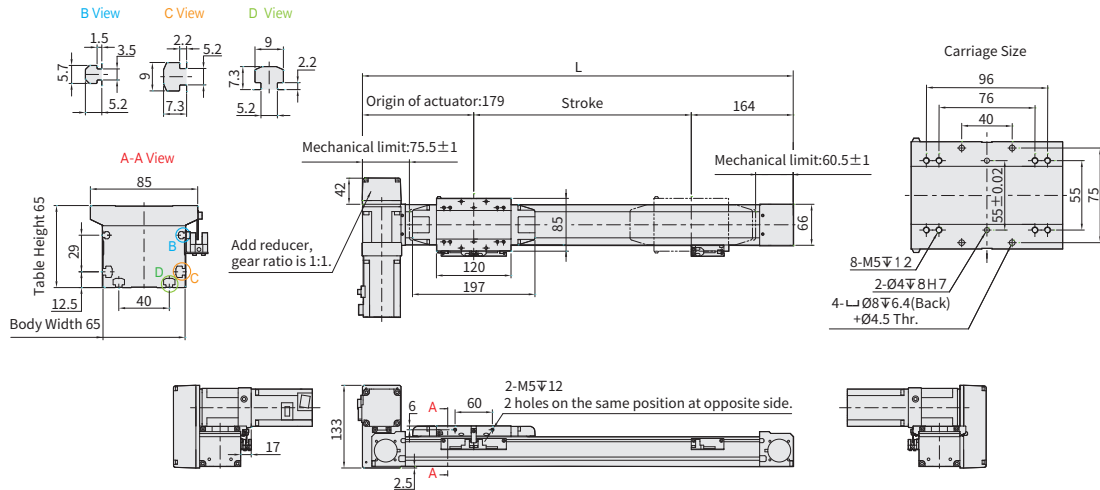
MK110

MG65

3:1 Reducer

LU Motor Left Upper Side   [Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm



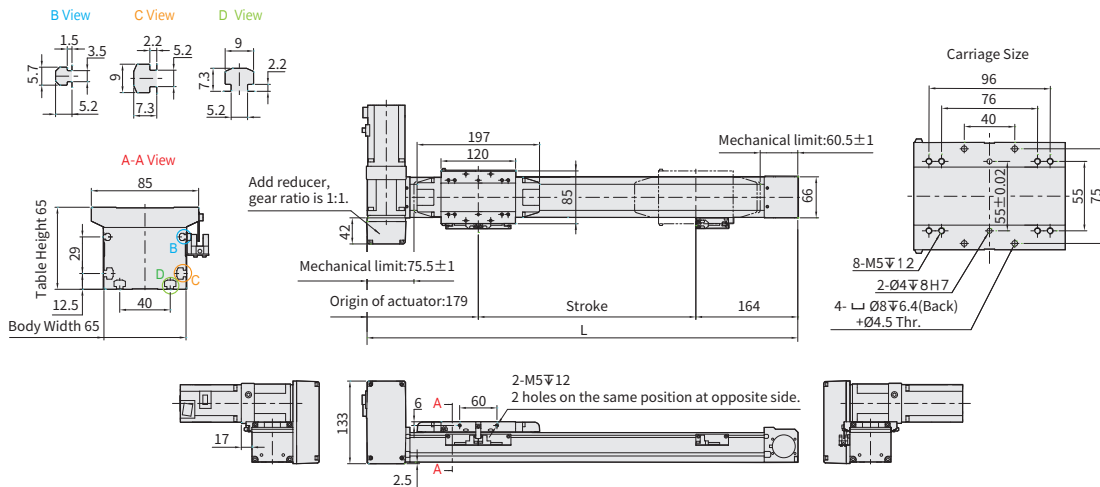
Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
Limit Stroke (±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	643	743	843	943	1043	1143	1243	1343	1443	1543	1643	1743	1843	1943	2043	2143	2243	2343
KG	5.24	5.56	5.89	6.22	6.54	6.87	7.19	7.52	7.85	8.17	8.5	8.82	9.15	9.48	9.8	10.13	10.45	10.78
Linear Speed mm/s	1800																	
Lead 30																		

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
Limit Stroke (±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2443	2543	2643	2743	2843	2943	3043	3143	3243	3343	3443	3543	3643	3743	3843	3943	4043
KG	11.11	11.43	11.76	12.08	12.41	12.74	13.06	13.39	13.71	14.04	14.37	14.69	15.02	15.34	15.67	16	16.32
Linear Speed mm/s	1800																
Lead 30																	

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+343 and the stroke limit is +10 of the stroke range.

RU Motor Right Upper Side   [Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm

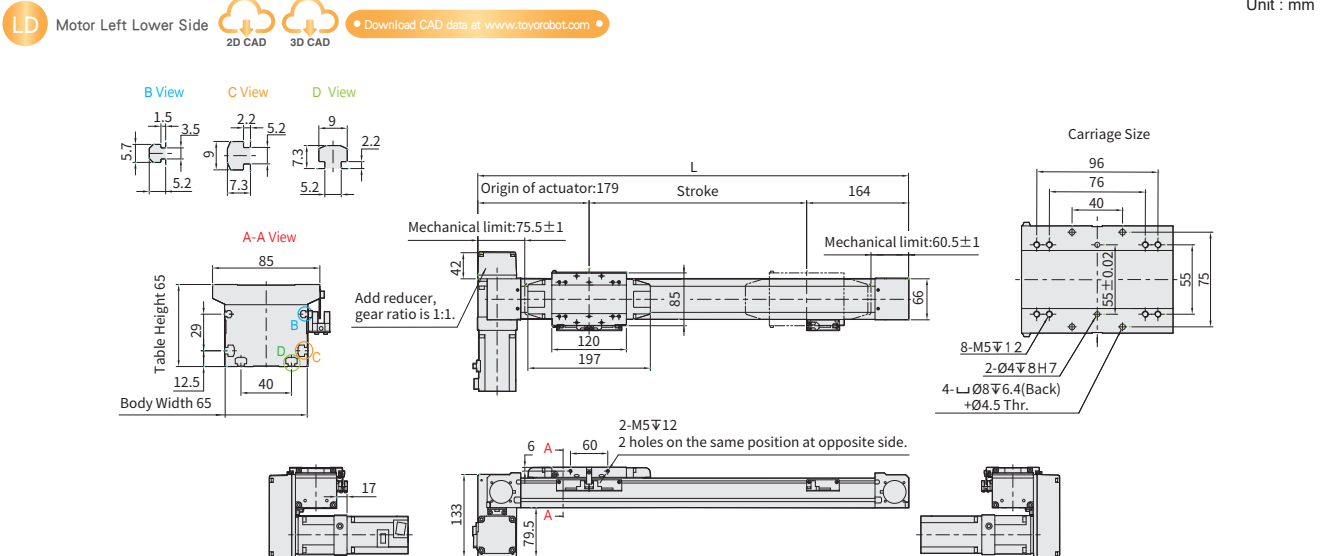


Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
Limit Stroke (±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	643	743	843	943	1043	1143	1243	1343	1443	1543	1643	1743	1843	1943	2043	2143	2243	2343
KG	5.24	5.56	5.89	6.22	6.54	6.87	7.19	7.52	7.85	8.17	8.5	8.82	9.15	9.48	9.8	10.13	10.45	10.78
Linear Speed mm/s	1800																	
Lead 30																		

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
Limit Stroke (±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2443	2543	2643	2743	2843	2943	3043	3143	3243	3343	3443	3543	3643	3743	3843	3943	4043
KG	11.11	11.43	11.76	12.08	12.41	12.74	13.06	13.39	13.71	14.04	14.37	14.69	15.02	15.34	15.67	16	16.32
Linear Speed mm/s	1800																
Lead 30																	

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+343 and the stroke limit is +10 of the stroke range.

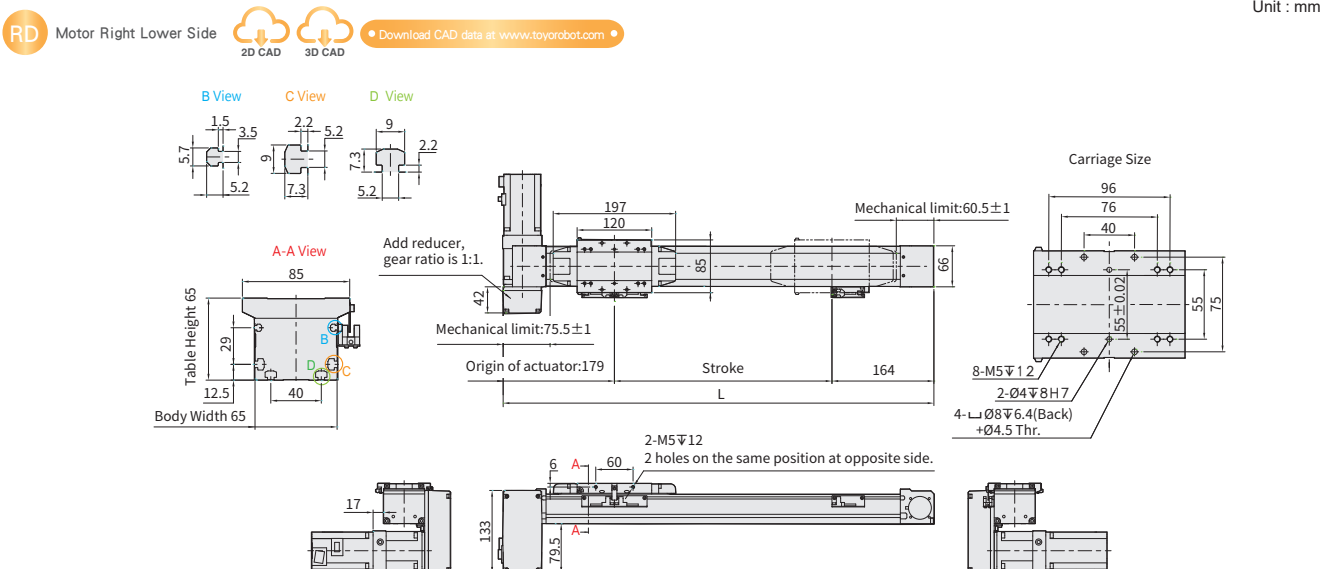
3:1 Reducer



Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
Limit Stroke (±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		643	743	843	943	1043	1143	1243	1343	1443	1543	1643	1743	1843	1943	2043	2143	2243	2343
KG		5.24	5.56	5.89	6.22	6.54	6.87	7.19	7.52	7.85	8.17	8.5	8.82	9.15	9.48	9.8	10.13	10.45	10.78
Linear Speed mm/s	Lead 30	1800																	

Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
Limit Stroke (±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2443	2543	2643	2743	2843	2943	3043	3143	3243	3343	3443	3543	3643	3743	3843	3943	4043	
KG		11.11	11.43	11.76	12.08	12.41	12.74	13.06	13.39	13.71	14.04	14.37	14.69	15.02	15.34	15.67	16	16.32	
Linear Speed mm/s	Lead 30	1800																	

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+343 and the stroke limit is +10 of the stroke range.



Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
Limit Stroke (±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		643	743	843	943	1043	1143	1243	1343	1443	1543	1643	1743	1843	1943	2043	2143	2243	2343
KG		5.24	5.56	5.89	6.22	6.54	6.87	7.19	7.52	7.85	8.17	8.5	8.82	9.15	9.48	9.8	10.13	10.45	10.78
Linear Speed mm/s	Lead 30	1800																	

Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
Limit Stroke (±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2443	2543	2643	2743	2843	2943	3043	3143	3243	3343	3443	3543	3643	3743	3843	3943	4043	
KG		11.11	11.43	11.76	12.08	12.41	12.74	13.06	13.39	13.71	14.04	14.37	14.69	15.02	15.34	15.67	16	16.32	
Linear Speed mm/s	Lead 30	1800																	

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+343 and the stroke limit is +10 of the stroke range.

M Series

MH65

MH80

MK65

MK85

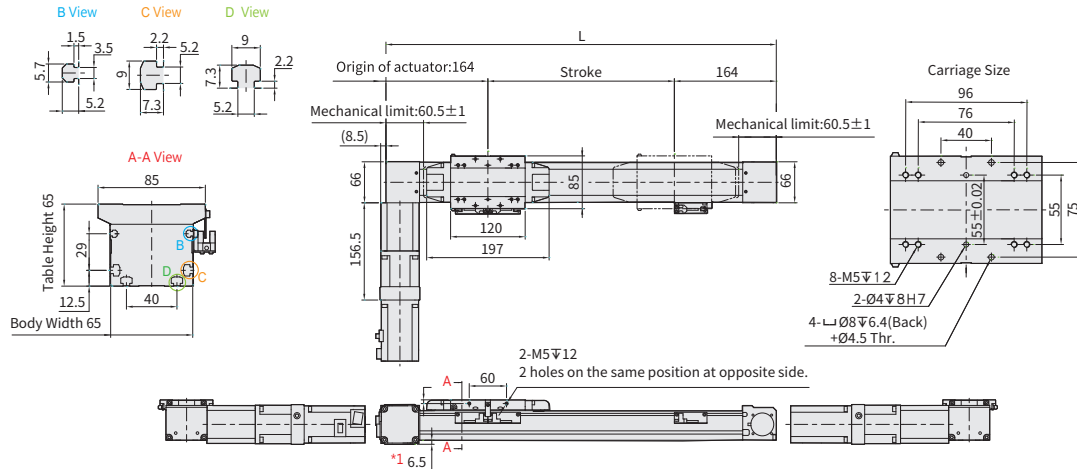
MK110

MG65

3:1 Reducer

LT Reducer With Motor Left Side   [Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm



Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
Limit Stroke (±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		628	728	828	928	1028	1128	1228	1328	1428	1528	1628	1728	1828	1928	2028	2128	2228	2328
KG		4.84	5.16	5.49	5.82	6.14	6.47	6.79	7.12	7.45	7.77	8.1	8.42	8.75	9.08	9.4	9.73	10.05	10.38
Linear Speed mm/s	Lead 30	1800																	

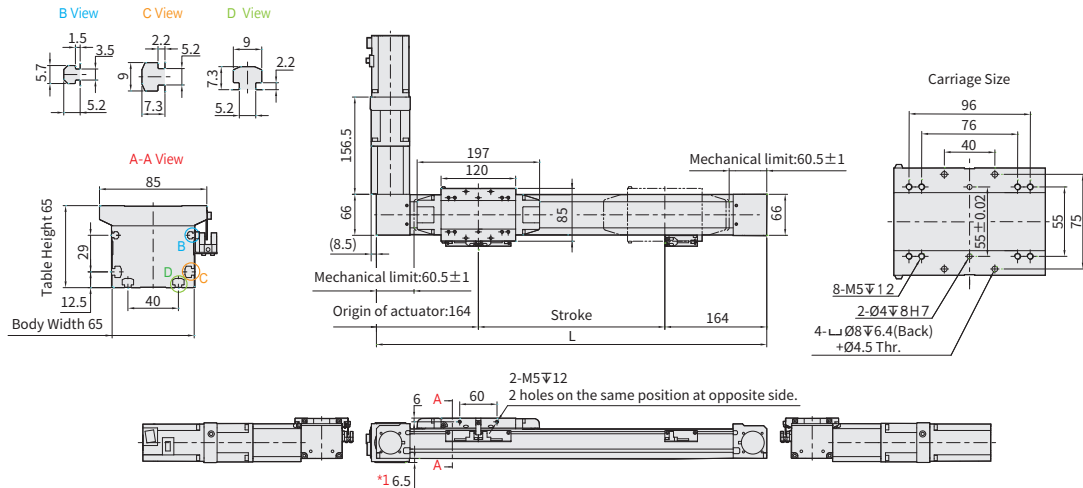
Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
Limit Stroke (±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2428	2528	2628	2728	2828	2928	3028	3128	3228	3328	3428	3528	3628	3728	3828	3928	4028	
KG		10.71	11.03	11.36	11.68	12.01	12.34	12.66	12.99	13.31	13.64	13.97	14.29	14.62	14.94	15.27	15.60	15.92	
Linear Speed mm/s	Lead 30	1800																	

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+328 and the stroke limit is +10 of the stroke range.

* 1 When motor is installed, it will be lower than the body by 6.5mm. Because the size of the motor frame of each brand is different, it's recommended to reserve 3-5mm more space at the bottom to prevent interference.

RT Reducer With Motor Right Side   [Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm



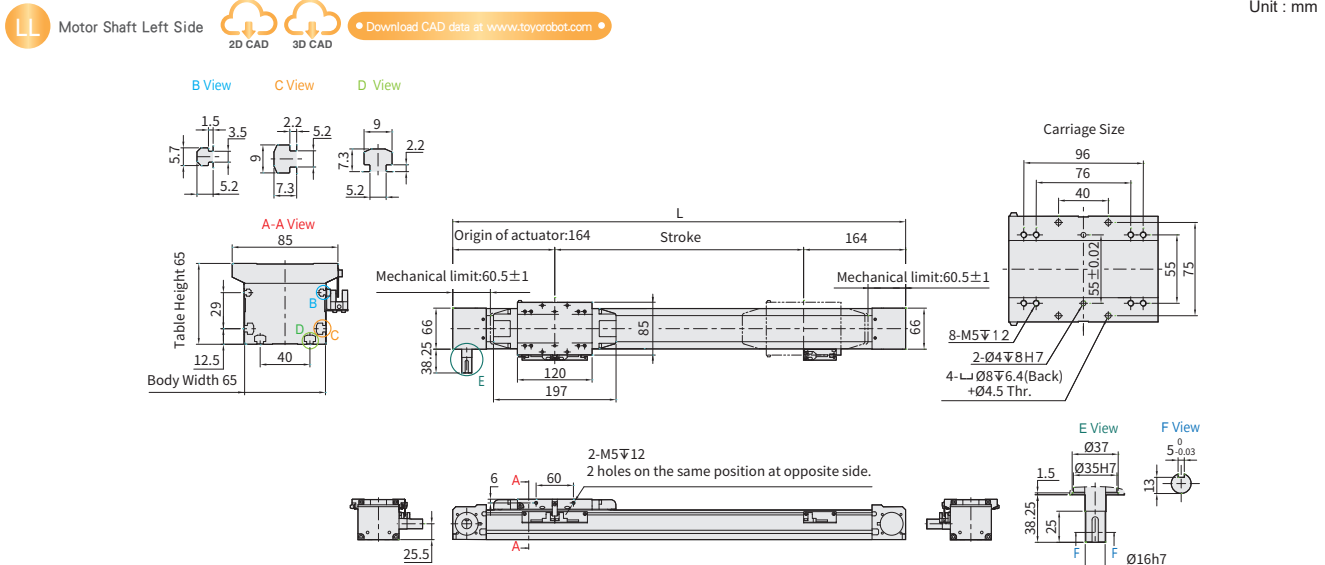
Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
Limit Stroke (±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	628	728	828	928	1028	1128	1228	1328	1428	1528	1628	1728	1828	1928	2028	2128	2228	2328
KG	4.84	5.16	5.49	5.82	6.14	6.47	6.79	7.12	7.45	7.77	8.1	8.42	8.75	9.08	9.4	9.73	10.05	10.38
Linear Speed mm/s	Lead 30	1800																

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
Limit Stroke (±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2428	2528	2628	2728	2828	2928	3028	3128	3228	3328	3428	3528	3628	3728	3828	3928	4028
KG	10.71	11.03	11.36	11.68	12.01	12.34	12.66	12.99	13.31	13.64	13.97	14.29	14.62	14.94	15.27	15.60	15.92
Linear Speed mm/s	Lead 30	1800															

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+328 and the stroke limit is +10 of the stroke range.

* 1 When motor is installed, it will be lower than the body by 6.5mm. Because the size of the motor frame of each brand is different, it's recommended to reserve 3-5mm more space at the bottom to prevent interference.

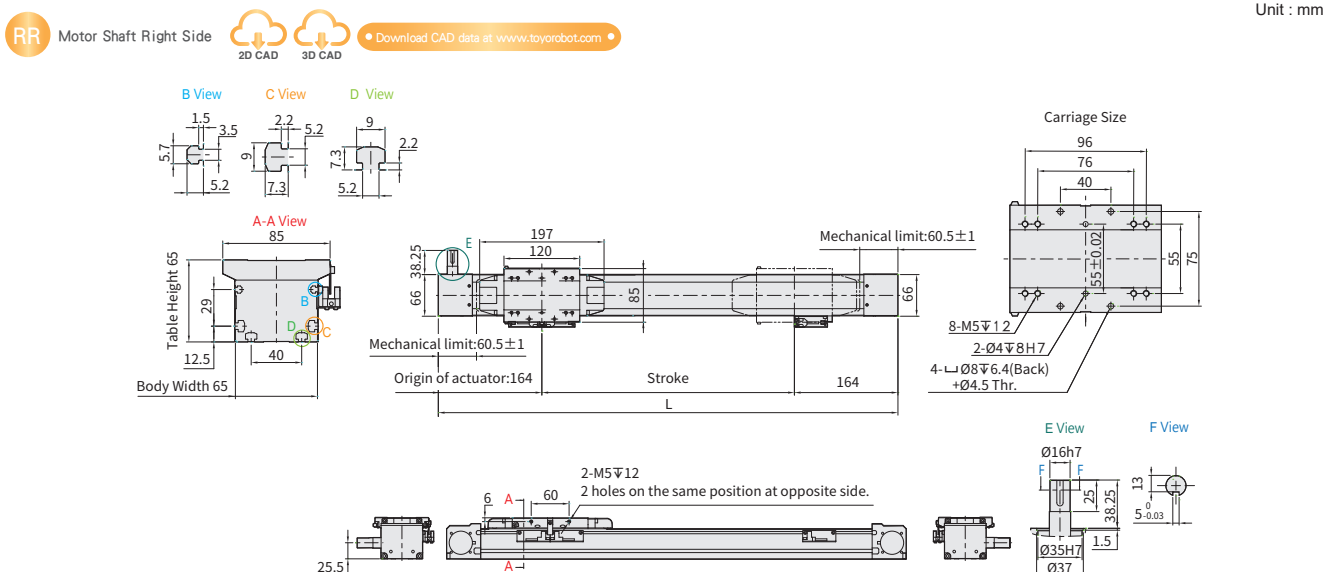
No support axis(Without Reducer & Gear Box)



Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
Limit Stroke (±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	628	728	828	928	1028	1128	1228	1328	1428	1528	1628	1728	1828	1928	2028	2128	2228	2328
KG	3.04	3.36	3.69	4.02	4.34	4.67	4.99	5.32	5.65	5.97	6.3	6.62	6.95	7.28	7.6	7.93	8.25	8.58
Linear Speed mm/s	Lead 30																	

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
Limit Stroke (±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2428	2528	2628	2728	2828	2928	3028	3128	3228	3328	3428	3528	3628	3728	3828	3928	4028
KG	8.91	9.23	9.56	9.88	10.21	10.54	10.86	11.19	11.51	11.84	12.17	12.49	12.82	13.14	13.47	13.8	14.12
Linear Speed mm/s	Lead 30																

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+328 and the stroke limit is +10 of the stroke range.



Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
Limit Stroke (±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	628	728	828	928	1028	1128	1228	1328	1428	1528	1628	1728	1828	1928	2028	2128	2228	2328
KG	3.04	3.36	3.69	4.02	4.34	4.67	4.99	5.32	5.65	5.97	6.3	6.62	6.95	7.28	7.6	7.93	8.25	8.58
Linear Speed mm/s	Lead 30																	

Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
Limit Stroke (±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2428	2528	2628	2728	2828	2928	3028	3128	3228	3328	3428	3528	3628	3728	3828	3928	4028
KG	8.91	9.23	9.56	9.88	10.21	10.54	10.86	11.19	11.51	11.84	12.17	12.49	12.82	13.14	13.47	13.8	14.12
Linear Speed mm/s	Lead 30																

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+328 and the stroke limit is +10 of the stroke range.

M Series

MH65

MH80

MK65

MK85

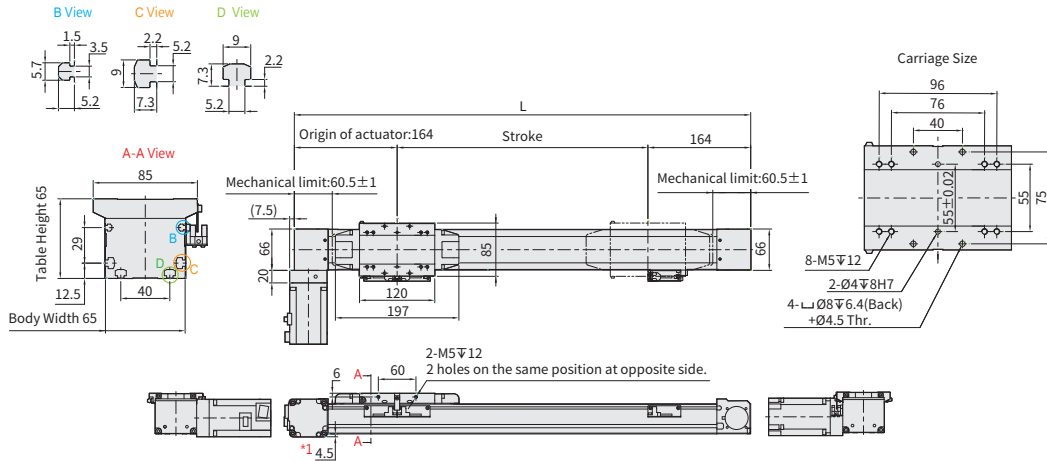
MK110

MG65

Motor direct drive(Without Reducer & Gear Box)

LT Motor Left side   [Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm



Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	
Limit Stroke (±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	
L		628	728	828	928	1028	1128	1228	1328	1428	1528	1628	1728	1828	1928	2028	2128	2228	2328	
KG		3.2	3.52	3.85	4.18	4.5	4.83	5.15	5.48	5.81	6.13	6.46	6.78	7.11	7.44	7.76	8.09	8.41	8.74	
Linear Speed mm/s		Lead 90		3500																

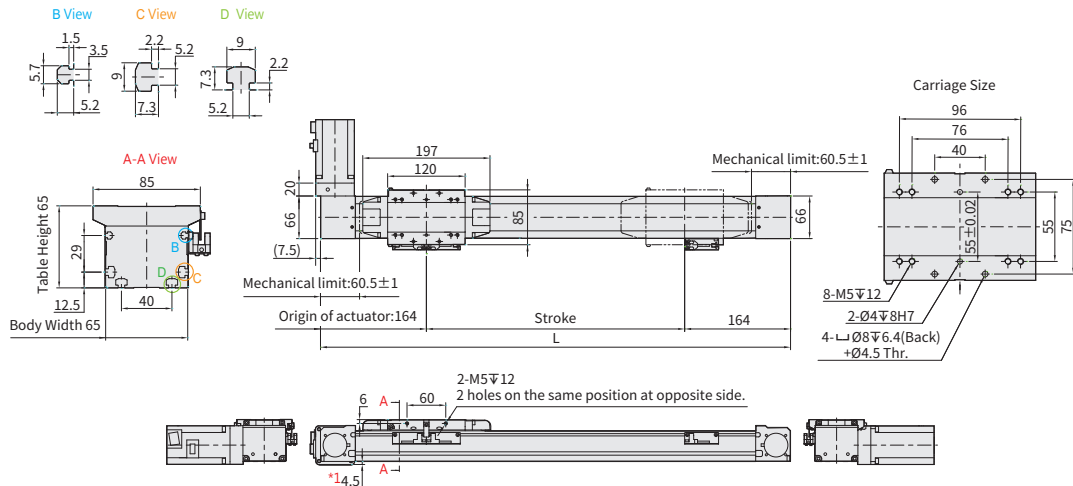
Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
Limit Stroke (±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L		2428	2528	2628	2728	2828	2928	3028	3128	3228	3328	3428	3528	3628	3728	3828	3928	4028
KG		9.07	9.39	9.72	10.04	10.37	10.7	11.02	11.35	11.67	12	12.33	12.65	12.98	13.3	13.63	13.96	14.28
Linear Speed mm/s		Lead 90		3500														

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+328 and the stroke limit is +10 of the stroke range.

* 1 When motor is installed, it will be lower than the body by 4.5mm. Because the size of the motor frame of each brand is different, it's recommended to reserve 3-5mm more space at the bottom to prevent interference.

RT Motor Right side   [Download CAD data at www.toyorobot.com](http://www.toyorobot.com)

Unit : mm



Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
Limit Stroke (±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		628	728	828	928	1028	1128	1228	1328	1428	1528	1628	1728	1828	1928	2028	2128	2228	2328
KG		3.2	3.52	3.85	4.18	4.5	4.83	5.15	5.48	5.81	6.13	6.46	6.78	7.11	7.44	7.76	8.09	8.41	8.74
Linear Speed mm/s	Lead 90	3500																	

Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
Limit Stroke (±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L		2428	2528	2628	2728	2828	2928	3028	3128	3228	3328	3428	3528	3628	3728	3828	3928	4028
KG		9.07	9.39	9.72	10.04	10.37	10.7	11.02	11.35	11.67	12	12.33	12.65	12.98	13.3	13.63	13.96	14.28
Linear Speed mm/s	Lead 90	3500																

* Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+328 and the stroke limit is +10 of the stroke range.

* 1 When motor is installed, it will be lower than the body by 4.5mm. Because the size of the motor frame of each brand is different, it's recommended to reserve 3-5mm more space at the bottom to prevent interference.



Memo

應用例
Application

一般 / 螺桿仕樣
GTH / GTV / ETH / Y

一般 / 皮帶仕樣
M

無塵 / 螺桿仕樣
GCH / ECH

無塵 / 皮帶仕樣
ECB

直交連結
XYGT / XYTH / XYTB

參考資料
Reference

M Series

MG50

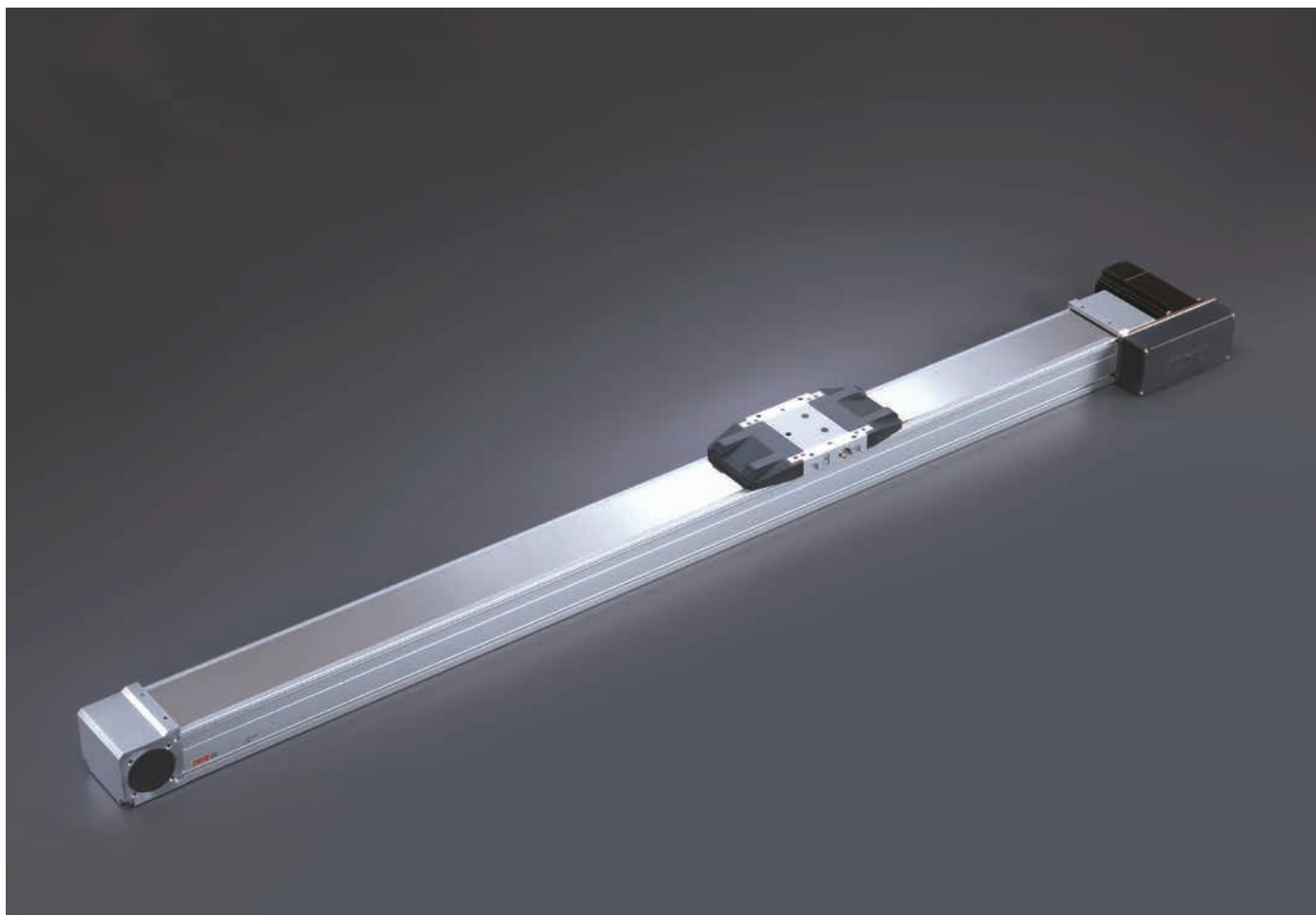
MG65

MG85

MG85 單軸 /1-axis

▶ 軌道內嵌
Integrated Linear Bearing

▶ 皮帶驅動
Belt Drive



最大行程
Maximum Stroke 3700mm

最高速度
Maximum Speed 3500mm/s

馬達容量
Motor Output 400W

皮帶寬度
Belt Width 25 mm

* 依減速比不同而異
* Differ from different gear ratio.

型號表示方式 Ordering Method

MG85 - 2000 - LUS - M40B - C4N5 - 03 - 參照右頁 - A001

本體型號
Model

行程
Stroke

300-3700mm
50間隔 50 mm Pitch

馬達位置²
Motor Position

有動力 With Gearbox			
L	馬達左折 Motor Left Side	R	馬達右折 Motor Right Side
LU	馬達左上折 Motor Left Upper Side	RU	馬達右上折 Motor Right Upper Side
LD	馬達左下折 Motor Left Lower Side	RD	馬達右下折 Motor Right Lower Side
LT	馬達直結左折 Reducer With Motor Left Side	RT	馬達直結右折 Reducer With Motor Right Side
無動力 Without Gearbox			
LL	馬達出軸心左折 Motor Shaft Left Side	RR	馬達出軸心右折 Motor Shaft Right Side

² 依減速型式不同，對應的馬達位置有限制。
² Depending on the drive mode, the corresponding motor position is limited.

同動軸心
Synchronous axis

S 有同動軸心
With Synchronous axis

*4 若無則不表示。
*4 If there is no, it will not be indicated.

*馬達方向LL&RR不適用
*Motor direction LL&RR is not available.

馬達廠牌
Motor Brand

M	三菱 Mitsubishi	10	-	B ¹
P	松下 Panasonic	20	-	
Y	安川 Yaskawa	40	400W	
T	台達 Delta	75	-	

*1 若無煞車則不表示。*1 If No Brake, No Description.

原點感應器
Home Sensor

外掛型 Out Side	
C	馬達側 Motor Side
D	反馬達側 Opposite Motor Side
無 SENSOR No Sensor	
E	無 SENSOR No Sensor

輸出方式&線長
Output type & Cable length

N5	NPN+5米線 NPN+5M Cable
P2	PNP+2米線 PNP+2M Cable
P5	PNP+5米線 PNP+5M Cable
-	NPN+2米線 NPN+2M Cable

端點極限感應器
Limit Sensor

外掛型 Out Side	
3	1只 1 Pc
4	2只 2 Pcs
無 SENSOR No Sensor	
5	無 SENSOR No Sensor

選配
Options

特注式樣
Customization Order No.

搭配減速型式²
Gear Box Type

03	搭配3比減速機 ³ With 3:1 Reducer 適用L/LU/LD/LT/R/RU/RD/RT Suit for L/LU/LD/LT/R/RU/RD/RT
05	搭配5比減速機 With 5:1 Reducer 適用L/LU/LD/LT/R/RU/RD/RT Suit for L/LU/LD/LT/R/RU/RD/RT
N	無動力輔助軸 None powered support 適用LL/RR Suit for LL/RR
00	馬達直接驅動，無減速機(構) Motor direct drive, without reducer(Gearbox) 適用LT/RT Suit for LT/RT

*3 減速機由TOYO提供，若需使用特殊減速機需提出特注處理。
*3 The gearbox is provided by TOYO, other than toyo gearbox required customization.

基本仕様 Specification

規格	減速型式代碼 Reduce Model code	03	05	00
	減速型式 Drive Deceleration	減速機構 Gear Box	減速機 Reducer	馬達直驅 Motor directdrive
	減速比 Reduce Ratio	3:1	5:1	1:1
	馬達最高轉速 Motor max. speed (rpm)	3600	3000	1680
	最高速度 Maximum Speed (mm/s) ※2	2400	2083	1440
	最大可搬重量 Maximum Payload	27	37	72
部品	位置重複精度 Repeatability (mm)	±0.04		±0.08
	定格推力 Rated Thrust (N)	169	282	54
	標準行程 Stroke Pitch (mm)	300-3700mm / 50 間隔 50 mm Pitch		
	AC 伺服馬達容量 AC Servo Motor Output (W)	400		
	皮帶寬度 Belt width (mm)	20		
	原點感應器 Home Sensor	外掛 Outside		

※1 垂直使用時，如果皮帶斷裂，負載可能會掉落。請小心。

When using it vertically, if the belt breaks, the load may fall down. Please be careful.

※2 滑台未安裝減速器時，導程為 120。The lead is 120 when the reducer is not installed on the actuator.

※3 壁掛最大荷重為 2kg。The maximum payload for wall mount is 2kg.

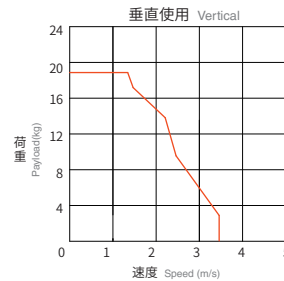
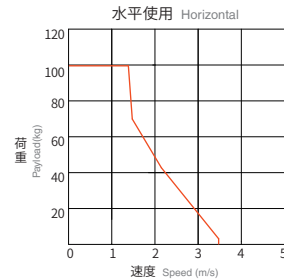
滑台固定螺帽數量 Numbers of Fixing Screws

各行程 M5 後裝螺帽數量 M5 nuts Qty.(by stroke)									
有效行程 Stroke	300-450	500-650	700-850	900-1050	1100-1250	1300-1450	1500-1650	1700-1850	1900-2050
數量 Quantity	8	10	12	14	16	18	20	22	24
有效行程 Stroke	2100-2250	2300-2450	2500-2650	2700-2850	2900-3050	3100-3250	3300-3450	3500-3650	3700
數量 Quantity	26	28	30	32	34	36	38	40	42

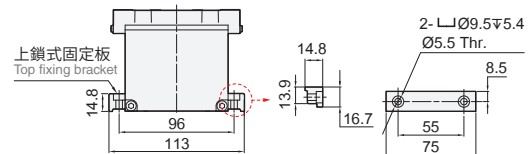
※ 滑台標準固定方式為下鎖式，使用 M5 後裝螺絲固定。

Standard mounting method is fix from the bottom, using the M5 bolt and nut.

速度 - 荷重曲線圖 Acceleration-Payload Relationship



安裝示意圖 & 安裝尺寸 Installation Reference



※ 上鎖式固定板非標準品，若有需求請另外追加選購。Top fixing plate is optional.

容許負載力距表 Allowable Overhang Moment

(單位 Unit : mm)					(單位 Unit : mm)		
水平安裝 Horizontal Installation		A	B	C	垂直安裝 Wall Installation		
3:1 減速機構 Gear Box	15kg	2210	2210	200	3:1 減速機構 Gear Box	6kg	1430
	25kg	1170	586	115		10kg	750
	27kg	830	380	84		-	-
5:1 減速機 Reducer	30kg	1275	542	124	5:1 減速機 Reducer	10kg	1350
	60kg	840	324	82		17kg	630
	72kg	410	175	40		-	-
1:1 馬達直驅 Motor direct drive	2kg	300	250	29	1:1 馬達直驅 Motor direct drive	3kg	270
	3kg	275	225	26		3.5kg	250
	4kg	200	175	19		-	-

靜額定扭矩 Static Loading Moment

(單位 Unit : N.m)	
MY	832
MP	832
MR	1247

* 力矩表所表示的數據，代表荷重的重心位置於單一方向容許懸出的長度。

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.

* 符合型錄規範的正常情況下，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.

* 壽命及力矩是以馬達加減速設定 0.4 秒計算。

The life and torque are calculated by setting the motor acceleration and deceleration for 0.4 seconds.

選配 Options

EB 外觀黑色處理 Outer layer is treated with black oxide				MM 指定馬達出線方向 Selectable Cable Leading Direction				GC 減速機由客戶提供 Gear Box provided by customer			
代號 Code	說明 Instructions		需參照 Refer to	代號 Code	說明 Instructions		需參照 Refer to	代號 Code	說明 Instructions		需參照 Refer to
	顏色 Color	範圍 Range									
EB	黑色 Black	本體 Main Body	P.052	MW	朝上 Upper side	P.052 ~ P.053		GC	客供減速機尺寸需與標準固定尺寸相同 The size of the customer-supplied gearbox must be the same as the standard fixed size as page 683.		P.054
	原色 Original color	不銹鋼板材 Screw 鋼帶 Support rod		MM	朝下 Bottom side						
				ML	朝左 Left side						
				MR	朝右 Right side						

03: 搭配三比減速機構 3:1 Gear ratio

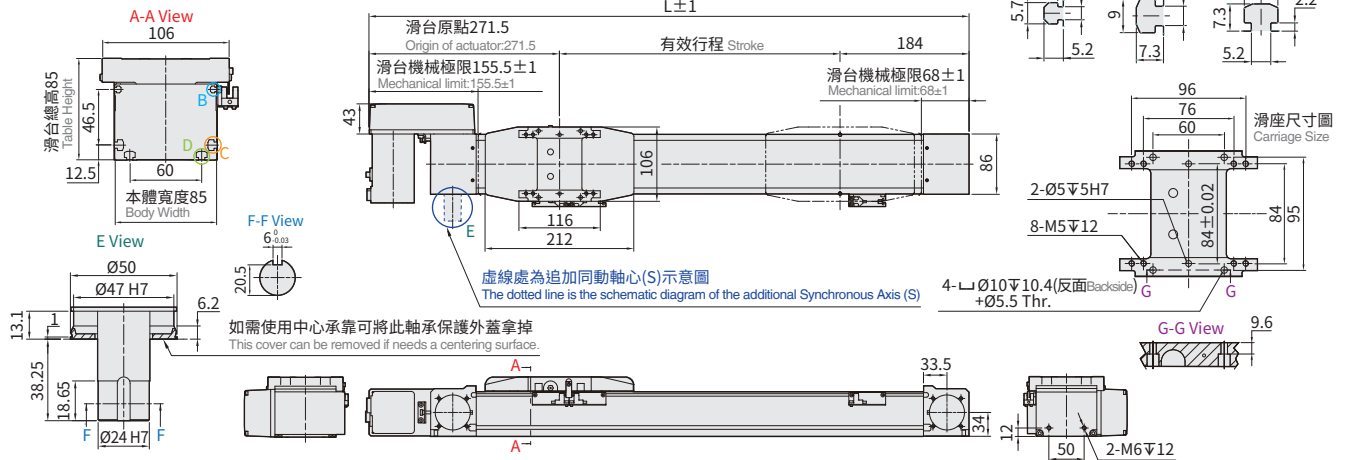
L 馬達左折 Motor Left Side



• CAD圖面可至www.toyorobot.com下載 •
Please download the CAD file from TOYO's website : www.toyorobot.com

單位 Unit : mm

LS 馬達左折 + 同動軸心 Motor Left Side With Synchronous axis



有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		755.5	855.5	955.5	1055.5	1155.5	1255.5	1355.5	1455.5	1555.5	1655.5	1755.5	1855.5	1955.5	2055.5	2155.5	2255.5	2355.5	2455.5
KG		6.29	6.73	7.16	7.6	8.04	8.48	8.92	9.36	9.8	10.23	10.67	11.11	11.55	11.99	12.43	12.87	13.3	13.74
線速度 Linear Speed mm/s		2400																	
導程 Lead 40		2400																	

有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2555.5	2655.5	2755.5	2855.5	2955.5	3055.5	3155.5	3255.5	3355.5	3455.5	3555.5	3655.5	3755.5	3855.5	3955.5	4055.5	4155.5	
KG		14.18	14.62	15.06	15.5	15.93	16.37	16.81	17.25	17.69	18.13	18.57	19	19.44	19.88	20.32	20.76	21.2	
線速度 Linear Speed mm/s		2400																	
導程 Lead 40		2400																	

※ 由於版面限制，無法列出所有行程資訊，總長 L= 行程 +455.5; 極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+455.5 and the stroke limit is +10 of the stroke range.

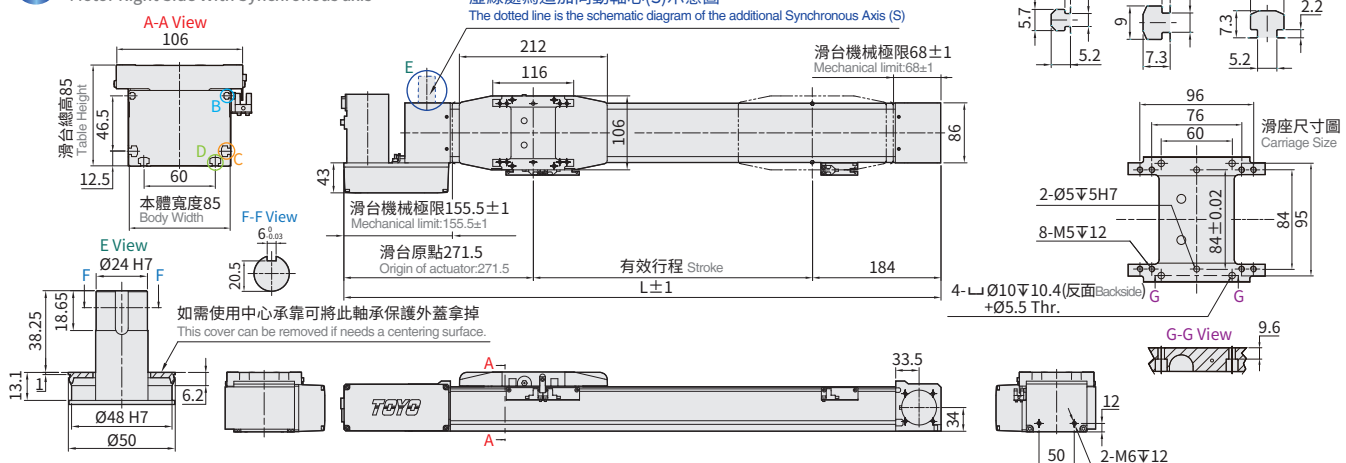
R 馬達右折 Motor Right Side



• CAD圖面可至www.toyorobot.com下載 •
Please download the CAD file from TOYO's website : www.toyorobot.com

單位 Unit : mm

RS 馬達右折 + 同動軸心 Motor Right Side With Synchronous axis



有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		755.5	855.5	955.5	1055.5	1155.5	1255.5	1355.5	1455.5	1555.5	1655.5	1755.5	1855.5	1955.5	2055.5	2155.5	2255.5	2355.5	2455.5
KG		6.29	6.73	7.16	7.6	8.04	8.48	8.92	9.36	9.8	10.23	10.67	11.11	11.55	11.99	12.43	12.87	13.3	13.74
線速度 Linear Speed mm/s		2400																	
導程 Lead 40		2400																	

有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2555.5	2655.5	2755.5	2855.5	2955.5	3055.5	3155.5	3255.5	3355.5	3455.5	3555.5	3655.5	3755.5	3855.5	3955.5	4055.5	4155.5	
KG		14.18	14.62	15.06	15.5	15.93	16.37	16.81	17.25	17.69	18.13	18.57	19	19.44	19.88	20.32	20.76	21.2	
線速度 Linear Speed mm/s		2400																	
導程 Lead 40		2400																	

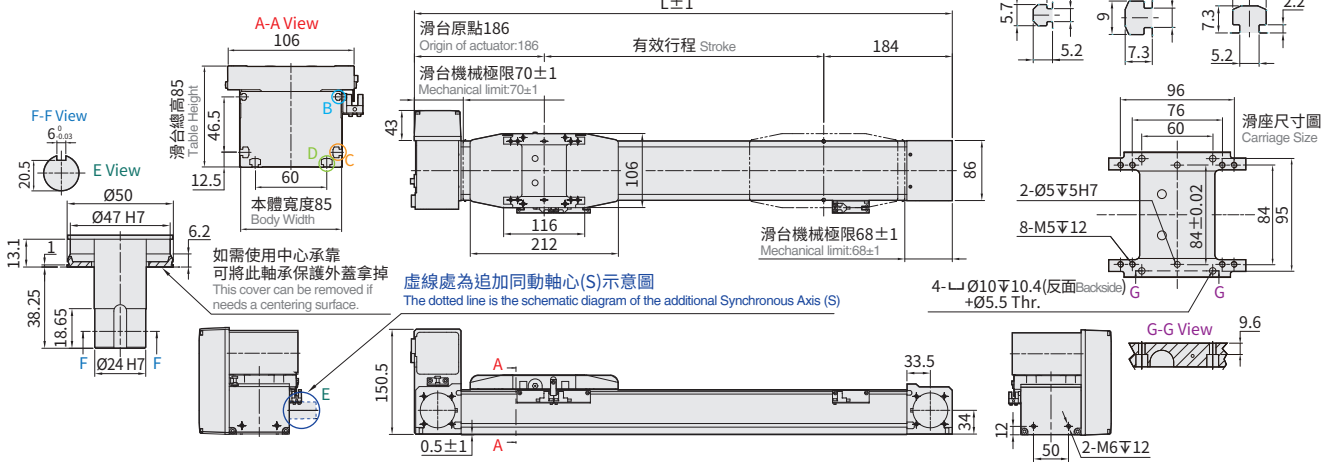
※ 由於版面限制，無法列出所有行程資訊，總長 L= 行程 +455.5; 極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+455.5 and the stroke limit is +10 of the stroke range.

03: 搭配三比減速機構

3:1 Gear ratio

LU 馬達左上折
Motor Left Upper SideCAD圖面可至www.toyorobot.com下載
Please download the CAD file from TOYO's website: www.toyorobot.com

單位 Unit : mm

LUS 馬達左上折 + 同動軸心
Motor Left Upper Side With Synchronous axis

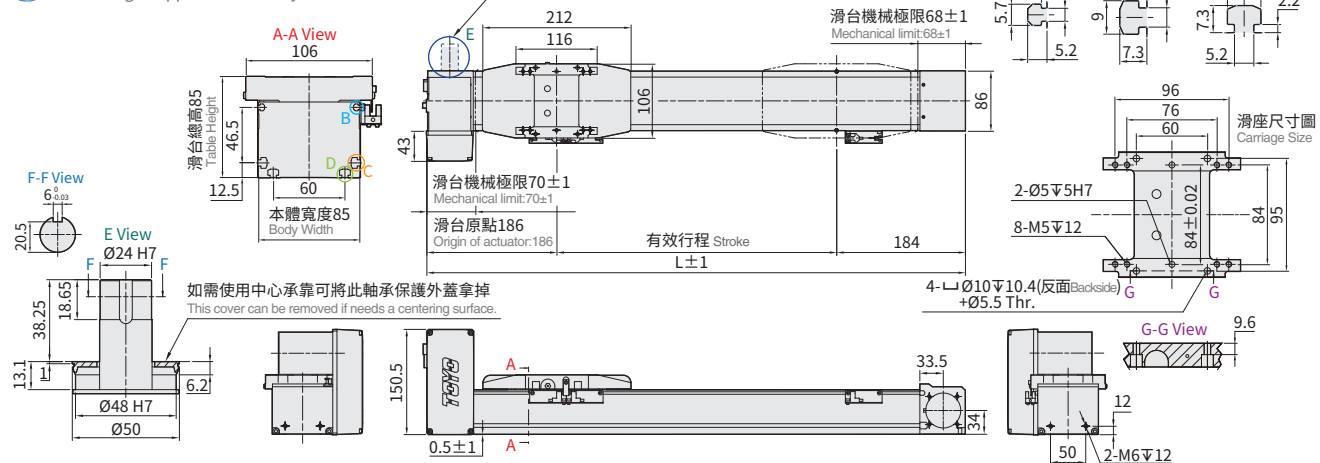
有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370
KG		6.29	6.73	7.16	7.6	8.04	8.48	8.92	9.36	9.8	10.23	10.67	11.11	11.55	11.99	12.43	12.87	13.3	13.74
線速度 Linear Speed mm/s		2400																	
導程 Lead 40		2400																	

有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2470	2570	2670	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070	
KG		14.18	14.62	15.06	15.5	15.93	16.37	16.81	17.25	17.69	18.13	18.57	19	19.44	19.88	20.32	20.76	21.2	
線速度 Linear Speed mm/s		2400																	
導程 Lead 40		2400																	

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 +370；極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+370 and the stroke limit is +10 of the stroke range.

RU 馬達右上折
Motor Right Upper SideCAD圖面可至www.toyorobot.com下載
Please download the CAD file from TOYO's website: www.toyorobot.com

單位 Unit : mm

RUS 馬達右上折 + 同動軸心
Motor Right Upper Side With Synchronous axis

有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370
KG		6.29	6.73	7.16	7.6	8.04	8.48	8.92	9.36	9.8	10.23	10.67	11.11	11.55	11.99	12.43	12.87	13.3	13.74
線速度 Linear Speed mm/s		2400																	
導程 Lead 40		2400																	

有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2470	2570	2670	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070	
KG		14.18	14.62	15.06	15.5	15.93	16.37	16.81	17.25	17.69	18.13	18.57	19	19.44	19.88	20.32	20.76	21.2	
線速度 Linear Speed mm/s		2400																	
導程 Lead 40		2400																	

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 +370；極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+370 and the stroke limit is +10 of the stroke range.

應用例

一般 / 螺桿仕様
GTH / GTY / ETH / Y一般 / 皮帶仕様
M無塵 / 螺桿仕様
GCH / ECH無塵 / 皮帶仕様
ECB直交連結
XYGT / XTH / XYTB

參考資料

M Series

MG50

MG65

MG85

03: 搭配三比減速機構 3:1 Gear ratio

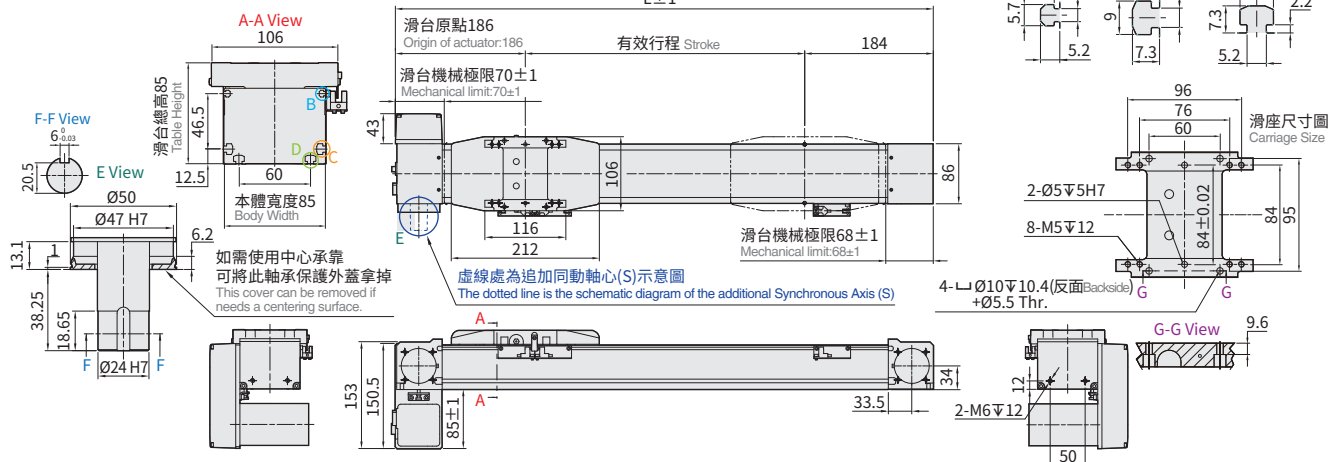
LD 馬達左下折 Motor Left Lower Side



• CAD圖面可至www.toyorobot.com下載
Please download the CAD file from TOYO's website : www.toyorobot.com

單位 Unit : mm

LDS 馬達左下折 + 同動軸心 Motor Left Side With Synchronous axis



有效行程 Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370
KG	6.29	6.73	7.16	7.6	8.04	8.48	8.92	9.36	9.8	10.23	10.67	11.11	11.55	11.99	12.43	12.87	13.3	13.74
線速度 Linear Speed mm/s	2400																	
導程 Lead 40	2400																	

有效行程 Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
極限行程 Limit stroke(±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2470	2570	2670	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070
KG	14.18	14.62	15.06	15.5	15.93	16.37	16.81	17.25	17.69	18.13	18.57	19	19.44	19.88	20.32	20.76	21.2
線速度 Linear Speed mm/s	2400																
導程 Lead 40	2400																

※ 由於版面限制，無法列出所有行程資訊，總長 L= 行程 +370; 極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+370 and the stroke limit is +10 of the stroke range.

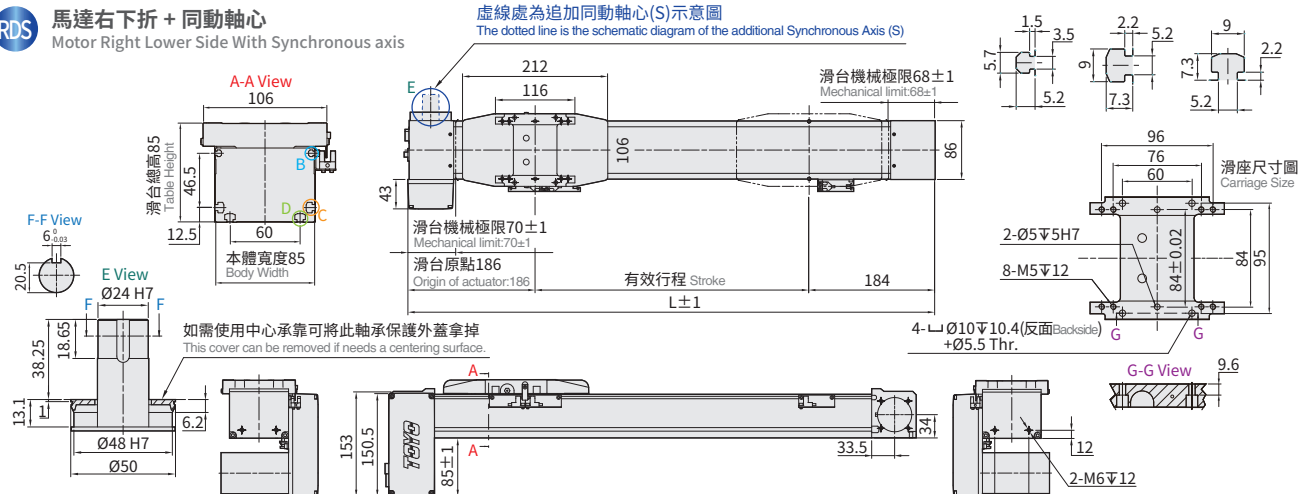
RD 馬達右下折 Motor Right Lower Side



• CAD圖面可至www.toyorobot.com下載
Please download the CAD file from TOYO's website : www.toyorobot.com

單位 Unit : mm

RDS 馬達右下折 + 同動軸心 Motor Right Lower Side With Synchronous axis



有效行程 Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370
KG	6.29	6.73	7.16	7.6	8.04	8.48	8.92	9.36	9.8	10.23	10.67	11.11	11.55	11.99	12.43	12.87	13.3	13.74
線速度 Linear Speed mm/s	2400																	
導程 Lead 40	2400																	

有效行程 Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
極限行程 Limit stroke(±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2470	2570	2670	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070
KG	14.18	14.62	15.06	15.5	15.93	16.37	16.81	17.25	17.69	18.13	18.57	19	19.44	19.88	20.32	20.76	21.2
線速度 Linear Speed mm/s	2400																
導程 Lead 40	2400																

※ 由於版面限制，無法列出所有行程資訊，總長 L= 行程 +370; 極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+370 and the stroke limit is +10 of the stroke range.

045

05: 搭配五比減速機 5:1 Reducer

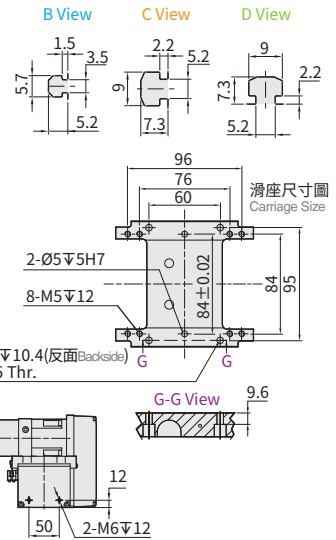
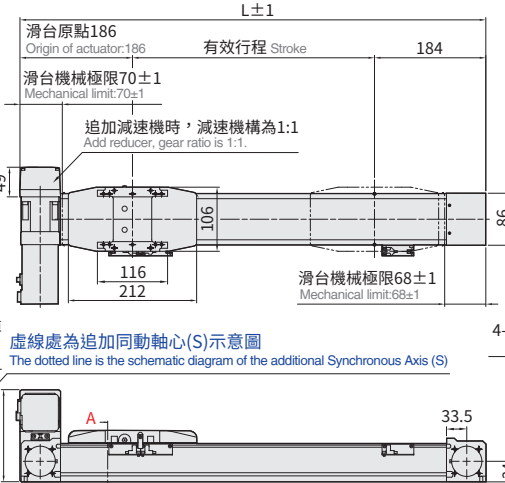
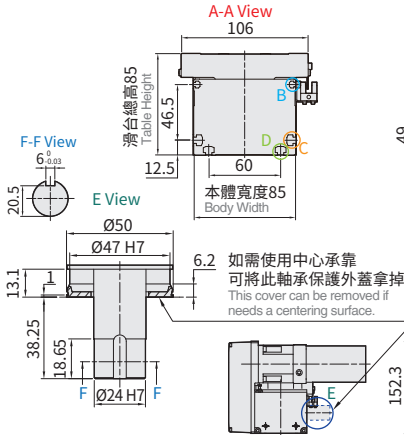
LU 馬達左上折
Motor Left Upper Side



• CAD圖面可至www.toyorobot.com下載
Please download the CAD file from TOYO's website: www.toyorobot.com

單位 Unit: mm

LUS 馬達左上折 + 同動軸心
Motor Left Upper Side With Synchronous axis



有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370
KG		8.17	8.61	9.05	9.49	9.92	10.36	10.8	11.24	11.68	12.12	12.56	12.99	13.43	13.87	14.31	14.75	15.19	15.63
線速度 Linear Speed mm/s		1440																	
導程 Lead 24		1440																	

有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2470	2570	2670	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070	
KG		16.06	16.5	16.94	17.38	17.82	18.26	18.69	19.13	19.57	20.01	20.45	20.89	21.33	21.76	22.20	22.64	23.08	
線速度 Linear Speed mm/s		1440																	
導程 Lead 24		1440																	

※ 由於版面限制，無法列出所有行程資訊，總長 L= 行程 +370; 極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+370 and the stroke limit is +10 of the stroke range.

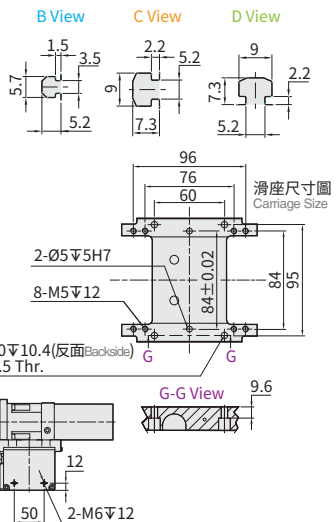
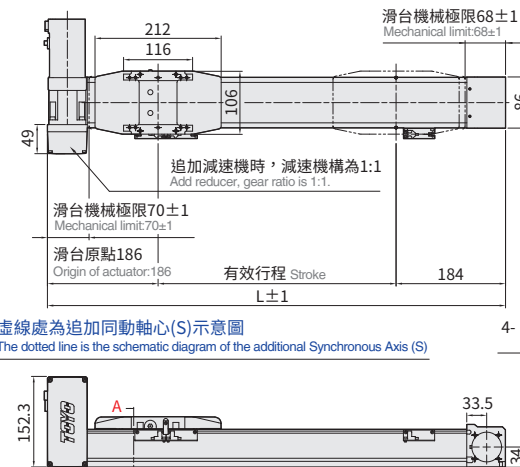
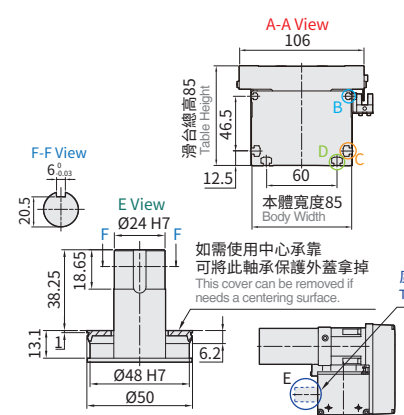
RU 馬達右上折
Motor Right Upper Side



• CAD圖面可至www.toyorobot.com下載
Please download the CAD file from TOYO's website: www.toyorobot.com

單位 Unit: mm

RUS 馬達右上折 + 同動軸心
Motor Right Upper Side With Synchronous axis



有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370
KG		8.17	8.61	9.05	9.49	9.92	10.36	10.8	11.24	11.68	12.12	12.56	12.99	13.43	13.87	14.31	14.75	15.19	15.63
線速度 Linear Speed mm/s		1440																	
導程 Lead 24		1440																	

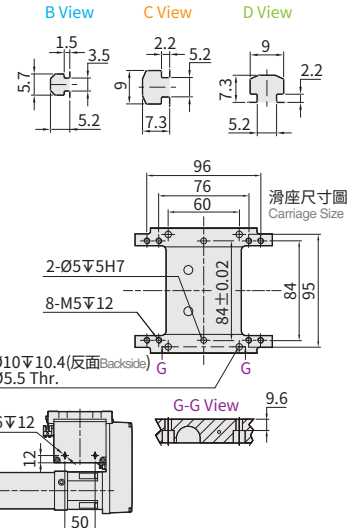
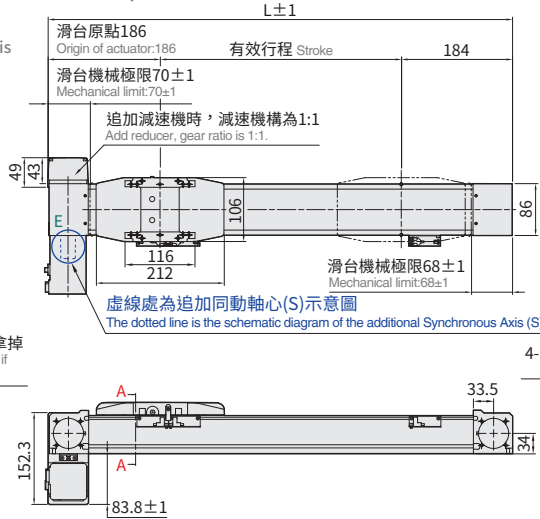
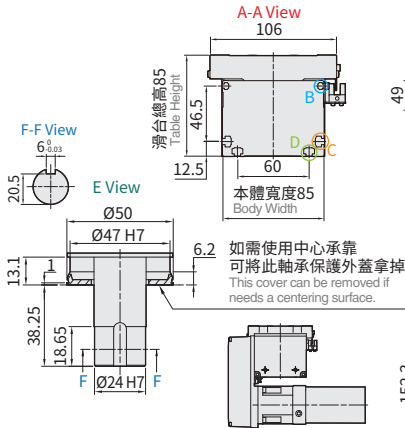
有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2470	2570	2670	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070	
KG		16.06	16.5	16.94	17.38	17.82	18.26	18.69	19.13	19.57	20.01	20.45	20.89	21.33	21.76	22.20	22.64	23.08	
線速度 Linear Speed mm/s		1440																	
導程 Lead 24		1440																	

※ 由於版面限制，無法列出所有行程資訊，總長 L= 行程 +370; 極限行程為有效行程 +10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke+370 and the stroke limit is +10 of the stroke range.

05: 搭配五比減速機
5:1 ReducerLD 馬達左下折
Motor Left Lower Side

CAD圖面可至www.toyorobot.com下載

Please download the CAD file from TOYO's website: www.toyorobot.com

LDS 馬達左下折 + 同動軸心
Motor Left Lower Side With Synchronous axis

有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370
KG		8.17	8.61	9.05	9.49	9.92	10.36	10.8	11.24	11.68	12.12	12.56	12.99	13.43	13.87	14.31	14.75	15.19	15.63
線速度 Linear Speed mm/s		1440																	
導程 Lead 24		1440																	
有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2470	2570	2670	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070	
KG		16.06	16.5	16.94	17.38	17.82	18.26	18.69	19.13	19.57	20.01	20.45	20.89	21.33	21.76	22.20	22.64	23.08	
線速度 Linear Speed mm/s		1440																	
導程 Lead 24		1440																	

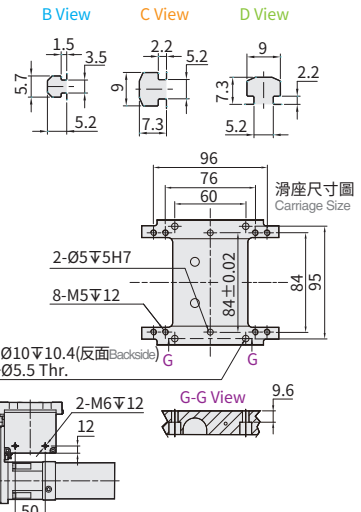
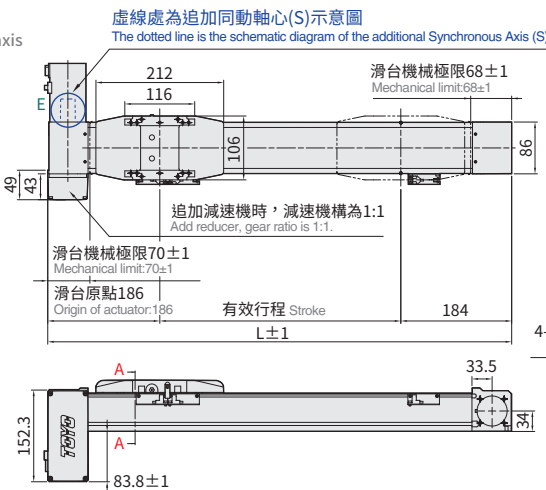
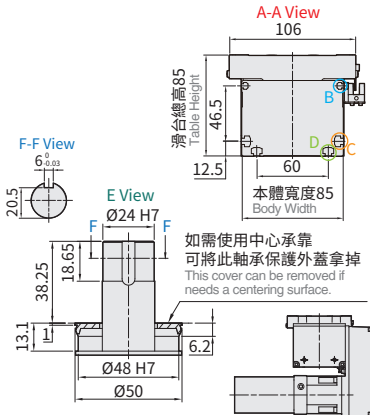
※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 + 370; 極限行程為有效行程 + 10。

Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke + 370 and the stroke limit is + 10 of the stroke range.

RD 馬達右下折
Motor Right Lower Side

CAD圖面可至www.toyorobot.com下載

Please download the CAD file from TOYO's website: www.toyorobot.com

RDS 馬達右上折 + 同動軸心
Motor Right Upper Side With Synchronous axis

有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370
KG		8.17	8.61	9.05	9.49	9.92	10.36	10.8	11.24	11.68	12.12	12.56	12.99	13.43	13.87	14.31	14.75	15.19	15.63
線速度 Linear Speed mm/s		1440																	
導程 Lead 24																			
有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2470	2570	2670	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070	
KG		16.06	16.5	16.94	17.38	17.82	18.26	18.69	19.13	19.57	20.01	20.45	20.89	21.33	21.76	22.20	22.64	23.08	
線速度 Linear Speed mm/s		1440																	
導程 Lead 24																			

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 + 370; 極限行程為有效行程 + 10。

Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke + 370 and the stroke limit is + 10 of the stroke range.

應用例
Application一般 / 螺桿仕様
GTH / GTY / ETH / Y一般 / 皮帶仕様
M無塵 / 螺桿仕様
GCH / ECH無塵 / 皮帶仕様
ECB直交連結
XYGT / XTH / XYTB參考資料
Reference

M Series

MG50

MG65

MG85

N: 無動力輔助軸 (無減速機 & 減速機構)

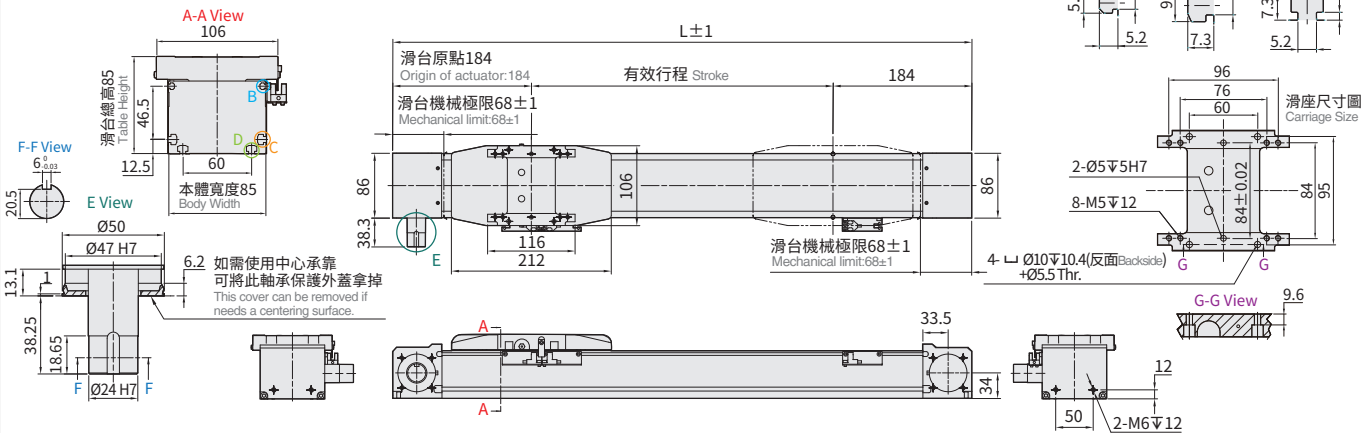
No support axis (Without Reducer & Gear Box)

LL 出軸心左折 Motor Shaft Left Side



● CAD圖面可至 www.toyorobot.com 下載 ●
Please download the CAD file from TOYO's website: www.toyorobot.com

單位 Unit : mm



有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		668	768	868	968	1068	1168	1268	1368	1468	1568	1668	1768	1868	1968	2068	2168	2268	2368
KG		5.47	5.91	6.35	6.79	7.22	7.66	8.1	8.54	8.98	9.42	9.86	10.29	10.73	11.17	11.61	12.05	12.49	12.93
線速度 Linear Speed mm/s		-																	
導程 Lead		-																	

有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L		2468	2568	2668	2768	2868	2968	3068	3168	3268	3368	3468	3568	3668	3768	3868	3968	4068
KG		13.36	13.8	14.24	14.68	15.12	15.56	15.99	16.43	16.87	17.31	17.75	18.19	18.63	19.06	19.5	19.94	20.37
線速度 Linear Speed mm/s		-																
導程 Lead		-																

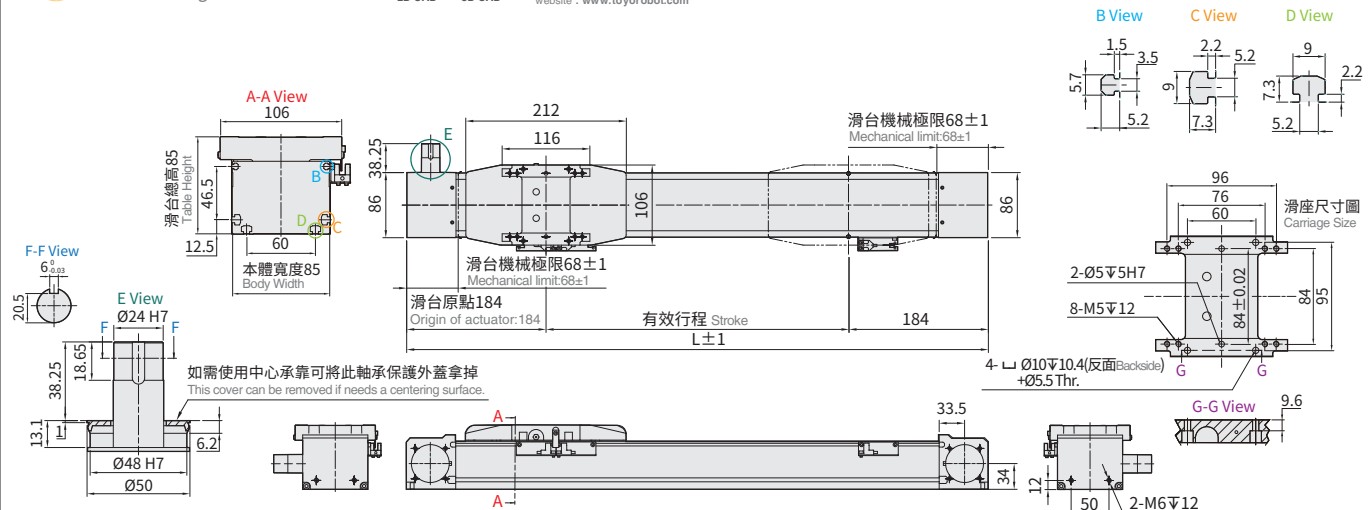
※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 + 368；極限行程為有效行程 + 10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke + 368 and the stroke limit is + 10 of the stroke range.

RR 出軸心右折 Motor Shaft Right Side



● CAD圖面可至 www.toyorobot.com 下載 ●
Please download the CAD file from TOYO's website: www.toyorobot.com

單位 Unit : mm



有效行程 Stroke		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)		310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L		668	768	868	968	1068	1168	1268	1368	1468	1568	1668	1768	1868	1968	2068	2168	2268	2368
KG		5.47	5.91	6.35	6.79	7.22	7.66	8.1	8.54	8.98	9.42	9.86	10.29	10.73	11.17	11.61	12.05	12.49	12.93
線速度 Linear Speed mm/s		-																	
導程 Lead																			
有效行程 Stroke		2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	
極限行程 Limit stroke(±1)		2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	
L		2468	2568	2668	2768	2868	2968	3068	3168	3268	3368	3468	3568	3668	3768	3868	3968	4068	
KG		13.36	13.8	14.24	14.68	15.12	15.56	15.99	16.43	16.87	17.31	17.75	18.19	18.63	19.06	19.5	19.94	20.37	
線速度 Linear Speed mm/s		-																	
導程 Lead																			

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 + 368；極限行程為有效行程 + 10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke + 368 and the stroke limit is + 10 of the stroke range.

M Series

MG50

MG65

MG85

00: 馬達直接驅動 (無減速機 & 減速機構)

Motor direct drive(Without Reducer & Gear Box)

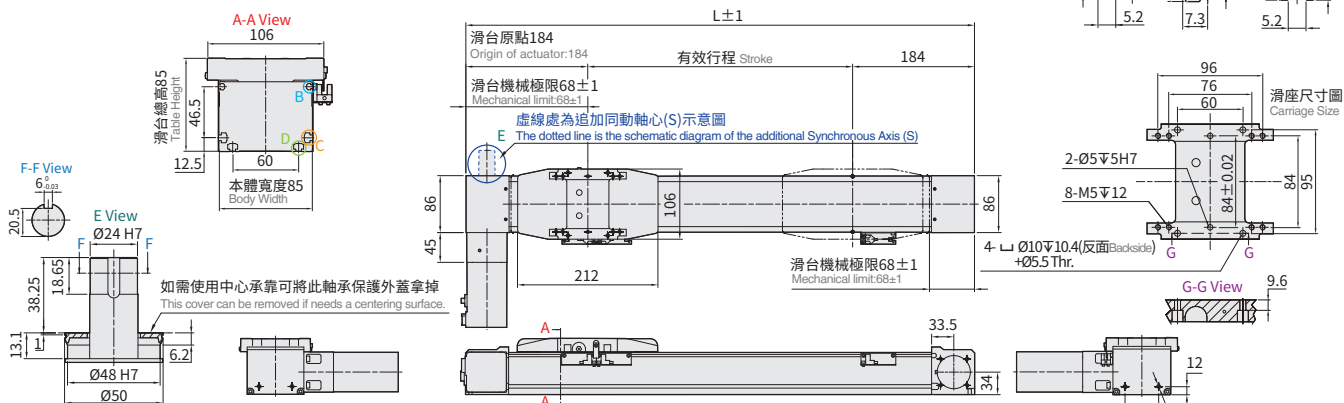
LT 馬達直結左折
Motor Left side



• CAD圖面可至 www.toyorobot.com 下載 •
Please download the CAD file from TOYO's website: www.toyorobot.com

單位 Unit : mm

LTS 馬達直結左折 + 同動軸心
Motor Left Side With Synchronous axis



有效行程 Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	668	768	868	968	1068	1168	1268	1368	1468	1568	1668	1768	1868	1968	2068	2168	2268	2368
KG	5.79	6.23	6.67	7.11	7.55	7.99	8.43	8.86	9.3	9.74	10.18	10.62	11.06	11.5	11.93	12.37	12.81	13.25
線速度 Linear Speed mm/s	3500																	
導程 Lead 120																		

有效行程 Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
極限行程 Limit stroke(±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2468	2568	2668	2768	2868	2968	3068	3168	3268	3368	3468	3568	3668	3768	3868	3968	4068
KG	13.69	14.13	14.56	15	15.44	15.88	16.32	16.76	17.2	17.63	18.07	18.51	18.95	19.39	19.83	20.27	20.7
線速度 Linear Speed mm/s	3500																
導程 Lead 120																	

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 + 368; 極限行程為有效行程 + 10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke + 368 and the stroke limit is + 10 of the stroke range.
※ 馬達安裝後可能低於本體，由於各廠牌的馬達外框尺寸有異，建議底部需多預留 3-5mm 空間，防止干涉產生。
When motor is installed, it may be lower than the body. Because the size of the motor frame of each brand is different, it's recommended to reserve 3-5mm more space at the bottom to prevent interference.

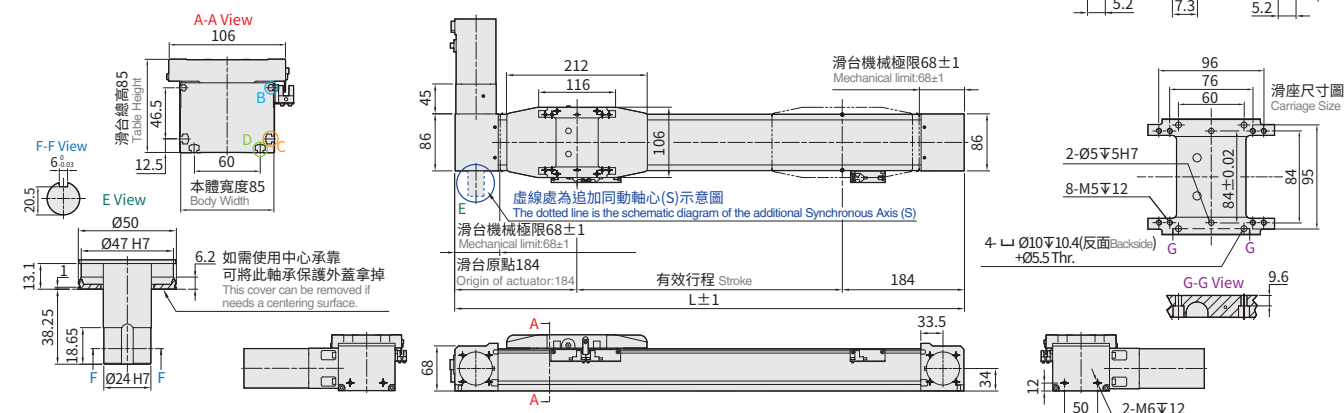
RT 馬達直結右折
Motor Right side



• CAD圖面可至 www.toyorobot.com 下載 •
Please download the CAD file from TOYO's website: www.toyorobot.com

單位 Unit : mm

RTS 馬達直結右折 + 同動軸心
Motor Right Side With Synchronous axis



有效行程 Stroke	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
極限行程 Limit stroke(±1)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010
L	668	768	868	968	1068	1168	1268	1368	1468	1568	1668	1768	1868	1968	2068	2168	2268	2368
KG	5.79	6.23	6.67	7.11	7.55	7.99	8.43	8.86	9.3	9.74	10.18	10.62	11.06	11.5	11.93	12.37	12.81	13.25
線速度 Linear Speed mm/s	3500																	
導程 Lead 120																		

有效行程 Stroke	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700
極限行程 Limit stroke(±1)	2110	2210	2310	2410	2510	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710
L	2468	2568	2668	2768	2868	2968	3068	3168	3268	3368	3468	3568	3668	3768	3868	3968	4068
KG	13.69	14.13	14.56	15	15.44	15.88	16.32	16.76	17.2	17.63	18.07	18.51	18.95	19.39	19.83	20.27	20.7
線速度 Linear Speed mm/s	3500																
導程 Lead 120																	

※ 由於版面限制，無法列出所有行程資訊，總長 L = 行程 + 368; 極限行程為有效行程 + 10。
Due to the limitation of the layout, it's not able to list out full information of the stroke. Total Length of L = Stroke + 368 and the stroke limit is + 10 of the stroke range.
※ 馬達安裝後可能低於本體，由於各廠牌的馬達外框尺寸有異，建議底部需多預留 3-5mm 空間，防止干涉產生。
When motor is installed, it may be lower than the body. Because the size of the motor frame of each brand is different, it's recommended to reserve 3-5mm more space at the bottom to prevent interference.

Application

Standard
Ball Screw Type
GTH/GTY/ETH

Standard
Belt Type
M Series

Cleanroom
Ball Screw Type
GCH/ECH

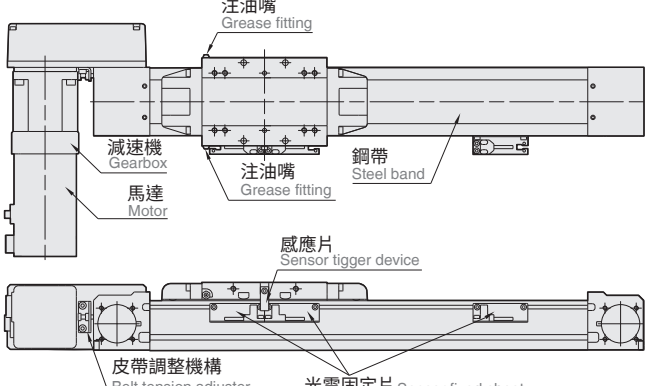
Cleanroom
Belt Type
ECB

Reference

Memo

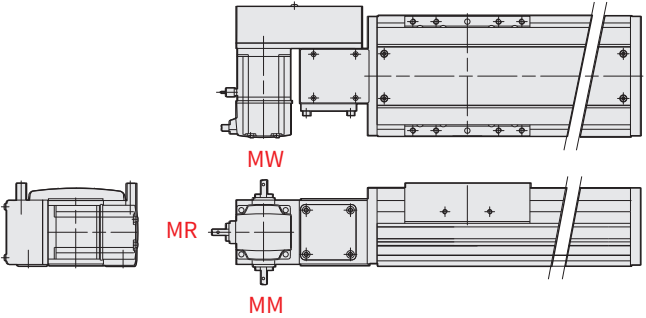
選配參考資料 - 外觀黑色處理

Options-Outer layer is treated with black oxide

代號 Code	說明 Instructions
EB	外觀黑色處理 Outer layer is treated with black oxide
適用規格 Applicable specs	外觀件需維持原色的零件說明表（其餘未列出零件外觀顯示為黑色） The parts that require the original color to be maintained are described as follows. (The appearance of the remaining parts is displayed in black.)
MG 系列 M series	 ※鎖附螺絲、螺帽皆為原色 ※ The locking screws and nuts are all in their original color. ※以MG為圖例 ※ Using MG as an example

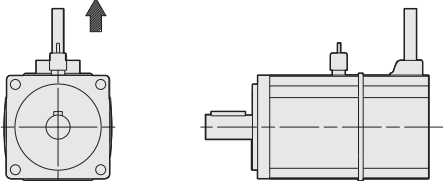
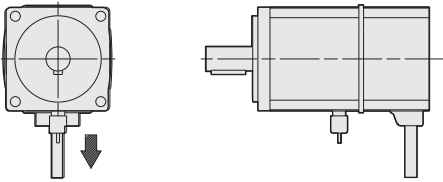
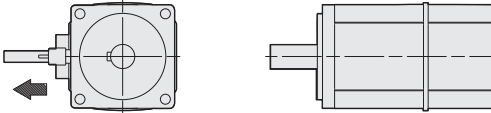
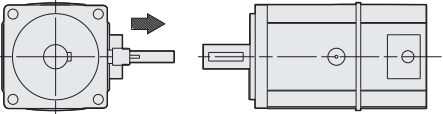
選配參考資料 - 指定馬達出線方向

Options-Selectable Motor Cable Leading Direction

適用規格 Applicable specs	依不同規格提供範例圖示 Provide motor cable leading direction example according to different specifications
ETB10 以上 ECB10 以上 MH 系列 MK 系列 MG 系列 ETB10 above ECB10 above MH series MK series MG series	 ※以ETB為圖例 ※ Using ETB as an example ※此範例無法搭配ML，會與滑台干涉 ※ This example cannot be used with ML, it will interfere with the slider

選配參考資料 - 指定馬達出線方向

Options-Selectable Motor Cable Leading Direction

代號 Code	說明 Instructions	示意圖 Diagram
MW	出線朝上 Motor cable leading direction upper side	
MM	出線朝下 Motor cable leading direction Bottom side	
ML	出線朝左 Motor cable leading direction Left side	
MR	出線朝右 Motor cable leading direction Right side	

※ 出線方向定義方式 1. 滑台水平放置 2. 面向馬達出力軸，判斷上、下、左、右

※ Definition method of the outlet direction 1. The slide table is placed horizontally 2. Face the motor output shaft, judge up, down, left and right

皮帶滑台 Belt type	馬達位置對應出線方向 Motor position corresponds to power cable direction															
	L				R				LU/RU				LD/RD			
適用系列 Applicable specs	MW	MR	MM	ML	MW	MR	MM	ML	MW	MR	MM	ML	MW	MR	MM	ML
ETB10 以上 ECB10 以上 MH / MK / MG	○	○	○	×	○	×	○	○	○	○	×	○	×	○	○	○

* 未指定出線方向時，以型錄圖示為主 *When the lead direction is not specified, follow the catalog diagram

應用例
Application一般 / 螺桿仕樣
GTH / GTV / ETH / Y一般 / 皮帶仕樣
ECB / M無塵 / 螺桿仕樣
GCH / ECH無塵 / 皮帶仕樣
ECB直交連結
XYGT / XTH / XYTB參考資料
Reference

選配參考資料 - 客戶供減速機

Options-Gear Box provided by customer

代號 Code	說明 Instructions
GC	減速機由客戶提供 (或客戶自行購買安裝) Gear Box provided by customer (or the customer purchases and installs it by himself)
適用規格 Applicable specs	減速機尺寸 Gearbox size
MG50	
MK65 MG65 MG85	
MK85 MK110	

* 此代號僅適用於 MK/MG (MH 不使用)

※ L 值為減速機長度，由客戶自行確認空間有無限制

※ 入力端尺寸依客戶選用馬達而異，此處不規範

※ 客供減速機尺寸需與以上規範尺寸相同，若有不同處需特注對應

* This code only applies to MK/MG (not used by MH).

※ L is the length of the reducer, and it is up to the customer to confirm whether the space is limited.

※ The size of the input end varies according to the motor selected by the customer, and it is not standardized here.

※ The size of the customer-supplied reducer must be the same as the above standard size, if there are any differences, special order should be made.