

亞標半密式螺杆驅動型 YSO 170

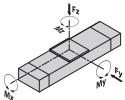
□ 訂購型號代碼 Code

YSO170	L10	500	4P	MS	DB	M40	P3	A001
本體型號 Item NO.	螺杆導程 Ball Screw Lead	行程 Stroke	直線導軌滑塊數量 Block Quantity	馬達方向 Motor Mounting Position	輔助滑塊 Auxiliary Guide	馬達廠牌、功率 Motor Brand, Power Output	限位傳感器數量 Photoelectric Sensor	特注式樣 Special Order No.
05 10 20 40	100~1250, 負荷 0~450	4P	MS: 馬達直接安裝 Straight Motor Mounting ML: 馬達左折安裝 Left Motor Mounting MR: 馬達右折安裝 Right Motor Mounting MD: 馬達下折安裝 Down Motor Mounting	±0.01	無	P 松下 Panasonic 10 ~ 2000W Y 安川 Yaskawa 40 400W D 台達 Delta 75 750W	P1: 1 尺 1PC P2: 2 尺 2PCS P3: 3 尺 3PCS 未搭電：否 NoMark/NoSensor	
						1K		

注：輔助滑塊選項相關參數參見樣本P122。



最大動態力和力矩 Max Permissible Forces And Torques

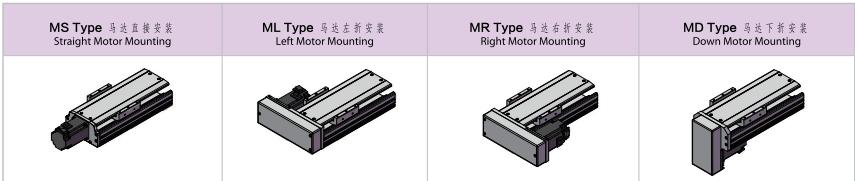


Type	4P
■ F(y) (N)	7463
■ F(z) (N)	7463
■ M(x) (N · m)	339
■ M(y) (N · m)	178
■ M(z) (N · m)	742

除了滿足最大負載和力矩外，還必須滿足以下公式：
All forces and torques relate to the following:

$$\frac{F_y}{F_y \max} + \frac{F_z}{F_z \max} + \frac{M_x}{M_x \max} + \frac{M_y}{M_y \max} + \frac{M_z}{M_z \max} \leq 1$$

馬達安裝方向 Motor Mounting Position Version



基本規格 Basic Specification

YSO170		4P(導軌滑塊數量) Block Quantity			
技術參數 Technical Parameters	位置重複精度 Repetitive Accuracy (mm)		±0.01		
	螺杆導程 Ball Screw Lead (mm)	5	10	20	40
	最高速度 Maximum Speed (mm/s)	250	500	1000	2000
	最大可搬重量 Maximum Payload (kg)	120	100	85	60
	定格推力 Rated Thrust (N)	2563	1281	640	320
基本規格 Basic Specification	最大空載扭距 Max. No-load Driving Torque (N · m)	0.1	0.12	0.16	0.2
	最大推重 Max. Driving Torque (N · m)	10.9	12.5	14	16
	標準行程 Stroke (mm)	100~1250 mm/ 50 Pitch			
	AC 伺服馬達容量 AC Servo Motor Output (W)	400 / 750			
	滾珠螺桿外徑 Ball Screw Diameter (mm)	Ø20 / Ø25			
Basic Specification	高剛性直線滑軌 Linear Guide (mm)	20# × 2 PCS			
	主機面積最大外形 Max. Outline of Main Engine/Cross Section (mm)	170 × 97			
原點感應器 Home Sensor		EE-SX672(NPN)			

#注1：行程超過850mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。

Note 1: When the stroke is more than 850 mm, resonance phenomena could come into being. So please refer to speed sheet on the drawing.

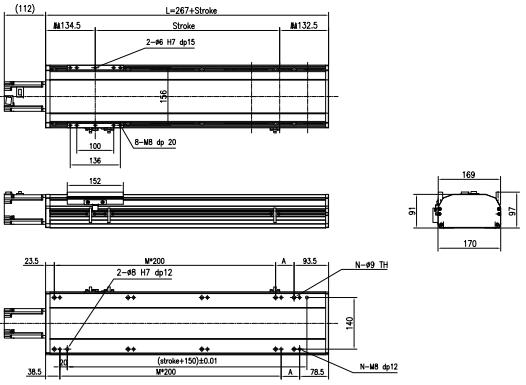
#注2：測定條件為無力矩的運動數據，根據力矩和加速度數據會相應改變，具體請參考選型軟件。

Note 2: Date changes relevantly according to different torque and accelerated speed. Please refer to the LIMON calculate software.

YSO 170 亞標半密式螺杆驅動型

Ball Screw Driven Linear Actuator

YSO170-4P-MS
馬達直接安裝 Straight Motor Mounting

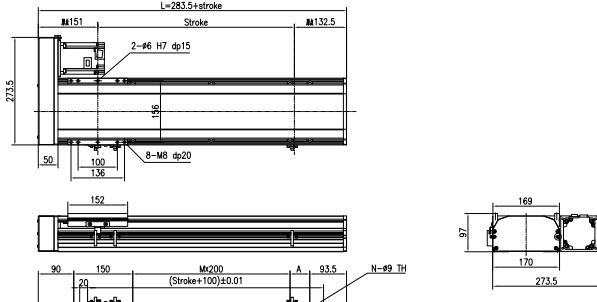


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6	6	6	6	6	
N	6	6	6	8	8	8	8	10	10	10	12	12	12	12	12	14	14	14	16	16	16	16	16	
重量 Weight (kg)	11.8	12.6	13.4	14.2	15	15.7	16.5	17.3	18.2	19	19.8	20.6	21.4	22.2	23	23.8	24.6	25.4	26.2	27	27.8	28.6	29.4	30.2
最高速度 Max speed (mm/sec)	Pitch 40						2000					1600	1500	1000	900									
Max speed (mm/sec)	Pitch 20						1000					800	650	500	450									
Max speed (mm/sec)	Pitch 10						500					400	325	250	225									
Max speed (mm/sec)	Pitch 05						250					200	162.5	125	112.5									

#注1：行程超過850mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。

Note 1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO170-4P-ML
馬達左折安裝 Left Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	1	1	1	2	2	2	2	3	3	3	4	4	4	4	5	5	5	5	5	
N	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	
重量 Weight (kg)	11.8	12.6	13.4	14.2	14.9	15.7	16.5	17.3	18.0	18.8	19.6	20.4	21.1	21.9	22.7	23.5	24.2	25.0	25.8	26.6	27.4	28.2	29.0	29.8
最高速度 Max speed (mm/sec)	Pitch 40						2000					1600	1500	1000	900									
Max speed (mm/sec)	Pitch 20						1000					800	650	500	450									
Max speed (mm/sec)	Pitch 10						500					400	325	250	225									
Max speed (mm/sec)	Pitch 05						250					200	162.5	125	112.5									

#注1：行程超過850mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。

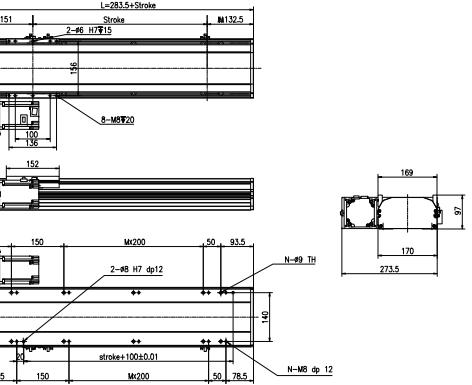
Note 1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO 170 亞標半密式螺杆驅動型

Ball Screw Driven Linear Actuator

YSO170-4P-MR

馬達右折安裝 Right Motor Mounting

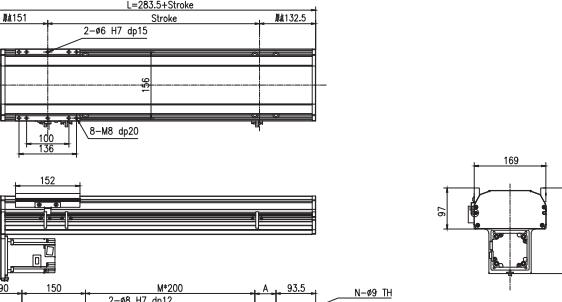


行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	1	1	1	2	2	2	2	3	3	3	4	4	4	4	5	5	5	5	5	
N	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	
重量 Weight (kg)	11.8	12.6	13.4	14.2	14.9	15.7	16.5	17.3	18.0	18.8	19.6	20.4	21.1	21.9	22.7	23.5	24.2	25.0	25.8	26.6	27.4	28.2	29.0	29.8
最高速度 Max speed (mm/sec)	Pitch 40						2000					1600	1500	1000	900									
Max speed (mm/sec)	Pitch 20						1000					800	650	500	450									
Max speed (mm/sec)	Pitch 10						500					400	325	250	225									
Max speed (mm/sec)	Pitch 05						250					200	162.5	125	112.5									

#注1：行程超過850mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。

Note 1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.

YSO170-4P-MD
馬達下折安裝 Down Motor Mounting



行程 Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	383.5	433.5	483.5	533.5	583.5	633.5	683.5	733.5	783.5	833.5	883.5	933.5	983.5	1033.5	1083.5	1133.5	1183.5	1233.5	1283.5	1333.5	1383.5	1433.5	1483.5	1533.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	1	1	1	2	2	2	2	3	3	3	4	4	4	4	5	5	5	5	5	
N	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	
重量 Weight (kg)	11.8	12.6	13.4	14.2	14.9	15.7	16.5	17.3	18.0	18.8	19.6	20.4	21.1	21.9	22.7	23.5	24.2	25.0	25.8	26.6	27.4	28.2	29.0	29.8
最高速度 Max speed (mm/sec)	Pitch 40						2000					1600	1500	1000	900									
Max speed (mm/sec)	Pitch 20						1000					800	650	500	450									
Max speed (mm/sec)	Pitch 10						500					400	325	250	225									
Max speed (mm/sec)	Pitch 05						250					200	162.5	125	112.5									

#注1：行程超過850mm時，可能會產生嚴重的共振現象，此時應參考圖紙下側表格所對應的速度。

Note 1: When the stroke is more than 850mm, the resonance phenomenon could come into being. So please refer to speed sheet on the drawing.