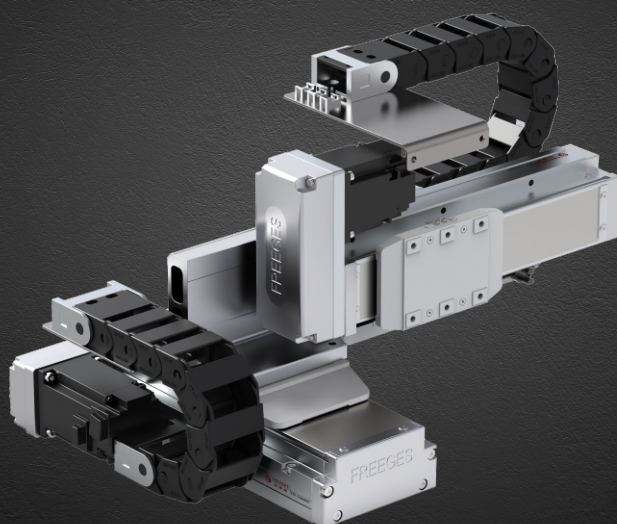


XYTH320-A

2軸
2-axis

軌道內嵌
Guide Built-in

螺桿驅動
Ball Screw Drive



此圖僅供參考，出貨規格詳見尺寸圖面

The picture is just for the reference. Please check the the actual dimensions on the drawing.

最大行程 Maximum Stroke

X軸
X axis

1100mm

Y軸
Y axis

500mm

最高速度 Maximum Speed

X軸
X axis

1000mm/s

Y軸
Y axis

500mm/s

AC 伺服馬達容量 AC Servo Motor Output

X軸
X axis

200W

Y軸
Y axis

100W

* 標準連結滑台不提供同動精度

Assembly accuracy is not guaranteed for the standard multi-axis system.

基本仕様 Specification

項目 Item	X軸 X axis	Y軸 Y axis
軸型式 Model Type	FTH80	FTH50
位置重複精度 Repeatability (mm)	±0.01	±0.01
螺桿導程 Ball Screw Lead (mm)	20	10
最高速度 Maximum Speed (mm/s) ※1	1000	500
標準行程 (50 間隔) Stroke 50 mm Pitch (mm)	50~1100	100~500
AC 伺服馬達容量 AC Servo Motor Output (w)	200	100
使用環境 Environment	0~40° C, 85% RH Below	

最大可搬重量 Maximum Payload

Y 軸行程 Y Stroke (mm)	100	150	200	250	300	350	400	450	500
Y 軸荷重 Y Payload (kg)	8.12	7.74	7.36	6.98	6.6	6.22	5.84	5.46	5

* 限定水平安裝。

Only for horizontal installation.

型號表示方式 Ordering Method

XYTH320 - A 1 - 300 - 300 - M - C - 0001

本體型號
Model

特注式樣

Customization Order No.

連結方式
Combination

A 懸臂型 Arm Type

組合方向

Combination Direction

1
2
3
4

X軸行程

X Stroke

50~1100mm

50間隔 50 mm Pitch

Y軸行程

Y Stroke

100~500mm

50間隔 50 mm Pitch

馬達廠牌

Motor Brand

M 三菱 Mitsubishi
P 松下 Panasonic
Y 安川 Yaskawa
T 台達 Delta

出貨方式

Delivery Method

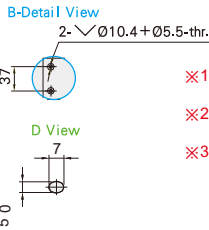
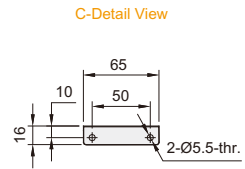
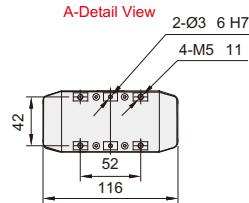
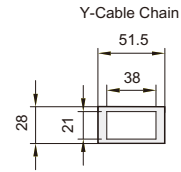
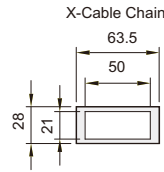
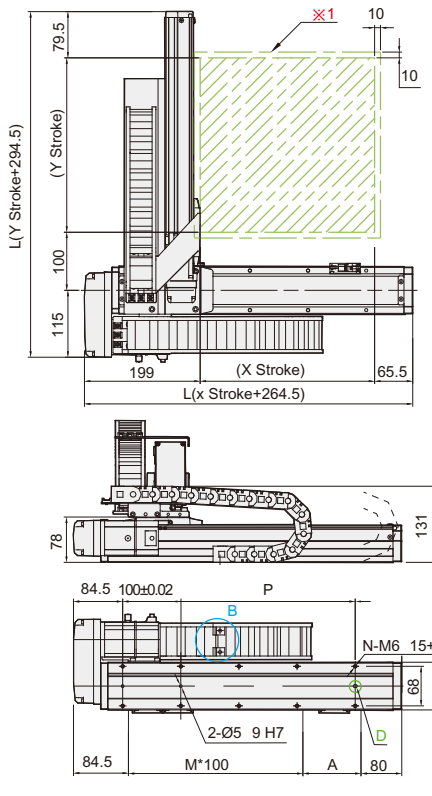
C 連結出貨 By Set
K 單軸出貨 By Kit

XYTH320-A1 尺寸圖 Size

A1

2D/3D CAD圖可至 www.fgsrobot.com 下載

單位 Unit : mm



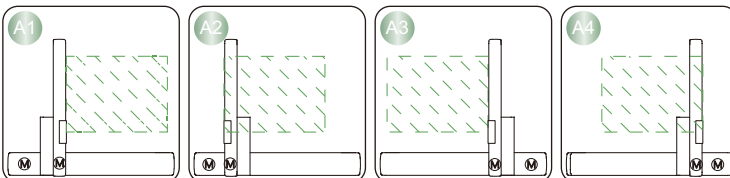
- ※1：原點回復時的移動範圍及機械極限的停止位置。
The moving range of returning origin, the stop position of mechanical limit.
 - ※2：最高速度 (mm/s) 是以伺服馬達最高轉速 3000rpm/min 為基準。
(Maximum speed is based on the AC servo motor's 3000 RPM.)
 - ※3：最高使用速度代表該行程內可使用的最高安全速度，若超過此速度，滑台可能會有嚴重共振產生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the standard speed, it may occur serious resonance.
- 軸帶活動端固定板由客戶自行連結。
Fixing plate for X axis moving end of cable chain need to be assembled by customers.
- * X 軸帶帶固定端固定板由客戶自行連結。
Fixing plate for Y axis moving end of cable chain need to be assembled by customers.

※4：行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

X 軸行程 X Stroke (mm)	50※4	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	100	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
最高使用速度 Max. Speed (mm/s)	1000															900	800	700	600	500	400	300

Y 軸行程 Y Stroke (mm)	100	150	200	250	300	350	400	450	500
H	394.5	444.5	494.5	544.5	594.5	644.5	694.5	744.5	794.5
最高使用速度 Max. Speed (mm/s)	500								

連結方向 Combination Direction



配件規格 Spec. Details

X 軸詳細規格 X-axis Detail Spec.	→ P259	Y 軸詳細規格 Y-axis Detail Spec.	→ P255
Z 軸詳細規格 Z-axis Detail Spec.	-	馬達廠牌選定 Motor Brand Options.	-

A1

履帶及履帶固定板 Cable Track and Fixing Plate for Track

*G 系列連結配件可單獨銷售 G Series Accessories Can Be Sold Separately.

	履帶使用規格 Specification of Cable	固定座使用規格 Specification of Fixing Plate	固定座使用數量 Quantity of Fixing Plate
X軸 X Axis	IGUS-1500.050.035.0- 節距 33.3 Pitch	15000.050.34PZ-A2(含活動端 + 固定端) Include moving end+fixing end	2
Y軸 Y Axis	IGUS-1500.038.048.0- 節距 33.3 Pitch	15000.038.34PZ-A2(含活動端 + 固定端) Include moving end+fixing end	2

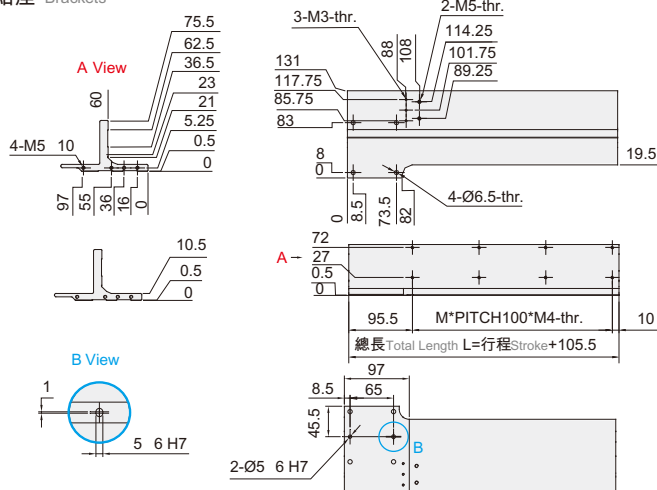
履帶使用節數數量 Quantity of Pitch Number for Cable Track

[illegible]

束線固定鈕規格 Fix Cable Button Specification

規格 Specification	15*10*7- 市購 Outsource	數量 Quantity	9
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連結座 Brackets



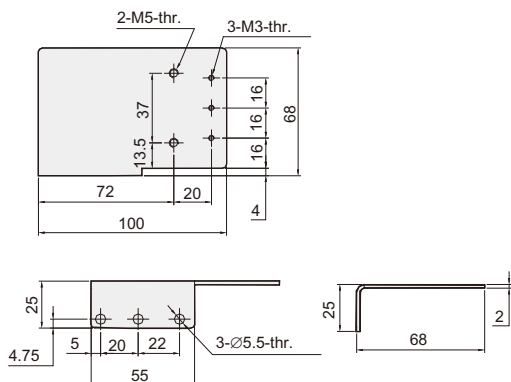
有效行程 Stroke	100	150	200	250	300	350	400	450	500
L	205.5	305.5		405.5		505.5		605.5	
M	1	2		3		4		5	

連結座各行程

Y 軸行程 Stroke of Y axis	規格 Specification
100	XYTH320-A1/A4- 行程 100- 長 205.5 XYTH320-A1/A4- Stroke 100-Length 205.5
150-200	XYTH320-A1/A4- 行程 150(200)- 長 305.5 XYTH320-A1/A4- Stroke 150(200)-Length 305.5
250-300	XYTH320-A1/A4- 行程 250(300)- 長 405.5 XYTH320-A1/A4- Stroke 250(300)-Length 405.5
350-400	XYTH320-A1/A4- 行程 350(400)- 長 505.5 XYTH320-A1/A4- Stroke 350(400)-Length 505.5
450-500	XYTH320-A1/A4- 行程 450(500)- 長 605.5 XYTH320-A1/A4- Stroke 450(500)-Length 605.5

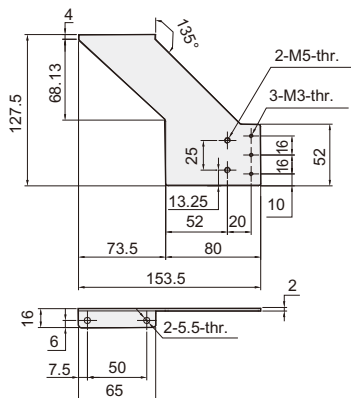
X 軸板金 Sheet Metal of X Axis

材質 Material : SUS304



Y 軸板金 Sheet Metal of Y Axis

材質 Material : SUS304

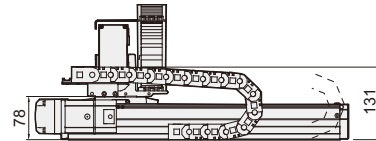
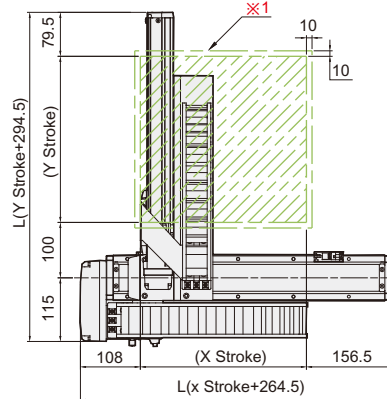
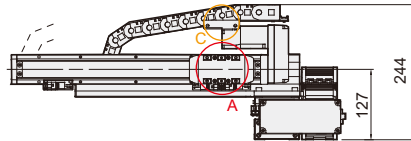
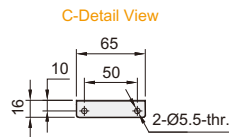
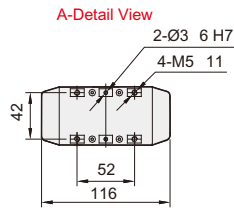
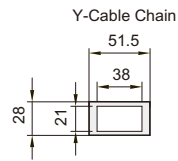
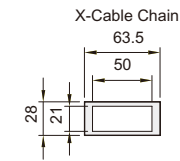


XYTH320-A2 尺寸圖 Size

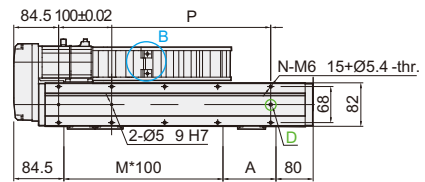
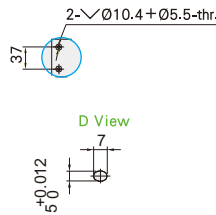
A2

2D/3D CAD圖可至 www.fgsrobot.com 下載

單位 Unit : mm



B-Detail View



※1：原點回復時的移動範圍及機械極限的停止位置。

The moving range of returning origin, the stop position of mechanical limit.

※2：最高速度 (mm/s) 是以伺服馬達最高轉速 3000rpm/min 為基準。
(Maximum speed is based on the AC servo motor's 3000 RPM.)

※3：最高使用速度代表該行程內可使用的最高安全速度，若超過此速度，滑台可能有嚴重共振產生。

Maximum speed refers to the highest safe speed that can be used in stroke, if more than the standard speed, it may occur serious resonance.

軸履帶活動端固定板由客戶自行連結。

Fixing plate for Y axis moving end of cable chain need to be assembled by customers.

* X 軸履帶固定端固定板由客戶自行連結。

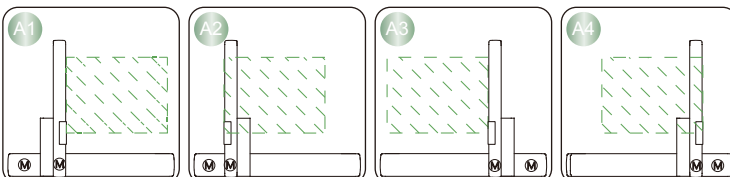
Fixing plate for X axis moving end of cable chain need to be assembled by customers.

※4：行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。

When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be used 4 screws to fix, as a result, suggest that fixing actuator body from the bottom to the top.

X 軸行程 X Stroke (mm)	50※4	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	100	1050	1100	
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5	
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	
最高使用速度 ※2※3 Max. Speed (mm/s)	1000															900	800	700	600	500	400	300	
Y 軸行程 Y Stroke (mm)	100	150	200	250	300	350	400	450	500														
H	394.5	444.5	494.5	544.5	594.5	644.5	694.5	744.5	794.5														
最高使用速度 Max. Speed (mm/s)	500																						

連結方向 Combination Direction



配件規格 Spec. Details

X 軸詳細規格 X-axis Detail Spec.	→ P259	Y 軸詳細規格 Y-axis Detail Spec.	→ P255
Z 軸詳細規格 Z-axis Detail Spec.	-	馬達廠牌選定 Motor Brand Options.	-

XYTH320-A2 尺寸圖 Size

A2

履帶及履帶固定板 Cable Track and Fixing Plate for Track

*G 系列連結配件可單獨銷售 G Series Accessories Can Be Sold Separately.

	履帶使用規格 Specification of Cable	固定座使用規格 Specification of Fixing Plate	固定座使用數量 Quantity of Fixing Plate
X軸 X Axis	IGUS-1500.050.035.0- 節距 33.3 Pitch	15000.050.34PZ-A2(含活動端 + 固定端) Include moving end+fixing end	2
Y軸 Y Axis	IGUS-1500.038.048.0- 節距 33.3 Pitch	15000.038.34PZ-A2(含活動端 + 固定端) Include moving end+fixing end	2

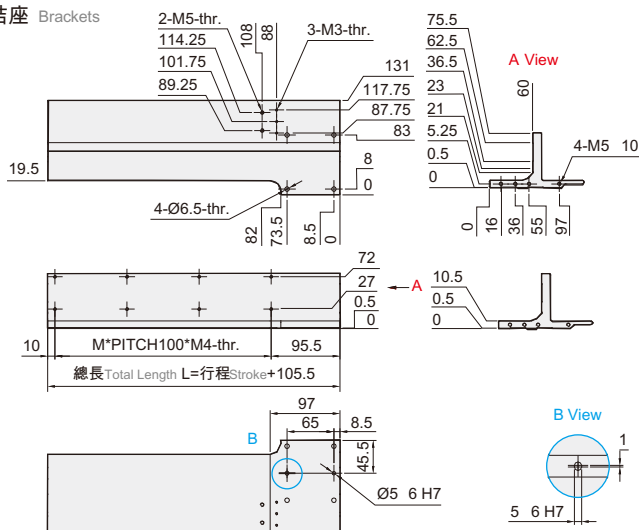
履帶使用節數數量 Quantity of Pitch Number for Cable Track

軸向 Axis	行程 Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
X 軸使用節數 Number For Pitch of X Axis		10	11	11	12	13	14	14	15	16	17	17	18	19	20	20	21	22	23	23	24	25	26
Y 軸使用節數 Number For Pitch of Y Axis			13	13	14	15	16	16	17	18	19												

束線固定鈕規格 Fix Cable Button Specification

規格 Specification	15*10*7- 市購 Outsource	數量 Quantity	9
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連結座 Brackets



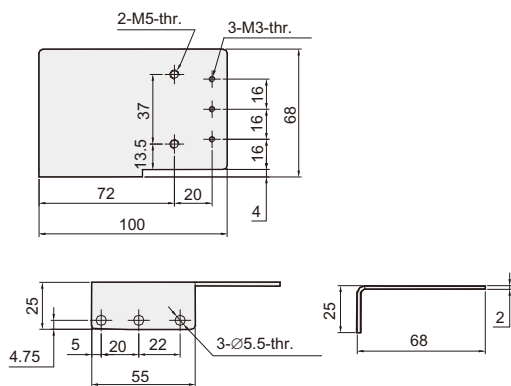
連結座各行程

Y 軸行程 Stroke of Y axis	規格 Specification
100	XYTH320-A2/A3- 行程 100- 長 205.5 XYTH320-A2/A3- Stroke 100-Length 205.5
150~200	XYTH320-A2/A3- 行程 150(200)- 長 305.5 XYTH320-A2/A3- Stroke 150(200)-Length 305.5
250~300	XYTH320-A2/A3- 行程 250(300)- 長 405.5 XYTH320-A2/A3- Stroke 250(300)-Length 405.5
350~400	XYTH320-A2/A3- 行程 350(400)- 長 505.5 XYTH320-A2/A3- Stroke 350(400)-Length 505.5
450~500	XYTH320-A2/A3- 行程 450(500)- 長 605.5 XYTH320-A2/A3- Stroke 450(500)-Length 605.5

有效行程 Stroke	100	150	200	250	300	350	400	450	500
L	205.5	305.5	405.5	505.5	605.5				
M	1	2	3	4	5				

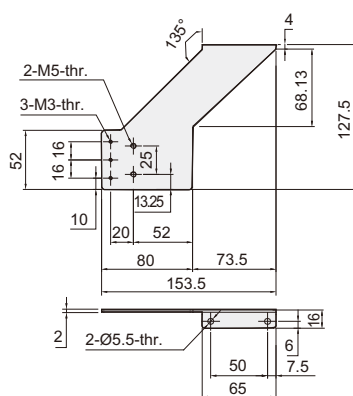
X 軸板金 Sheet Metal of X Axis

材質 Material : SUS304



Y 軸板金 Sheet Metal of Y Axis

材質 Material : SUS304

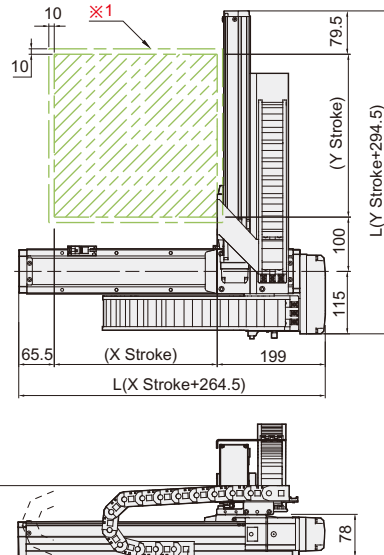
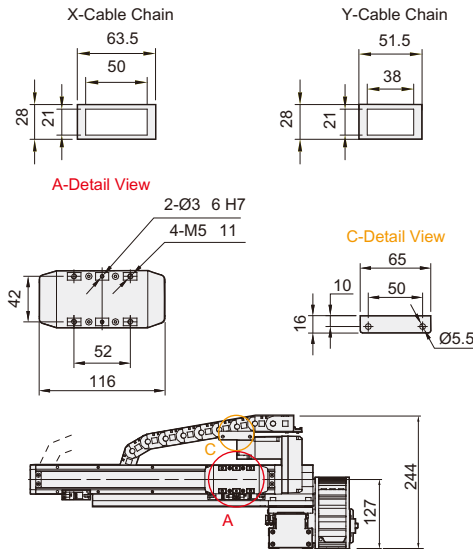


XYTH 320-A3 尺寸圖 Size

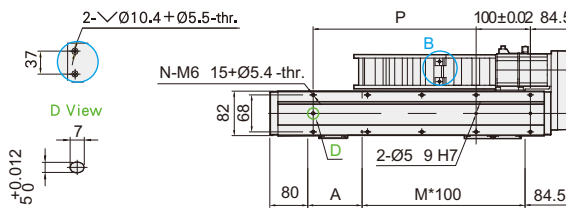
A3

2D/3D 圖可至 www.fgsrobot.com 下載

單位 Unit : mm



B-Detail View



※1: 原點回復時的移動範圍及機械極限的停止位置。

The moving range of returning origin, the stop position of mechanical limit.

※2: 最高速度 (mm/s) 是以伺服馬達最高轉速 3000rpm/min 為基準。
(Maximum speed is based on the AC servo motor's 3000 RPM.)

※3: 最高使用速度代表該行程內可使用的最高安全速度，若超過此速度，滑台可能有嚴重共振產生。
Maximum speed refers to the highest safe speed that can be used in stroke, if more than the standard speed, it may occur serious resonance.

軸履帶活動端固定板由客戶自行連結。

Fixing plate for Y axis moving end of cable chain need to be assembled by customers.

* X 軸履帶固定端固定板由客戶自行連結。

Fixing plate for X axis moving end of cable chain need to be assembled by customers.

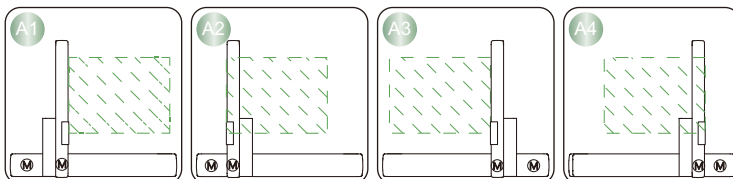
※4: 行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。

When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can use 4 screws to fix, as a result, suggest that fixing actuator body from the bottom to the top.

X 軸行程 X Stroke (mm)	50※4	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
最高使用速度 ※2※3 Max. Speed (mm/s)	1000															900	800	700	600	500	400	300

Y 軸行程 Y Stroke (mm)	100	150	200	250	300	350	400	450	500
H	394.5	444.5	494.5	544.5	594.5	644.5	694.5	744.5	794.5
最高使用速度 Max. Speed (mm/s)	500								

連結方向 Combination Direction



配件規格 Spec. Details

X 軸詳細規格 X-axis Detail Spec.	→ P259	Y 軸詳細規格 Y-axis Detail Spec.	→ P255
Z 軸詳細規格 Z-axis Detail Spec.	-	馬達廠牌選定 Motor Brand Options.	-

XYTH320-A3 尺寸圖 Size

A3

履帶及履帶固定板 Cable Track and Fixing Plate for Track

*G 系列連結配件可單獨銷售 G Series Accessories Can Be Sold Separately.

	履帶使用規格 Specification of Cable	固定座使用規格 Specification of Fixing Plate	固定座使用數量 Quantity of Fixing Plate
X軸 X Axis	IGUS-1500.050.035.0- 節距 33.3 Pitch	15000.050.34PZ-A2(含活動端 + 固定端) Include moving end+fixing end	2
Y軸 Y Axis	IGUS-1500.038.048.0- 節距 33.3 Pitch	15000.038.34PZ-A2(含活動端 + 固定端) Include moving end+fixing end	2

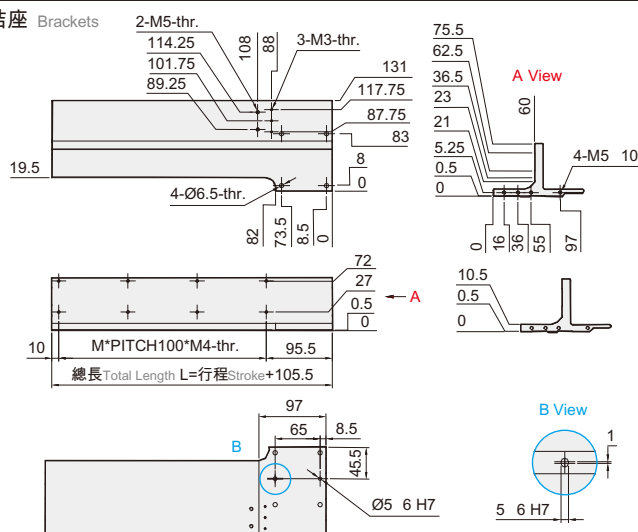
履帶使用節數數量 Quantity of Pitch Number for Cable Track

軸向 Axis	行程 Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
X 軸使用節數 Number For Pitch of X Axis		10	11	11	12	13	14	14	15	16	17	17	18	19	20	20	21	22	23	23	24	25	26
Y 軸使用節數 Number For Pitch of Y Axis			13	13	14	15	16	16	17	18	19												

束線固定鈕規格 Fix Cable Button Specification

規格 Specification	15*10*7- 市購 Outsource	數量 Quantity	9
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連結座 Brackets



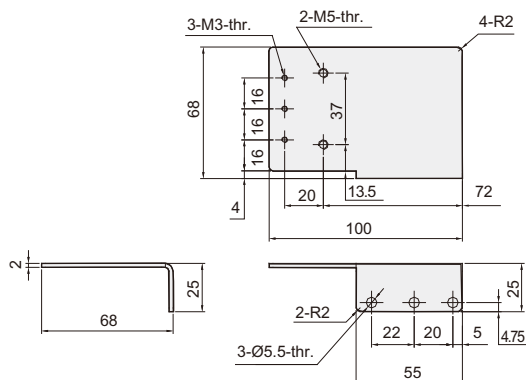
有效行程 Stroke	100	150	200	250	300	350	400	450	500
L	205.5	305.5	405.5	505.5	605.5				
M	1	2	3	4	5				

連結座各行程

Y 軸行程 Stroke of Y axis	規格 Specification
100	XYTH320-A2/A3- 行程 100- 長 205.5 XYTH320-A2/A3- Stroke 100-Length 205.5
150-200	XYTH320-A2/A3- 行程 150(200)- 長 305.5 XYTH320-A2/A3- Stroke 150(200)-Length 305.5
250-300	XYTH320-A2/A3- 行程 250(300)- 長 405.5 XYTH320-A2/A3- Stroke 250(300)-Length 405.5
350-400	XYTH320-A2/A3- 行程 350(400)- 長 505.5 XYTH320-A2/A3- Stroke 350(400)-Length 505.5
450-500	XYTH320-A2/A3- 行程 450(500)- 長 605.5 XYTH320-A2/A3- Stroke 450(500)-Length 605.5

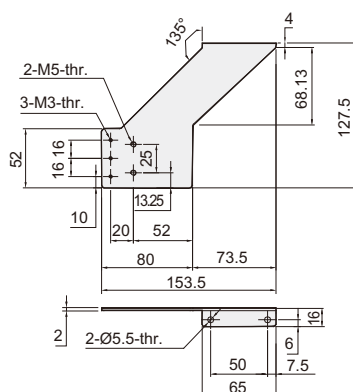
X 軸板金 Sheet Metal of X Axis

材質 Material : SUS304



Y 軸板金 Sheet Metal of Y Axis

材質 Material : SUS304

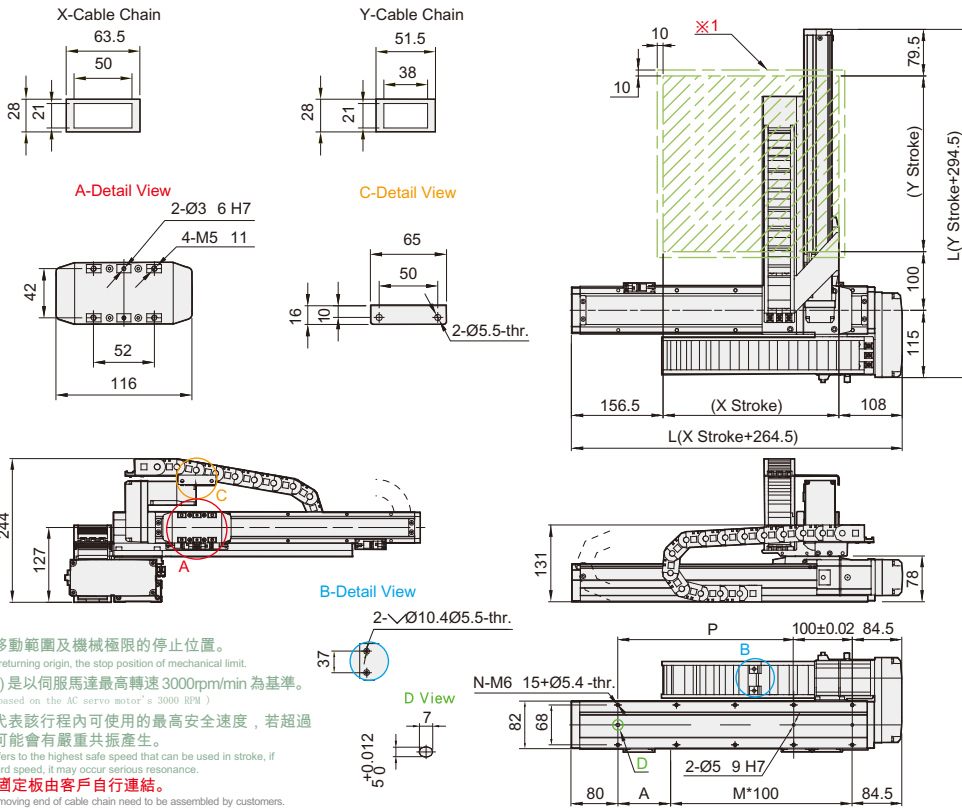


XYTH320-A4 尺寸圖 Size

A4

2D/3D CAD圖可至 www.fgsrobot.com 下載

單位 Unit : mm



※1：原點回復時的移動範圍及機械極限的停止位置。

The moving range of returning origin, the stop position of mechanical limit.

※2：最高速度 (mm/s) 是以伺服馬達最高轉速 3000rpm/min 為基準。
(Maximum speed is based on the AC servo motor's 3000 RPM.)

※3：最高使用速度代表該行程內可使用的最高安全速度，若超過此速度，滑台可能會有嚴重共振產生。
Maximum speed is refers to the highest safe speed that can be used in stroke, if more than the standard speed, it may occur serious resonance.

軸履帶活動端固定板由客戶自行連結。
Fixing plate for Y axis moving end of cable chain need to be assembled by customers.

* X 軸履帶固定端固定板由客戶自行連結。

Fixing plate for X axis moving end of cable chain need to be assembled by customers.

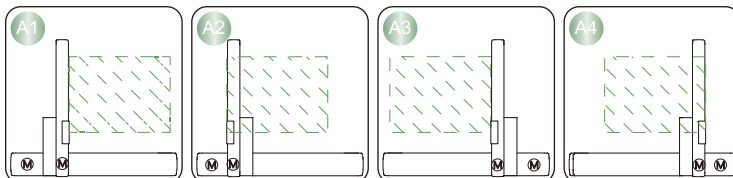
※4：行程 50 時，因本體上鎖式固定孔會被滑座遮住，僅能使用 4 支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。

When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix as a result, suggest that fixing actuator body from the bottom to the top.

X 軸行程 X Stroke (mm)	50※4	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	100	1050	1100	
L	314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5	1114.5	1164.5	1214.5	1264.5	1314.5	1364.5	
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	
P	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	
最高使用速度 ※2※3 Max. Speed (mm/s)	1000															900	800	700	600	500	400	300	
Y 軸行程 Y Stroke (mm)	100	150	200	250	300	350	400	450	500														
H	394.5	444.5	494.5	544.5	594.5	644.5	694.5	744.5	794.5														
最高使用速度 Max. Speed (mm/s)	500																						

連結方向 Combination Direction

配件規格 Spec. Details



X 軸詳細規格
X-axis Detail Spec. → P259

Y 軸詳細規格
Y-axis Detail Spec. → P255

Z 軸詳細規格
Z-axis Detail Spec. -

馬達廠牌選定
Motor Brand Options. -

