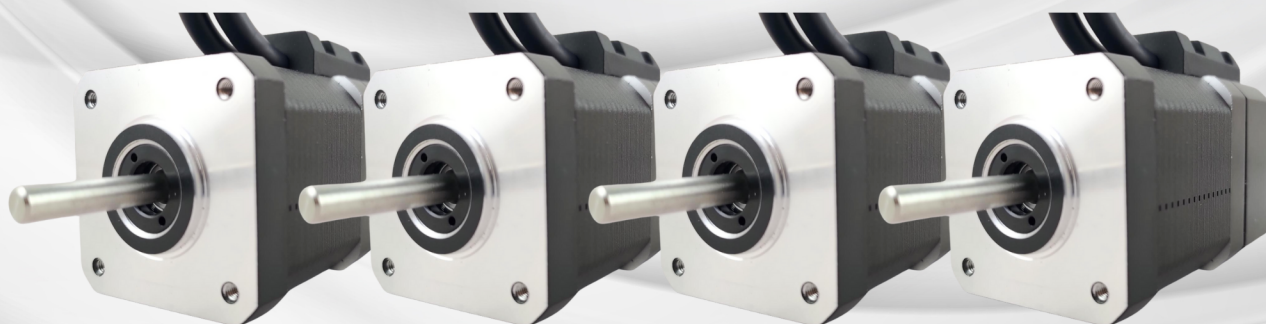




Taiwan Pulse Motion
Inspire New Automation

綜合產品型錄



EtherCAT®



Taiwan Pulse Motion
Inspire New Automation



ABOUT TAIWAN PULSE MOTION

專注自動化 · 領先技術 · 客製解決方案

成立於2009年，台灣脈動（TPM）是專注於 ETHERCAT® 與 MOTIONNET 運動控制的自動化解決方案供應商。我們提供包括 運動控制器(卡)、開閉環 微步驅動器、數位/類比 I/O、等完整產品線，並支援客製化設計，廣泛應用於工業自動化、機械製造、半導體設備、自動化檢測等領域。



創新研發

經驗豐富的專業研發團隊
擅長將創新技術導入實際應用



品質與服務

符合國際品質管理體系
提供完整的技術支援與售後服務



客製專案規劃

專屬軟硬體系統規劃
SDK 與 API 開發支援

產品解決方案



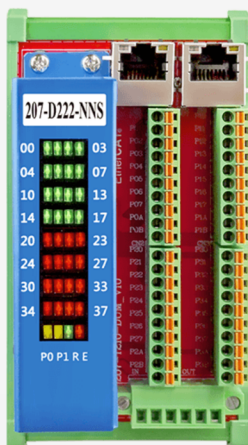
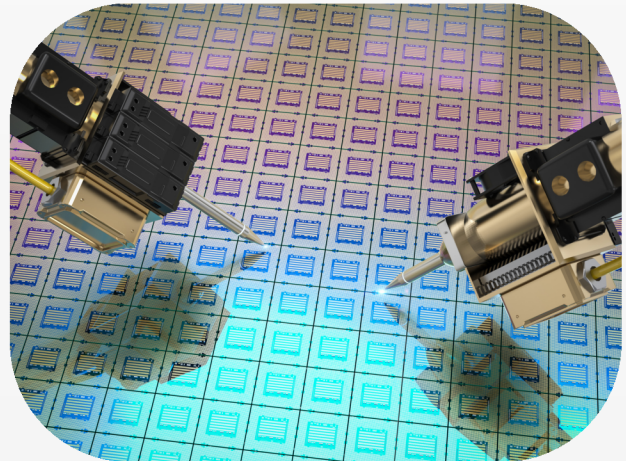
應用產業整合



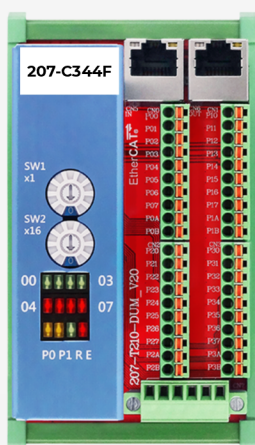
36軸運動控制器



開閉迴路 微步進驅動器



數位類比I/O



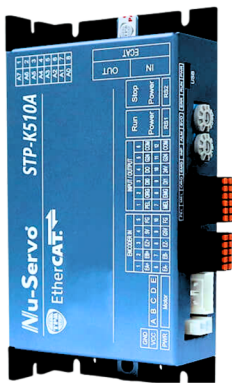
位置比較觸發



EtherCAT®

New Collection

運動控制套件組



5-Phase Series

Current: 0.75A~ 2.8A



3-Axis Edition

Current 1.4 A/Axis



4-Axis Edition

Current 1.4A/Axis



Taiwan Pulse Motion
Inspire New Automation

運動控制器



- 多軸控制選項 | 6、12、18、24、30、36 軸
- 跨平台相容性 | 支援 Windows 與 Linux，輕鬆整合
- 強大程式開發能力 | 支援 C/C++ 與 C# 開發支援環境
- 彈性通訊介面 | 支援標準 Ethernet 與 RS485 通訊介面，不占用IPC插槽

編碼器輸入：2通道，32位元 EA/EB 編碼器輸入
CW/CCW 與 PULSE/DIR 模式 4MHz Max
4xAB 相位模式 9.8MHz Max

鎖存輸入：2通道，每通道 1024 點，頻率 10KHz
觸發輸出：2通道，差分訊號

觸發模式

自動觸發：最大觸發頻率 1MHz，無限次觸發數
表格觸發：(Table Trigger) 可配置 4096 點Max
切換觸發：(Toggle Trigger) 可配置最多 4096 點Maxx



5相 步進驅動器



	STP-K51xA (x=0,1,2)	STP-K5231A	STP-K5241A
Axis No	1	3	4
DC	0.5/1/2/4 ms	0.5/1/2/4 ms	0.5/1/2/4 ms
Current	0.75A, 1.4A, 2.8A	1.4A Max	1.4A Max
CiA402 Profile	PP/CSP/Home	PP/CSP/Home	PP/CSP/Home
Homing Mode	EL, ORG and EZ	EL, ORG and EZ	EL, ORG and EZ
Address	8 bit SW or EEPROM	8 bit SW or EEPROM	8 bit SW or EEPROM
Machine IO	PEL, MEL, ORG, EMG	PEL, MEL, ORG, EMG	PEL, MEL, ORG, EMG
General IO	2xDI, 1xDO(BRK)	3xDI, 3xDO(BRK)	4xDI, 4xDO(BRK)
USB Tool	MyDrive	MyDrive	MyDrive

★ 模組化多軸驅動器設計

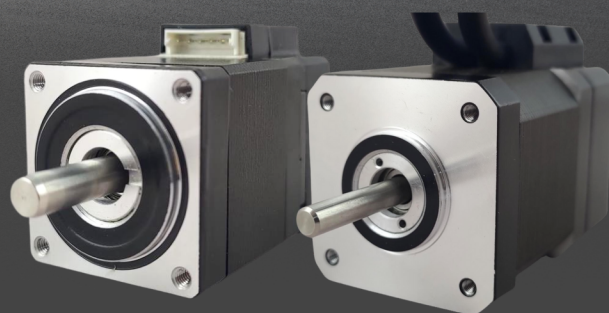
★ 損壞一軸可單獨更換

★ 極致平順的微步控制

★ 高轉矩輸出穩定性



5相 步進馬達

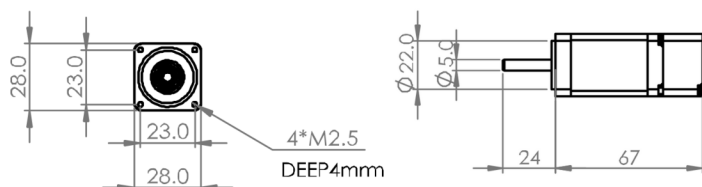


5相步進馬達 Series

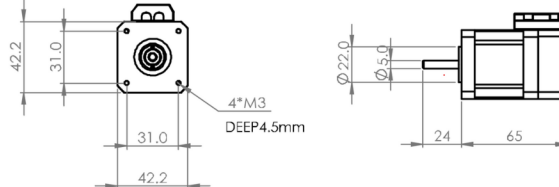
NEMA 11 & NEMA 17

★ 低振動、低噪音設計

PH5-28S-D01C



PH5-42L-D10C



5 Phase	Unit	PH5-28S-D01C	PH5-42L-D10C
Length	L-mm	46	68
Current	A/Ø	1.2	0.75
Resistance	Ω/Ø	0.56	1.9
Inductance	mH/Ø	1.8	1.6
Holding Torque	N.M	0.05	0.24
Rotor Inertia	g.cm2	9	68
Encoder	PPR	ABZ, 4000	ABZ, 10000





2相 步進驅動器

微步進驅動器及步進馬達選擇表

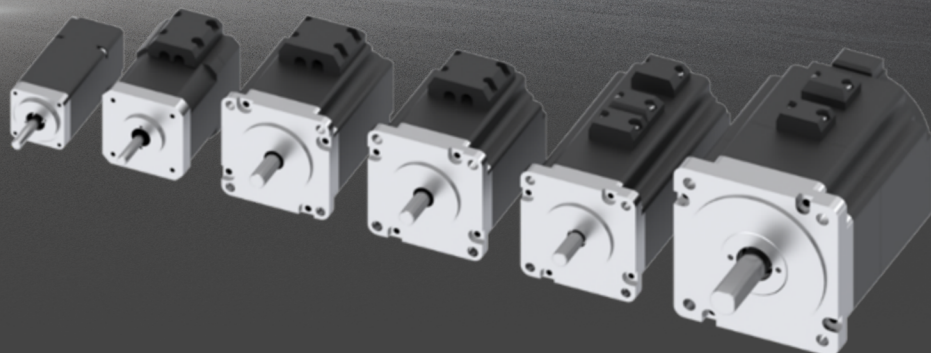
Model	STP-K111A	STP-K112A	STP-K221A	STP-K2231A	STP-K2241A	SVR-K2312
Axis Number	1	1	2	3	4	1
Control Type	Open-loop	Open-loop	Open-loop	Open-loop	Open-loop	Closed-loop
Max Driving Current	2.8A	4.2A	2.1A	1.5A	1.5A	4.2A

	PH2-28M-D01	PH2-42L-D01	PH2-42L-D01C	PH2-42L-D10C	PH2-56M-D01	PH2-60M-D01	PH2-60M-D01C-B	PH2-86M-D01C-B
Open-loop 1-Axis Drive	STP-K111A	STP-K111A	STP-K111A	STP-K111A	STP-K112A	STP-K112A	STP-K112A	STP-K11A
Open-loop 2-Axis Drive	STP-K221A	STP-K221A	STP-K221A	STP-K221A	-	-	-	-
Open-loop 3-Axis Drive	STP-K2231A	STP-K2231A	STP-K2231A	STP-K2231A	-	-	-	-
Open-loop 4-Axis Drive	STP-K2241A	STP-K2241A	STP-K2241A	STP-K2241A	-	-	-	-
Closed-loop 1-Axis Drive	SVR-K2312	SVR-K2312	SVR-K2312	SVR-K2312	SVR-K2312	SVR-K2312	SVR-K2312	SVR-K2312

EtherCAT®

New Collection

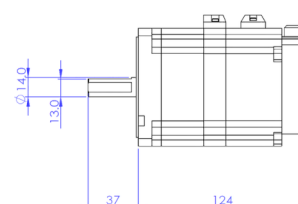
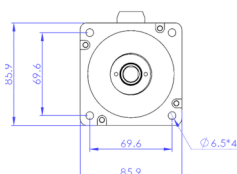
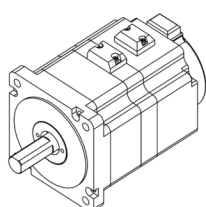
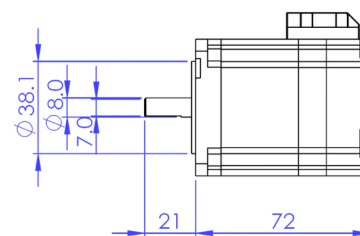
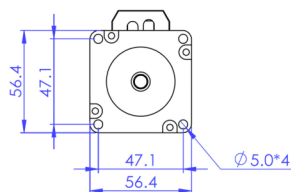
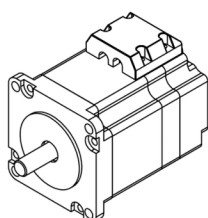
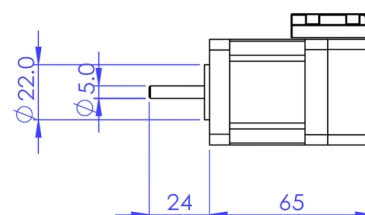
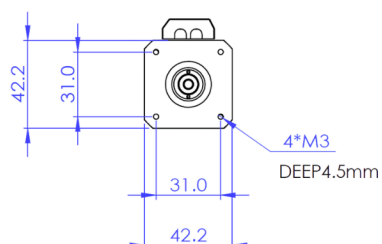
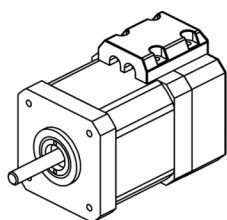
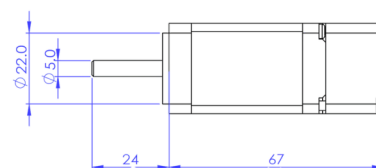
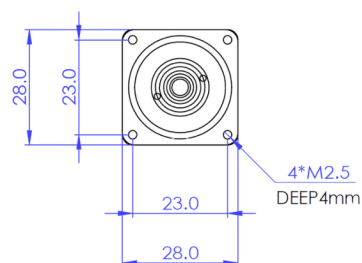
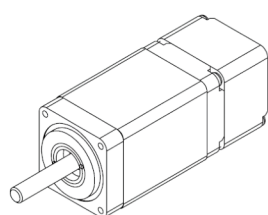
2相 步進馬達



2相步進馬達

Series

NEMA 11 / NEMA 17 / NEMA 23 / NEMA 24 / NEMA 34

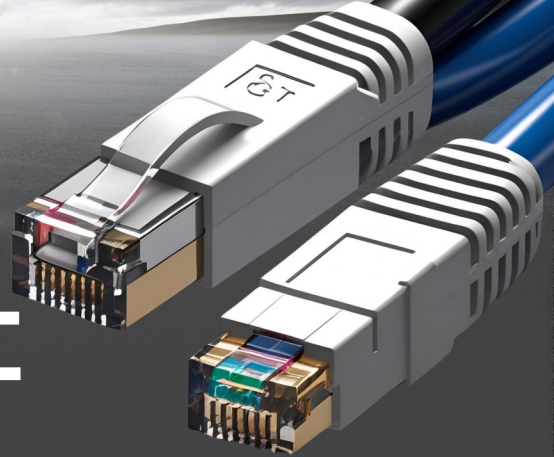


Taiwan Pulse Motion
Inspire New Automation

EtherCAT®

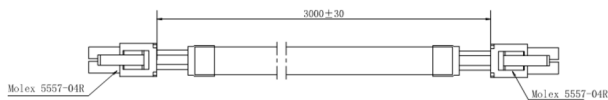
New Collection

步進馬達配件

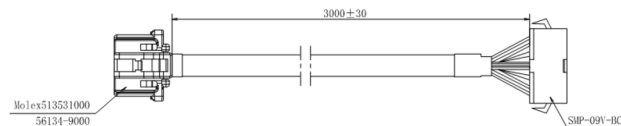


2相步進馬達 線材

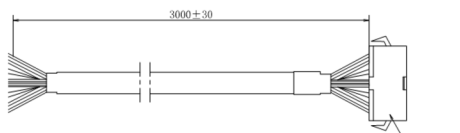
SVR/STP2 Motor Flex Cable – Motor Connection
Apply to STP-K111A, STP-K112A, STP-K221A, STP-K2241A, SVR-K2312



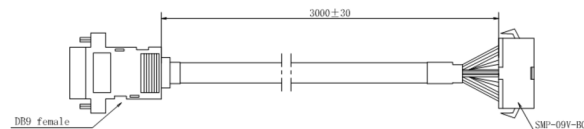
SVR2 Encoder Flex2 Cable – Encoder Connection
Apply to SVR-K2312



STP2 Encoder Flex Cable (Open) – Encoder Connection
Apply to STP-K2231A, STP-K2241A

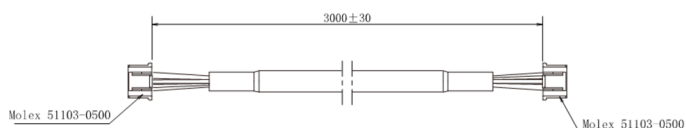


SVR2 Encoder Flex Cable (DB9) – Encoder Connection
Apply to STP-K111A, STP-K112A, STP-K221A

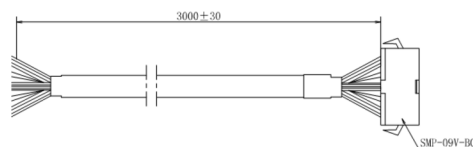


5相步進馬達 線材

STP5 Motor Flex Cable – Motor Connection

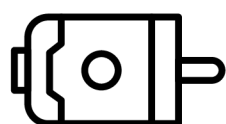


STP5 Encoder Flex Cable (Open) – Encoder Connection



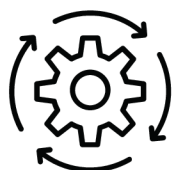
Taiwan Pulse Motion
Inspire New Automation

精準定位 · 智能補償



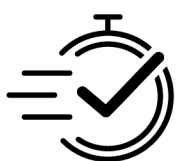
全閉迴路控制

實現即時失步補償，大幅提升定位準確性與系統穩定度



相容外部光學尺（支援增量型）

可導入機構實際移動位置回授，全閉迴路控制
大幅降低定位誤差，滿足高精度需求。



高速運動穩定性，飛拍精準取像

抑制震動與位置偏移，確保相機於運動中穩定完成飛拍取像
大幅提升檢測效率與重複精度



Taiwan Pulse Motion
Inspire New Automation

台灣脈動股份有限公司



+886-4-2491-0836



+886-4-2491-0835



<https://www.tpm-pac.com>



台中市大里區科技路168號3F (軟體園區)