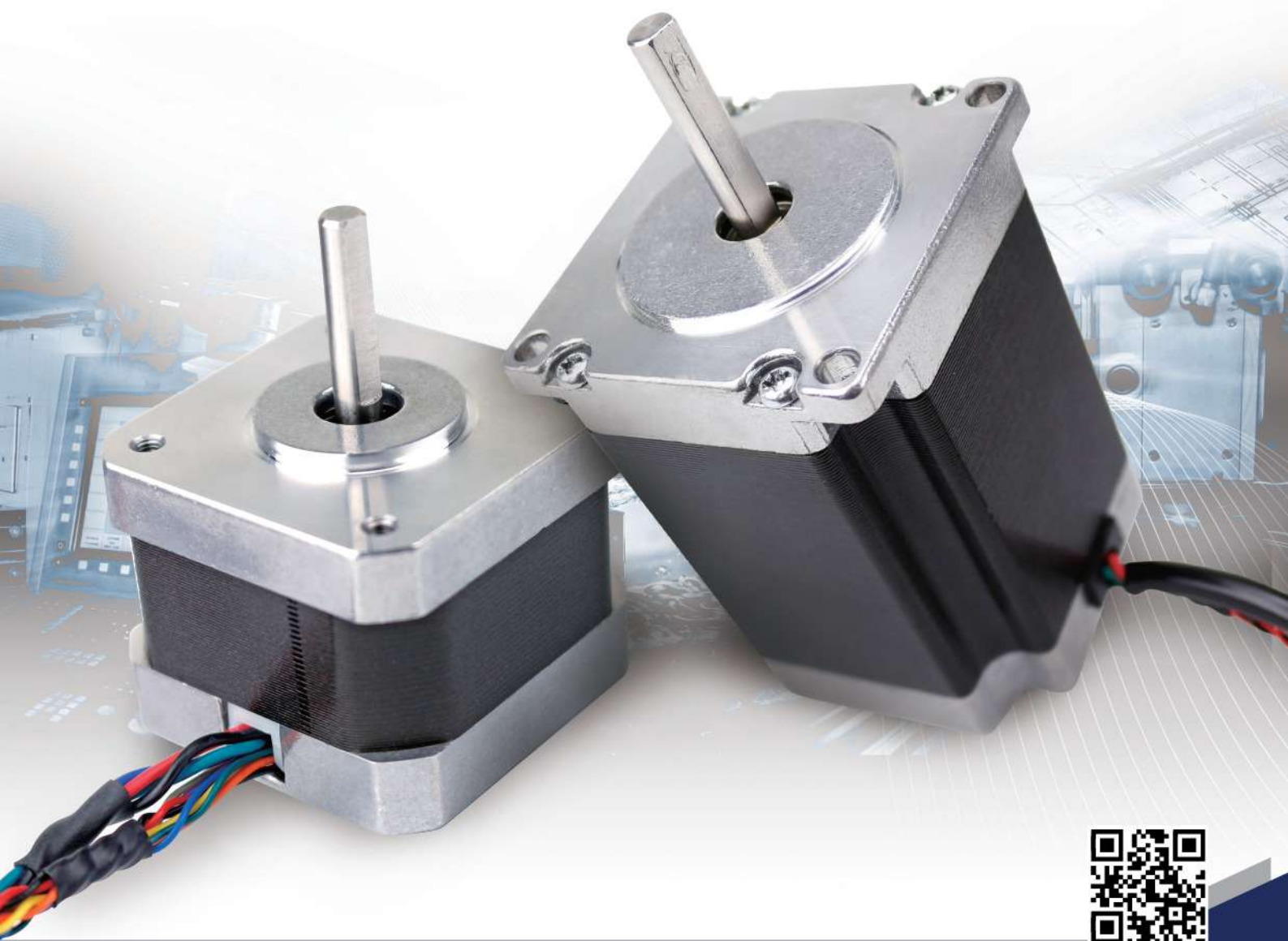


A background image of a CNC machine in operation, with a metal drill bit cutting into a workpiece, creating a spray of metal chips. A computer monitor in the background displays a 3D model of the part being machined.

BEST STEP

ENCODER IN STEP





86STEP

ENCODER IN STEP

About 86STEP | 關於86STEP

86STEP 是一款具高經濟效益的步進馬達，內建光學編碼器以直接監測馬達轉子的位置。透過編碼器的回饋機制，實現閉迴路控制，既保留了步進馬達的優勢，又有效避免失步問題。此特性特別適用於需要位置驗證與位置維護的應用裝置，能顯著提升系統的安全性與可靠性。

Features | 特點

失步檢測

位置驗證

精準歸位

具步進優勢的閉迴路控制

86STEP

ENCODER IN STEP



Key Specifications | 主要技術參數



混合步進馬達



內置編碼器，解析度 8,192 ppr 至 16,384 ppr



耐用設計



適合多種應用

Application Examples | 應用實例



CNC 加工機



積層製造



自動化



點膠設備



醫療器材



絕對位置



86STEP

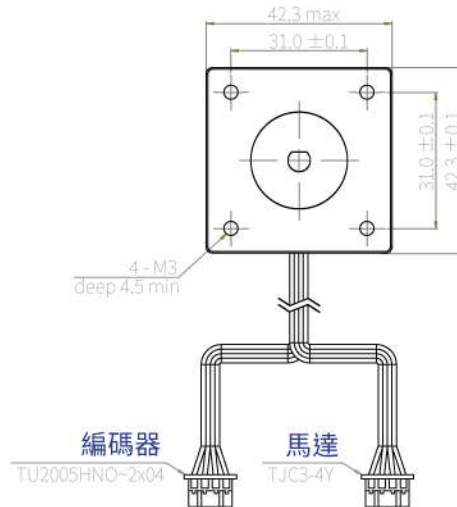
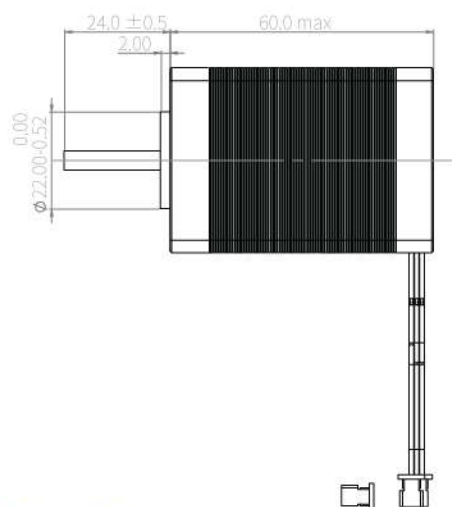
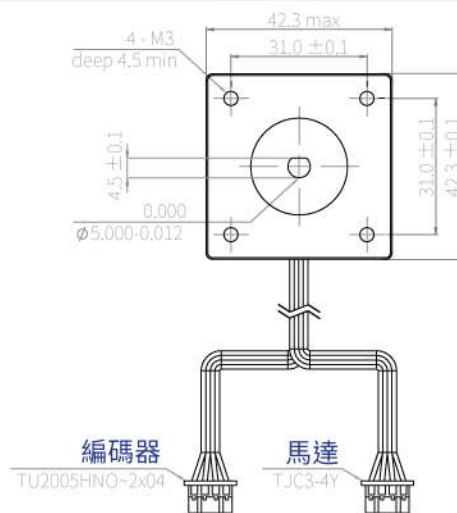
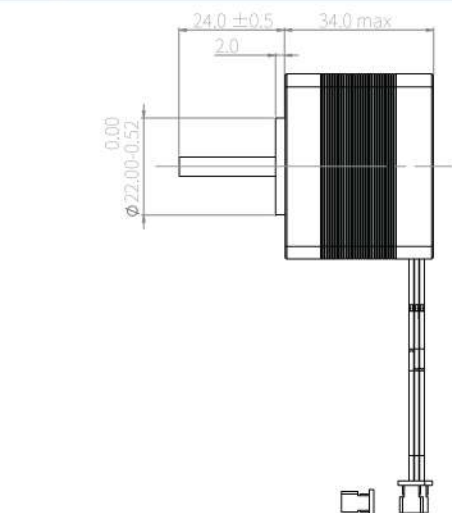
ENCODER IN STEP

42 mm sq.

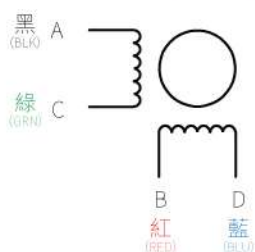
423409 : 34mm

426009 : 60mm

Part number	Holding torque	Step angle	Detent torque	Rated Current	Phase resistance	Phase inductance	Insulation resistance	Rotor inertia	Weight
86STEP-423409	280mN.m	0.9°	12mN.m	0.75A	10 Ω±10%	15mH±20%	100MQmin. (500V DC)	39g.cm ²	0.2 kg
86STEP-426009	860mN.m	0.9°	20mN.m	1.50A	3.5 Ω±10%	9mH±20%	100MQmin. (500V DC)	102g.cm ²	0.45 kg



接線圖 | Wiring Diagram

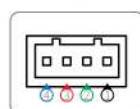


編碼器



Conn1 PIN#	1	2	3	4	5	6	7	8
FUN	A+	A-	B+	B-	Z+	Z-	VCC	GND
Color	Orange	Yellow	Green	Blue	Purple	Grey	Red	Black

馬達



Conn1 PIN#	1	2	3	4
FUN	A	C	B	D
Color	Black	Green	Red	Blue

Uni-Polarfull步驟

激勵順序和旋轉方向

PHASE STEP	A	B	C	D
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+

從安裝面看，順時針

86STEP

ENCODER IN STEP

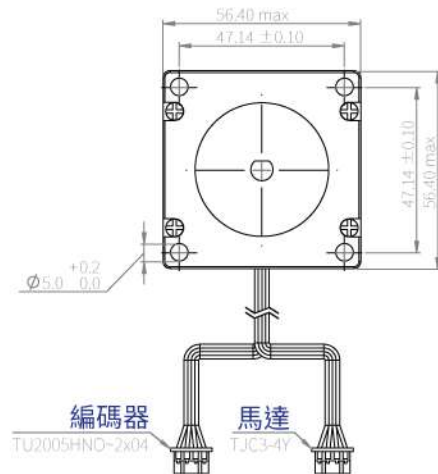
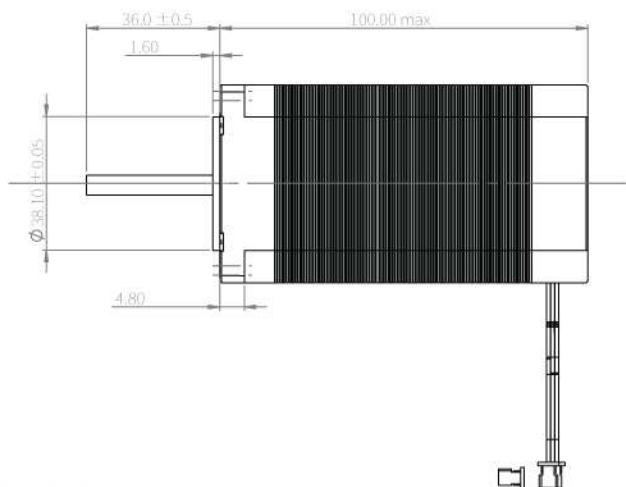
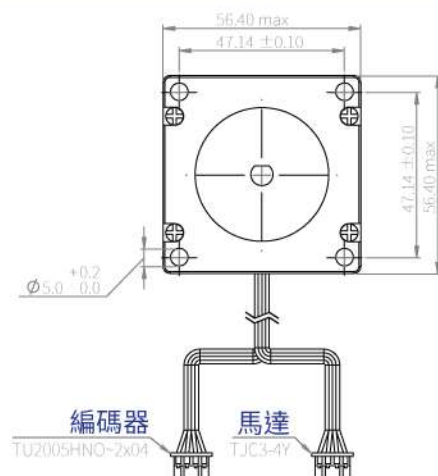
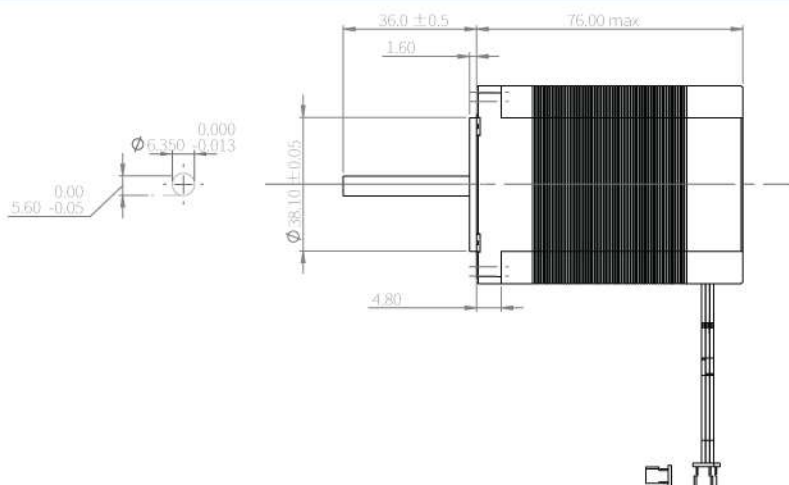
57 mm sq.

577609 : 76mm

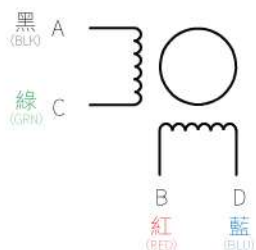
5710009 : 100mm



Part number	Holding torque	Step angle	Detent torque	Rated Current	Phase resistance	Phase inductance	Insulation resistance	Rotor inertia	Weight
86STEP-577609	1800mN.m	0.9°	70mN.m	3.0A	2.0Ω±10%	10mH±20%	100MΩmin. (500V DC)	460g.cm ²	1.0 kg
86STEP-5710009	2400mN.m	0.9°	100mN.m	4.2A	0.75Ω±10%	2.8mH±20%	100MΩmin. (500V DC)	650g.cm ²	1.3 kg



接線圖 | Wiring Diagram

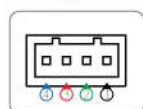


編碼器



Conn1 PIN#	1	2	3	4	5	6	7	8
FUN	A+	A-	B+	B-	Z+	Z-	VCC	GND
Color	Orange	Yellow	Green	Blue	Purple	Grey	Red	Black

馬達



Conn1 PIN#	1	2	3	4
FUN	A	C	B	D
Color	Black	Green	Red	Blue

Uni-Polarfull步驟

激勵順序和旋轉方向

STEP	PHASE	A	B	C	D
1		+	+	-	-
2		-	+	+	-
3		-	-	+	+
4		+	-	-	+

從安裝面看，順時針



86STEP

ENCODER IN STEP



DMP

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