



SINCE 1975  
**Comos**<sup>®</sup>

技友牌工業級電動起子

PROFESSIONAL  
INDUSTRY  
TORQUE-CONTROL  
ELECTRIC SCREWDRIVER

**AC-BL** Series  
AC直插無碳刷  
Brushless  
Direct Plug-In 110V/220V

**AC** Series  
Direct Plug-In 110V/220V

**X** Series  
Direct Plug-In 110V/220V

**A** Series  
Direct Plug-In 110V/220V

**S** Series  
Direct Plug-In 110V/220V

**RE/F** Series  
DC 30V

**RE/F-BL** Series  
Brushless Motor Series

**CY-D** Series  
DC 30V

**T**raditional / **V**acuum Series



9001

*Patent*

榮獲世界專利  
Had passed through and  
got the patent certificates from

Taiwan  
台灣專利

Korea  
韓國專利

Italy  
義大利專利

Germany  
德國專利

U.S.A.  
美國專利



台灣第一家工業級電動起子製造廠

## 扭力對照表 Torque Reference Chart

無碳刷馬達  
Brushless

碳刷馬達  
Carbon Brush

類別 TYPE	型號 MODEL	扭力範圍 OUTPUT TORQUE (kgf-cm)											建議適用螺絲(mm) APPLICATION SCREW
		0	5	10	15	20	25	30	35	40	45	50	
直接插電 無碳刷式 Direct Plug-In Brushless 110V/220V	AC-115BL / AC-215BL	[Bar from 0 to 15]											2.0-3.5
	AC-125BL / AC-225BL	[Bar from 0 to 25]											2.6-4.0
	AC-135BL / AC-235BL	[Bar from 5 to 35]											3.0-5.0
	AC-145BL / AC-245BL	[Bar from 15 to 45]											3.0-5.5
低壓直流 無碳刷式 DC 30V  Brushless Torque Control type DC 30V	F-31BL / F-31BLL	[Bar from 0 to 1]											<2.0
	F-33BL	[Bar from 0 to 2]											<2.0
	F-35BL	[Bar from 0 to 3]											<2.6
	F-603BL	[Bar from 0 to 2]											<2.0
	F-607BL	[Bar from 0 to 10]											1.0-3.0
	RE-612BL	[Bar from 0 to 15]											1.7-3.5
	RE-618BL	[Bar from 0 to 20]											1.7-4.0
	RE-625BL	[Bar from 0 to 25]											2.0-5.0
	RE-630BL	[Bar from 0 to 30]											2.0-5.0
	直接插電 110V/220  Direct Plug-In 110V/220V	AC-12A/12S *	[Bar from 0 to 10]										
AC-18A/18S *		[Bar from 0 to 20]											1.7-3.5
AC-1110/2210		[Bar from 0 to 20]											2.0-3.0
AC-1120/2220(HS)		[Bar from 0 to 20]											2.6-4.0
AC-1130/2230		[Bar from 0 to 30]											3.0-5.0
AC-1155/2255		[Bar from 0 to 55]											3.0-6.0
AC-1120S/2220S/20S *		[Bar from 0 to 20]											2.0-4.5
X-1115/2215		[Bar from 0 to 15]											1.7-4.0
X-1125/2225		[Bar from 0 to 20]											1.7-5.0
低壓直流 DC 30V  Torque Control type DC 30V		F-3000/4300SS/43DS	[Bar from 0 to 2]										
	F-3500	[Bar from 0 to 3]											<2.6
	F-4000/40D	[Bar from 0 to 10]											1.0-3.0
	F-4300/43D	[Bar from 0 to 10]											1.7-3.0
	RE-4500/45D	[Bar from 0 to 10]											1.7-3.5
	RE-4800/48D	[Bar from 0 to 15]											1.7-4.0
	RE-4500P	[Bar from 0 to 20]											2.0-5.0
	RE-4800P	[Bar from 0 to 15]											2.0-6.0
	RE-5000	[Bar from 0 to 20]											2.0-5.0
	CY-16C/16D	[Bar from 0 to 20]											2.0-6.0
	CY-26C/26D	[Bar from 0 to 30]											2.0-5.0
	CY-16CP	[Bar from 0 to 25]											2.0-6.0
	CY-26CP	[Bar from 0 to 35]											1.0-2.0
	KS-2500 ▲	[Bar from 0 to 2]											2.6-3.0
	KM-800 ▲	[Bar from 0 to 3]											2.0-3.0
	CY-56L ▲	[Bar from 0 to 5]											2.0-3.0
	CY-66L ▲	[Bar from 0 to 20]											2.6-4.0
	CY-76L ▲	[Bar from 0 to 35]											2.0-5.0
V-3000 ▲	[Bar from 0 to 1]											<2.0	

備註: 1. \* 為半自動電動起子, ▲ 為傳統式電動起子, 其餘均為全自動式電動起子。  
2. 1.0kgf-cm = 0.098Nms 1.0kgf-cm = 0.868 lbf-in  
3. 轉速 (R.P.M.) 會因輸入電壓的高低而有所變化。  
4. 如有其他本型錄未列出規格需要, 本公司可針對不同需求訂製。

Remarks: 1. \* Means semiautomatic, ▲ Electric torque control type, the others are automatic clutch torque control type.  
2. 1.0kgf-cm = 0.098Nms 1.0kgf-cm = 0.868 lbf-in  
3. R.P.M. might be varied by input voltage.  
4. Special model is also available as request.

Comos® 技友

# AC-BL series

## 直接插電全自動無碳刷電動起子AC-BL系列 Direct Plug-In 110/220V Full Automatic Clutch Brushless Electric Screwdriver AC-BL Series

- 技術領先業界，直接插電高壓無偵測器無碳刷高精度內轉馬達多功能全自動扭力電動起子。
- 不需搭配DC電源，即插即用，極具高穩定、低溫升特點，適合長時間精密操作。
- 內建6段速控，可直接依產品別選擇1000rpm/700rpm/400rpm及1000rpm(緩啟動)/700rpm(緩啟動)/400rpm(緩啟動)，一機可適用多種產品。
- 可連接PLC直接外部控制啟動，適合自動化設備使用(選配機種)。
- 最高扭力可達45kgf·cm，電動起子本體外徑僅34.0mm，體積小，輸出扭力大。
- 完全免除碳刷磨損困擾及耗材更換問題，可用於無塵室。
- 黃金接點專利耐衝擊利車觸發開關，無使用壽命問題(專利第52686號)。
- 專利緩衝裝置整合新式離合器，具有低衝擊、高精度特點(專利第35465號)。
- 漸段式扭力調整，系列機種涵蓋扭力輸出範圍更廣，足以應付多樣需求。
- 極簡絕佳的外觀手感，長時間操作不疲勞。

AC110V/AC220V Direct plug-in sensorless(no sensor) brushless of high-precision internal rotation motor & Multi-functional Electric Screwdriver.

Plug-and-use without DC power supply, high stability, and low temperature rise characteristics, for long-precision operation.

Six rotation speed: 1000rpm / 700rpm / 400rpm and 1000rpm (softstart) / 700rpm (soft-start)/400rpm(softstart). It can be applied to various products.

Can be used with Programmable logic controller (PLC) and operate via external control unit. It's suitable for automatic equipments (optional model).

Maximum torque can be reach to 45kgfcm. The outer diameter is only 34.0mm, small size, and high output torque.

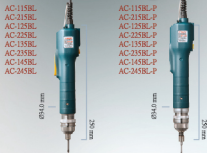
Free from the troubles of carbon brush dust and supplies replacement, can be used in the clean room.

Special made patented brake switch has high resistance on impulsive vibration that will lengthen the switch life. (Taiwan patent No.52686)

Integration of new patent buffer clutch, low impact, high-precision features, and lengthen the life of its usage. (Taiwan patent No.35465)

Stepless torque adjustment, the series of models covering a wider range of torque output, is sufficient to meet diverse needs.

Minimalist appearance and excellent feel, effectively reduce the prolonged use of fatigue.



機型 MODEL	AC-115BL	AC-215BL	AC-125BL	AC-225BL	AC-135BL	AC-235BL	
適用電壓 Voltage Type	110V	220V	110V	220V	110V	220V	
無負載轉速 Unloaded Rotation Speed (rpm) ±10%	400 / 700 / 1100 rpm						
帶緩啟動模式 With soft Start Model	○	○	○	○	○	○	
扭力範圍 Output Torque Range	N.m	0.08~1.5	0.08~1.5	0.02~2.5	0.02~2.5	0.5~3.5	
	lbf.in	0.69~13.0	0.69~13.0	1.74~21.7	1.74~21.7	4.34~30.4	
	kgf.cm	0.8~15.0	0.8~15.0	0.2~25.0	0.2~25.0	5.0~35.0	
啟動方式 Start type	按板啟動 Lever Start						
適用起子頭 (單一) Bit Type	M6(p5.0)、HEX5.0+M6、HEX1/4"						
選配 Option	下壓啟動機種 Push-start type	AC-115BL-P	AC-215BL-P	AC-125BL-P	AC-225BL-P	AC-135BL-P	AC-235BL-P
	自動化外控機種 For AutoControl Technology (AT Type)	AC-115BL-AT	AC-215BL-AT	AC-125BL-AT	AC-225BL-AT	AC-135BL-AT	AC-235BL-AT
選配附件 Option Accessories	AC-BL1: 槍把套件 Pistol Grip Set GR-01: 扭力識別止滑色環組 (紅、黃、藍) Torque Identification & Antislip Color Ring Set GL-03: 扭力保護套 Torque Locking Cover						

# 功能部位說明 Function Description

# AC-BL Series (110V/220V) 直接插電 全自動無碳刷電動起子

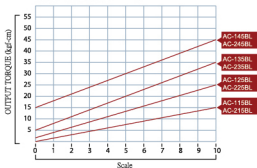
Conos Direct Plug-In Electric 110V/220V  
Full Automatic Clutch Brushless Electric Screwdriver AC-BL Series



## AC-BL1 AC-BL1槍把獨特設計可提供3種走線模式 Three Mode Combination



## 刻度扭力對照表 TORQUE REFERENCE



AC-145BL	AC-245BL	AC-135BL-13	AC-235BL-13	AC-115BL-18	AC-215BL-18	AC-125BL-18	AC-225BL-18
110V	220V	110V	220V	110V	220V	110V	220V
*	*	500 / 900 / 1400 rpm		700 / 1250 / 1850 rpm			
○	○	○	○	○	○	○	○
1.5-4.5	1.5-4.5	0.5-3.5	0.5-3.5	0.08-1.5	0.08-1.5	0.2-2.5	0.2-2.5
13.0-39.0	13.0-39.0	4.34-30.4	4.34-30.4	0.69-13.0	0.69-13.0	1.74-21.7	1.74-21.7
15.0-45.0	15.0-45.0	5.0-35.0	5.0-35.0	0.8-15.0	0.8-15.0	2.0-25.0	2.0-25.0
按板啟動 Lever Start							
M6 (φ5.0) · HEX5.0+M6 · HEX1/4"							
AC-145BL-P	AC-245BL-P	AC-135BL-13P	AC-235BL-13P	AC-115BL-18P	AC-215BL-18P	AC-125BL-18P	AC-225BL-18P
AC-145BL-AT	AC-245BL-AT	AC-135BL-13AT	AC-235BL-13AT	AC-115BL-18AT	AC-215BL-18AT	AC-125BL-18AT	AC-225BL-18AT

AC-BL1 : 槍把套件 Pistol Grip Set  
GR-01 : 扭力識別止滑色環組 (紅、黃、藍) Torque Identification & Anitlip Color Ring Set  
GL-03 : 扭力保護套 Torque Locking Cover

\* AC-145BL 轉速300/500/700

槍頭型式 Plug Type :



### 機械式離合器全自動電動起子AC系列

#### Direct Plug-In 110/220V Mechanical Full Automatic Clutch Brushless Electric Screwdriver AC Series

- 超低後座力設計,因應勞工安全考量,首創於離合器動力入端設置瞬間動力釋放開關,當扭力到達設定值時自動釋放動力,後座力少一倍以上,減少工作疲勞。
- 碳刷壽命加倍延長,機械式離合器除廢用的電子剎車電路,完全以機械式邏輯程式動作取代,革除電子剎車電路易故障之點,更由於免除剎車時產生的火花,碳刷加倍耐用,並減緩塵升。
- 一機可切換按板式或下壓式啟動,可配合個人使用習慣選擇,提高工作效率。
- 首創同一機種可適用5.0mm圓柱凸耳型或六角型起子頭(專利第47649號),提供多選擇。
- 獨家採用隔離底座設計,防止碳灰進入齒輪箱內,延長齒輪機組壽命。(專利第47849號)
- 離合器周圍加設防護套筒,避免離合器凸塊因強力衝擊而磨損,影響扭力精密度(專利第53504號)
- 安全與人性化之設計,起子頭換裝控制環採用外拉式,不會因更換起子頭而誤啟動,起子,傷及手部,符合作業安全規則。

**Super Low Inertia Effect Design:** Based on the consideration of operators' health, Top Driver is the first company to invent such distinctive feature as to release clutch automatically without "backlash" when preset torque is achieved, in order to eliminate over torquing by operators.

**Longer Life of Carbon Brush:** Use Mechanical clutch to replace the common-use of electric brake circuit. This design will not only get rid of the sparks when using the traditional circuit, but also extend the life of carbon brush, and reduce the heat.

**Dual Mode Switch Selectable:** All AC models have the unique feature of selectable push-to-start or push-lever start at the flick of a switch. This allows the operator to customize the tool to the personal liking and application.

**Innovative design of interchangeable 5.0mm HB and Hex bits within the same electric screwdriver, which allows the operator with greater variety of usage.** (Taiwan Patent No. 47646)

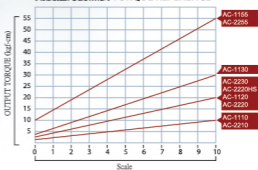
**Exclusive invention of the isolation set that prevents carbon ashes get into the gear, which will help longer the life of the gear.** (Taiwan Patent No. 47848)

**By adding the impulse protection shaft to the clutch, which will avoid further grinding on the clutch and have an effect on the precision of the torque.** (Taiwan Patent No. 53504)

**Our user-friendly design of quick and easy bit change: just pull the collect ring outwards, insert the desired bit, then release the collect ring, and the bit is automatically locked into its position. Unlike other electric screwdrivers, this safety feature will not start the screwdriver during bit change by mistake and hurt the operator's hands.**



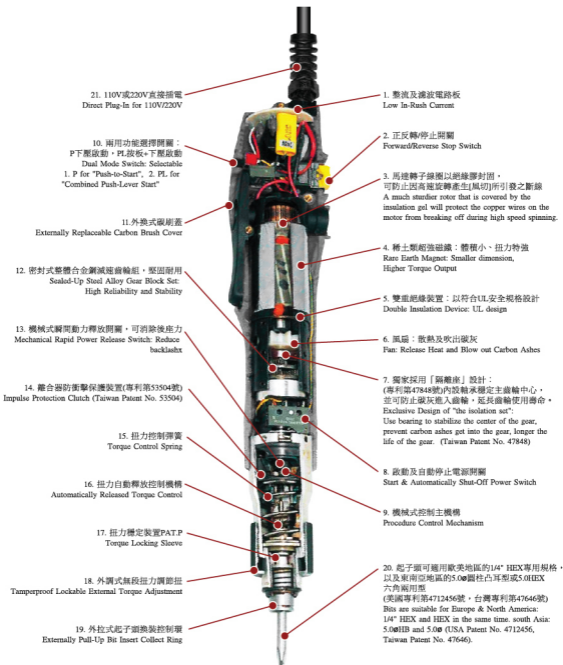
刻度扭力對照表 TORQUE REFERENCE



機型 MODEL	AC-1110	AC-2210	AC-1120	AC-2220	AC-1130	AC-2230	AC-1120HS	AC-2220HS	AC-1155	AC-2255
轉速 FREE SPEED (rpm)	1000	1000	1000	1000	1000	1000	1800	1800	400	400
扭力範圍 OUTPUT TORQUE	Nm	0.2 - 1.0	0.2 - 1.0	0.3 - 2.0	0.3 - 2.0	0.4 - 3.0	0.4 - 3.0	0.4 - 2.0	0.4 - 2.0	1.0 - 5.5
	lbf.in	1.7 - 8.7	1.7 - 8.7	2.6 - 17.4	2.6 - 17.4	3.5 - 26.0	3.5 - 26.0	3.5 - 17.4	3.5 - 17.4	8.7 - 47.7
	kgf.cm	2.0 - 10.0	2.0 - 10.0	3.0 - 20.0	3.0 - 20.0	4.0 - 30.0	4.0 - 30.0	4.0 - 20.0	4.0 - 20.0	10.0 - 55.0
啟動方式 START	下壓 / 下壓按板 PUSH START / PUSH-LEVER START									
適用電壓 VOLTAGE	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V

結構剖面說明  
Section Structure

AC Series (110V/220V) 直接插電  
機械式離合器全自動電動起子  
Conos Direct Plug-In 110V/220V  
Mechanical Full Automatic clutch Electric Screwdriver AC Series



Conos® 技友

X/A series



## 直接插電全自動電動起子X/A系列

### Direct Plug-In 110/220V Full Automatic Clutch Screwdriver X/A Series

- 專利全自動剎車控制回路,可保護延長啟動開關等消耗性零件之壽命,降低更換消耗品之次數及費用。
- 三重保護裝置,可避免超載、短路等所造成之故障損害。
- 可使用電壓範圍廣,克服於不穩定供電環境下尖峰與雜音操作。
- 專利黃金接點特殊剎車觸發機構,取代一般常用開關(switch)之設計,經久耐用。
- EMC防電磁干擾設計。
- 全系列稀土永久強磁馬達,溫升低及長時間使用扭力不衰退。
- 馬達轉子繞線以特殊膠封固,加強保護馬達轉子漆包線,延長馬達壽命。

Special made patented brake switch has high resistance on impulsive vibration that will lengthen the switch life.

Triple safety protection device can prevent damages from electrical overload or short circuit.

Our X series and A series are designed to have high tolerance to a wide voltage range. This feature helps to overcome various issues of operating in an unstable power supply environment.

Special designed brake switch has high resistibility to impulsive vibration. This unique feature will extend the duration of switch life.

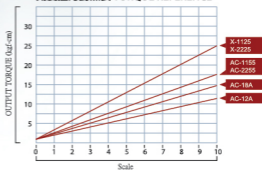
EMC (Electromagnetic Compatibility) feature.

High Power Rare Earth Magnet Motor offers consistent performance in torque output.

A special gel is applied to our motor axle which laminates and strengthens the winding wire. This unique procedure will lengthen the motor life.



刻度扭力對照表 TORQUE REFERENCE



機型 MODEL	X-1115	X-1125	X-2215	X-2225	AC-12A	AC-18A	
轉速 FREE SPEED (rpm)	900	900	900	900	1000	700	
扭力範圍 OUTPUT TORQUE	Nm	0.08 - 1.5	0.08 - 2.5	0.08 - 1.5	0.08 - 2.5	0.08 - 1.2	0.08 - 1.8
	lbf.in	0.7 - 13.0	0.7 - 21.7	0.7 - 13.0	0.7 - 21.7	0.7 - 10.4	0.7 - 15.6
	kgf.cm	0.8 - 15.0	0.8 - 25.0	0.8 - 15.0	0.8 - 25.0	0.8 - 12.0	0.8 - 18.0
啟動方式 START	按板式 LEVER START						
適用電壓 VOLTAGE	110V	110V	220V	220V	110V	110V	

### 直接插電半自動電動起子S系列

### Direct Plug-In 110/220V Semi-Automatic Clutch Screwdriver S Series

- 雙重緩衝吸收震動裝置防止其他機構因震動而損壞,堅固耐用。
- 稀土系永久磁石馬達,體積小、輸出扭力大、密集作業溫升穩定、雙重絕緣保護。
- 外換式碳刷蓋更換設計,維護簡易方便。
- 無段式扭力調整,配合輸出扭力高低範圍廣,一支起子可通用於不同產品的生產線。
- 馬達轉子繞線以特殊膠封固,加強保護馬達轉子漆包線,延長馬達壽命。

Double buffer shock absorber device will block the damage of parts from vibration.

High Power Rare Earth Magnet Motor has distinguished characteristics, including smaller dimension, higher torque output, double insulation device that is UL designed, and great safety.

Externally Replaceable Carbon Brush is easy and convenient.

Externally knurled torque nut allows easy torque setup and adjustment.

Spiral Winding Wire in All Model's Cable greatly reduces the possibility of bent or broken shafts.

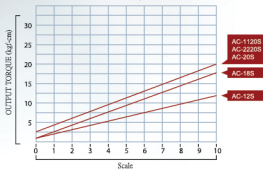
AC-1120S  
AC-2220S  
AC-20S



AC-12S  
AC-18S



刻度扭力對照表 TORQUE REFERENCE



機型 MODEL	AC-1120S	AC-2220S	AC-20S	AC-12S	AC-18S	
轉速 FREE SPEED (rpm)	1000	1000	1000	1000	700	
扭力範圍 OUTPUT TORQUE	Nm	0.3 ~ 2.0	0.3 ~ 2.0	0.3 ~ 2.0	0.08 ~ 1.2	0.08 ~ 1.8
	lbf/in	2.6 ~ 17.4	2.6 ~ 17.4	2.6 ~ 17.4	0.7 ~ 10.4	0.7 ~ 15.6
	kgf/cm	3.0 ~ 20.0	3.0 ~ 20.0	3.0 ~ 20.0	0.8 ~ 12.0	0.8 ~ 18.0
啟動方式 START	按板式 LEVER START					
適用電壓 VOLTAGE	110V	220V	220V	110V	110V	



Comos® 技友

RE/F-6<sup>BL</sup> series

BL  
Brushless

DC

## 低壓直流全自動無碳刷電動起子RE/F-6系列 Low Voltage DC Full Automatic Clutch Brushless Electric Screwdriver RE/F-6 Series

- 採用全新研發sensorless(無偵測器)無碳刷高精密內轉馬達,具高穩定、低溫升特點,適用長時間精密操作。
- 電動起子體積小,輸出扭力高。
- 完全免除碳刷粉塵困擾及耗材更換問題,可用於無塵室。
- 黃金接點專利耐衝擊剎車觸點開關,無使用壽命問題(專利第52686號)。
- 專利緩衝裝置整合新式離合器,具有低衝擊、高精度特點(專利第35465號)。
- 無段式扭力調整,系列機種涵蓋扭力輸出範圍更廣,足以應付多種需求。
- 電動起子本體與連接線採用分離式架構,更便於維護保養。
- 極簡絕佳的外觀手感,長時間操作不疲勞。

Developed with a new sensorless (no sensor) brushless of high-precision internal rotation motor, high stability, low temperature rise characteristics, for long-precision operation.

Small size, high output torque.

Completely remove the carbon brush dust from the troubled and supplies replacement can be used in the clean room.

Special made patented brake switch has high resistance on impulsive vibration that will lengthen the switch life. (Taiwan patented No.52686).

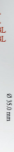
The combination of the buffer device and a new clutch model will greatly reduce the shock, improve the precision of torque, and lengthen the life of its usage. (Taiwan patent No.35465).

Stepless torque adjustment, the series of models covering a wider range of torque output, enough to meet diverse needs.

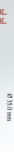
Electric screwdriver body and the cable to adopt a separate structure, maintenance is more convenient.

Minimalist excellent appearance and feel, prolonged use of fatigue.

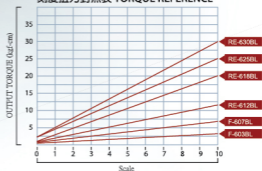
F-603BL  
F-607BL  
RE-612BL  
RE-618BL



RE-625BL  
RE-630BL



刻度扭力對照表 TORQUE REFERENCE



機型 MODEL	F-603BL	F-607BL	RE-612BL	RE-618BL	RE-625BL	RE-630BL
轉速 FREE SPEED (rpm)	660 / 480	1000 / 750	1000 / 750	1000 / 750	660 / 480	660 / 480
扭力範圍 OUTPUT TORQUE	Nm	0.02 - 0.3	0.05 - 0.7	0.08 - 1.2	0.08 - 2.0	0.2 - 2.5
	lbf.in	0.17 - 2.6	0.43 - 6.1	0.7 - 10.4	0.7 - 17.4	1.7 - 21.7
	kgf.cm	0.2 - 3.0	0.5 - 7.0	0.8 - 12.0	0.8 - 20.0	2.0 - 25.0
啟動方式 START	按板式 LEVER START (反轉按鈕式 BUTTON START)					
適用控制器 CONTROLLER	SW1-B / T-1-SWB			T-1-SWB		
抗靜電 ESD				YES		

Comos® 技友

# F-3 BL series

BL  
Brushless

DC

## 低壓直流全自動無碳刷電動起子 F-3 BL 系列

### Low Voltage DC Full Automatic Clutch Brushless Electric Screwdriver F-3 BL Series

- 採用全新研發 sensorless (無偵測器) 無碳刷高精密內轉馬達, 極具高穩定、低溫升特點, 適合長時間精密操作。
- 電動起子體積小, 輸出扭力高。
- 完全免除碳刷磨損困擾及耗材更換問題, 可用於無塵室。
- 黃金接點專利對衝擊殺車觸發開關, 無使用壽命問題 (專利第 52686 號)。
- 專利緩衝裝置整合新式融合器, 具有低衝擊、高精度特點 (專利第 35465 號)。
- 無段式扭力調整系列機種涵蓋扭力輸出範圍更廣, 足以應付多種需求。
- 電動起子本體與連接線採分離式架構, 更便於維護保養。
- 極簡流線的外觀手感, 長時間操作不疲勞。

Using the new sensorless (non detector) in turn brushless motor with high precision, high stability, low temperature characteristics, suitable for long precision operation.

Small size, high torque output.

Entirely free from trouble any supplies replacement and carbon brush dust problem can be used for clean rooms.

Patented impact resistant golden contact brake trigger switch, lifetime use (Patent No. 52686).

Integration of new patent buffer clutch, low impact, high-precision features (Patent No. 35465).

Non-stage torque adjustment, series models cover a wider range of torque output, sufficient to meet the needs.

Separate structure, convenient for maintenance.

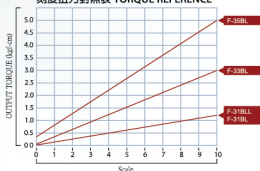
Simple looking & great feeling for a long time operation without fatigue



F-3BL 之旋轉按鈕  
iPhone / iPad 組裝專用  
For iPhone / iPad assembly



刻度扭力對照表 TORQUE REFERENCE



機型 MODEL		F-31BLL	F-31BL	F-33BL	F-35BL
轉速 FREE SPEED (rpm)		300 / 150	1000 / 750	1000 / 750	1000 / 750
扭力範圍 OUTPUT TORQUE	Nm	0.015-0.12	0.015-0.12	0.02-0.3	0.04-0.5
	lb.in	0.13-1.04	0.13-1.04	0.17-2.6	0.35-4.34
	kgf.cm	0.15-1.2	0.15-1.2	0.20-3.0	0.4-5.0
啟動方式 START		扳板式 LEVER START (反轉按鈕式 BUTTON START)			
應用控制器 CONTROLLER		SW1-B / T-1-SWB			
抗靜電 ESD		Yes			
適用起子頭 APPLICABLE BIT (mm)		M3			

### 低壓直流全自動電動起子F系列

#### Low Voltage DC Automatic Clutch Electric Screwdriver F Series

- 首創正反轉均用按板之一全按鍵式控制,作業效率最高,使用方便。(專利第39204號)
- 黃金接點特製耐衝擊觸發開關,永久保用。(專利第52686號)
- 稀土類強磁精裝馬達,體積小,扭力大,雙重絕緣裝置,UL規格設計,安全性高。
- 接衝裝置配合新式離合器,減低衝擊力,提高扭力精度,增長使用壽命(專利第35465號)
- 體積小,作業輕巧靈活,長時間操作不疲勞。
- 碳刷可簡易外換,保養方便,不需專業人員維修。(專利第41549號)
- 內建扭力調整反鎖環設計,可直接鎖定欲輸出扭力,避免現場作業人員誤更動 扭力,無需另外購買配件。

※F系列反轉操作方式提供按板及切換兩種機型,可供客戶依作業習慣選擇。  
 ※F系列可選擇搭配AT底座,滿足自動化鉗安裝需求。

First to specialize in Fwd/Rev trigger: just one easy step of pressing on the trigger will enhance work efficiency significantly. (Taiwan Patent No.39204)

Special made patented brake switch has high resistance on impulsive vibration that will lengthen the switch life. (Taiwan Patent No. 52686)

High Power Rare Earth Magnet Motor has distinguished characteristics, including smaller dimension, higher torque output, double insulation device that is UL designed, and great safety.

The combination of the buffer device and a new clutch model will greatly reduce the shock, improve the precision of torque, and lengthen the life of its usage. (Taiwan Patent No. 35465)

Slim and small housing can be grasped and operated for a long period of time.

Externally Replaceable Carbon Brush is easy and convenient; you do not need any professionals to do the maintenance. (Taiwan Patent No. 41549).

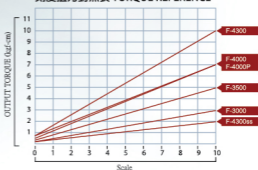
Lockable external torque adjustment easy to set up and secure, do not need to purchase another accessories.

※We provide lever or switch selection for part of F Series models reverse function. Customers can choose the operation, depending on their preference.

※RE/F series is compatible with AT base, fulfill automation needs.



刻度扭力對照表 TORQUE REFERENCE



機型 MODEL		F-3000	F-3500	F-4300SS	F-4000	F-4300	F-4000P	
轉速 FREE SPEED (rpm)		1000	1000	660	1000	660	1000	
扭力範圍 OUTPUT TORQUE	Nm	0.02 - 0.3	0.04 - 0.5	0.02 - 0.3	0.05 - 0.7	0.08 - 1.0	0.08 - 0.7	
	lbf/in	0.17 - 2.6	0.35 - 4.34	0.17 - 2.6	0.43 - 6.1	0.7 - 8.7	0.7 - 6.1	
	kgf/cm	0.2 - 3.0	0.4 - 5.0	0.2 - 3.0	0.5 - 7.0	0.8 - 10.0	0.8 - 7.0	
啟動方式 START		按板式 LEVER START					下壓式 PUSH START	
適用控制器 CONTROLLER		A / B / C / D / H / I					C / F	
抗靜電 ESD		YES						

※ 搭配控制器 CONTROLLER: A-T-I-CL B-T-I-CLG C-T-I-CL-EB D-T-I-CL-HL E-CLT-1 F-CLT-1 EB G-T-I-CLGD H-T-I-SW L5W1

Conos® 技友

# RE series



## 低壓直流全自動電動起子RE系列

### Low Voltage DC Full Automatic Clutch Electric Screwdriver RE Series

- 前正反轉均用按板之——全按扭式控制,作業效率最高,使用方便。(專利 第39204號)
- 黃金接點特製耐衝擊觸發開關,永久保用。(專利第52689號)
- 稀土類強磁精製馬達,體積小,扭力大,雙重絕緣裝置,UL規格設計,安全性高。
- 緩衝裝置配合新式離合器,減低衝擊力,提高扭力精度,增長使用壽命(專利 第35465號)
- 體積小,作業輕巧靈活,長時間操作不疲勞。
- 碳刷可簡易外換,保養方便,不需專業人員維修。(專利第41549號)
- 內建扭力調整反鎖閥設計,可直接鎖定欲輸出扭力,避免現場作業人員誤更動扭力,無需另外購買配件。

※ RE系列反轉操作方式提供按板及切換兩種機型,可供客戶依作業習慣選擇。

※ RE系列可選擇搭配AT基座,滿足自動化鎖付安裝需求。

First to specialize in Fwd/Rev trigger: just one easy step of pressing on the trigger will enhance work efficiency significantly. (Taiwan Patent No. 39204)

Special made patented brake switch has high resistance on impulsive vibration that will lengthen the switch life. (Taiwan Patent No. 52689)

High Power Rare Earth Magnet Motor has distinguished characteristics, including smaller dimension, higher torque output, double insulation device that is UL designed, and great safety.

The combination of the buffer device and a new clutch model will greatly reduce the shock, improve the precision of torque, and lengthen the life of its usage. (Taiwan Patent No. 35465)

Slim and small housing can be grasped and operated for a long period of time.

Externally Replaceable Carbon Brush is easy and convenient; you do not need any professionals to do the maintenance. (Taiwan Patent No. 41549).

Lockable external torque adjustment easy to set up and secure, do not need to purchase another accessories.

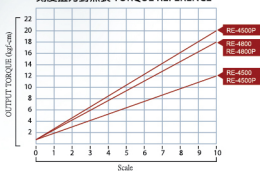
※ We provide lever or switch selection for part of F Series models reverse function.

Customers can choose the operation, depending on their preference.

※ RE/F series is compatible with AT base, fulfill automation needs.



刻度扭力對照表 TORQUE REFERENCE



機型 MODEL	RE-4500	RE-4800	RE-5000	RE-4500P	RE-4800P	
轉速 FREE SPEED (rpm)	1000	660	900	1000	660	
扭力範圍 OUTPUT TORQUE	Nm	0.8 - 1.2	0.8 - 1.8	0.8 - 2.0	0.8 - 1.0	0.8 - 1.5
	lb/in	0.7 - 10.4	0.7 - 15.6	0.7 - 17.4	0.7 - 8.7	0.7 - 13.9
	kgf/cm	0.8 - 12.0	0.8 - 18.0	0.8 - 20.0	0.8 - 10.0	0.8 - 16.0
啟動方式 START	按板式 LEVER START			下壓式 PUSH START		
適用控制器 CONTROLLER	A / B / C / D / E / F / G / H			C / F		
抗靜電 ESD	YES					

※ 搭配控制器 CONTROLLER: A:T-I-CL B:T-I-CLG C:T-I-CL.EB D:T-I-CL.HL E:CL.T-I F:CL.T-I.EB G:T-I-CL.GD H:T-I-SW I:SWI

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# RE/F-D series



## 低壓直流全自動電動起子RE/F-D系列

### Low Voltage DC Full Automatic Clutch Electric Screwdriver RE/F-D Series

- 黃金接點耐衝擊觸發開關, 永久保用(專利第52686號)。
- 稀士類強磁精製馬達, 體積小、扭力大, 雙重絕緣裝置, UL規格設計, 安全性高。
- 緩衝裝置配合新式離合器, 減低衝擊力, 提高扭力精度, 增長使用壽命(專利第35465號)。
- 體積小, 作業輕巧靈活, 長時間操作不疲勞。
- 內建扭力調整反鎖環設計, 可直接鎖定輸出扭力, 避免現場作業人員誤更動, 無需另外購買配件。
- 新式破開蓋設計, 更換碳刷更方便, 不需專業人員維護, 節省維護費用。
- 電動起子本體與連接線採分離式架構, 保養維護更方便。
- 更加舒適的外殼設計及手感。

Special made patented brake switch has high resistance on impulsive vibration that will lengthen the switch life. (Taiwan patented No.52686)

High power rare earth magnet motor has distinguished characteristics, including smaller dimension, higher torque output, double insulation device that is UL designed, and great safety.

The combination of the buffer device and a new clutch model will greatly reduce the shock, improve the precision of torque, and lengthen the life of its usage. (Taiwan patent No.35465).

Slim and small housing can be grasped and operated for a long period of time.

Lockable external torque adjustment easy to set up and secure, do not need to purchase another accessories.

Externally replaceable carbon brush is easy and convenient; you do not need any professionals to do the maintenance.

Electric screwdriver body and the cable to adopt a separate structure, maintenance is more convenient.

More comfortable housing design and feel.

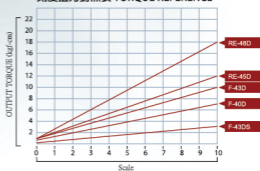
F-43DS  
F-40D  
F-43D



RE-45D  
RE-48D



刻度扭力對照表 TORQUE REFERENCE



機型 MODEL	F-43DS	F-40D	F-43D	RE-45D	RE-48D	
轉速 FREE SPEED (rpm)	660	1000	660	1000	660	
扭力範圍 OUTPUT TORQUE	Nm	0.02 - 0.3	0.05 - 0.7	0.08 - 1.0	0.08 - 1.2	0.08 - 1.8
	lbf.in	0.17 - 2.6	0.43 - 6.1	0.7 - 8.7	0.7 - 10.4	0.7 - 15.6
	kgf.cm	0.2 - 3.0	0.5 - 7.0	0.8 - 10.0	0.8 - 12.0	0.8 - 18.0
啟動方式 START	按板式 LEVER START (反轉按鈕式 BUTTON START)					
適用控制器 CONTROLLER	G/H/I			G/H		
抗靜電 ESD	YES					

\* 搭配控制器 CONTROLLER: A:T-1-CL B:T-1-CLG C:T-1-CL EB DT-1-CL HL E:CLT-1 F:CLT-1 EB G:T-1-CLGD H:T-1-SW I:SWI

Conos® 技友

CY series



低壓直流全自動電動起子CY系列  
Low Voltage DC Full Automatic Clutch  
Electric Screwdriver CY Series

- 黃金接點特製耐衝擊發開關,永久保用。(專利第52686號)
- 稀土類強磁精製馬達,體積小,扭力大,雙重絕緣裝置,UL規格設計,安全性高。
- 緩衝裝置配合新式離合器,減低衝擊力,提高扭力精度,增長使用壽命(專利第35465號)
- 碳刷可簡易外換,保養方便,不需專業人員維修。(專利第41549號)
- 內建扭力調整反鎖鎖設計,可直接鎖定欲輸出扭力,避免現場作業人員誤更動 扭力,無需另外購買配件。

**D**Special made patented brake switch has high resistance on impulsive vibration that will lengthen the switch life. (Taiwan Patent No. 52686)

**H**igh Power Rare Earth Magnet Motor has distinguished characteristics, including smaller dimension, higher torque output, double insulation device that is UL designed, and great safety.

**T**he combination of the buffer device and a new clutch model will greatly reduce the shock, improve the precision of torque, and lengthen the life of its usage. (Taiwan Patent No. 35465)

**E**xternally Replaceable Carbon Brush is easy and convenient; you do not need any professionals to do the maintenance. (Taiwan Patent No. 41549).

**L**ockable external torque adjustment easy to set up and secure, do not need to purchase another accessories.

CY-16C  
CY-26C



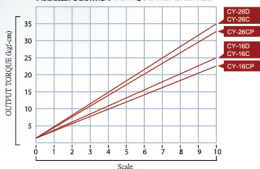
CY-16CP  
CY-26CP



CY-16D  
CY-26D



刻度扭力對照表 TORQUE REFERENCE



機型 MODEL	CY-16D	CY-26D	CY-16C	CY-26C	CY-16CP	CY-26CP
轉速 FREE SPEED (rpm)	1000	660	1000	660	1000	660
扭力範圍 OUTPUT TORQUE	Nm	0.2 - 2.5	0.2 - 3.5	0.2 - 2.5	0.2 - 3.5	0.2 - 3.3
	lbf.in	1.7 - 21.7	1.7 - 30.4	1.7 - 21.7	1.7 - 30.4	1.7 - 28.6
	kgf.cm	2.0 - 25.0	2.0 - 35.0	2.0 - 25.0	2.0 - 35.0	2.0 - 33.0
原動方式 START	按板式 LEVER START			下壓式 PUSH START		
適用控制器 CONTROLLER	G / H		A/B/C/D/E/F/H		C / F	
抗靜電 ESD	YES					

※ 適用控制器 CONTROLLER: A-T-1-CL BT-1-CLG CT-1-CL-EB D-T-1-CL-LH E-CLT-1 F-CLT-1-EB G-T-1-CLOG H-T-1-SW I-SW1

## Traditional Vacuum

### 電子控制傳統式電動起子 / 氣吸式電動起子

#### Traditional Electric Screwdrivers Vacuum Electric Screwdriver

##### 電子控制傳統式電動起子 KM-800 KS-2500 CY-56L CY-66L CY-76L

- 電子控制傳統式電動起子系採用調整電壓高低及電流大小之設計達到扭力自動控制。
- 旋鈕可調整所需之輸出扭力及轉速。
- 體積短小,重量輕巧,作業靈活輕鬆。
- 可選擇不同電源控制器,一台控制器可同時供應2或4支電動起子使用,而不會相互干擾,經濟便利。

##### 氣吸式電動起子 V-3000

- 專利電動起子輸出端起子夾頭設計,起子頭不偏擺,穩定度高,作業無誤失。
- 體積短小,重量輕巧,作業靈活輕鬆。
- 可搭配真空轉換器使用,工廠僅需空氣壓縮機供氣,自動轉換成吸力吸取螺絲。
- 適合磁力無法吸附之螺絲或人手無法拿取之微小螺絲作業使用。  
※ 氣吸式電動起子前端風嘴必須配合作業螺絲之規格而訂制。  
※ 配件:真空轉換器、螺絲排列盤。

#### Traditional Electric Screwdriver KM-800 KS-2500 CY-56L CY-66L CY-76L

Traditional Electric screwdriver uses the adjustable electric high/low voltage and the design of electric current size to control torque automatically.

The Knob is adjustable to the need of exportation torque and speed turn.

The body is compact, light and well balanced to minimize fatigue of operator's hand.

Can be working with either ST-2 or BT-4 controller, and a single controller is capable working with 2-4 screwdrivers simultaneously, which is convenient and cost-effective.

#### Vacuum Electric Screwdriver : V-3000

Special structure at the tip of torque output that stabilizes bits from swinging.

The body is compact, light and well balanced to minimize fatigue of operator's hand.

Connect to a vacuum source like vacuum pump on vacuum converter with the appropriate Vacuum Attachment.

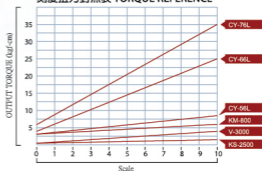
Suitable with minute screws such as glasses assemblies.

※ Must match with the specification of screws and order system when using vacuum electric screwdriver.

※ Accessories: Vacuum Attachment, Screw Setter.



刻度扭力對照表 TORQUE REFERENCE



機型 MODEL	KS-2500	CY-56L	CY-76L	KM-800	CY-66L	V-3000
轉速 FREE SPEED (rpm)	1000 ~ 2500	1000 ~ 2500	250 ~ 750	600 ~ 1000	500 ~ 1000	200 ~ 3300
扭力範圍 OUTPUT TORQUE	Nm	0.05 ~ 0.2	0.3 ~ 0.8	0.6 ~ 3.5	0.3 ~ 0.6	0.4 ~ 2.5
	lb/in	0.43 ~ 1.7	2.6 ~ 7.0	5.2 ~ 30.4	2.6 ~ 5.2	3.5 ~ 21.7
	kgf.cm	0.5 ~ 2.0	3.0 ~ 8.0	6.0 ~ 35.0	3.0 ~ 6.0	4.0 ~ 25.0
啟動方式 START	按板式 LEVER START		下壓式 PUSH START		按板式 LEVER START	
適用控制器 CONTROLLER	ST-2S, BT-4S	ST-2L, BT-4L	ST-2L	ST-2M, BT-4M	ST-2L	ST-2S, BT-4S



Comos® 技友

## T-10 / T-100 數位扭力測試儀 DIGITAL TORQUE METER

電動起子扭力校正專用，內有充電式電池。  
Electronic Screwdriver Torque Calibration Expert Including Rechargeable Battery



- 同時顯示正扭力及反扭力。
- 自動Reset功能、提昇測試速度。(不需要手按歸零鍵)
- 單位切換：kgf-cm、N-m、lb-in。
- Peak、Track切換功能。
- 搭配專用印表機，可即時列印每次扭力值。
- 治具固定尺寸與一般扭力計(如HP-100)相同。

- Dual monitor to display positive and negative torque values.
- Auto reset function to improve speed. (without pushing zero button by manual)
- Selectable unit: kgf-cm, N-m, lb-in.
- Peak, Track switching functions.
- With specialized printer for each torque value printout.
- The fixing size of fixtures and normal torque tester (HP-100) are the same.

型號 Model	T-10	T-100
最大扭力 Torque Capacity	10,000 kgf-cm 1,000.0 N-m 9,000 Lbf-in	100.0 kgf-cm 10.00 N-m 90.0Lbf-in
測量模式 mode Operating	Track/Peak/First peak	
精度 Accuracy	0.5% F.S.	
容許負荷 Max Torque	最大扭力150% (校正時請以最大值90%為限, T-10: -9.00~-9.00kgf-cm / T-100: -90.0~90.0kgf-cm)	
外觀尺寸 Dimension	230(W)×140(D)×65(H)mm	
機台重量 Weight	2.2kg	
電池規格 Battery	充電8小時、連續使用8小時/充放電500次	
充電器 Charge	INPUT AC100V-AC240V 50-60Hz 0.5A	

### T-10 / T-100 數位扭力測試儀配件 DIGITAL TORQUE METER Accessories



電動起子測試座  
測定範圍:  
0.15 ~ 0.6 N-m



Φ4, Φ5, 5mm, 1/4  
四種尺寸  
起子頭



內建鋰電池  
電池壽命長



電動起子測試座彈簧  
測定範圍:  
0.5 ~ 3 N-m



標準重量校正棒  
用以確認扭力值  
是否準確。



SH-24  
可列印已儲存  
扭力值



## AT-1 外接訊號控制器 AT-1 External Signal Controller

AT-1 外接訊號控制器  
AT-1 External Signal Controller  
Electric Screwdriver External  
Signal Controller.



側視圖



### 使用說明 / Instruction

- 將6Pin連接頭端接上電動起子6Pin線連接, 再將5Pin連接頭端接上電源供應與控制器5Pin連接線, 確實固定穩妥, 並將電動起子輸出轉向切換開關設定於順時針轉動(正轉)。
- 將PLC出線與快速接頭部份連接, 1、2、3、C定義如下:  
1 + C = 電動起子啟動正轉 (乾接點) / 2 + C = 電動起子反轉 (乾接點)  
3 + C = 扭力到達, 電動起子煞車時訊號輸出 (保持+5V輸出, 需1+C切斷重置才會斷開)
- 緩啟動設定JUMP設於內部, 請打開底蓋調整, 出場設定為無緩啟動, JUMP定義請詳於外盒標籤圖A。
- AT-1可同時由PLC外部控制啟動動作及由電動起子本體按板直接啟動。
- 為確保安全, 請確實做好接地, 非專業人員避免自行維修。

- Connecting the 6 Pin port to the screwdriver 6P cable, and connect the 5 Pin port to the power supply and controller 5P cable. Set the output to clockwise
- Connect the PLC wire to the quick Socket.  
1+C = screwdriver forward  
2+C = screwdriver reverse  
3+C = brake signal send out when torque reached, (keep +5V output, disconnect while 1+C reset)
- Soft-start setting is inside the At-1 controller, please open the back cover. Default setting is soft-start OFF. For JUMP setting information, please see the label A.
- AT-1 can be use with PLC outer controller start and leaver start simultaneously on the screwdriver.
- For safety, please be sure to connect the ground wire and avoid self-repair by non-professional.

### 適用機種 / Applicable Models

COMOS技友牌全自動F/RE/CY系列按板式及下壓式 (BL無刷系列不適用)  
Comos Full Automatic Clutch Electric Screwdriver. F/RE/CY Series and push-start model. (Not applicable for BL series)



### 電源供應及控制器 Power Supply & Controller


**T-1-CL**
**T-1-CL HL**
**T-1-CL EB**
**T-1-CLG / D**
**T-1-SW**
**SW1**

適用機型 Suitable model	F/RE Series	F/RE Series	F/RE P Series	F/RE/CY Series	RE/F & BL series	RE/F & BL series
輸入電壓 Input V	AC 110V / 220V / 240V	AC 110V / 220V / 240V	AC 110V / 220V / 240V	AC 220V / 240V	AC 100-240V 50/60Hz	AC 100-240V 50/60Hz
輸出電壓 Output V	DC30V	DC30V	DC30V	DC30V	DC 2A/32V	DC 2A/32V
輸出電流 Output A	0.7A (F Series) 1.5A (RE Series)	1.5A (RE Series)	1.5A (RE P Series)	1.5A (RE Series)		
體積 Dimension	90×68×58 mm	90×68×58 mm	90×68×58 mm	128×68×77 mm	1500×650×950 mm	1400×650×320 mm
重量 Weight	0.75 kg	0.75 kg	0.75 kg	1.3 kg	600g	190 / 210g
功能 Function		可調整切換高低轉速	電子式電源供應		寬電壓	寬電壓

### 電源供應及控制器 Power Supply & Controller

### 扭力自動控制器 Power Supply & Controller


**CLT-1**
**T-1+4P**
**BT-4 (S/M/L)**
**ST-2 (S/M/L)**

適用機型 Suitable model	F/RE/CY Series	CY-56L, CY-66L, CY-76L	電子控制傳統式電動起子 / 氣壓式電動起子 Traditional Electric Screwdrivers / Vacuum Electric Screwdrivers	
輸入電壓 Input V	AC 110V / 220V / 240V	AC 110V / 220V / 240V	AC 110V / 220V / 240V	AC 110V / 220V / 240V
輸出電壓 Output V	DC30V	DC 15V - 30V	DC 15V - 30V	DC 15V - 30V
輸出電流 Output A	1.5A	可調式 Adjustable	可調式 Adjustable	可調式 Adjustable
體積 Dimension	115×175×90 mm	115×175×90 mm	270×175×90 mm	160×170×90 mm
重量 Weight	2.2 kg	2.2 kg	4.3 kg	3.0 kg
功能 Function	可調整高低轉速、 全/半自動車切換控制、 提供電動起子最高輸出扭力。	一台控制器可同時供2支 電動起子個別控制使用、 七段轉速調整。	一台控制器可同時供4支 電動起子個別控制使用、 七段轉速調整。	一台控制器可同時供2支 電動起子個別控制使用、 七段轉速調整。

※ 插頭形式 PLUG TYPE : TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5

# 電動起子相關配件

## Accessories

# Conos®



### 鎖定式扭力調整頭 Torque Adjustment

防止現場作業人員自行變更已設定扭力。  
To minimize tampering or accidental turning once torque is set.

適用機型  
Applicable Models

直接插電機械式全自動離合器型電動起子。  
Applicable for series Mechanical full automatic clutch electric screwdriver



### 電動起子放置座 Suspension Rack

固定于作業台邊放置起子，供無法懸吊使用的作業環境使用，避免掉落地面損壞工具。  
Can be fixed on the side of the table avoid falling off damage.

適用機型  
Applicable Models

全系列電動起子  
All series electric screwdriver



### 真空轉換器組 Vacuum hose and tie wraps

可直接利用空氣壓縮機吹出之風力轉化為吸取螺絲之吸力。  
Connect to a vacuum source like vacuum pump or vacuum converter

適用機型  
Applicable Models

吸氣式電動起子。  
Vacuum Electric Screwdriver



### 鎖定式扭力調整頭 Torque Locker

可防止現場作業人員自行變更已設定扭力。  
To minimize tampering or accidental turning once torque is set

適用機型  
Applicable Models

RE/F及X系列電動起子  
RE/F、X series electric screwdriver



### 彈簧吊車 SB-1200 Spring Balancer

功能：可調整作業高度，使用後自動回復定位，避免電動起子連接線因長期使用彎折斷線，便利並減輕使用者負擔。  
Can hold screwdrivers at any height in accordance with their weight Best suited for long-time operation The convenience also lightens user burden

適用機型  
Applicable Models

技友全系列電動起子  
All series Conos electric screwdriver



### 90度轉接彎頭 (1/4" Hex) 90 Degree Angle Head Attachment

適合無法直接操作之組裝作業使用。  
Get into tight places with low profile angle head attachments

適用機型  
Applicable Models

X / F / RE / CY系列全自動電動起子。  
X/F/RE/CY series full automatic electric screwdriver



### 90度轉接彎頭 (5 mm) $\varnothing$ 90 Degree Angle Head Attachment

適合無法直接操作之組裝作業使用。  
Get into tight places with low profile angle head attachments

適用機型  
Applicable Models

X / F / RE / CY系列全自動電動起子。  
X/F/RE/CY series full automatic electric screwdriver



### 電動起子氣吸頭 Vacuum Pick-up Attachment

適合無法以磁力吸附螺絲之組裝作業使用。  
To pick-up small screws.

適用機型  
Applicable Models

F / RE系列全自動電動起子。  
F/RE series Electric screwdriver



### 扭力保護蓋 GL-01, GL-02, GL-03 Torque Locking Cover GL-01, GL-02, GL-03

保護扭力設定，避免人員誤觸調整。  
Protecting Torque setting value, preventing miss-adjustment by operator.

適用機型  
Applicable Models

GL-01：F-3000、F-3XBL  
GL-02：RE/F、RE/F-BL  
GL-03：AC-BL、CY



### 扭力識別止滑色環 GR-01 Torque identification & anti-slip color ring GR-01

工位扭力設定顏色識別，電動起子機身止滑。  
To identify torque setting and prevent slips during operation.

適用機型  
Applicable Models

技友全系列電動起子  
All series Conos electric screwdriver



### 輔助手臂支架 Auxiliary Arm

輔助作業人員平衡精確操作並可降低工作負荷減少疲勞。  
To assist operators in maintaining balance and improving accuracy during operation, it reduces workload and workers' fatigue.

適用機型  
Applicable Models

技友全系列電動起子  
All series Conos electric screwdriver

技友牌提供高品質鋼料及精密加工製造的高品質耐用起子頭

Our screwdriver bits, hex sockets, nutsetters...etc., made of high grade tool steel, offer the best value for durability, performance & price.



### 十字型起子頭 Phillips Screw Bit

後部型式 Shank	4 mm	5 mm	5 mm Hex	1/4" Hex
前部外徑 Body (mm)	1.4 - 2.0	2.0 - 2.6	2.5 - 5.0	3.0 - 5.0
前端 Point #	00	0	1	2
長度 Overall Length (mm)	40 ~ 200			



### 一字型起子頭 Slotted Screw Bit

後部型式 Shank	4 mm	5 mm	5 mm Hex	1/4" Hex
寬度 Width	2.0 - 3.0	3.0 - 4.0	4.0 - 5.0	
厚度 Thickness	0.4	0.6		0.8
長度 Overall Length (mm)	40 ~ 100			



### 內六角起子頭 Bit for Hex Socket

後部型式 Shank	4 mm	5 mm	5 mm Hex	1/4" Hex
六角對邊 Hex Across Flat (mm)	1.27 / 1.5 / 2.0 / 2.5 / 3.0 / 4.0 / 5.0 / 6.0			
長度 Overall Length (mm)	40 ~ 100			



### 內六角套筒 Nutsetter, Magnetic or Non-magnetic

後部型式 Shank	4 mm	5 mm	5 mm Hex	1/4" Hex
六角對邊 Hex Across Flat (mm)	2.2 - 14.0			
長度 Overall Length (mm)	50 - 150			



### 梅花型起子頭 Torx Screw Bit

後部型式 Shank	4 mm	5 mm	5 mm Hex	1/4" Hex			
前部外徑 Body (mm)	2.0	2.5	3.0	3.5	4.0	5.0	6.0
規格 Specification	T5-T6	T7-T8	T9-T10	T15	T20	T25	T30
長度 Overall Length (mm)	40 - 100						

※ 各種特殊規格起子頭，均可依客戶要求定製。

ALSO AVAILABLE Pozidriv, Torx Tamper Resistant and other Special design or size are available depend on ordering quantity

### 起子頭編號說明 ORDERING CODE

**M6 - P - 30 - 60 - 1**

#### 後部型式 Shank:

M3 : 4mm  
M6 : 5mm  
U4 : 5mm HEX  
U5 : 1/4" HEX

#### 起子頭後部型式 Bit Type:

P : 十字起子頭 Phillips Screw Bit  
S : 一字起子頭 Slotted Screw Bit  
H : 內六角起子頭 Hex Socket  
N : 套筒 (無磁) Nutsetter, Non-magnetic  
G : 套筒 (含磁) Nutsetter, Magnetic  
T : 梅花型起子頭 Torx Screw Bit

#### 前部外徑 Body Size

or Width  
or Blade  
or Size  
or Hex Across Flat

#### 輸出端規格 Point # or Thickness

(#00, 0, 1, 2 0.4, 0.6, ...)

#### 起子頭長度 Overall Length

(40~200mm)