

數位扭力 扳手

Asmith

Digital Torque Wrench



ASMITH INDUSTRIAL HARDWARE
PROFESSIONAL MANUFACTURE & SALE

About us



關於我們

金石門公司創始於西元1981年，以工業五金做研發、製造、行銷為主軸，專精鉸鏈、門鎖、搭扣、腳座、把手、支撐器、腳輪等七大項工業五金產品研發製造。以上產品皆從研發製圖→開模→試產→量產，自原料選購到成品，整體流程品質控管。金石門團隊已有40餘年累積經驗於產品品質控管上之心得，「Asmith鐵匠牌」產品至今已行銷全球五大洲。

金石門以全方位服務銷售團隊，以專業嚴格的品質控管累積之經驗及精神做基石，於2013年成立數位扭力扳手部門，加上國內中部地區為手工具生產重鎮，受地利人合之條件下，發展一系列數位扭力扳手之產品，落實建立完善之售後服務，進而拓展國際商機，更希望能提升國內愛用者服務品質，該產品同時榮獲2013年台灣精品獎殊榮，並深獲消費者及業界一致肯定。

Asmith is a company established in 1981, specializing in the R&D, manufacture and marketing of industrial hardware, such as hinges, door locks, latches, leveling glides, handles and castors. All above products go through a process of cartography→molding→trial production→mass production, which is under monitor to meet quality control standards from choosing original material to the finished products. Asmith team has a over 40-year experience, and our products are sold in markets of five continents.

The comprehensive, fast services, professional sales team and strict quality control, accumulated experiences and professional spirit are the cornerstone of Asmith. In 2013, Asmith co-developed a series of digital torque wrenches with a high-tech company and also set up Digital Torque Wrench Department. After the implementation of the complete quality services for domestic customers, Asmith also expands to international markets. Digital torque wrench won Taiwan Excellence Award in the same year, 2013, and high value recognition from customers and industries.

Certification & Patent

專利與認證

金石門公司的數位扭力扳手擁有多國專利設計，SGS實驗室之CE安全認證，同時得到36個國家的專利許可，提供高品質的產品，以滿足客戶的需求。

Asmith digital torque wrench has 36 countries patent, example: SGS's CE certification provide high quality product.



台灣專利
Taiwan patent



大陸專利
Mainland China patent



歐盟專利
EU patent



SGS 認證
SGS certification



TAF 扭力校正報告
TAF calibration certificate



台灣精品獎
Taiwan Excellence Award

CONTENT

- 01 扳手選擇方法
How to choose a torque wrench

電速數位扭力扳手(WiFi+藍牙款)
Power Speed Digital Torque Wrench (WiFi & Bluetooth)

- 08 **WA-E (BW)** (角度/Angle)

機電扭力扳手(藍牙款)
Mechanical Torque Wrench (Bluetooth)

- 13 **WD-Q-BT** (標準/Standard)

- 14 **WD-I-BT** (換頭/Interchangeable)

數位扭力扳手
Digital Torque Wrench

一般型 Standard

- 21 **WM-Q(-BT)** (迷你-藍牙/Mini-Bluetooth)

- 22 **WQ** (標準/Standard)

- 23 **WQ-BT** (藍牙/Bluetooth)

- 24 **WA** (角度/Angle)

換頭型 Interchangeable

- 25 **WM-I(-BT)** (迷你-藍牙/Mini-Bluetooth)

- 26 **WI** (標準/Standard)

- 27 **WI-BT** (藍牙/Bluetooth)

起子型 Screwdriver

- 29 **WM-SD(-BT)** (起子-藍牙/Screwdriver-Bluetooth)

- 30 **WM-B (-BT)** (扳手-藍牙/Wrench-Bluetooth)

- 28 扭力接頭
Insert tools

- 31 **BIT起子頭工具架套組**
Screwdriver Bit Set

數位扭力顯示器
Digital Torque Adapter

- 32 **WS** (標準/Standard)

- 33 **WS-A** (角度/Angle)

- 34 扳手校正機
Torque Calibration System

四步驟選擇扳手(4 Steps To Choose A Wrench)

若已知扭力，可直接進入 4.選擇扳手，請參考第3頁

If the torque is known, you can proceed directly to Step 4: Selecting a Wrench(refer to p.3)



更多內容請參閱官網
Scan for more

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■ 螺絲等級

如不鏽鋼螺絲，屬於標準品『T』等級，如紅框

■ Screw Grade

For stainless steel screws, they belong to the standard grade "T"

螺絲適用分級
Screws and applicable T series

說明illustrate 等級分類 Level classification	Standard T series 標準品	0.5 T series 電子產品	1.8 T series 鎢鋼, 鉻鉬鋼	2.4 T series 建築鋼構
Screws (Strength 硬度) 螺絲 (Material 材質)	4.6~6.6 SS 不鏽鋼 SC 碳鋼	- CR (Brass) 紅銅 CB (Copper) 黃銅 AB (Aluminum) 鋁	8.8~12.9 SCr 鉻鋼 SNC 鎳鉻鋼 SCM 鉻鉬鋼	10.9~12.9 SCr 鉻鋼 SNC 鎳鉻鋼 SCM 鉻鉬鋼 SNCM 鎳鉻鉬鋼
適用產品 (Applicable products)	一般螺絲 Ordinary products	電子零件 Electronic products	工具、引擎、機械 Vehicles, Engines	建築零件 Construction products

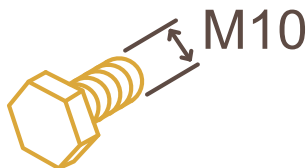
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■ 螺紋寬度

若寬度10mm，則代號為『M10』

■ Thread Width

If the width is 10mm, it is designated as『M10』



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■ 確認扭力

如右表格紅框，『M10 + T 等級』，則對應為『24.5 Nm』

■ Confirming Torque

『M10 + T grade』 corresponds to『24.5 Nm』

扭力單位換算表 / Torque Unit Conversion Table

單位 / Unit	lbf-in	lbf-ft	kgf-cm	cN-m	N-m
1 lbf - in	1	0.083	1.152	11.3	0.113
1 lbf - ft	12	1	13.83	135.6	1.356
1 kgf - cm	0.868	0.072	1	9.807	0.098
1 cN - m	0.088	0.007	0.102	1	0.01
1 N - m	8.851	0.738	10.2	100	1

Screw torque value comparison
Standard tightening torque

Nominal Size of Screw	T	0.5T	1.8T	2.4T
M1	0.0195	0.0098	0.035	0.047
(M1.1)	0.027	0.0135	0.049	0.065
M1.2	0.037	0.0185	0.066	0.088
(M1.4)	0.058	0.029	0.104	0.14
M1.6	0.086	0.043	0.156	0.205
(M1.8)	0.128	0.064	0.23	0.305
M2	0.176	0.088	0.315	0.42
(M2.2)	0.23	0.116	0.41	0.55
M2.5	0.36	0.18	0.65	0.86
M3	0.63	0.315	1.14	1.5
(M3.5)	1	0.5	1.8	2.4
M4	1.5	0.76	2.7	3.6
(M4.5)	2.15	1.08	3.9	5.2
M5	3	1.5	5.4	7.2
M6	5.2	2.6	9.2	12.2
(M7)	8.4	4.2	15	20
M8	12.5	6.2	22	29.5
M10	24.5	12.5	44	59
M12	42	21	76	100
M14	68	34	122	166
M16	106	53	190	255
(M18)	146	73	270	350
M20	204	102	370	490
(M22)	282	140	500	670
M24	360	180	650	860
(M27)	520	260	940	1240
M30	700	350	1260	1700
(M33)	960	480	1750	2300
M36	1240	620	2250	3000
(M39)	1600	800	2900	3800
M42	2000	1000	3600	4800
(M45)	2500	1260	4500	6000

Unit:Nm

Standard axial stress 210 N/mm² stress area of bolt(JIS B 1082)

Note: This is not converted from standard tightening torque kgf.cm

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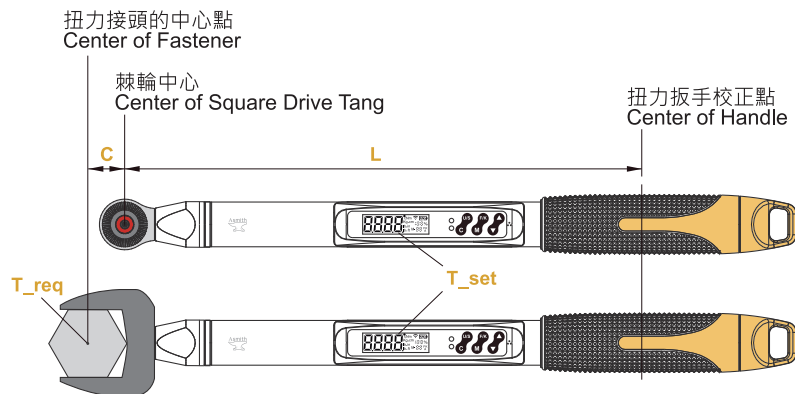
■ 選擇扳手

透過您常用的工具配件，決定您適用的扳手系列

■ Selecting a Wrench

Determine the appropriate wrench series through tool accessories

螺絲頭 / 工具 Screw head / Tool	扳手 Wrench	扳手扭力 Torque Range	扳手系列 Wrench series	扳手功能 Wrench Function	頁數 p.
 + 		20~220 Nm	WA-E	電動、數位、藍牙、WiFi、角度 Δ^θ Electric, Digital, BlueTooth , WiFi, Angle	08
		15~100 Nm	WD-Q	機械、電子、藍牙 Mechanical, Electronic , BlueTooth	13
		0.9~25 Nm	WM-Q	數位、藍牙 Digital, BlueTooth	21
		4.5~1000 Nm	WQ	數位、藍牙 Digital, BlueTooth	22~23
		4.5~1000 Nm	WA	數位、角度 Δ^θ Digital, Angle	24
		9~340 Nm	WS	數位、檢驗 Digital, Verification	32
		20~340 Nm	WS-A	數位、檢驗、角度 Δ^θ Digital, Verification, Angle	33
 +  + 		5~200 Nm	WD-I	機械、電子、藍牙 Mechanical, Electronic, BlueTooth	14
		0.9~25 Nm	WM-I	數位、藍牙 Digital, BlueTooth	25
		4.5~1000 Nm	WI	數位、藍牙 Digital, BlueTooth	26~27
 + 		0.1~4 Nm	WM-SD	起子、數位、藍牙 Screwdriver, Digital, BlueTooth	29
		0.9~25 Nm	WM-B	數位、藍牙 Digital, BlueTooth	30



扭力換算公式 Conversion Formula

$$T_{\text{set}} = T_{\text{req}} \times \left(\frac{L}{L + C} \right)$$

T_{set} : 輸入扭力 - 扭力扳手需設定的扭力值。

T_{req} : 輸出扭力 - 螺絲應該鎖的扭力值 (由螺絲扭力技術表得知)。

L : "扭力扳手校正點" 到 "棘輪中心" 的長度 (此為扳手出廠時的校正力臂)。

C : "扭力接頭的中心點" 到 "棘輪中心" 的長度。

※舉例：WM-I 系列： $L = 180 \text{ mm}$ ， $C = +5 \text{ mm}$ (頭部延長)，要使螺絲鎖的扭力 $T_{\text{req}} = 10 \text{ Nm}$

→ 扳手上需設定扭力值為：9.73 Nm

T_{set} (Torque Setting) : The torque value set on the torque wrench.

T_{req} (Required Torque) : The actual torque that should be applied to the fastener.

L (Effective Length of Torque Wrench) : The distance between the Center of Handle (Calibration Point) and the Center of Square Drive.

C (Extension Length) : The distance between the Fastener Center and the Square Drive Center.

※Example: WM-I series : $L = 180 \text{ mm}$ ， $C = +5 \text{ mm}$ For a required torque of 10 Nm

→ Set wrench to : 9.73 Nm



其他延伸狀況及影片
Other extensions and videos



電速數位扭力扳手 (藍牙+Wifi款) *Power Speed Digital Torque Wrench (BT & WiFi)*

- 雙重模式，動力和手動模式均內建在一個棘輪中，動力齒輪轉速 150~260轉/分鐘，扭力約 1 Nm，螺絲可被動力迅速鎖入，再透過手動鎖固達到設定扭力
 - 內藏壓力感應晶片，LCD背光顯示
 - 可自行設定扭力或角度±公差值
 - 高達5000筆扭力歷史記錄容量，可將歷史扭力紀錄(.csv)透過藍牙連接APP分享
 - 透過WiFi連線電腦，並可透過自行開發的通訊協定同時對多隻扳手發號指令
 - 可拆式充電鋰電池可快速充電，2800mAh可在60分鐘內充電超過80%
 - 三種扭力設定模式：兩種角度設定模式；以及量規模式
 - 蜂鳴器警示、LED燈警示、震動警示
 - 五種單位選擇 N-m, kg-cm, kg-m, in-lb, ft-lb
 - 50組扭力預設值
 - 一年校正時間提醒、使用5000次校正設定提醒
 - APP其他功能：可調整自動關機時間；可調整四種LED燈色對應的扭力百分比；可進行韌體更新；可進入校正模式
-
- Dual mode, with both power and manual modes built into a single ratchet. The power gear operates at a speed of 150-260 RPM, with a torque of approximately 1 Nm. Screws can be quickly locked in with power, and then manually tightened to reach the set torque.
 - Torque or angle can be set with $\pm$ tolerance values.
 - Up to 5000 torque history records capacity, with the ability to share historical torque records (.csv) via Bluetooth connection to an app.
 - Removable lithium battery with fast charging; 2800mAh can be charged over 80% in 60 minutes.
 - Buzzer alerts, LED light alerts, and vibration alerts.
 - Five unit options: N-m, kg-cm, kg-m, in-lb, ft-lb.
 - 50 preset torque values.



Torq Wrench



APP

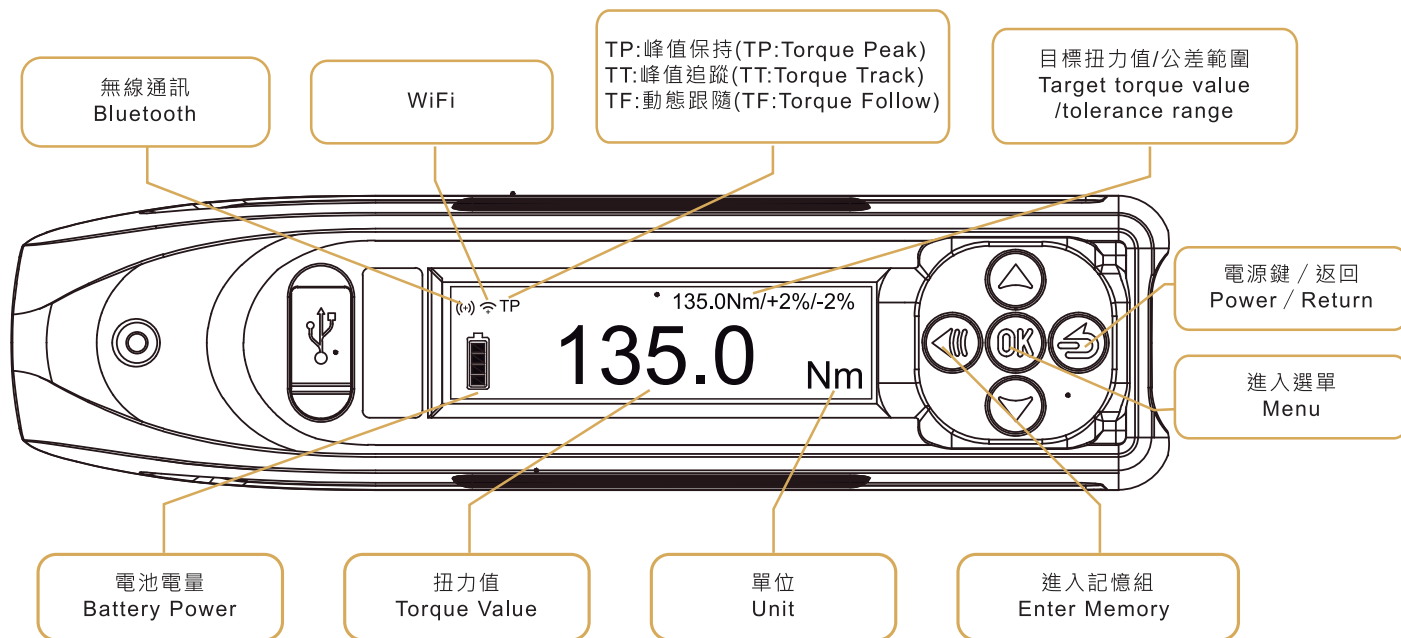


影片/Video

產品規格 / Product Specifications

記憶容量 Memory Capacity	5000 sets
單位選擇 Torque Units	Nm, kg.cm, kg.m, ft-lb, in-lb
防塵等級 Dust Protection Rating	IP5X
操作溫度 Operating Temperature	-20°C ~ 60°C
操作濕度 Operating Humidity	90%以下(最佳65%以下) Below 90% (Optimal Below 65%)
儲存溫度 Storage Temperature	< 35°C(最佳23°C) < 35°C(Optimal 23°C)
掉落測試 Drop Test	1m
振動測試 Shaking Test	100Hz & 500Hz & 2000Hz
鹽霧測試 Salt Spray Test	48hrs
電池規格 Battery specifications	18650
電池充電循環 Battery Charging Cycle	可達600次 Up to 600 times
電池充容量 Battery Capacity	2800 mAh





WA-E135-2-BW



- 電動棘輪方頭：動力齒輪轉速 150~260轉/分鐘，扭力約 1 Nm
- 角度功能：可在無受力狀態下量測旋轉多少角度的功能
- WiFi功能-1對多：利用自行開發的通訊軟體，可連接WiFi並向多台扳手發送指令，從而實現高效的控制和管理
- 配件：收納用塑膠盒x1，出廠校驗報告(符合ISO品質認證規範)x1，說明書x1，變壓器(Taiwan / US Plug (Type A), 110V)x1，充電座x1，充電式鋰電池x1，磁性套組x1(使套筒具有磁性吸螺絲用)
- Electric Ratchet Square Head : Power Gear rotation 150~260RPM, and torque is about 1 Nm
- Angle Measurement Function: Enables measurement of rotation angles in the absence of external force
- WiFi Function - One-to-Many: Features self-developed communication software that connects via WiFi, allowing commands to be sent to multiple wrenches for efficient control and management
- Content: Plastic storage box x1, Factory calibration report (compliant with ISO quality certification standards) x1, Transformer(Taiwan / US Plug (Type A), 110V) x1, Charging stand x1, Rechargeable lithium battery x1, magnetic insert x1.

藍牙功能 Bluetooth features



透過連線手機隨時掌握扭力，並輕鬆記錄每次操作亦可透過(Micro USB)將數據保存於電腦

The new Bluetooth design enables a seamless connection to your smartphone, allowing you to monitor torque values in real time and effortlessly record each operation. You can also save data to your computer via a Micro USB connection.

SPECIFICATIONS:

※Unit Conversion : 1 Nm = 10.2kgf-cm = 0.102 kgf-m = 0.738 lbf-ft = 8.851 lbf-in

產品編號 Item No.	精度 Accuracy	棘輪方頭 Drive	棘輪齒數 Ratchet Teeth	設定範圍 Setting Range	建議使用範圍 Suggested Range	解析度 Resolution	扳手長度 Length (mm)	扳手重量 Weight (g)
WA-E135-2-BW	CW: ±3% CCW: ±4%	3/8"	60	13.5~135 Nm / 1°~999°	20~135 Nm	0.1 Nm / 0.1°	450	1014
WA-E220-3-BW		1/2"		22~ 220 Nm / 1°~999°	33~220 Nm		530	1145
EWEB022800	充電式鋰電池(加購)Rechargeable Lithium Battery (Optional add-on)							



機電扭力扳手 (藍牙款) *Mechanical Torque Wrench (BT)*

- 機械、數位與藍牙的整合，達到準確、快速及數據化需求
- 全新機械扭力跳脫結構，到達扭力值後，產生強大的跳脫力警示聲
- LCD扭力數字化顯示，透過旋鈕即可輕鬆設定扭力，使用後無需歸零也不影響壽命
- APP可進行循環計次功能，連線後，APP可紀錄歷史數據 (數據保存於該手機的APP內)
- 使用者可自行開發軟體，連線到扳手存取使用過程(免費索取通訊協定)
- 廠內實測每5000次做一次校正，連續校正10次仍可保持精度穩定 (可索取校正流程，自行調整扭力數值進行校正)
- 四種單位選擇 N-m, ft-lb, in-lb, kgf-m
- 具有5000次使用次數到達提醒

- The integration of machinery, digital technology, and Bluetooth achieves accuracy, speed, and data-driven performance.
- After reaching the preset value, the structure features a large buffer space and a distinct mechanical clicking sound, which effectively prevents applying force too quickly, ensuring that the screw does not exceed the preset torque value.
- LCD Digital torque display allows easy torque setting via a dial, with no need to reset to zero after use, ensuring a long lifespan.
- The app supports cycle counting. Once connected, it can record historical data (stored within the app on this device).
- Users can develop their own software to connect to the wrench and access the usage process (free protocol available for download).
- After 5,000 uses and calibration, the tool maintained stable accuracy even after 10 consecutive recalibrations.
- Four unit options: Nm, ft-lb, in-lb, kgf-m.
- A reminder is provided when 5000 usage cycles are reached.



Wi-Click
Torq Wrench



APP



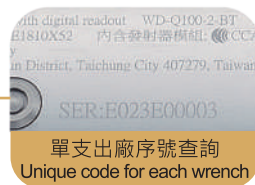
影片/Video

產品規格 / Product Specifications

電池壽命：持續操作 Battery life(continuous operation)	300 hrs
防水等級 IP Rating	IPX1
防塵等級 Dust Protection Rating	IP5X
操作溫度 Operating Temperature	-10°C ~ 50°C
儲存溫度 Storage Temperature	-10°C ~ 50°C
單位選擇 Torque Units	Nm, kg.m, ft-lb, lb-in
掉落測試 Drop Test	1m
振動測試 Shaking Test	100Hz & 500Hz
鹽霧測試 Salt Spray Test	48hrs
耐腐蝕測試 Corrosion Resistance Test	PASS
抗酸鹼測試 Acid-Alkaline Resistance Test	PASS
耐用度測試 Durability Test	每5000次校正一次，經過10次校正，功能無任何異常 Calibrated every 5,000 cycles with no functional issues detected after 10 calibration cycles.

WD-Q (-BT)

WD-I (-BT)





電池蓋鎖定孔
2mm六角扳手(未附)
Battery cover locking hole
2mm hexagonal wrench
(not included)

WD-Q100-BT
WD-I100-BT
WD-I200-BT



使用AAA電池
Use AAA batteries



固定扭力調整桿
Fixed torque rod



扭力調整旋鈕
Knob type
torque adjustment



LCD螢幕顯示
LCD screen



單鍵操作
One-button operation

WD-I30-BT



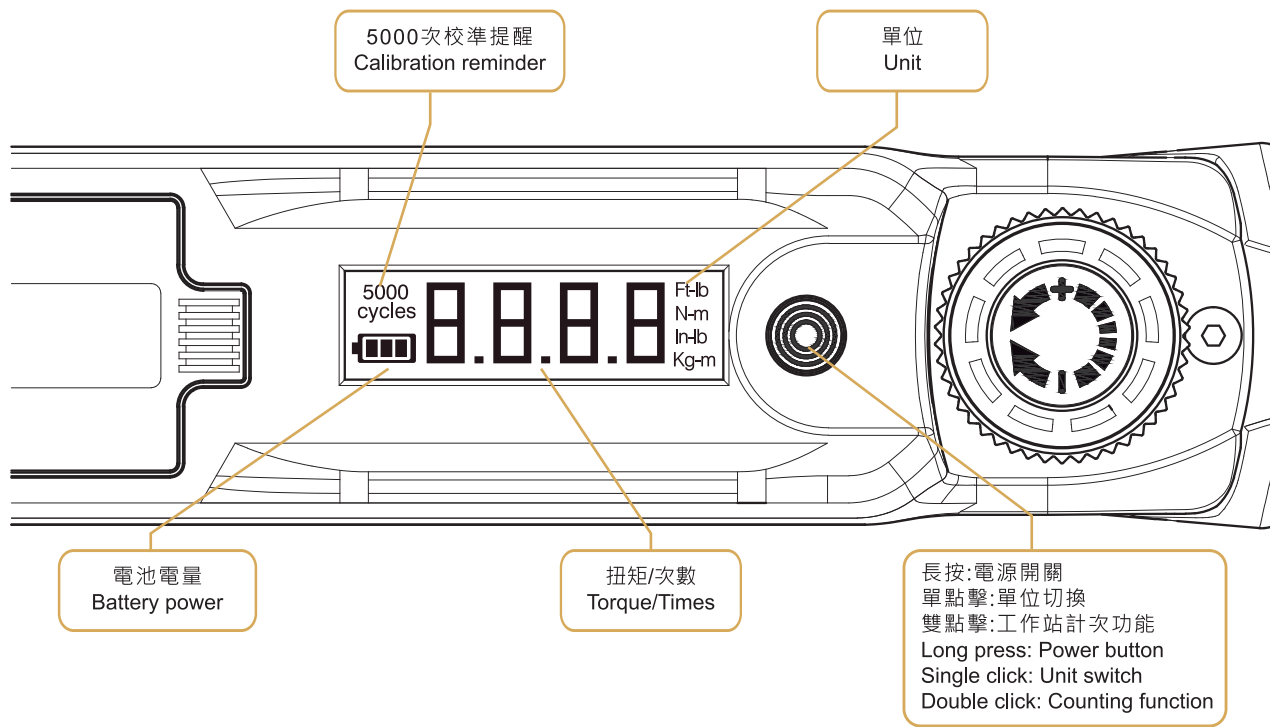
固定扭力調整桿
Fixed torque rod



扭力調整旋鈕
Knob type
torque adjustment



使用AAA電池
AAA*2 batteries





WD-Q100-2-BT



■ 扳手結構：順時針施力-到達設定扭力會產生跳脫聲響；逆時針施力-用於低扭力螺絲拆卸使用，無跳脫功能

■ 配件：收納用塑膠盒x1, 出廠校驗報告(符合ISO品質認證規範)x1, 說明書x1, AAA電池x2

■ Wrench Structure: Clockwise: audible click at preset torque.

Counterclockwise: for low-torque screw removal only, no torque release mechanism.

■ Content : Plastic storage box x1, Factory calibration report (compliant with ISO quality certification standards) x1, manual x1

藍牙功能 Bluetooth features



SPECIFICATIONS:

※Unit Conversion : 1 Nm = 0.102 kgf-m = 0.738 lbf-ft = 8.851 lbf-in

產品編號 Item No.	精度(CW) Accuracy	棘輪方頭 Drive	棘輪齒數 Ratchet Teeth	設定範圍 Setting Range	建議使用範圍 Suggested Range	解析度 Resolution	扳手長度 Length (mm)	扳手重量 Weight (g)
WD-Q100-2-BT	≥20Nm:±3% <20Nm:±4%	3/8"	72	15~100 Nm	25~100 Nm	0.2 Nm	485	1040

1. APP可進行循環計次功能
2. 連線後，APP可紀錄歷史數據（數據保存於該手機的APP內）
1. APP for cycle counting.
2. Once connected, the app can record historical data (Data is stored within the app on this device).



加購配件，請參考28頁
Optional add-on
Please refer to P.28



棘輪方頭/插槽
Drive / Insert



■ 扳手結構：順時針施力-到達設定扭力會產生跳脫聲響；逆時針施力-用於低扭力螺絲拆卸使用（若將棘輪頭轉向180度如上圖，可達到逆時針施力跳脫的作用）

■ 配件：收納用塑膠盒x1，出廠校驗報告(符合ISO品質認證規範)x1，說明書x1，AAA電池x2

■ Wrench structure: Applying force clockwise - a click sound will occur when the set torque is reached; applying force counterclockwise - used for loosening low-torque screws (if the ratchet head is turned 180 degrees as shown in the image, applying force counterclockwise can also produce a click sound).

■ Content : Plastic storage box x1, Factory calibration report (compliant with ISO quality certification standards) x1, manual x1

藍牙功能
Bluetooth features



SPECIFICATIONS:

※Unit Conversion : 1 Nm = 0.102 kgf-m = 0.738 lbf-ft = 8.851 lbf-in

產品編號 Item No.	精度(CW) Accuracy	插槽 Insert	棘輪方頭 Drive	棘輪齒數 Ratchet Teeth	設定範圍 Setting Range	建議使用範圍 Suggested Range	解析度 Resolution	扳手長度 Length (mm)	扳手重量 Weight (g)
WD-I30-1-BT	≥15Nm:±3% <15Nm:±4%	9x12mm	1/4"	72	5~30 Nm	8~30 Nm	0.1 Nm	361	470
WD-I100-2-BT	≥20Nm:±3% <20Nm:±4%	14x18mm	3/8"		15~100 Nm	25~100 Nm	0.2 Nm	483	1140
WD-I200-3-BT	≥40Nm:±3% <40Nm:±5%		1/2"		30~200 Nm	40~200 Nm	0.5 Nm	585	1510

- APP可進行循環計次功能
- 連線後，APP可紀錄歷史數據（數據存於該手機的APP內）
- APP for cycle counting.
- Once connected, the app can record historical data (Data is stored within the app on this device).



數位扭力扳手 *Digital Torque Wrench*

- LCD背光顯示
- 順時針及逆時針皆可操作
- 峰值保持(K) 與扭力追隨(F)模式 (可訂製特殊K模式) · WA series另含角度模式 (A)
- 四種扭力單位 · 可供選擇切換:N-m, kgf-cm, lbf-in, lbf-ft
WM-SD系列為三種扭力單位:cN-m, kgf-cm, in-lb
- 蜂鳴聲、LED燈警示(到達預設扭力值80%時)
- 震動警示(到達預設扭力值90%時)
- 省電模式: 2分鐘自動關機 (可訂製不關機模式)
- 記錄使用次數、歷史最大扭力
- 藍牙款:透過藍牙連線手機 · 隨時查詢歷史扭力紀錄(最多可瀏覽1000筆)
可透過Type-C將歷史扭力紀錄傳輸到電腦 · 以利品質控管
- LCD backlight display
- Both operator for cw, ccw
- Two modes : Peak hold (K) / Track (F), WA series also include an Angle (A)
- 4 units change: N-m, kgf-cm, lbf-in, lbf-ft (WM-SD series: cN-m, kgf-cm, in-lb)
- Warning function : Beep, LED indicator (When reach the torque setting value 80%)
- Vibration function : When reach the torque setting value 90%
- Automatically powers off when not in use for 2 minutes
(The non-shutdown mode can be customized)
- Recording usage frequency and the historical maximum torque
- Bluetooth Type: Access historical data at any time through Bluetooth connection to the mobile phone.(View up to 1000 records) connect via Type-C to save data on the computer



mobile wrench



BT-APP



影片-藍牙款
Video-BT



電腦軟體-藍牙款
Software-BT



影片-標準款
Video

充電款技術規格 / Rechargeable Battery Technical Data (Battery : Standard 16650/ Mini 10440)			
操作時間(連續滿載) Operating Time (Continuous Full Load)	8~10 hrs	充電輸入電壓 Charging Input Voltage	5V=1A
標稱電壓 Nominal Voltage	3.7V	內阻 Internal Resistance	< 60mΩ
充電時間 Recharge Time	Standard 90-120 mins / Mini 60-90 mins		
使用環境 (溫度) Storage conditions (Temperature)	Recharge : 10°C~ 45°C Discharge : -10°C ~ 60°C Storage : -20°C ~ 25°C (< 1 year) -20°C ~ 40°C (< 3 months) -20°C ~ 50°C (< 1 month)		
使用環境 (濕度) Storage conditions (Humidity)	Work : 20% ~ 85%RH (not condensed) Storage : 40% ~ 85%RH (not condensed)		
標稱容量 Nominal Capacity	Standard 1600mAh / Mini 320mAh X2		
壽命測試 Lifetime Testing	電池標準充放電300次循環後高於容量80% Capacity remains above 80% after 300 standard charge-discharge cycles.		
內建雙重保護IC電路 Built-in Dual Protection IC Circuit	提供過壓充電、過壓放電、過流充電、過熱過載、 短路等保護 Provides protection against over-voltage charging, over-voltage discharging, over-current charging, overheating, overload, and short circuits.		

電池款技術規格 / Dry Cell Technical Data			
操作時間(連續滿載) Operating Time (Continuous Full Load)	5-10 hrs (WS: 37 hrs)	操作溫度 Operating temperature	-10℃~ 60℃
電池壽命：待機模式 Battery Llife (Standard Mode)	1 year	儲存溫度 Storage temperature	-20℃~70℃
濕度 Humidity	無凝露可到90% Up to 90% (not condensed)		
共用規格 / Common Specification			
預設值儲存組數 No. of memory parameters	30		
LED警示燈	2(1Green + 1Red)		
震動警示 Vibration Warning	YES(到達預設扭力90%・震動警示啟動) (Activate when set value reaches 90%)		
操作模式 Operating modes	峰值保持(K)與 追隨模式 (F) *WA & WS-A series另含角度模式 (A) Peak hold (K) / Track (F) *WA & WS-A series also include an Angle (A)		
單位選擇 Torque Units	Nm, kg-cm, lb-ft, lb-in (WM-SD series: cNm, kg-cm, lb-in)		
掉落測試 Drop test	1m		
振動測試 Shaking test	10G(10Hz→55Hz→10Hz/0.8mm)		
耐用度 Durability	Over 10000 cycles		
環境測試 Environmental test	PASS	電磁相容測試 EMC test	PASS





藍牙充電款：內建電芯保護特規電池，請勿自行更換市售充電電池
Bluetooth Type : Built-in battery with special specifications for cell protection,
please do not replace it with commercially available rechargeable batteries.



WM-Q(-BT)



棘輪切換
Reversible ratchet

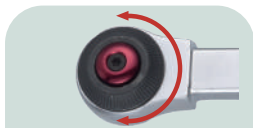


棘輪方頭
Square head



快速脫離
Quick release

WM-I(-BT)



棘輪切換
Reversible ratchet



棘輪方頭/插槽
Square head / Insert



快速脫離
Quick release

WM-SD(-BT)



強磁吸附
Magnetic adsorption



Bit 六角插槽
Bit Insert(Hex)



前拉脫離
Front pull out

WM-B(-BT)



棘輪切換
Reversible ratchet



Bit 六角插槽
Bit Insert(Hex)



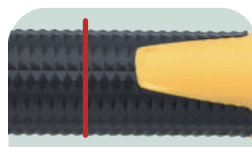
夾持設計
Clamping Mechanism



藍牙充電款：①電源重置
②USB插頭(Type C)
Bluetooth Type：①Reset
②USB insert(Type C)



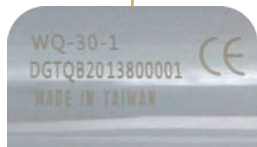
震動警示功能
Vibration function



校正定位點
Calibration point



防油防滑設計握柄(專利)
Non-slip grip handle(patent)



單支出廠序號查詢
Unique code for each wrench



簡易操作
Use friendly



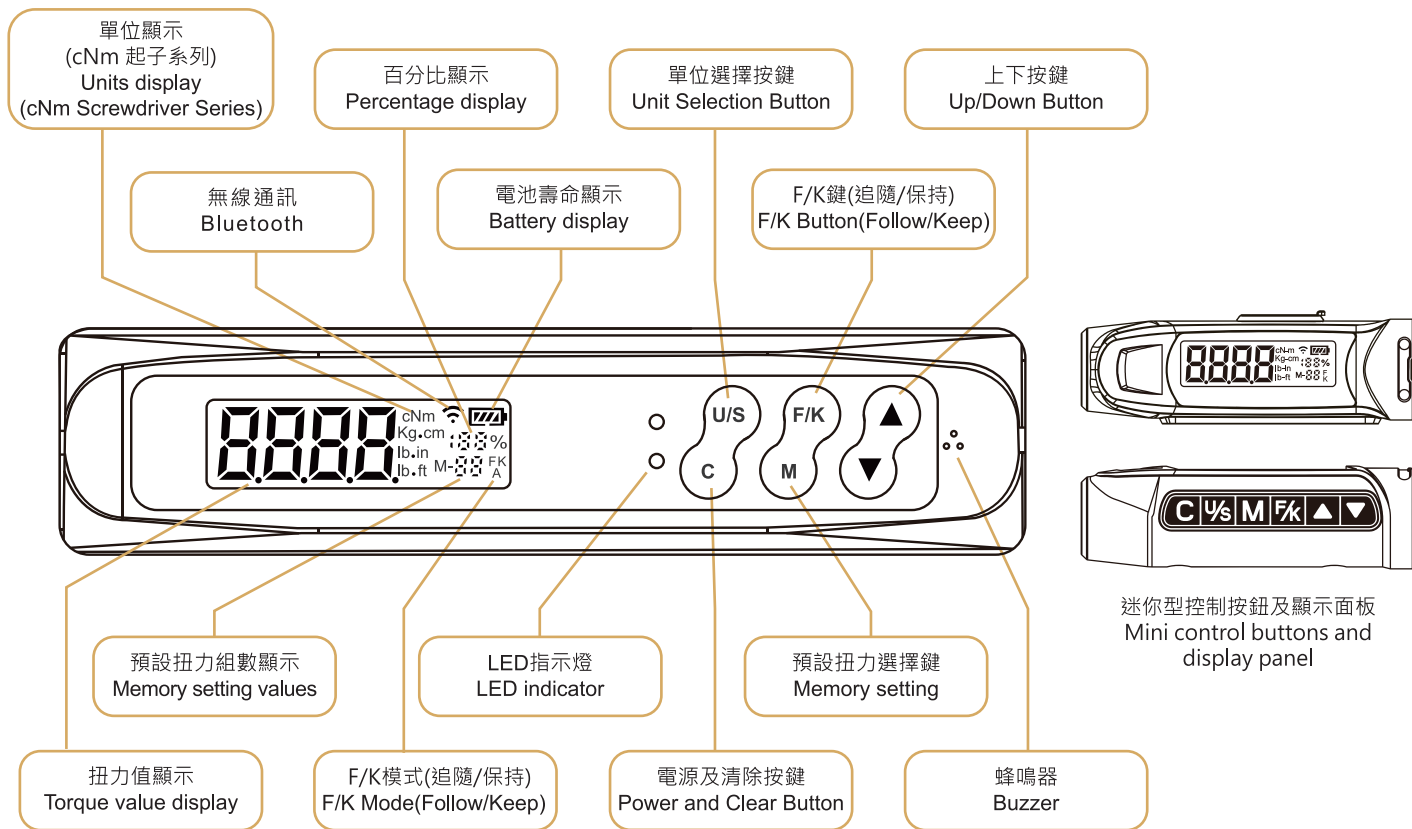
LED提醒/蜂鳴警示
LEDs(Green/Red)/Buzzer



電池款-使用AAA*2電池
藍牙款-使用10440電池
Battery Type-AAA*2 batteries
Bluetooth Type-10440 battery

藍牙充電款：內建電芯保護特規電池，請勿自行更換市售充電電池
Bluetooth Type：Built-in battery with special specifications for cell protection, please do not replace it with commercially available rechargeable batteries.







WM-Q



WM-Q(-BT)



藍牙功能
Bluetooth features



扳手內建記憶體，
可將扳手歷史數據
連線手機進行輸出

The wrench has
built-in memory,
allowing it to connect
to a mobile phone to
output historical data.

■ 配件：收納用鐵製工具箱x1, 出廠校驗報告(符合ISO品質認證規範)x1, 說明書(中/英)x1, 藍牙-充電款: Type-C 充電線
電池款: AAA電池x2, 迷你螺絲起子(更換電池用)x1,

■ Content : Storage steel box x1, Certificate of calibration report (Using ISO specification) x1, User guide(Bilingual) x1,
Bluetooth Type: Type-C cable, Battery Type: Mini screwdriver(replace the battery) x1

SPECIFICATIONS:

※Unit Conversion : 1 Nm = 10.2 kgf-cm = 0.738 lbf-ft = 8.851 lbf-in

產品編號 Item No.		精度 Accuracy	棘輪方頭 Drive	棘輪齒數 Ratchet Teeth	顯示及設定範圍 Setting Range	建議使用範圍 Suggested Range	解析度 Resolution	扳手長度 Length(mm)	扳手重量 Weight(g)
電池款 Battery Type	藍牙-充電款 Bluetooth Type								
WM-Q06-1	WM-Q06-1-BT	CW:±3% CCW:±4%	1/4"	72	0.3~6 Nm	0.9~6 Nm	0.01 Nm	244	210
WM-Q15-1	WM-Q15-1-BT				0.75~15 Nm	2.25~15 Nm			
WM-Q25-1	WM-Q25-1-BT				1.25~25 Nm	3.75~25 Nm			

註：精度的扭力範圍在最大操作值的20%~100%

Notes: Accuracy guaranteed at 20% to 100% of full scale.



WQ-200-3



- 配件：收納用鐵製工具盒x1, 出廠校驗報告(符合ISO品質認證規範)x1, 說明書(中/英)x1, AA電池x2
■ Content : Storage steel box x1, Certificate of calibration report x1, User guide(Bilingual) x1

SPECIFICATIONS:

※Unit Conversion : 1 Nm = 10.2 kgf-cm = 0.738 lbf-ft = 8.851 lbf-in

產品編號 Item No. 電池款 Battery Type	精度 Accuracy	棘輪方頭 Drive	棘輪齒數 Ratchet Teeth	顯示及設定範圍 Setting Range	建議使用範圍 Suggested Range	解析度 Resolution	扳手長度 Length(mm)	扳手重量 Weight(±50g)	
WQ-30-1	CW:±1.5% CCW:±2.5%	1/4"	72	1.5~30 Nm	4.5~30 Nm	0.01 Nm	410	720	
WQ-30-2		3/8"		3~60 Nm 9~60 Nm				740	
WQ-60-2									
WQ-135-2		1/2"		6.8~135 Nm	20~135 Nm	0.1 Nm	434	890	
WQ-135-3				10~200 Nm	30~200 Nm		454	1080	
WQ-200-3				17~340 Nm	50~340 Nm		565	1300	
WQ-340-3				30~600 Nm	90~600 Nm		666	1420	
WQ-600-4		3/4"	24	40~800 Nm	120~800 Nm		940	3800	
WQ-800-4				50~1000 Nm	150~1000 Nm	1 Nm	1235	4800	
WQ-1000-4									

註：精度的扭力範圍在最大操作值的20%~100%

Notes: Accuracy guaranteed at 20% to 100% of full scale.



WQ-60-2-BT



■ 配件：收納用鐵製工具箱x1, 出廠校驗報告(符合ISO品質認證規範)x1, 說明書(中/英)x1, Type-C 充電線

■ Content : Storage steel box x1, Certificate of calibration report (Using ISO specification) x1, User guide(Bilingual) x1, Type-C cable

SPECIFICATIONS:

※Unit Conversion : 1 Nm = 10.2 kgf-cm = 0.738 lbf-ft = 8.851 lbf-in

產品編號 Item No.	精度	棘輪方頭	棘輪齒數	顯示及設定範圍	建議使用範圍	解析度	扳手長度	扳手重量	
藍牙-充電款 Bluetooth Type	Accuracy	Drive	Ratchet Teeth	Setting Range	Suggested Range	Resolution	Length(mm)	Weight(±50g)	
WQ-30-1-BT	CW:±1.5% CCW:±2.5%	1/4"	72	1.5~30 Nm	4.5~30 Nm	0.01 Nm	394	770	
WQ-30-2-BT		3/8"		3~60 Nm	9~60 Nm			795	
WQ-60-2-BT					0.1 Nm	418	898		
WQ-135-2-BT				6.8~135 Nm		20~135 Nm	438	1114	
WQ-135-3-BT		1/2"		10~200 Nm		30~200 Nm	549	1272	
WQ-200-3-BT				17~340 Nm		50~340 Nm	650	1470	
WQ-340-3-BT				30~600 Nm		90~600 Nm	940	3902	
WQ-600-4-BT		3/4"	24	40~800 Nm	120~800 Nm	1 Nm	1235	4695	
WQ-800-4-BT				50~1000 Nm	150~1000 Nm				
WQ-1000-4-BT									

藍牙功能
Bluetooth features

扳手內建記憶體，
可將扳手歷史數據
連線手機進行輸出

The wrench has
built-in memory,
allowing it to connect
to a mobile phone to
output historical data.

註：精度的扭力範圍在最大操作值的20%~100%

Notes: Accuracy guaranteed at 20% to 100% of full scale.

WA-30-1



- 可訂製藍牙功能款
- 鎖固時，可量測旋轉多少角度的功能
- 配件：收納用鐵製工具箱x1，出廠校驗報告(符合ISO品質認證規範)x1，說明書(中/英)x1，AA電池x2
- Customizable Bluetooth
- Can measurement the degree after tighten the screw or nut
- Content : Storage steel box x1, Certificate of calibration report (Using ISO specification) x1, User guide(Bilingual) x1

SPECIFICATIONS:

※Unit Conversion : 1 Nm = 10.2 kgf-cm = 0.738 lbf-ft = 8.851 lbf-in

產品編號 Item No. 電池款 Battery Type	精度 Accuracy	棘輪方頭 Drive	棘輪齒數 Ratchet Teeth	顯示及設定範圍 Setting Range	建議使用範圍 Suggested Range	解析度 Resolution	扳手長度 Length(mm)	扳手重量 Weight(±50g)	
WA-30-1	CW:±1.5% CCW:±2.5%	1/4"	72	1.5~30 Nm / 0.1°~360°	4.5~30 Nm	0.01 Nm / 0.1°	410	720	
WA-60-2		3/8"		3~60 Nm / 0.1°~360°	9~30 Nm			740	
WA-135-2				1/2"	6.8~135 Nm / 0.1°~360°	20~135 Nm	434	890	
WA-135-3		24	10~200 Nm / 0.1°~360°		30~200 Nm	0.1 Nm / 0.1°	454	1080	
WA-200-3			17~340 Nm / 0.1°~360°	50~340 Nm	565		1300		
WA-340-3			30~600 Nm / 0.1°~360°	90~600 Nm	666		1420		
WA-600-4			3/4"		40~800 Nm / 0.1°~360°		120~800 Nm	940	3800
WA-800-4					50~1000 Nm / 0.1°~360°		150~1000 Nm	1 Nm / 0.1°	1235
WA-1000-4									

註：精度的扭力範圍在最大操作值的20%~100%

Notes: Accuracy guaranteed at 20% to 100% of full scale.

WM-I(-BT) Series

迷你換頭型 - 數位扭力扳手

Mini Digital Interchangeable Torque Wrench



藍牙功能 Bluetooth features



扳手內建記憶體，
可將扳手歷史數據
連線手機進行輸出

The wrench has
built-in memory,
allowing it to connect
to a mobile phone to
output historical data.

- 配件：收納用鐵製工具箱x1，出廠校驗報告(符合ISO品質認證規範)x1，說明書(中/英)x1，棘輪接頭x1，藍牙-充電款: Type-C 充電線
電池款: AAA電池x2，迷你螺絲起子(更換電池用)x1
- Content : Storage steel box x1, Certificate of calibration report (Using ISO specification) x1, User guide(Bilingual) x1,
Ratchet insert tool x1, Bluetooth Type: Type-C cable, Battery Type: Mini screwdriver(replace the battery) x1

SPECIFICATIONS:

※Unit Conversion : 1 Nm = 10.2 kgf-cm = 0.738 lbf-ft = 8.851 lbf-in

產品編號 Item No.	電池款 Battery Type	藍牙-充電款 Bluetooth Type	精度 Accuracy	插槽 Insert	棘輪方頭 Drive	棘輪齒數 Ratchet Teeth	顯示及設定範圍 Setting Range	建議使用範圍 Suggested Range	解析度 Resolution	扳手長度 Length(mm)	扳手重量 Weight(g)
WM-I06-1	WM-I06-1-BT		CW:±3% CCW:±4%	9x12mm	1/4"	72	0.3~6 Nm	0.9~6 Nm	0.01 Nm	255	270
WM-I15-1	WM-I15-1-BT						0.75~15 Nm	2.25~15 Nm			
WM-I25-1	WM-I25-1-BT						1.25~25 Nm	3.75~25 Nm			

註：精度的扭力範圍在最大操作值的20%~100%

Notes: Accuracy guaranteed at 20% to 100% of full scale.



加購配件，請參考28頁
Optional add-on
Please refer to P.28



棘輪方頭/插槽
Drive / Insert

WI-30-1



僅附此棘輪頭
Only Accessory

■ 配件：收納用鐵製工具箱x1, 出廠校驗報告(符合ISO品質認證規範)x1, 說明書(中/英)x1, 棘輪接頭 x1, AA電池x2

■ Content : Storage steel box x1, Certificate of calibration report (Using ISO specification) x1, User guide(Bilingual) x1, Ratchet insert tool x1

SPECIFICATIONS:

※Unit Conversion : 1 Nm = 10.2 kgf-cm = 0.738 lbf-ft = 8.851 lbf-in

產品編號 Item No. 電池款 Battery Type	精度 Accuracy	插槽 Insert	棘輪方頭 Drive	棘輪齒數 Ratchet Teeth	顯示及設定範圍 Setting Range	建議使用範圍 Suggested Range	解析度 Resolution	扳手長度 Length(mm)	扳手重量 Weight(±50g)	
WI-30-1	CW:±2% CCW:±3%	9x12mm	1/4"	72	1.5~30 Nm	4.5~30 Nm	0.01 Nm	403	750	
WI-60-2			3/8"		3~60 Nm	9~60 Nm		413	800	
WI-135-2					6.8~135 Nm	20~135 Nm		0.1 Nm	425	900
WI-30-3		14x18mm	1/2"		1.5~30 Nm	6~30 Nm	0.01 Nm	435	950	
WI-60-3					3~60 Nm	12~60 Nm				
WI-135-3					6.8~135 Nm	20~135 Nm				0.1 Nm
WI-200-3					10~200 Nm	30~200 Nm	559	1350		
WI-340-3					17~340 Nm	50~340 Nm	665	1500		
WI-600-4					30~600 Nm	90~600 Nm	900	3540		
WI-800-4			3/4"		40~800 Nm	120~800 Nm	1200	4460		
WI-1000-4					50~1000 Nm	150~1000 Nm				

註：精度的扭力範圍在最大操作值的20%~100%

Notes: Accuracy guaranteed at 20% to 100% of full scale.



加購配件：請參考28頁
Optional add-on
Please refer to P.28



棘輪方頭/插槽
Drive / Insert

WI-135-3-BT



僅附此棘輪頭
Only Accessory

- 配件：收納用鐵製工具箱x1, 出廠校驗報告(符合ISO品質認證規範)x1, 說明書(中/英)x1, 棘輪接頭 x1, Type-C 充電線
- Content : Storage steel box x1, Certificate of calibration report (Using ISO specification) x1, User guide(Bilingual) x1, Ratchet insert tool x1, Type-C cable

SPECIFICATIONS:

※Unit Conversion : 1 Nm = 10.2 kgf-cm = 0.738 lbf-ft = 8.851 lbf-in

產品編號 藍牙-充電款 Bluetooth Type	精度 Accuracy	插槽 Insert	棘輪方頭 Drive	棘輪齒數 Ratchet	顯示及設定範圍 Setting Range	建議使用範圍 Suggested	解析度 Resolution	扳手長度 Length (mm)	扳手重量 Weight (±50g)	
WI-30-1-BT	CW:±2% CCW:±3%	9x12mm	1/4"	72	1.5~30 Nm	4.5~30 Nm	0.01 Nm	387	778	
WI-60-2-BT			3/8"		3~60 Nm	9~60 Nm		397	810	
WI-135-2-BT					6.8~135 Nm	20~135 Nm		0.1 Nm	409	884
WI-30-3-BT		14x18mm	1/2"		1.5~30 Nm	6~30 Nm	0.01 Nm	419	1110	
WI-60-3-BT					3~60 Nm	12~60 Nm				
WI-135-3-BT					6.8~135 Nm	20~135 Nm	0.1 Nm	543	1270	
WI-200-3-BT					10~200 Nm	30~200 Nm				
WI-340-3-BT					17~340 Nm	50~340 Nm				
WI-600-4-BT			3/4"		30~600 Nm	90~600 Nm		900	3600	
WI-800-4-BT					40~800 Nm	120~800 Nm				
WI-1000-4-BT					50~1000 Nm	150~1000 Nm				

藍牙功能 Bluetooth features



扳手內建記憶體，
可將扳手歷史數據
連線手機進行輸出

The wrench has
built-in memory,
allowing it to connect
to a mobile phone to
output historical data.

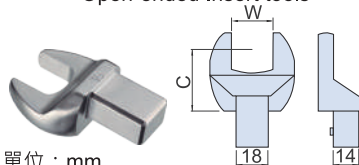
註：精度的扭力範圍在最大操作值的20%~100%

Notes: Accuracy guaranteed at 20% to 100% of full scale.

W-Y W-R Series

扭力接頭 Insert Tools

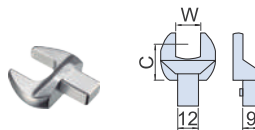
14X18 開口式扭力接頭
Open-ended Insert tools



單位：mm

產品編號 Item No.	W	C	適用產品 Apply to
W-Y0213	13	25	WI-30-3 WI-60-3 WI-135-3 WI-200-3 WI-340-3 WI-400-3 WI-600-4 WI-800-4 WI-1000-4 WD-I100-2-BT WD-I200-3-BT
W-Y0214	14		
W-Y0215	15		
W-Y0216	16		
W-Y0217	17		
W-Y0218	18		
W-Y0219	19		
W-Y0221	21		
W-Y0222	22		
W-Y0224	24	32.5	
W-Y0226	26		
W-Y0227	27		
W-Y0230	30		
W-Y0232	32		
W-Y0234	34		
W-Y0236	36		
W-Y0238	38		
W-Y0241	41		
W-Y0246	46	50	
W-Y0250	50		
W-Y0255	55	55	
W-Y0260	60	60	
W-Y0265	65	65	
W-Y0270	70	71	

9X12 開口式扭力接頭
Open-ended Insert tools



單位：mm

產品編號 Item No.	W	C	適用產品 Apply to
W-Y0107	7	17.5	WM-I06-1 WM-I15-1 WM-I25-1 WI-30-1
W-Y0108	8		
W-Y0109	9		
W-Y0110	10		
W-Y0111	11		
W-Y0112	12		
W-Y0113	13		
W-Y0114	14	20	WI-60-2 WI-135-2 WD-I30-1-BT
W-Y0115	15		
W-Y0116	16		
W-Y0117	17		
W-Y0118	18		
W-Y0119	19		
W-Y0121	21	25	WI-30-3 WI-60-3
W-Y0122	22		
W-Y0124	24		
W-Y0126	26	32	WI-135-3 WD-I30-1-BT
W-Y0127	27		
W-Y0130	30		

9X12 (開口)梅花式扭力接頭
(Open-)Ring Insert tools



單位：mm

產品編號 Item No.	W	C	適用產品 Apply to
W-R0107	7	17.5	WM-I06-1 WM-I15-1 WM-I25-1 WI-30-1 WI-60-2 WI-135-2 WD-I30-1-BT
W-R0108	8		
W-R0109	9		
W-R0110	W-YR0110	10	
W-R0111	W-YR0111	11	
W-R0112	W-YR0112	12	
W-R0113	W-YR0113	13	
W-R0114	W-YR0114	14	
W-R0115		15	
W-R0116	W-YR0116	16	
W-R0117	W-YR0117	17	
W-R0118	W-YR0118	18	
W-R0119	W-YR0119	19	
W-R0121	W-YR0121	21	
W-R0122	W-YR0122	22	
W-R0124		24	

C: 距離螺絲中心點長度

C: Screw Center Distance

WM-SD(-BT) Series

迷你起子型-數位扭力起子

Mini Digital Torque Screwdriver

加購配件：請參考31頁
Optional add-on
Please refer to P.31



Bit 六角插槽
Bit Insert



套筒用轉接頭
Hex shank socket adapter



WM-SD



WM-SD(-BT)



藍牙功能
Bluetooth features



扳手內建記憶體，
可將扳手歷史數據
連線手機進行輸出

The wrench has
built-in memory,
allowing it to connect
to a mobile phone to
output historical data.

配件：收納用鐵製工具箱x1, 出廠校驗報告(符合ISO品質認證規範)x1, 說明書(中/英)x1, 套筒用轉接頭(六角轉四角方頭1/4")x1,
藍牙-充電款: Type-C 充電線, 電池款: AAA電池x2, 迷你螺絲起子(更換電池用)x1

Content : Storage steel box x1, Certificate of calibration report (Using ISO specification) x1, User guide(Bilingual) x1,
1/4" Hex Shank Socket Adapter x1, Bluetooth Type: Type-C cable, Battery Type: Mini screwdriver(replace the battery) x1

SPECIFICATIONS:

※Unit Conversion : 1 cNm = 0.01 Nm = 0.102 kgf-cm = 0.088 lbf-in

產品編號 Item No.		精度 Accuracy	Bit 六角插槽 Bit Insert	顯示及設定範圍 Setting Range	建議使用範圍 Suggested Range	解析度 Resolution	起子長度 Length (mm)	起子重量 Weight (g)
電池款 Battery Type	藍牙-充電款 Bluetooth Type							
WM-SD50-1	WM-SD50-1-BT	CW:±3% CCW:±4%	1/4"	5~50 cNm	10~50 cNm (0.1~0.5 Nm)	0.1 cNm	234	180
WM-SD200-1	WM-SD200-1-BT			10~200 cNm	30~200 cNm (0.3~2 Nm)			
WM-SD400-1	WM-SD400-1-BT			20~400 cNm	60~400 cNm (0.6~4 Nm)			

註：精度的扭力範圍在最大操作值的20%~100%

Notes: Accuracy guaranteed at 20% to 100% of full scale.

WM-B(-BT) Series

迷你起子型-數位扭力扳手

Mini Digital Torque Wrench (Bit)

加購配件：請參考31頁
Optional add-on
Please refer to P.31



Bit 六角插槽
Bit Insert



套筒用轉接頭
Hex shank socket adapter

WM-B



WM-B(-BT)



藍牙功能
Bluetooth features



扳手內建記憶體，
可將扳手歷史數據
連線手機進行輸出

The wrench has
built-in memory,
allowing it to connect
to a mobile phone to
output historical data.

■ 配件：收納用鐵製工具盒x1, 出廠校驗報告(符合ISO品質認證規範)x1, 說明書(中/英)x1, 套筒用轉接頭(六角轉四角方頭1/4")x1,
藍牙-充電款: Type-C 充電線, 電池款: AAA電池x2, 迷你螺絲起子(更換電池用)x1

■ Content : Storage steel box x1, Certificate of calibration report (Using ISO specification) x1, User guide(Bilingual) x1,
1/4" Hex Shank Socket Adapter x1, Bluetooth Type: Type-C cable, Battery Type: Mini screwdriver(replace the battery) x1

SPECIFICATIONS:

※Unit Conversion : 1 Nm = 10.2 kgf-cm = 0.738 lbf-ft = 8.851 lbf-in

產品編號 Item No.		精度 Accuracy	Bit 六角插槽 Bit Insert	棘輪齒數 Ratchet Teeth	顯示及設定範圍 Setting Range	建議使用範圍 Suggested Range	解析度 Resolution	扳手長度 Length (mm)	扳手重量 Weight (g)
電池款 Battery Type	藍牙-充電款 Bluetooth Type								
WM-B06-1	WM-B06-1-BT	CW:±3% CCW:±4%	1/4"	72	0.3~6 Nm	0.9~6 Nm	0.01 Nm	244	200
WM-B15-1	WM-B15-1-BT				0.75~15 Nm	2.25~15 Nm			
WM-B25-1	WM-B25-1-BT				1.25~25 Nm	3.75~25 Nm			

註：精度的扭力範圍在最大操作值的20%~100%

Notes: Accuracy guaranteed at 20% to 100% of full scale.



W-SB25-1



W-SB25-2



W-SB25-3



W-SB25-4



W-SB25-5



W-SB50-0

SPECIFICATIONS:

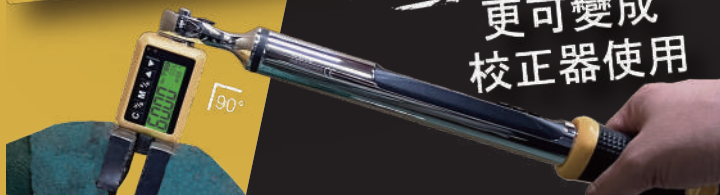
產品編號 Item No.	規格 Specification	六角頭部 Insert Hex Shank	長度 Length	適用產品 Apply to
W-SB25-1	六角型 / Hex : 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm	1/4"	~25mm	WM-SD series WM-B series
W-SB25-2	六角型 / Hex : 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm			
W-SB25-3	一字 / Slotted : 4, 5.5, 7 十字 / Phillips : PH00, PH0, PH1, PH2			
W-SB25-4	星型 / Star Tamperproof : T10, T15, T20, T25, T27, T30, T40			
W-SB25-5	星型 / Star Tamperproof : T4, T5, T6, T7, T8, T9, T10			
W-SB50-0	一字 4° 十字 PH00, PH0° 六角 1.5mm, 2mm, 2.5mm, 3mm		~50mm	WM-SD series

數位扭力顯示器 *Digital Torque Adapter*

不僅可成為
數位扭力扳手
it can be an e-wrench

or be a torque corrector

更可變成
校正器使用



- 峰值保持(K)與扭力追隨(F)模式 (可訂製特殊K模式) · WS-A series另含角度模式 (A)
- 省電模式：2分鐘自動關機 (可訂製不關機模式)
- 記錄使用次數、歷史最大扭力
- 四種扭力單位 · 可供選擇切換:N-m, kgf-cm, lbf-in, lbf-ft
- 蜂鳴聲、LED燈警示(到達預設扭力值80%時)
※不得用於電動扳手或氣動扳手※
- Two modes : F(Track) / K(Peak), WS-A series also include an Angle (A)
- Automatically powers off when not in use for 2 minutes (The non-shutdown mode can be customized)
- Recording usage frequency and the historical maximum torque
- 4 units change: N-m, kgf-cm, lbf-in, lbf-ft
- Warning function : Beep, LED indicator (When reach the torque setting value 80%)
※ Not for air wrench and electric wrench.※

WS-60-2

CR2032鋰電池
CR2032 battery

- 數位扭力轉接頭・接上一般棘輪扳手・即成為數位扭力扳手
- 配件：收納用鐵製工具盒x1, 出廠校驗報告(符合ISO品質認證規範)x1, 說明書(中/英)x1, CR2032鋰電池x1, 迷你螺絲起子(更換電池用)x1
- To connect any traditional ratchet wrench, it can be digital torque wrench.
- Content : Storage steel box x1, Certificate of calibration report (Using ISO specification) x1, User guide(Bilingual) x1, Mini screwdriver(replace the battery) x1

SPECIFICATIONS:

※Unit Conversion : 1 Nm = 10.2 kgf-cm = 0.738 lbf-ft = 8.851 lbf-in

產品編號 Item No.	精度 Accuracy	方頭 Drive	方凹頭 Drive Hole	顯示及設定範圍 Setting Range	建議使用範圍 Suggested Range	解析度 Resolution	顯示器尺寸 Size(mm) (L x W x H)	顯示器重量 Weight(g)
WS-60-2	CW:±1.5% CCW:±2.5%	3/8"	3/8"	3~60 Nm	9~60 Nm	0.01 Nm	75 x 42 x 39	189
WS-135-2				6.8~135 Nm	20~135 Nm	0.1 Nm		
WS-200-3		1/2"	1/2"	10~200 Nm	30~200 Nm			
WS-340-3				17~340 Nm	50~340 Nm			

註：精度的扭力範圍在最大操作值的20%~100%

Notes: Accuracy guaranteed at 20% to 100% of full scale.

WS-A340-3



- 數位扭力轉接頭，接上一般棘輪扳手，即成為數位扭力扳手
- 鎖固時，可量測旋轉多少角度的功能
- 配件：收納用鐵製工具箱x1，出廠校驗報告(符合ISO品質認證規範)x1，說明書(中/英)x1，AAA電池x2，L型六角扳手(更換電池用)x1
- To connect any traditional ratchet wrench, it can be digital torque wrench.
- Can measurement the degree after tighten the screw or nut.
- Content : Storage steel box x1, Certificate of calibration report (Using ISO specification) x1, User guide (Bilingual) x1, L-type hex key wrench (replace the battery) x1

SPECIFICATIONS:

※Unit Conversion : 1 Nm = 10.2 kgf-cm = 0.738 lbf-ft = 8.851 lbf-in

產品編號 Item No.	精度 Accuracy	方頭 Drive	方凹頭 Drive Hole	顯示及設定範圍 Setting Range	建議使用範圍 Suggested Range	解析度 Resolution	顯示器尺寸 Size(mm) (L x W x H)	顯示器重量 Weight(g)
WS-A135-2	CW:±1.5% CCW:±2.5%	3/8"	3/8"	6.8~135 Nm / 0.1°~360°	20~135 Nm	0.1 Nm / 0.1°	75 x 50 x 39	210
WS-A200-3		1/2"	1/2"	10~200 Nm / 0.1°~360°	30~200 Nm			
WS-A340-3				17~340 Nm / 0.1°~360°	50~340 Nm			

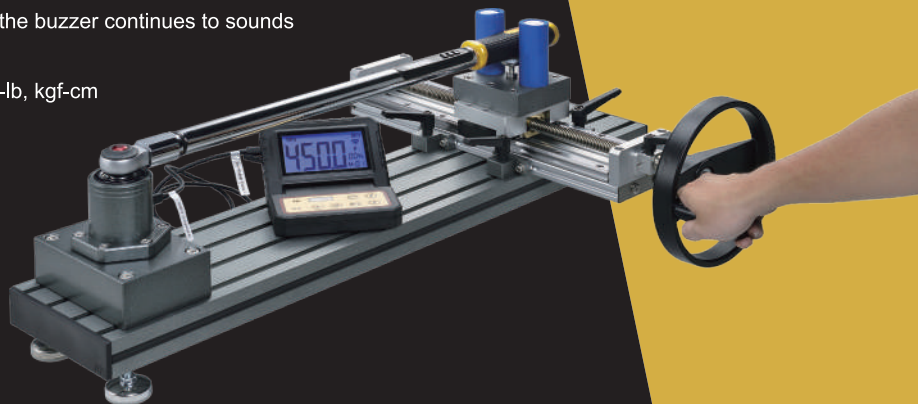
註：精度的扭力範圍在最大操作值的20%~100%

Notes: Accuracy guaranteed at 20% to 100% of full scale.

扳手校正機

Torque Calibration System

- 可透過傳感器對扭力扳手進行校正，確認扭力扳手精準度
- 蜂鳴器、LED燈警示 (到達預設扭力值80%時)
- 超過設定值101%時，錶頭背景由藍光轉紅光，蜂鳴聲保持聲響
- 四種單位選擇 N-m, ft-lb, in-lb, kgf-cm
- 30組扭力預設值
- 峰值保持(P) 與扭力追隨(T)模式
 - ※不得用於電動扳手或氣動扳手※
- Calibrate the torque wrench using a sensor to verify its accuracy
- Warning function : Beep, LED indicator. (When reach the torque setting value 80%)
- The backlight changes from blue to red, and the buzzer continues to sounds (When reach the torque setting value 101%)
- Four torque units are available : N-m, ft-lb, in-lb, kgf-cm
- Can store 30 memory setting values
- Two modes : Track /Peak
 - ※Not for air wrench and electric wrench.※



② 傳感器 Sensor

※ 扳手用

檢測範圍從0.05Nm到1200Nm，需根據不同的扭力選購對應的傳感器

For Torque Wrench Calibration

Measurement range from 0.05Nm to 1200Nm.

Select the appropriate sensor based on the required torque



※ 顯示器

附贈底座可插入顯示器進行使用(請參考35頁)

For Adapter Calibration (Please refer to P.35)

Includes a base for integrating with a adapter

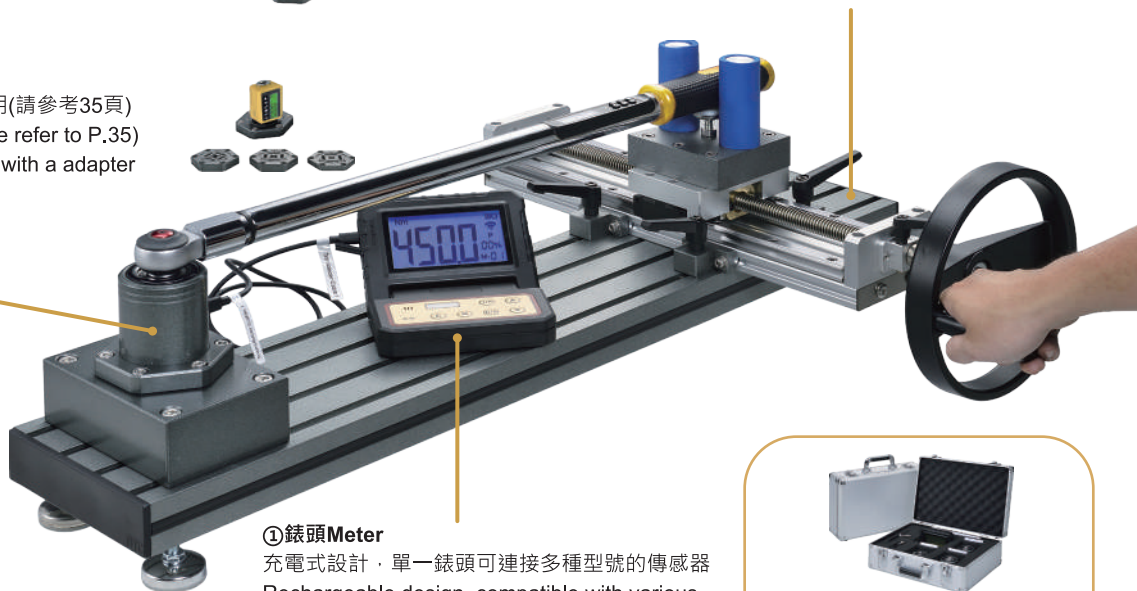


更多內容請參閱官網
Scan for more

③ 桌上型扭力測試架 Torque Test Stand

三種尺寸，根據扳手長度選購合適的測試架

Three sizes, selectable based on wrench length



① 錶頭 Meter

充電式設計，單一錶頭可連接多種型號的傳感器
Rechargeable design, compatible with various sensor models



錶頭+傳感器，買即送防震工具箱
Meter+Sensor, Buy and get a shockproof toolbox for free

校正機台組合為：① + ② + ③

Torque calibration system : ① + ② + ③



配件：說明書(中/英)x1, Type-C 到 C訊號傳輸線x1 · USB 到 Type-C充電線x1

Content : User guide(Bilingual) x1, Type-C to C Signal Transmission Cable x1, USB to Type-C Charging Cable x1

SPECIFICATIONS:

產品編號 Item No.	顯示及設定範圍 Setting Range	解析度 Resolution	尺寸 Size (cm) L x W x H	重量 Weight(kg)	適用產品 Apply to
WC-S1-C	依照傳感器規格 According to sensor specifications		17.2 x 13.5 x 2	0.39	WC-SS series



配件：防震工具箱x1, 出廠校驗報告(符合ISO品質認證規範)x1

Content：Anti-shock tool box x1, Certificate of calibration report (Using ISO specification) x1

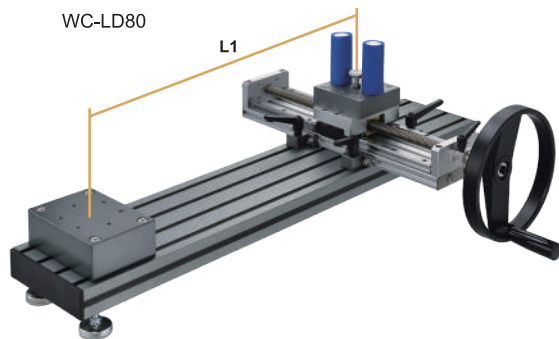
SPECIFICATIONS:

※Unit Conversion：1 Nm = 100 cNm = 10.2 kgf-cm = 0.738 lbf-ft = 8.851 lbf-in

產品編號 Item No.	精度 Accuracy	顯示及設定範圍 Setting Range	校正範圍 Calibration Range	方頭 Drive(inches)	解析度 Resolution	尺寸 Size (cm) (L x W x H)	重量 Weight (kg)
WC-SS5-1	CW:±0.5% CCW:±1%	※5-500 cNm	※25-500 cNm	1/4"	0.1 cNm	9.3 x 9.3 x 7.9	0.73
WC-SS10-1		0.1~10 Nm	0.5~10 Nm		0.01 Nm		
WC-SS50-1		0.5~50 Nm	2.5~50 Nm				
WC-SS80-2		0.8~80 Nm	4~80 Nm	3/8"	0.1 Nm	9.4 x 9.4 x 8	1.04
WC-SS160-2		1.6~160 Nm	8~160 Nm				
WC-SS250-3		2.5~250 Nm	12.5~250 Nm	1/2"		1.03	
WC-SS450-3		4.5~450 Nm	22.5~450 Nm				
WC-SS650-4		6.5~650 Nm	32.5~650 Nm	3/4"		11.0 x 11.0 x 10.4	1.96
WC-SS850-4		8.5~850 Nm	42.5~850 Nm				
WC-SS1200-5			12~1200 Nm	60~1200 Nm	1"	1 Nm	11.7 x 11.7 x 15.5

註：精度的扭力範圍在最大操作值的5%~100%

Notes: Accuracy guaranteed at 5% to 100% of full scale.



WC-LD-SD1



配件：開口扳手x1(固定腳座用), L型六角扳手x1(固定傳感器用), 氣泡水平儀x1

Content：Open-end wrench x1 (for fixing the base), L-shaped hex wrench x1 (for fixing the sensor), bubble level x1

SPECIFICATIONS:

產品編號 Item No.	L1 (cm)	尺寸 Size(cm) (L x W x H)	重量 Weight(kg)	配件 Accessories
WC-LD-SD1	0	-	-	-
WC-LD50	14.5~34	51 x 31.2 x 25.5	10.19	 1/4"
WC-LD80	14.5~65.5	81 x 60.5 x 25.6	13.78	   1/4" 3/8" 1/2"
WC-LD150	29.5~116	152 x 81.5 x 38	-	-

L1說明:

扳手校正點
Wrench calibration point



註：L1為傳感器中心至扳手校正點的距離

Note: L1 represents the distance from the center of the sensor to the calibration point of the wrench.

保固及校正檢驗需知

一、本產品之保固期:

- 1.保固期限為售出日期起算一年整。
- 2.本公司係依您購買本產品之相關購買憑證(如:發票、出貨單等)認定保固期,請您務必妥善保存相關購買憑證,以確保您的權益。
若遺失相關購買憑證,將以扳手上之序號對應本公司系統出售日期為主。

二、本產品保固範圍為保固期內,且正常使用本產品,如有下述情形者,則不在本產品保固服務範圍內:

- 1.未遵循本產品之規格,使用手冊內容之方式操作或不當使用本產品者。
- 2.自行拆裝、修理、添加附件或修改、調整本產品之電路、機械結構者。
- 3.自然耗損或屬消耗品之零件、附件及配件。

三、產品在保固期內,本公司雖提供免費維修服務,但如遇下列情況者,本公司得酌收材料與人工費用:

- 1.產品之保固資料不完整或不實者。
- 2.遭遇不可抗拒之天災、地變與人禍而導致產品損壞者。
- 3.使用非本公司製造或銷售之原廠耗材、配件或與型號不符之耗材而導致產品損壞者。
- 4.非屬產品保固範圍內之調整、校正、維修,或非本產品本身問題而導致產品損壞者(本公司得酌收檢修工時之費用)。
- 5.因您未正常使用本產品而導致產品損壞者。
- 6.產品清潔髒汙之清理。

四、於保固期內而屬本產品保固範圍內之維修,若遇有零件停產之情事,本公司得以其他機種之相容性零件代之,或以同等級之機種提供換機服務。

五、當本產品需要送修、校正、調整時,請您與購買經銷商或本公司聯絡(請勿自行拆卸任何零件以免造成其他損壞)。



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