

數位扭力 扳手

Asmith

Digital Torque Wrench



鐵匠

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

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How to choose a torque wrench

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

- 12 **WD-Q-BT**

- 13 **WD-I-BT (換頭/Interchangeable)**

數位扭力扳手
Digital Torque Wrench

標準型 Standard

- 18 **WM-Q (迷你/Mini)**
19 **WQ**
20 **WQ-BT (藍牙/Bluetooth)**
21 **WA (角度/Angle)**

換頭型 Interchangeable

- 22 **WM-I (迷你/Mini)**
23 **WI**
24 **WI-BT (藍牙/Bluetooth)**

起子型 Screwdriver

- 26 **WM-SD (起子/Screwdriver)**
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- 25 扭力接頭
Insert tools

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

- 29 數位扭力顯示器
Digital Torque Adapter



確認 1. 螺絲等級(Screw Grade)
(Confirming) 2. 螺紋寬度(Thread Width)



3. 確認扭力(Confirming Torque)



4. 選擇扳手(Selecting a Wrench)

若已知扭力，可直接進入 4. 選擇扳手

If the torque is known, you can proceed directly to Step 4: Selecting a Wrench

1. 螺絲等級

如不鏽鋼螺絲，屬於標準品『T』等級，如紅框

1.Screw Grade

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

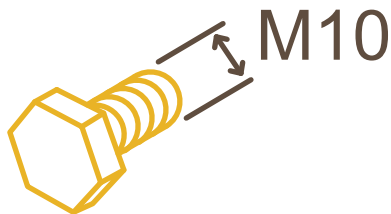
螺絲適用分級 Screws and applicable T series	
說明 illustrate	Screws(Strength 硬度) 螺絲(Material 材質)
等級分類 Grade	
Standard T series 標準品	4.6~6.6 SS SC
0.5 T series 電子產品	— CR(Brass) CB(Copper) AB(Aluminum)
1.8 T series 鎢鋼, 鎢鉻鋼	8.8~12.9 SCr SNC SCM
2.4 T series 建築鋼構	10.9~12.9 SCr SNC SCM SNCM

2. 螺紋寬度

若寬度10mm，則代號為『M10』

2.Thread Width

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



3. 確認扭力

如紅框，『M10 + T 等級』，則對應為『24.5 Nm』

3.Confirming Torque

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

Screw torque value comparison
Standard tightening torque

Nominal Size of Screw	Unit: Nm			
	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

Standard axial stress 210 N/mm² stress area of bolt(JIS 1082)
Note: This is not converted from standard tightening torque kgf·cm

4. 選擇扳手








透過您常用的工具配件，決定您適用的扳手系列

4. Selecting a Wrench

Determine the appropriate wrench series through tool accessories

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

螺絲頭 / 工具 Screw head / Tool	扳手系列 Wrench series	頁數 p.
	WA-E (BW) (13.5~135Nm)	07
	WD-Q (BT) (15~100 Nm)	12
	WM-Q series (0.9~25Nm)	18
	WQ series (4.5~1000Nm)	19
	WQ (BT) series (4.5~1000Nm)	20
	WA series (4.5~1000Nm)	21
	WS series (9~340Nm)	29-30
	WD-I (BT) series (5~200 Nm)	13
	WM-I series (0.9~25Nm)	22
	WI series (4.5~400Nm)	23
	WI (BT) series (4.5~400Nm)	24
	WM-SD series (0.1~4Nm)	26
	WM-B series (0.9~25Nm)	27
	WM-SD series (0.1~4Nm)	26
	WM-B series (0.9~25Nm)	27
	WM-SD series (0.1~4Nm)	26
	WM-B series (0.9~25Nm)	27
	WM-SD series (0.1~4Nm)	26



Charging

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，螺絲可迅速鎖定，以達節省時間效果
 - 動力齒輪轉速 150~260轉/分鐘，扭力約 1 Nm
 - 藍牙連接裝置，可隨時瀏覽歷史紀錄
 - 透過WiFi連線電腦，並可透過自行開發的軟體對多隻扳手發號施令
 - 有四種不同警示的LED指示燈
 - 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%
 - 50組扭力預設值
 - 高達 5000 個扭力歷史記錄容量，用於特定 QC 分析
 - 可自行設定公差值，更加符合標準化的容差範圍
-
- Dual Mode : Both Power and Manual mode build in one single ratchet, screws can be quickly locked to save time
 - Power Gear rotation 150~260RPM, and torque is about 1 Nm
 - Connects via Bluetooth to devices and allows browsing of historical records at any time
 - Connecting the computer via WiFi, and being able to control multiple wrenches through self-developed software
 - There are four different warning LED indicators
 - Removable lithium battery enable rapid charging, allowing a quick charge to reach above 80% in 60 minutes for a 2800mAh battery
 - Can store 50 memory setting values
 - Up to 5000 torque history records capacity for specific QC analysis
 - Set target value tolerance by yourself, more convenient adherence to standardized tolerance ranges



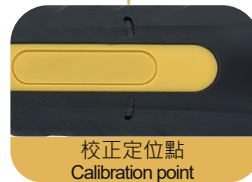
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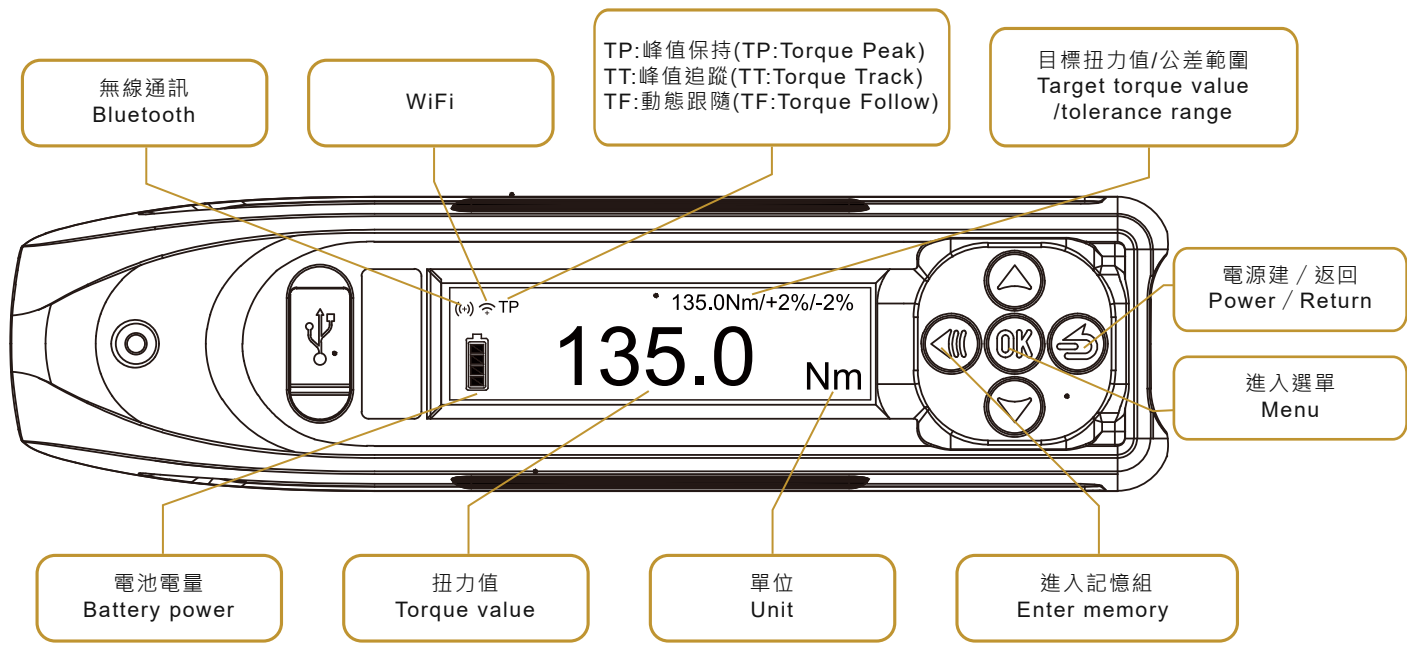


電腦軟體
software

產品規格 / Product Specifications

記憶容量 Memory Capacity	5000 sets
單位選擇 Torque Units	Nm, 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-E (BW)

電速數位扭力扳手 Power Speed Digital Torque Wrench



- 鎖固時·可量測旋轉多少角度的功能
- 配件：吹氣盒x1, 出廠校驗報告(符合ISO品質認證規範)x1, 說明書x1, 充電座x1, 變壓器x1, 鋰電池x1, 磁性套組x1
- Can measurement the degree after tighten the screw or nut.
- Content : Blow Mold Case x1, Factory calibration report (compliant with ISO quality certification standards) x1, User guide x1, charging cradle x1, power adapter x1, lithium battery x1, Magnetic insert x1.

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 Accuracy	棘輪方頭 Drive	設定範圍 Setting Range	解析度 Resolution	扳手長度 Length(mm)	扳手重量 Weight(g)
WA-E135-2-BW	CW:±2% CCW:±3%	3/8"	13.5~135 Nm / 1°~999°	0.1 Nm / 0.1°	450	1020

藍牙+WiFi功能
Bluetooth & WiFi features



使用藍牙連線手機輸出扳手歷史數據，並透過WiFi連線電腦，利用自行開發的通訊協定同時控制多隻扳手。

Output wrench historical data to a mobile phone via Bluetooth, and connect to a computer via WiFi to simultaneously control multiple wrenches using a self-developed communication protocol.



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

- 全新機械扭力結構，搭配數字化顯示
- 扭力僅需透過旋鈕即可輕鬆設定扭力
- 到達預設值後，結構緩衝空間大，且具有極大的機械喀搭聲響，可有效防止施力過快，而導致螺絲承受扭力值比預設值還大的狀況
- 四種單位選擇 N-m, ft-lb, in-lb, kgf-m
- 可與扳手做無線傳輸，將使用次數上傳到設備上
- 具有5000次使用次數到達提醒
- 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
- LCD數值顯示 (需安裝AAA電池*2)

- New mechanical torque structure with digital display.
- Torque can be easily set through the knob.
- After reaching the preset value, the structure has a large buffer space and a great mechanical clicking sound, which can effectively prevent the application of force too quickly, resulting in the screw to withstand the torque value is larger than the preset value of the situation.
- Four unit options: N-m, ft-lb, in-lb, kgf-m.
- Wrench for wireless transmission, upload the number of uses to the device.
- Provides a reminder when 5000 usage cycles are reached.
- 5000 times in the factory to do a calibration, 10 consecutive calibration can still maintain stable accuracy.
- LCD numerical display (AAA x 2 batteries)



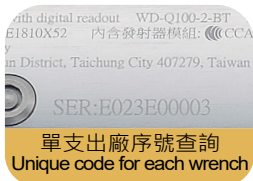
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影片/Video

產品規格 / Product Specifications

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	經過10次校正 · 功能無任何異常 After 10 calibrations, the functionality remains without any abnormalities





棘輪切換
Reversible ratchet



單支出廠序號查詢
Unique code for each wrench



扭力單位切換
Unit conversion



使用AAA電池
AAA*2 batteries



棘輪方頭
Square head



強大跳脫力警示聲
Large buffer stroke
loud audible click



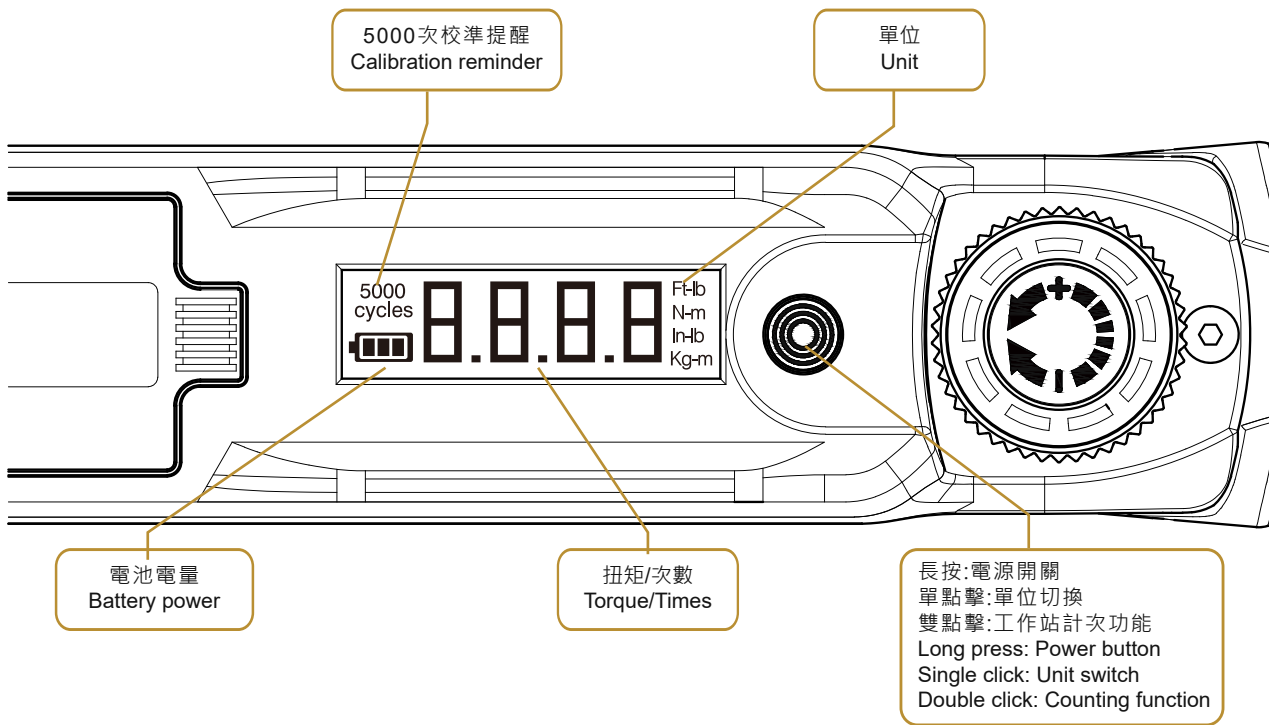
LCD螢幕顯示
LCD screen



固定扭力調整桿
Fixed torque rod



扭力調整旋鈕
Knob type
torque adjustment





■ 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

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

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	設定範圍 Setting Range	解析度 Resolution	扳手長度 Length(mm)	扳手重量 Weight(g)	備註 Remark
WD-Q100-2-BT	≥20Nm:±3% <20Nm:±4%	3/8"	15~100 Nm	0.2 Nm	485	1040	單向 Unidirectional

藍牙功能
Bluetooth features



扳手連線手機進行
計次與校正

Connect the wrench to
the mobile phone for
counting and calibration

僅附此棘輪頭
Only Accessory



棘輪頭可轉180° · 作逆向扭力上鎖
The ratchet insert tool can be turned 180° for reverse torque locking



加購配件 · 請參考25頁
Extra purchase accessories
Please refer to P.25



棘輪方頭
Drive

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

Content：Plastic storage box x1, Factory calibration report (compliant with ISO quality certification standards) x1, User guide x1.

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產品編號 Item No.	精度(CW) Accuracy	棘輪方頭 Drive	插槽 Insert	設定範圍 Setting Range	解析度 Resolution	扳手長度 Length(mm)	扳手重量 Weight(g)	備註 Remark
WD-I30-1-BT	≥15Nm:±3% <15Nm:±4%	1/4"	9x12mm	5~30 Nm	0.1 Nm	361	510	可雙向 Bidirectional
WD-I100-2-BT	≥20Nm:±3% <20Nm:±4%	3/8"	14x18mm	15~100 Nm	0.2 Nm	483	1140	可雙向 Bidirectional
WD-I200-3-BT	≥40Nm:±3% <40Nm:±4%	1/2"	14x18mm	30~200 Nm	0.5 Nm	585	1510	可雙向 Bidirectional

藍牙功能
Bluetooth features



扳手連線手機進行
計次與校正

Connect the wrench to
the mobile phone for
counting and calibration

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)
- 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)
- 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
- 電池款:一般型:AA電池*2
 迷你型:AAA電池*2
- 充電款:Type-C充電線
- 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 : F(Track) / K(Peak)
- 4 units change: N-m, kgf-cm, lbf-in, lbf-ft
- 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
- Battery Type: AA x 2 batteries
 Mini Type:AAA x 2 batteries
- Recharge Type: Type-C cable
- 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



BT-APP



影片-藍牙款
Video-BT



電腦軟體-藍芽款
software-BT



影片-標準款
Video

電池款技術規格 / Dry Cell Technical Data		充電款技術規格 / Rechargeable Battery Technical Data (Battery : 16650)	
電池壽命：持續操作 Battery Llife(continuous operation)	110 hrs (WS series: 37 hrs)	電池壽命：充滿電操作時間 Battery life(fully charged used time)	10-14 hrs
電池壽命：待機模式 Battery Llife (Standard Mode)	1 year	充電時間 Recharge Time	90-120 mins
操作溫度 Operating temperature	-10°C~ 60°C	使用環境 (溫度) Storage conditions (Temperature)	Recharge : 10°C ~ 45°C Discharge : -10°C ~ 60°C
儲存溫度 Storage temperature	-20°C~70°C		Storage : -20°C ~ 25°C (< 1 year) -20°C ~ 40°C (< 3 months) -20°C ~ 50°C (< 1 month)
濕度 Humidity	無凝露可到90% Up to 90% (not condensed)	使用環境 (濕度) Storage conditions (Humidity)	Work : 20% ~ 85%RH (not condensed) Storage : 40% ~ 85%RH (not condensed)
共用規格 / Common Specification			
預設值儲存組數 / No. of memory parameters	30		
LED警示燈 / LED	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) / 追隨模式 (F) / 角度模式 (A) Peak hold (K) / Track (F) / 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		
耐用度 / Durability	Over 10000 cycles		
環境測試 / Environmental test	PASS		
電磁相容測試 / EMC test	PASS		



快速脫離
Quick release

WQ-30-1
DGTQ82013800001
MADE IN TAIWAN

單支出廠序號查詢
Unique code for each wrench



LED提醒/蜂鳴警示
LEDs(Green/Red)/Buzzer

快速脫離
Quick release



棘輪切換
Reversible ratchet

棘輪切換
Reversible ratchet



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



棘輪方頭/插槽
Square head / Socket



震動警示功能
Vibration function



校正定位點
Calibration point



電源重置
Reset



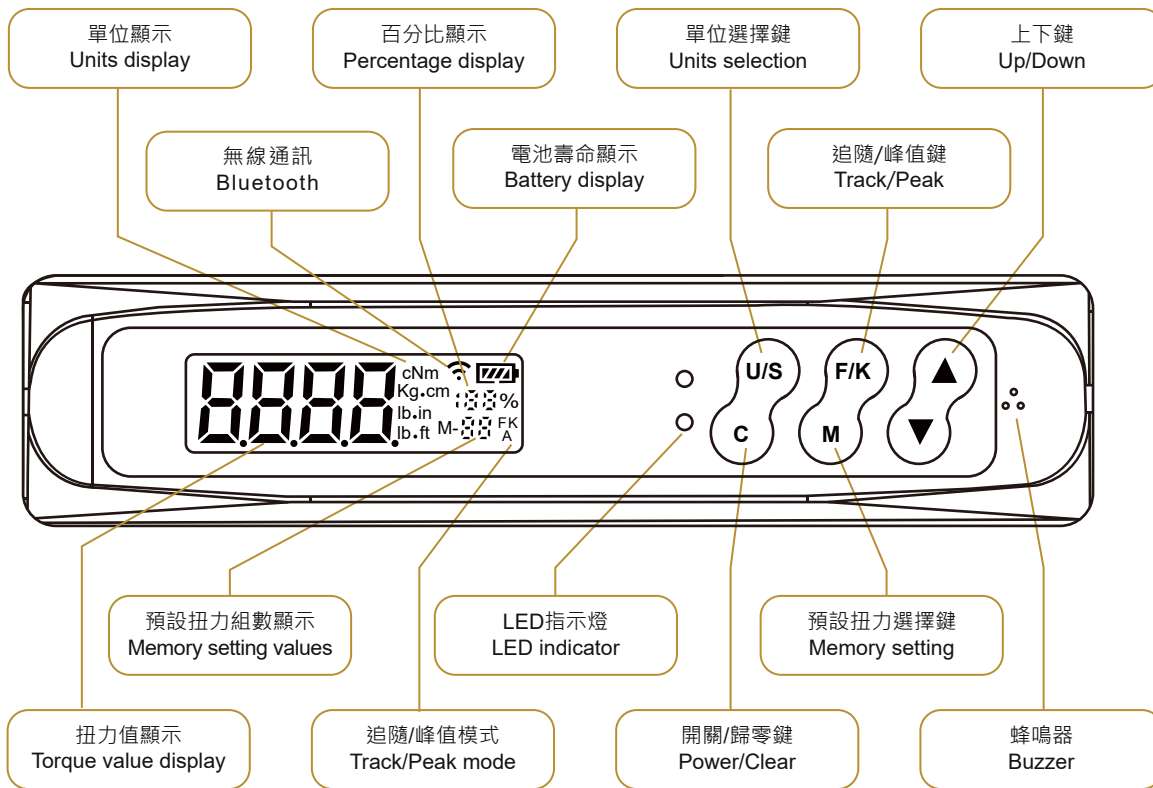
藍牙款-使用16650電池
USB插頭(Type C)
Bluetooth Type-16650 battery
USB insert(Type C)



標準型-使用AA*2電池
迷你型-使用AAA*2電池
Normal-AA*2 batteries
Mini-AAA*2 batteries



充電款-使用16650電池
USB插頭(Type C)
Recharge Type-16650 battery
USB insert(Type C)





- 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, 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, 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	精度 Accuracy	棘輪方頭 Drive	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-Q06-1	CW:±3% CCW:±4%	1/4"	0.3~6 Nm	0.9~6 Nm	0.01 Nm	244	210
WM-Q15-1			0.75~15 Nm	2.25~15 Nm			
WM-Q25-1			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.



- 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, 電池款: AA電池x2, 充電款: Type-C 充電線
- Content : Storage steel box x1, Certificate of calibration report x1, User guide(Bilingual) x1, Recharge Type: 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.	電池款 Battery Type	充電款 Recharge Type	精度 Accuracy	棘輪方頭 Drive	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	WQ-30-1-C		CW:±1.5% CCW:±2.5%	1/4"	1.5~30 Nm	4.5~30 Nm	0.01 Nm	410	720
WQ-30-2	WQ-30-2-C				1.5~30 Nm	4.5~30 Nm		410	740
WQ-60-2	WQ-60-2-C			3/8"	3~60 Nm	9~60 Nm		410	740
WQ-135-2	WQ-135-2-C				6.8~135 Nm	20~135 Nm	0.1 Nm	434	890
WQ-135-3	WQ-135-3-C			1/2"	6.8~135 Nm	20~135 Nm		454	1080
WQ-200-3	WQ-200-3-C				10~200 Nm	30~200 Nm		565	1300
WQ-340-3	WQ-340-3-C				17~340 Nm	50~340 Nm		666	1420
WQ-600-4	WQ-600-4-C			3/4"	60~600 Nm	90~600 Nm	940	3800	
WQ-800-4	WQ-800-4-C				80~800 Nm	120~800 Nm	1235	4800	
WQ-1000-4	WQ-1000-4-C				100~1000 Nm	150~1000 Nm	1 Nm	1235	4800

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.



- 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, Type-C 充電線
- Content：Storage steel box x1, Certificate of calibration report x1, User guide(Bilingual) x1, Recharge Type: 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. 藍牙-充電款 Bluetooth Type	精度 Accuracy	棘輪方頭 Drive	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-BT	CW:±1.5% CCW:±2.5%	1/4"	1.5~30 Nm	4.5~30 Nm	0.01 Nm	382	770	
WQ-30-2-BT			1.5~30 Nm	4.5~30 Nm		382	795	
WQ-60-2-BT		3/8"	3~60 Nm	9~60 Nm		382	795	
WQ-135-2-BT			6.8~135 Nm	20~135 Nm		408	898	
WQ-135-3-BT		1/2"	1/2"	6.8~135 Nm	20~135 Nm	0.1 Nm	426	1114
WQ-200-3-BT				10~200 Nm	30~200 Nm		536	1272
WQ-340-3-BT				17~340 Nm	50~340 Nm		638	1470
WQ-600-4-BT		3/4"	3/4"	60~600 Nm	90~600 Nm		923	3902
WQ-800-4-BT				80~800 Nm	120~800 Nm		1225	4695
WQ-1000-4-BT				100~1000 Nm	150~1000 Nm		1 Nm	1225

藍牙功能
Bluetooth features



將扳手歷史數據
連線手機進行輸出

Output wrench
historical data
to the connected
mobile phone

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.



- 可訂製藍牙功能款、充電款
- 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
- Customizable Bluetooth or Rechargeable Type
- Can measurement the degree after tighten the screw or nut.
- 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	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"	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		410	740	
WA-135-2		1/2"	3/8"	6.8~135 Nm / 0.1°~360°	20~135 Nm	0.1 Nm / 0.1°	434	890
WA-135-3				6.8~135 Nm / 0.1°~360°	20~135 Nm		454	1080
WA-200-3			10~200 Nm / 0.1°~360°	30~200 Nm	565		1300	
WA-340-3			17~340 Nm / 0.1°~360°	50~340 Nm	666		1420	
WA-600-4			3/4"	60~600 Nm / 0.1°~360°	90~600 Nm		940	3800
WA-800-4				80~800 Nm / 0.1°~360°	120~800 Nm		1235	4800
WA-1000-4		100~1000 Nm / 0.1°~360°		150~1000 Nm	1235	4800		

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25頁
Extra purchase accessories
Please refer to P.25



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, AAA電池x2, 迷你螺絲起子(更換電池用)x1, 棘輪接頭x1

Content : Storage steel box x1, Certificate of calibration report (Using ISO specification) x1, User guide(Bilingual) x1, Mini screwdriver(replace the battery) 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.	精度 Accuracy	棘輪方頭 Drive	插槽 Insert	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	CW:±3% CCW:±4%	1/4"	9x12mm	0.6~6 Nm	0.9~6 Nm	0.01 Nm	255	270
WM-I15-1				1.5~15 Nm	2.25~15 Nm			
WM-I25-1				2.5~25 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25頁
Extra purchase accessories
Please refer to P.25



棘輪方頭/插槽
Drive / Insert

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, 電池款: AA電池x2, 充電款: Type-C 充電線

Content：Storage steel box x1, Certificate of calibration report x1, User guide(Bilingual) x1, Ratchet insert tool x1, Recharge Type: Type-C cable

※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 充電款 Battery Type Recharge Type	精度 Accuracy	棘輪方頭 Drive	插槽 Insert	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 WI-30-1-C	CW:±2% CCW:±3%	1/4"	9x12mm	3~30 Nm	4.5~30 Nm	0.01 Nm	403	750
WI-60-2 WI-60-2-C		3/8"		6~60 Nm	9~60 Nm		413	800
WI-135-2 WI-135-2-C				13.5~135 Nm	20~135 Nm	0.1 Nm	425	900
WI-30-3 WI-30-3-C		1/2"	14x18mm	3~30 Nm	6~30 Nm	0.01 Nm	435	950
WI-60-3 WI-60-3-C				6~60 Nm	12~60 Nm			
WI-135-3 WI-135-3-C				13.5~135 Nm	20~135 Nm	0.1 Nm	559	1350
WI-200-3 WI-200-3-C				20~200 Nm	30~200 Nm			
WI-340-3 WI-340-3-C				34~340 Nm	50~340 Nm			
WI-400-3 WI-400-3-C	40~400 Nm			60~400 Nm	665			

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25頁
Extra purchase accessories
Please refer to P.25



棘輪方頭/插槽
Drive / Insert

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 x1, User guide(Bilingual) x1, Ratchet insert tool x1, Recharge Type: 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. 藍牙-充電款 Bluetooth Type	精度 Accuracy	棘輪方頭 / 插槽 Drive / Insert	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-BT	CW:±2% CCW:±3%	1/4" / 9x12mm	3~30 Nm	4.5~30 Nm	0.01 Nm	387	778		
WI-60-2-BT			6~60 Nm	9~60 Nm		390	810		
WI-135-2-BT		3/8" / 9x12mm	13.5~135 Nm	20~135 Nm	0.1 Nm	406	884		
WI-30-3-BT			1/2" / 14x18mm	3~30 Nm	6~30 Nm	0.01 Nm	428	1110	
WI-60-3-BT		6~60 Nm		12~60 Nm					
WI-135-3-BT		20~200 Nm		30~200 Nm	50~340 Nm	0.1 Nm	538	1270	
WI-200-3-BT							34~340 Nm	638	1428
WI-340-3-BT							40~400 Nm	60~400 Nm	
WI-400-3-BT									

藍牙功能
Bluetooth features



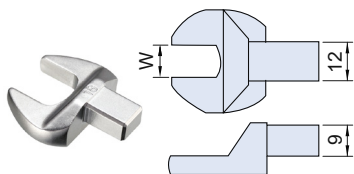
將扳手歷史數據
連線手機進行輸出

Output wrench
historical data
to the connected
mobile phone

註：精度的扭力範圍在最大操作值的20%~100%

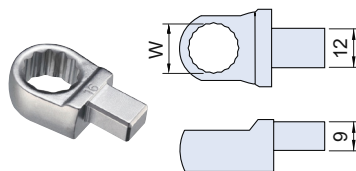
Notes: Accuracy guaranteed at 20% to 100% of full scale.

9X12 開口式扭力接頭
Open-ended Insert tools



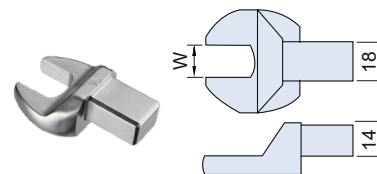
產品編號 Item No.	W (mm)	適用產品 Apply to	
W-Y0107	7	WM-I06-1 WM-I15-1 WM-I25-1 WI-30-1 WI-60-2 WI-135-2 WD-I30-1-BT	
W-Y0108	8		
W-Y0109	9		
W-Y0110	10		
W-Y0111	11		
W-Y0112	12		
W-Y0113	13		
W-Y0114	14		
W-Y0115	15		
W-Y0116	16		
W-Y0117	17		
W-Y0118	18		
W-Y0119	19		
W-Y0121	21		WI-30-1
W-Y0122	22		WI-60-2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

9X12 梅花式扭力接頭
Ring Insert tools



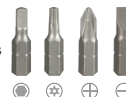
產品編號 Item No.	W (mm)	適用產品 Apply to	
W-R0107	7	WM-I06-1 WM-I15-1 WM-I25-1 WI-30-1 WI-60-2 WI-135-2 WD-I30-1-BT	
W-R0108	8		
W-R0109	9		
W-R0110	10		
W-R0111	11		
W-R0112	12		
W-R0113	13		
W-R0114	14		
W-R0115	15		
W-R0116	16		
W-R0117	17		
W-R0118	18		
W-R0119	19		
W-R0121	21		WI-30-1
W-R0122	22		WI-60-2
W-R0124	24		WI-135-2 WD-I30-1-BT

14X18 開口式扭力接頭
Open-ended Insert tools



產品編號 Item No.	W (mm)	適用產品 Apply to
W-Y0213	13	WI-30-3 WI-60-3 WI-135-3 WI-200-3 WI-340-3 WI-400-3 WD-I100-2-BT WD-I200-3-BT
W-Y0214	14	
W-Y0216	16	
W-Y0217	17	
W-Y0218	18	
W-Y0219	19	
W-Y0221	21	
W-Y0222	22	
W-Y0224	24	
W-Y0226	26	
W-Y0227	27	
W-Y0230	30	
W-Y0232	32	
W-Y0234	34	
W-Y0236	36	
W-Y0238	38	

加購配件·請參考28頁
Extra purchase accessories
Please refer to P.28



Bit 六角插槽
Bit Insert



套筒用轉接頭
Hex shank socket adapter



轉動方向
Rotate direction

- 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, 迷你螺絲起子(更換電池用)x1, 套筒用轉接頭(六角轉四角方頭1/4")x1
- Content : Storage steel box x1, Certificate of calibration report (Using ISO specification) x1, User guide(Bilingual) x1, Mini screwdriver(replace the battery) x1, 1/4" Hex Shank Socket Adapter 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	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-SD50-1	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			10~200 cNm	30~200 cNm (0.3~2 Nm)			
WM-SD400-1			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.

加購配件·請參考28頁
Extra purchase accessories
Please refer to P.28



Bit 六角插槽
Bit Insert



套筒用轉接頭
Hex shank socket adapter



轉動方向
Rotate direction

- 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, 套筒用轉接頭(六角轉四角方頭1/4")x1, 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, Mini screwdriver(replace the battery) x1, 1/4" Hex Shank Socket Adapter 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	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-B06-1	CW:±3% CCW:±4%	1/4"	0.3~6 Nm	0.9~6 Nm	0.01 Nm	244	200
WM-B15-1			0.75~15 Nm	2.25~15 Nm			
WM-B25-1			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

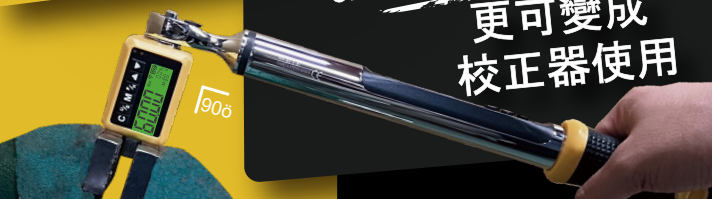
SPECIFICATIONS:

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			

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

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)
- 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)

- Two modes : F(Track) / K(Peak)
- 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%)



- 數位扭力轉接頭 · 接上一般或機械式棘輪扳手 · 即成為數位扭力扳手
- 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, CR2032鋰電池x1, 迷你螺絲起子(更換電池用)x1
- To connect any traditional ratchet wrench or hand socket 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	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)	顯示器重量 Weight(g)
WS-60-2	CW:±1.5%	3/8"	3~60 Nm	9~60 Nm	0.01 Nm	75x42x39 (LxWxH)	189
WS-135-2			6.8~135 Nm	20~135 Nm	0.1 Nm		
WS-200-3	CCW:±2.5%	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.



- 數位扭力轉接頭·接上一般或機械式棘輪扳手·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 or hand socket 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	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)	顯示器重量 Weight(g)
WS-A135-2	CW:±1.5% CCW:±2.5%	3/8"	6.8~135 Nm / 0.1°~360°	20~135 Nm	0.1 Nm / 0.1°	75x50x39 (LxWxH)	210
WS-A200-3			10~200 Nm / 0.1°~360°	30~200 Nm			
WS-A340-3		1/2"	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.

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:

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- 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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