



**DIGITool  
SOLUTIONS**  
*Professional Torque Products*

## *PROFESSIONAL TORQUE TOOLS*



*TORQUE TESTER  
TORQUE CHECKER  
TORQUE MULTIPLIER  
PORTABLE TORQUE METER  
ELECTRONIC TORQUE WRENCH  
ELECTRONIC TORQUE & ANGLE*



Preset torque wrench ..... 03



Micrometer Adjustable Click-Type Torque wrench ..... 04



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## Located in Chino, California. USA

We offer complete turnkey capabilities with new innovative patented technologies, industrial grade, quality engineered designs which not only meet, but surpass Industries standards. DTS offers a complete line of Patented precision calibration systems and torque measuring devices as well as design and engineering development for tools, ergonomics, fixtures, adapters, and specialized torque applications.

## Digitool Solutions designs and manufacturers a full line of professional torque products which include:

- ☐ Electronic Torque Wrenches, (*Patented Technology*)
- ☐ Torque Angle Meters, (*Patented Technology*)
- ☐ Mechanical Micrometer (Click-wrench)
- ☐ Torque Multipliers
- ☐ Calibration and test equipment for all types of torque wrenches,

In addition to our existing product line, we design, develop and manufacture custom products that meet the industries specific needs for Torque Tools and Applications.

We have Patented designs and customized our own electronics to save space on our PCB boards, as well as reducing power consumption using new cutting-edge technology.

The DTS management team brings together diverse strengths in engineering expertise and practical experience to design solutions for a number of specialized applications both conventional and unconventional.

## Constant Improvement

DTS constantly improves our products to provide the highest quality standards to meet the industries needs. Our design engineering specializes in working with our partners to manufacture products that meet the applications and requirements of our customers. We continue to pursue opportunities to integrate our Torque Technology with systems that are currently being used in the United States and the global industries.

## All our products are designed and engineered implementing these features ;

- ☐ Easy to use
- ☐ High level Precision and Accuracy
- ☐ Low Power Consumption
- ☐ Ergonomic Lightweight Portability



## PRESET CLICK-TYPE TORQUE WRENCH

**5PC-Series**

Designed and engineered for the Tire Industry, our Preset Wrenches fully comply with the ISO and ASME standards and will retain calibration accuracy for thousands of cycles.

The "5PC" series of **preset click-type wrenches** are intended for single torque setting applications. Its simple design provides easy and accurate application of torque. These preset wrenches are ready for use – **no torque adjustment required** or special training needed to use the tools.

Our set of five, 1/2" square drive preset wrenches have been designed specifically for use in tire industry. These wrenches are supplied in a durable storage case and preset to **the five most-common lug nut torque settings** covering 90% of the Car and Light Truck requirements. The Torque values are between 65 to 140 ft-lb and they are **laser etched and color-coded** for quick and easy identification. Our Preset torque wrenches are also available individually and can also be custom Preset as a special if requested.



- ☐ Preset torque no adjustment
- ☐ Durable satin finish
- ☐ 1/2" Drive, 36 tooth
- ☐ Quick release ratchet head
- ☐ Accuracy  $\pm 3\%$  CW
- ☐ Ergonomic Rubber Grip



Perfect for tire shops, these color coded click torque wrenches are pre-set to the most common lug nut torque settings. The Industrial Grade design can hold up to the toughest tire shop demands.

MODEL	DRIVE	COLOR	RANGE		LENGTH	Weight
		Collar	(ft-lb)	(Nm)	INCH	lbs
5PC-65140	1/2"	Yellow	65 ft-lb	88 Nm	20.5 x 10.5 x 4.5	19.00
		Blue	80 ft-lb	108 Nm		
		White	100 ft-lb	135 Nm		
		Grey	120 ft-lb	163 Nm		
		Orange	140 ft-lb	190 Nm		

### INDIVIDUAL PRESET TORQUE WRENCH

5PC-653	1/2"	Yellow	65 ft-lb	88 Nm	20 inch	4.5
5PC-803	1/2"	Blue	80 ft-lb	108 Nm	20 inch	4.5
5PC-1003	1/2"	White	100 ft-lb	135 Nm	20 inch	4.5
5PC-1203	1/2"	Grey	120 ft-lb	175 Nm	20 inch	4.5
5PC-1403	1/2"	Orange	140 ft-lb	190 Nm	20 inch	4.5

# MICROMETER ADJUSTABLE CLICK-TYPE

## C-Series

DTS adjustable "C" series click-type wrenches are the preferred torque tool used in the industry. They are easy to use and provide precision measurement that exceeds the accuracy and range defined by the ASME Standards.

- ❑ Accuracy  $\pm 3\%$  CW and  $\pm 5\%$  CCW of indicated setting between 15% and 100% of full scale.
- ❑ Torque ranges from 30 in-lb to 250 ft-lb, 4 to 345 Nm
- ❑ 9x12 mm Interchangeable head Torque Wrench
- ❑ 3 Drive sizes of 1/4", 3/8" and 1/2"
- ❑ Aluminum knurling handle
- ❑ Laser Etched Dual scale for easy reading
- ❑ 36 tooth, Quick release reversible ratchet
- ❑ Exceeds accuracy specified in ASME B107.14-2004.



The standard C series cover torque ranges between **20 in-lb to 250 ft-lb and 4 to 345Nm**. The permanent laser etched micrometer adjustment scale is in both English (**in-lb/ft-lb**) and **Metric (Nm)** units for direct setting conversion.

Each torque wrench is calibrated, certified and **exceeds the accuracy specified in ASME B107.14-2004**.

Factory calibration is performed on a torque standard traceable to the National Institute of Standards and Technology (NIST). Actual torque readings and **individual serial numbers** are included on all calibration certificates for **100% traceability**.

MODEL	DRIVE	RANGE			LENGTH	Weight
		(in-lb)	(ft-lb)	(Nm)	INCH	lbs
C-2501-0	9x12 mm	30 - 250		4 - 27.7	9"	0.75
C-2501-1	1/4"	30 - 250		4 - 27.7	11"	1.20
C-2501-2	3/8"	30 - 250		4 - 27.7	11"	1.35
C-10001-2	3/8"	100-1000		14.3 - 115.1	17"	2.75
C-1002-2	3/8"	Fix head	10 - 100	23.7 - 139	17"	2.75
C-1502-3	1/2"	Fix head	20 - 150	47.5 - 345	20"	3.75
C-2502-3	1/2"	Fix head	30 - 250	47.5 - 345	22.5"	4.25

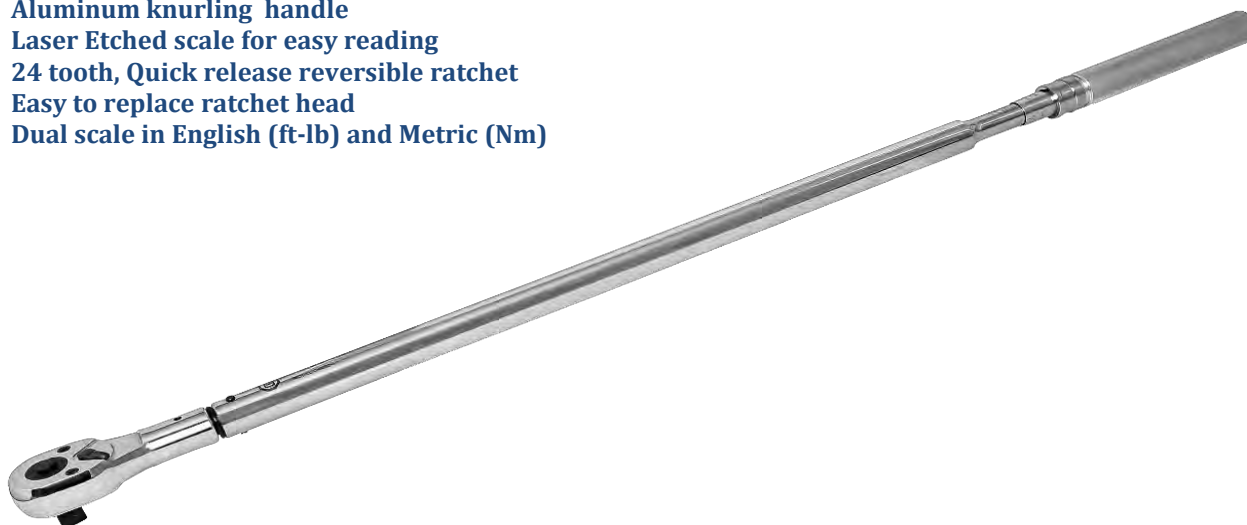


# HEAVY DUTY CLICK-TYPE WRENCH

C-Series

Precision manufacturing, exacting quality assurance and a heavy chromed steel construction, insures that these tools can tolerate the rigors of any job.

- ❑  $\pm 3\%$  CW &  $\pm 5\%$  CCW accuracy
- ❑ 2 sizes 3/4" and 1"
- ❑ Aluminum knurling handle
- ❑ Laser Etched scale for easy reading
- ❑ 24 tooth, Quick release reversible ratchet
- ❑ Easy to replace ratchet head
- ❑ Dual scale in English (ft-lb) and Metric (Nm)



## Critical for Large Scale Assemblies

An extension of the adjustable "C" series click-type wrenches, these heavy duty models pick up in torque capacity where the standard sized wrenches leave off. It is intended for very large threaded fastener applications; oil rigs, trucks, AG & off-road equipment, etc. they also exceed the accuracy and range defined by the ASME Standards. Calibrated to  **$\pm 3\%$  CW and  $\pm 5\%$  CCW of scale**, they provide the accuracy required of critical larger assemblies with high torque values.

DTS wrenches feature **3/4 and 1 inch drive** sizes with a heavy duty 24-tooth ratchet head for long-lasting service. The permanent laser etched micrometer adjustment scale is in both English (**ft-lb**) and Metric (**Nm**) units and is easy to read and provides direct setting conversion. Torque range from **50-1,000 ft-lbs** and **67 to 1356 Nm**

All "C" series torque wrenches exceed the accuracy and range specified in ASME B107.14-2004. Factory calibration is performed on a torque standard that is traceable to the National Institute and Standards Technology (N.I.S.T.). Actual torque readings and **individual serial numbers** are included on the calibration certificate for **100% traceability**.

MODEL	DRIVE	Ratchet	RANGE		LENGTH	Weight
		Teeth	(ft-lb)	(Nm)	INCH	lbs
C-4502-4	3/4"	24	50 - 450	67 - 610	36"	12.40
C-6002-4	3/4"	24	100 - 600	169 - 847	46"	15.30
C-6002-5	1"	24	100 - 600	169 - 847	46.5"	16.00
C-10002-5	1"	24	200 - 1000	271 - 1356	46.5"	13.20

## ELECTRONIC TORQUE &amp; ANGLE WRENCH

DWA-Series

Patented built in angle measurement without the need for a reference arm

### The Best Solution for all Threaded Fastener Torque Applications

The "DWA" Series of electronic **Torque & Angle wrenches** are the best solution for nearly all threaded fastener applications. Even the simple application of nuts and bolt assemblies in today's designs often require a torque pre-load for proper seating and a subsequent angular rotation for proper loading. This wrench employs the **Patented Technology of precision torque and angular momentum** sensing to control both parameters sequentially in a single continuous motion of the wrench. Electronics locate itself anywhere in space to provide a positional reference point and angular rotation of the handle around the ratcheting square drive axis.

### Intuitive User Interface

An intuitive user interface works with the high-contrast LCD display to show torque and angle preset values, display modes and units selection, "**ft-lb**", "**in-Lb**", and "**Nm**". Its real-time digital readout (**auto track mode**) emulates the precision of a dial type torque wrench. Its torque and angle preset function emulates the familiar click-type torque wrench by producing a **handle vibration, LED indicators, and an audible alert** at torque or angle preset measurement. **Tri-colored LED's** provide real-time early-warning, torque/angle attainment, and **over-torque alert**. The display also captures peak torque readings in tightening or loosening directions, generally CW to identify maximum torque installations and CW or CCW break-away torque for **quality audits of preinstalled fasteners**.

### The Most Advanced Torque and Angle Wrench on the Market

The DWA features **±1% accuracy** of reading between **10% and 100% of full scale** in both **CW and CCW directions**. The wrench is useable down to 5% of full scale with **±3%** of reading precision. Its solid-state gyro sensor responds to angular momentum with a **1° precision** when driven at a nominal speed of rotation. This wrench will retain calibrated accuracy through 5,000 full scale torque measurements or 20,000 1/2-scale measurements. Three wrench sizes are available, providing **1/4", 3/8", and 1/2" drive**. 36-tooth, ratchet heads, covering **12.5 in-lb to 600 ft-lb** torque capacity.

All DWA series Torque & Angle wrenches comply with **ASME B107.28-2005 (Type 1)** and **ISO-6789-2003** Standards. Factory calibration is performed using certified bars and weights that are traceable to the National Institute of Standards Technology (N.I.S.T.). Angular measurement is factory calibrated to a 90° rotation standard. Actual torque and angle readings and **individual serial numbers** are included on the calibration certificate.

- ☐ New Gyro Angle Technology
- ☐ ±1% Torque reading from 10% - 100%
- ☐ Torque applicable in both CW & CCW
- ☐ Useable from 5% of full scale with ±3% of reading
- ☐ ±1° Angle when used at normal speed of rotation
- ☐ Angle preset from 5° to 360°
- ☐ Angle memory during ratcheting
- ☐ Up to 200 hours of continuous operation
- ☐ Warning LED, Buzzer and Vibration
- ☐ Easy to use, No Training needed
- ☐ Uses only 2-cell AA Akaline battery
- ☐ Auto Power-off after 4 minutes



MODEL	DRIVE	RANGE			Length	Weight
		(in-lb)	(ft-lb)	(Nm)	inch	lbs
DWA-2501	1/4"	12.5 - 250	1 - 20.7	1.3 - 28	12	1.5
DWA-1002	3/8"	60 - 1200	5 - 100	6.78 - 135	18	2.0
DWA-2503	1/2"	150 - 3000	12.5 - 250	17.0 - 340	25.75	3.3
DWA-6004	3/4"	360 - 7200	30 - 600	40.7 - 800	48	9.2

## ELECTRONIC TORQUE WRENCH

DW-Series

DW-Series easy to use, No Training needed

**The Best Solution for Fastener Applications**

The "DW" series of electronic torque wrenches establishes a new standard in threaded fastener installation tools. It features the latest state-of-the-art **Patented** sensing and micro-controller technology, designed and built for the professional industries.

**Enhanced User Interface**

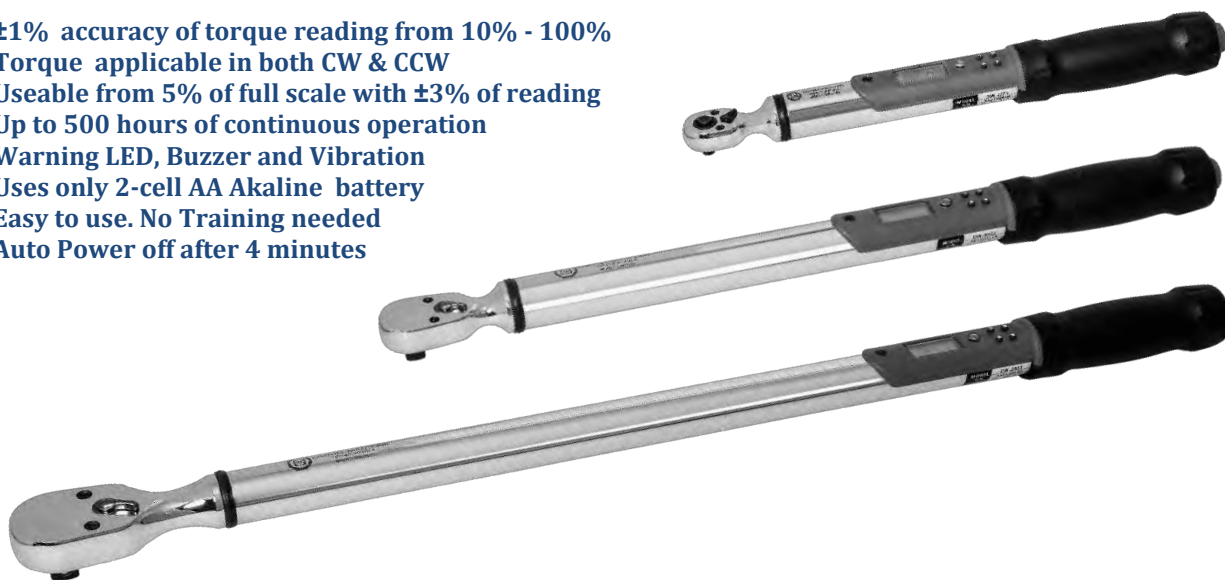
An intuitive user interface works with the high-contrast LCD display to show torque preset values, display modes, and measuring units in, "**ft-lb**", "**in-lb**" and "**Nm**." Real-time digital readout, (**auto track mode**) emulates the precision of a dial type torque wrench. Its torque preset function emulates the familiar click-type torque wrench by producing a handle vibration, visual indicators, and an audible alert at torque preset attainment. Tri-colored LED's provide **real-time early-warning and over torque alert**. The display also **captures peak torque** readings in tightening or loosening directions, generally CW to identify maximum torque installations and **CW or CCW break-away** torque for quality audits of preinstalled fasteners.

**The Most Advanced Torque Wrench on the Market**

Like its DWA torque and angle cousin, the DW features **±1% accuracy** of torque reading between **10% and 100% of full scale** in both CW and CCW directions which exceeds **the ASME B107.28 Standard**. The wrench is usable down to **5% of full scale at ±3% of reading precision**. Its integral 36-tooth ratchet drive provides strength as well as versatility in use. Three wrench sizes are available, **1/4"**, **3/8"**, and **1/2"** square drive ratchet heads, covering **12.5 "in-lb" to 600 "ft-lb" and 1.3 to 800 "Nm"** torque capacity.

The wrench is powered by two easily replaceable **AA Alkaline cells**. This battery provides up to 500 hours of continuous operation. All DW series torque wrenches comply with **ASME B107.28-2005 (Type 1)** and **ISO-6789-2003 Standards**. Factory calibration is performed using certified bars and weights that are traceable N.I.S.T. Actual torque readings and **individual instrument serial numbers** are included on the calibration certificate.

- ❑ **±1% accuracy of torque reading from 10% - 100%**
- ❑ **Torque applicable in both CW & CCW**
- ❑ **Useable from 5% of full scale with ±3% of reading**
- ❑ **Up to 500 hours of continuous operation**
- ❑ **Warning LED, Buzzer and Vibration**
- ❑ **Uses only 2-cell AA Alkaline battery**
- ❑ **Easy to use. No Training needed**
- ❑ **Auto Power off after 4 minutes**



MODEL	DRIVE	RANGE			Length	Weight
		(in-lb)	(ft-lb)	(Nm)	INCH	lbs
DW-2501	1/4"	12.5 - 250	1 - 20.7	1.3 - 28	12	1.5
DW-1002	3/8"	60 - 1200	5 - 100	6.78 - 135	18	2.0
DW-2503	1/2"	150 - 3000	12.5 - 250	17.0 - 340	25.75	3.3
DW-6004	3/4"	360 - 7200	30 - 600	40.7 - 800	48	9.2



# RATCHETING TORQUE MULTIPLIER

**MT-Series**

An innovative ratchet locking mechanism will accumulate torque output without the danger of input kick-back.

## Designed for Maximum Versatility

Designed for heavy bolting applications in confined spaces and when wrenching access is limited. The "MT-6004" ratcheting torque multiplier provides up to **600 ft-lb of output torque from 1/10th the input torque**. Its **1:16 gear ratio** provides a **1:9.5 input/output** torque multiplication with a minimal (**±4%**) error.

## Featuring an innovative ratchet locking mechanism.

The MT-7504 accumulates torque output **without the danger of input kick-back** that is typical of most other torque multipliers. Designed for maximum versatility, an adjustable reaction arm is included that facilitates most assembly configurations. **Custom reaction arms** can be provided to suit any application.

## Most Unique Combined Features.

The **MT-7504** can be used with the **SPM-6004** torque meter for better than **±1% output accuracy**. Similarly, the **SPA-6004** torque-angle meter will provide **±1% output accuracy** as well as torque-turn installation precision. In this configuration, input torque can be applied using any square-drive wrench, ratchet driver or breaker bar. **No other torque wrench manufacturers provide these combined features.**



MODEL	DRIVE Gear ratio	MAX INPUT	MAX OUTPUT		Torque Ratio/ Gear Ratio	Weight lbs
		ft-lb	(ft-lb)	(Nm)		
MT-7502-4	3/4"	50	750	1000	1:9.5 / 1:16	9.20
MT-11002-4	3/4"	250	1100	1500	1:3.8 / 1:4.3	13.00
MT-20002-5	1"	150	2000	2700	1:12.5 / 1:16	18.00
MT-33002-5	1"	200	3300	4500	1:16.8 / 1:22	29.00

# PORTABLE TORQUE TESTER PRO

**SPT-Series**

The SPT Series Tester can check any Torque Tool for Calibration Accuracy

- ❑ Covers torque ranges from 24 In-Lbs to 600 ft-lb & 3 to 810 Nm.
- ❑ Drive sizes of 3/8, 1/2, 3/4"
- ❑  $\pm 0.5\%$  Accuracy of reading 10 to 100% of scale.
- ❑ Operates in both CW & CCW directions.
- ❑ All tools measure "in-lb", "ft-lb" & "Nm" scales.
- ❑ All tools come in individual storage cases.
- ❑ Meets all industry standards
- ❑ Tools are supplied with certificates, (COC)
- ❑ Warning LED, Buzzer and Vibration
- ❑ Self contained Torque Test meter
- ❑ No hand-hold position error
- ❑ 3 Modes: Track, Peak, hold and First Peak
- ❑ Includes Mounting bracket & Hardware



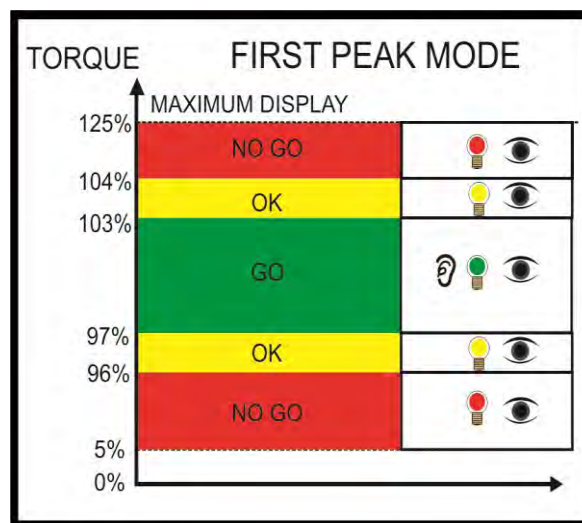
The "SPT" series of torque testers are **high precision quality control instruments**. They are small enough to be carried to the workshop and mounted on a heavy roll cart, service vehicle or directly onto any solid horizontal or vertical structure using the included angle bracket. These testers are **suitable for testing and calibration** for adjustable torque instruments such as: electronic wrenches, mechanical click-type wrenches, dial and beam wrenches, and non-impacting power screwdrivers and torque controlled drivers.

Featuring an innovative **"Go-No-Go" alert indicator**, the First Peak mode provides quick identification of the click-type wrench setting. Geared toward validating the accuracy of micrometer adjustable wrenches, "click" accuracy within  $\pm 3\%$  of setting shows a green indication, within  $\pm 4\%$  a yellow indication and greater than  $\pm 4\%$  a red indication. See the example diagram:

A calibration certificate with National Institute of Standards and Technology (N.I.S.T.) traceability is provided with each tester.

SPT series are compliant with both ISO and **ASME B107-29**

ASME B107.29-2005 Type 1 Class B



MODEL	DRIVE	RANGE			Dimension	Weight
		(in-lb)	(ft-lb)	(Nm)	INCH	lbs
SPT-0502	3/8"	24 - 600	2 - 50	3 - 67.8	3.5" X 2"	3.65 lb
SPT-1002	3/8"	48 - 1200	4 - 100	6 - 135	3.5" X 2"	3.65 lb
SPT-1503	1/2"	72 - 1800	6 - 150	8 - 200	3.75" X 2"	3.75 lb
SPT-2503	1/2"	120 - 3000	10 - 250	13.5 - 340	3.75" X 2"	3.75 lb
SPT-4004	3/4"	192 - 4800	16 - 400	21.5 - 542	4.5" X 2"	4.3 lb
SPT-6004	3/4"	288 - 7200	24 - 600	32.5 - 813	4.5" X 2"	4.3 lb

# TORQUE AND ANGLE METER PRO

**SPA-Series**

Transform any wrench or non-impact driver into a high-precision torque and angle instrument.

## Self-contained Electronic Torque and Angle Meters

The "SPA" series of self-contained electronic **torque and angle meters** are built on a Digitool Solutions' exclusive rotatable platform. These meters **transform any wrench or non-impact driver into a high-precision torque and angle instrument.**

A **high-contrast LCD display** and simple push-button preset adjustment provides an intuitive user interface for torque and/or angle settings. **The tri-colored visual indicators**, an **audible signal** and a tactile **vibration alert**, signals early warning and preset attainment of torque and angle application as well as over-load conditions. Built on a robust square-drive extension and installed between the tool and the application being tightened, these meters are **free of hand-hold position error** that is typical of common torque wrenches.

## Six Models Function in Both CW and CCW Directions

We currently have six models, with square-drives covering **24 "in-lb" to 600 "ft-lb" and 3 to 813 "Nm" scales.** The tools function in **both CW and CCW** directions while maintaining **torque measurement accuracy within  $\pm 1\%$**  and angle measurement **accuracy to  $\pm 1^\circ$  of rotation.** The meter is useable down to **4% of full-scale torque setting** while retaining  **$\pm 3\%$  display accuracy.** Extra precision torque sensing and higher resolution analog to digital conversion, the SPA is intended for critical industrial, aerospace, laboratory and quality control applications. The sturdy glass filled nylon housing is robust enough for tough field use.

A built-in **rechargeable Li-Ion battery** system provides **200-hours of continuous operation.** A global 110-240V AC wall transformer is included. This meter used with any wrench, breaker bar, hand driver or non-impacting power tool, is compliant with both ISO and **ASME B107-28 (Type 1)** Standards. A certificate of calibration with N.I.S.T. traceability is provided with each meter.



- ☐  $\pm 1\%$  accuracy of torque reading from 10% - 100%
- ☐ Torque applicable in both CW & CCW
- ☐ Torque starts at 4% of full scale accuracy  $\pm 3\%$
- ☐  $\pm 1^\circ$  Precision at normal speed of rotation @360°
- ☐ Angle preset from 5° to 360°
- ☐ Angle memory during ratcheting
- ☐ Useable from 5% of full scale with  $\pm 3\%$  of reading
- ☐ Warning LED, Buzzer and Vibration
- ☐ Li-Ion Polymer rechargeable battery
- ☐ Up to 200 hours of continuous operation
- ☐ Charger adaptor 110-240V AC included
- ☐ Self contained Torque & Angle meter
- ☐ Easy to use. No Training needed
- ☐ Auto power off after 2 minutes
- ☐ Eliminates hand position error

MODEL	DRIVE	RANGE			Dimension	Weight
		(in-lb)	(ft-lb)	(Nm)	INCH	lbs
SPA-0502	3/8"	24 - 600	2 - 50	3 - 67.8	3.5" X 2"	0.55 lb
SPA-1002	3/8"	48 - 1200	4 - 100	6 - 135	3.5" X 2"	0.55 lb
SPA-1503	1/2"	72 - 1800	6 - 150	8 - 200	3.75" X 2"	0.72 lb
SPA-2503	1/2"	120 - 3000	10 - 250	13.5 - 340	3.75" X 2"	0.72 lb
SPA-4004	3/4"	192 - 4800	16 - 400	21.5 - 542	4.5" X 2"	1.3 lb
SPA-6004	3/4"	288 - 7200	24 - 600	32.5 - 813	4.5" X 2"	1.3 lb

# TORQUE METER PRO

**SPM-Series**

Self contained Torque meter  $\pm 1\%$  Accuracy  
in Both CW & CCW Directions

## Simple Intuitive user Interface

The "SPM" series of self-contained electronic torque meters are built on a Digitool Solutions' exclusive rotatable platform. These meters **transform any large wrench** or non-impact driver into a high-precision torque instrument. They feature a simple, innovative user interface for torque preset of fastener installation specifications. **Tri-colored visual indicators**, an **audible signal**, and a **tactile vibration** provides preset alerts at torque attainment. Built on a robust square-drive extension and installed between the tool and the component being tightened, these meters are **free of hand-hold position error** that is typical with common torque wrenches.

## Torque Accuracy Within $\pm 1\%$ of Setting

Six models, with square-drives **covering 24 "in-lb" to 600 "ft-lb" and 3 to 813 "Nm"** with tools that function in **both CW and CCW** directions while maintaining torque measurement accuracy **to within  $\pm 1\%$  between 10% to 100%** of full scale. The meter can be **used down to 4% of full-scale** setting while retaining  **$\pm 3\%$  accuracy**. Furthermore, with the extra-precision torque sensing and higher resolution analog to digital conversion, the SPM is intended for **critical industrial, aerospace, laboratory and quality control applications**. The glass filled nylon housing is strong enough for heavy industrial use.

A built-in **rechargeable Li-Ion battery system** provides **300-hours** of continuous operation. A global 110-240V AC wall transformer is included for charging. This meter is compliant with both ISO and **ASME B107-28 (Type 1)** Standards. A certificate of calibration with N.I.S.T. traceability is provided with each meter.



- ☐  $\pm 1\%$  accuracy of torque from 10% - 100%
- ☐ Torque applicable in both CW & CCW
- ☐ Useable from 4% of full scale with  $\pm 3\%$  of reading
- ☐ Warning LED, Buzzer and Vibration
- ☐ Li-Ion Polymer rechargeable battery
- ☐ Up to 300 hours of continuous operation
- ☐ Charger adaptor 110-240V AC included
- ☐ Self contained Torque meter
- ☐ Easy to use. No Training needed
- ☐ Auto power off after 2 minutes
- ☐ Eliminates hand position error

MODEL	DRIVE	RANGE			Dimension	Weight
		(in-lb)	(ft-lb)	(Nm)	INCH	lbs
SPM-0502	3/8"	24 - 600	2 - 50	3 - 67.8	3.5" X 2"	0.55 lb
SPM-1002	3/8"	48 - 1200	4 - 100	6 - 135	3.5" X 2"	0.55 lb
SPM-1503	1/2"	72 - 1800	6 - 150	8 - 200	3.75" X 2"	0.72 lb
SPM-2503	1/2"	120 - 3000	10 - 250	13.5 - 340	3.75" X 2"	0.72 lb
SPM-4004	3/4"	192 - 4800	16 - 400	21.5 - 542	4.5" X 2"	1.3 lb
SPM-6004	3/4"	288 - 7200	24 - 600	32.5 - 813	4.5" X 2"	1.3 lb

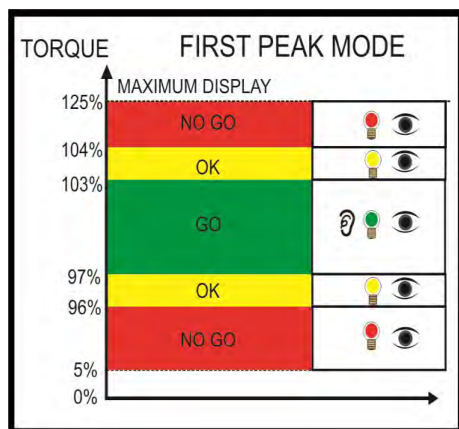


# TORQUE CHECKER

**TC-Series**

Reduce down time in shops by allowing in-house checks of torque wrench calibration.

- ❑ Torque ranges from 30 "in-lb" to 250 "ft-lb" and 3.4 to 340 "Nm"
- ❑ Drive sizes of 3/8, 1/2,
- ❑  $\pm 1\%$  Accuracy of reading 10 to 100% of scale.
- ❑ DTS manufacturers both the mechanical and electronic components.
- ❑ All tools can be used in both CW & CCW directions.
- ❑ All tools measure in-lb, ft-lb & Nm scales.
- ❑ All tools come in individual storage cases.
- ❑ Meets all industry standards for Torque Tools and supplied with certificates, (COC)
- ❑ Includes Mounting Bracket & Hardware



## Essential for any Manufacturing or Industrial user.

The "TC" series torque checkers, **mounting bracket included**, are essential for any manufacturing or industrial tool room that issues torque measurement instruments. They reduce down time in automotive repair shops by allowing in-house checks of torque wrench calibration.

## The checkers feature three modes of operations:

1. Normal Track mode for monitoring applied torque in real time. This is most useful when checking or calibrating electronic, dial or bending beam type wrenches or drivers.
2. Automatic Peak mode captures the maximum torque applied, which is useful for training wrench users to avoid over-torque applications.
3. The First Peak mode is selectable for use in capturing the "click" of mechanical click-type wrenches and drivers even if unintentionally over-driven by the user.

An innovative **"Go-NoGo"** alert indication is active in the First Peak mode for quick identification of click-type wrench setting. Click accuracy within  $\pm 3\%$  shows a green indication within  $\pm 4\%$  a yellow indication and greater than  $\pm 4\%$  a red indication. See the example diagram.

## Intuitive User Interface

A torque Preset function, where the **tri-color visual indicator**, **audible** sound and tactile **vibration** alert, **delivers 7 indicators** for early warning and over-torque conditions. The large **4-digit LCD display** provides Unit selection and instant conversion between **"ft-lb"**, **"in-lb"** and **"Nm"** torque values. The checker battery consists of three conveniently replaceable **AAA Alkaline cells** that last for over **400 hours** of continuous operation.

The TC testers are compliant with **ISO-6789-2003** and **ASME B107.29-2005 (Type I)** Standards.

A calibration certificate with National Institute of Standards and Technology (N.I.S.T.) traceability is provided with each tester.

MODEL	DRIVE	RANGE			Dimension	Weight
		(in-lb)	(ft-lb)	(Nm)	INCH	lbs
TC-0502	3/8"	30-600	2.50-50	3.40- 67.8	3.5" X 2.1"	3.55 lb
TC-1002	3/8"	60-1200	5.0-100	6.78 - 135	3.5" X 2.1"	3.55 lb
TC-1503	1/2"	90-1800	7.5-150	10.0 - 200	3.75" X 2.1"	3.72 lb
TC-2503	1/2"	150-3000	12.5-250	17.0 - 340	3.75" X 2.1"	3.72 lb



# TORQUE & ANGLE METERS

**TA-Series**

Most-effective Sensing and Measurement Electronics That Still Provide Double the Required Accuracy of the Service Industry.

## Electronic Torque and Angle Meters

The "TA" series of **low-cost electronic torque and angle meters** are suitable for automotive repair, light off-road equipment, lawn and garden service, and most DIY applications. Used with any wrench, socket driver, breaker bar or non-impacting power tools it provides **±2% torque accuracy from 10% to 100 % of full scale**, 1° @ 360° rotation precision with in-line torque sensor and eliminates hand-held position error.

The 4-digit display reflects the application of cost-effective sensing and measurement of electronics that still provide double the required accuracy of the service industry.

These meters use a conveniently **replaceable 3 AAA Alkaline batteries** and feature the Digitool Solutions' exclusive Extended Power Technology allowing up to **200 hours of continuous operation**.

With the same robust design, functional features and intuitive user interface as the "PRO" models, each rotating TA meter provides adjustable torque and angle presets with **tri-color visual, audible sounder** and tactile **vibration alerts**. Four models are available, providing 30 "in-lb" to 250 "ft-lb" and 3.4 to 340 "Nm" **torque capacity**. Standard square drive sizes, are useful between **5% and 100% of full scale** torque and between 5° and 180° angular rotation.

Compliant with **ISO-6789-2003 and ASME B107.28-2005 (Type 2)** Standards, each meter is provided with a certificate of calibration including N.I.S.T. traceability.



- ❑ Eliminates hand held position error.
- ❑ DTS covers the most common torque ranges from 24 "in-lb" to 250 "ft-lb" and 3.4 to 340 "Nm"
- ❑ Drive sizes of 3/8, 1/2
- ❑ Torque and Angle function simultaneously.
- ❑ Instant gyro-synchronization when Torque Meter is turned on and ready to use.
- ❑ ±2% Accuracy of reading 10 to 100% of scale. Both directions, (Clockwise & Counter Clockwise)
- ❑ Angle presets from 5 to 360° Degrees.
- ❑ DTS manufacturers both the mechanical and electronic components.
- ❑ Torque Meter come in individual storage cases.
- ❑ Meets all industry standards for Torque Tools and supplied with certificates, (COC)

MODEL	DRIVE	RANGE			Dimension	Weight
		(in-lb)	(ft-lb)	(Nm)	INCH	lbs
TA-0502	3/8"	30 - 600	2.5 - 50	3.4 - 67.8	3.5" X 2.1"	0.55 lb
TA-1002	3/8"	60 - 1200	5 - 100	6.78 - 135	3.5" X 2.1"	0.55 lb
TA-1503	1/2"	90 - 1800	7.5 - 150	10.0 - 200	3.75" X 2.1"	0.72 lb
TA-2503	1/2"	150 - 3000	12.5 - 250	17 - 340	3.75" X 2.1"	0.72 lb

# TORQUE METER

**TM-Series**

This Torque Meter can make any Square Drive hand tool into a Torque wrench. Simple to operate

## Accurate Real-time Monitoring

The "TM" series of electronic torque meters can be attached between any wrench, driver or non-impact power tool and the threaded fastener drive socket. Its digital display and intuitive user interface make torque settings quick and simple. The large **4-digit LCD display** provides units selection and instant conversion between "**in-lb**", "**ft-lb**" and "**Nm**" torque values.

Accurate real-time monitoring of applied torque is made while the meter is rotating with the fastener. Its in-line torque transducer **eliminates hand-hold position error** that are typical of most torque wrenches.

The meter provides a **tri-color LED indication** for early warning and over-torque conditions as well as audible and tactile alerts when the preset setting is attained, thus allowing the user to keep his eye on the work.

These meters use a conveniently replaceable **3 AAA Alkaline batteries** and feature the Digitool Solutions' Extended Power Technology allowing up to **400 hours** of continuous operation.

The TM electronic torque meters provides a low-cost technology update to any tool box. It's **±2% of reading precision**, in both **CW and CCW directions** between **10% and 100%** of full scale and exceeds the requirements of most manufacturing, industrial, off-road and automotive fastener specifications.

Torque settings between **5% and 100% of full scale** comply with the **ISO 6789 2003 and ASME B107-28-2005 (Type 2)** Standards. The meters are provided with a calibration certificate including a statement of N.I.S.T. traceability.



- ❑ Eliminates hand held position error.
- ❑ DTS covers the most common torque ranges from 24 "in-lb" to 250 "ft-lb" and 3.4 to 340 "Nm"
- ❑ Drive sizes of 3/8", 1/2"
- ❑ ±1% Accuracy of reading 10 to 100% of scale.
- ❑ DTS manufactures both the mechanical and electronic components.
- ❑ Torque Meters operate in both CW & CCW directions.
- ❑ Torque Meter come in individual storage cases.
- ❑ Meets all industry standards for Torque Tools and supplied with certificates, (COC)

MODEL	DRIVE	RANGE			Dimension	Weight
		(in-lb)	(ft-lb)	(Nm)	INCH	lbs
TM-0502	3/8"	30 - 600	2.5 - 50	3.4 - 67.8	3.5" X 2.1"	0.55 lb
TM-1002	3/8"	60 - 1200	5 - 100	6.78 - 135	3.5" X 2.1"	0.55 lb
TM-1503	1/2"	90 - 1800	7.5 - 150	10.0 - 200	3.75" X 2.1"	0.72 lb
TM-2503	1/2"	150 - 3000	12.5 - 250	17 - 340	3.75" X 2.1"	0.72 lb

Pre-Torque Management Program (TTMP)

CONTROL PANEL

SEARCH AND ADD

☐ Add to Existing Customer

First: Baker  
Last: George  
Address: 232 Redland Ave.  
State: CA  
City: China  
Zip: 29383  
Phone: 2352352352  
LicensePlate#: 2352352352  
Comment:

DF ☒ PF ☒  
DRO ☐ PRO ☐  
DR ☐ PR ☐

Choose Car From Database

id	Year	Make	Model	Options	Wheel Size	Lug_Nb	Flt-Itb
5181	2005	Ford	Club Wagon	E150	P235/70R16	5	100
5182	2005	Ford	Club Wagon	E350 Super Duty Ext.	LT245/75R16E	8	140
5183	2005	Ford	Club Wagon	E350 Super Duty w/Op	LT245/75R16E	8	140
5184	2005	Ford	Club Wagon	E350 Super Duty	LT225/75R16E	8	140
5188	2005	Ford	Crown Victoria	Police Special	P225/60R16	5	105
5187	2005	Ford	Crown Victoria	LX Sport	P235/55R17	5	105
5186	2005	Ford	Crown Victoria	LX	P225/60R16	5	105
5185	2005	Ford	Crown Victoria	Base	P225/60R16	5	105
5195	2005	Ford	Econoline	E250 Super Duty Carg.	LT225/75R16E	8	140
5194	2005	Ford	Econoline	E250 Super Duty Carg.	LT225/75R16E	8	140
5193	2005	Ford	Econoline	E350 Super Duty Carg.	LT245/75R16E	8	140
5192	2005	Ford	Econoline	E350 Super Duty Carg.	LT245/75R16E	8	140
5191	2005	Ford	Econoline	E250 Super Duty Carg.	LT245/75R16E	8	140
5190	2005	Ford	Econoline	E250 Super Duty Carg.	LT245/75R16E	8	140

Hum Nut:  Torque: 140

Input a Car

Year:	Make:	Model:	Lug_nut:	Torque:
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

MANAGER CONTROL PANEL

# TorqVault System

Security, Integrity and Reliability  
You Can Count On





## WHAT MAKES IT SMART?

- ☐ MISSING LUG NUT DETECTION PATENTED
- ☐ STRIPPED LUG NUT DETECTION PATENTED
- ☐ ALARMS WHEN TORQUE IS REACHED
- ☐ COMMUNICATES WIRELESSLY
- ☐ PROVIDES DATA INTEGRITY
- ☐ LOW POWER CONSUMPTION
- ☐ EMPLOYS LITHIUM BATTERY TECHNOLOGY

## IDENTIFYING AND UNDERSTANDING THE PROBLEMS WITHIN THE TIRE INDUSTRY

According to Tire Review, posted on April 20, 2012, a tire broke loose from a school bus and hit another car causing a head-on collision. Fortunately, the victims were alive, but accidents like this often come at a high price. Usually, the end results are lost lives and millions of dollars. There are several reasons why a wheel can become loose and detach itself from the vehicle. However, the most common problems are from the studs or the bolts of the wheel. When a technician over tightens a bolt, breakage on the bolt can occur.

The insufficient application of torque can also cause the bolt to become loose and break away. The traditional methods to apply torque are through the use of torque sticks, mechanical click wrenches, or electrical torque wrenches. However, with these methods, there is no data or documentation to prove that technicians have done the job correctly. In comes a game changer, with the **TorqVault**. This new system provides quality, repeatability, and traceability.



MODEL	DRIVE	RANGE			Dimension	Weight
		(in-lb)	(ft-lb)	(Nm)	INCH	lbs
TV-2503	1/2"	N/A	30 - 250	40.5 - 340	30	4.17
TV-6004	3/4"	N/A	100 - 600	135 - 810	49	9.80
TV-WBS	Wireless Base Station connected to TCP/IP via Router				4"X7"X1.5"	0.72
TV-DB2014	2015 Data Base software      Update					0.10



# TorqueVault System

A unique solution for your business needs

## QUALITY

With  $\pm 2\%$  accuracy, the wrench ensures that each torque applied to the wheel assembly is always correct and within the allowance. The wrench is calibrated and tested according to be compliant with ISO-6789-2003, ASME B107-28-2005, and National Institute of Standards and Technology certificate.

## REPEATABILITY

TorqVault requires technicians to follow procedures to ensure each torque application is done properly. For example, when there is over torque error, the system requires the technician to loosen the lug nut and start over. When there is an under torque error, the system will not allow the technician to proceed to the next lug nut. This procedure helps train a technician to apply the torque correctly every time.

## TRACEABILITY

Contrary to the traditional methods, once all torques have been applied, records can be retrieved by the computer via wireless communication. A copy of all the torque data will then be saved for future records.



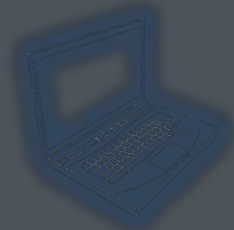
### WRENCH

- $\pm 2\%$  Accuracy
- 3D Gyroscope
- Large Matrix LCD
- 3 LEDs, Vibrator & Audio Tone
- Lithium rechargeable battery
- Mini Torque Sensor Tech.
- Light Weight and Ergonomic
- Radio Frequency Communication



### WIRELESS BASE STATION

- Encrypted Data Packeting
- TCP/IP Communication
- Allows Up To 50 Work Orders
- Controls Up To 10 Wrenches
- Easy Setup and Install



### DATABASE & SOFTWARE

- Wheel Torque Database
- More than 10,000 Torque Value
- Back up and Store Return Torque
- Generate Print Out On Demand
- Ability to Retorque After 100 Miles





NUCLEAR



MILITARY



AUTOMOTIVE



AIRCRAFT



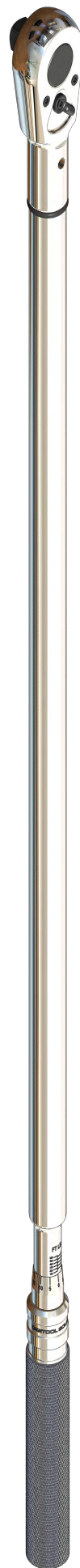
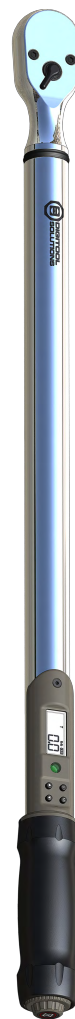
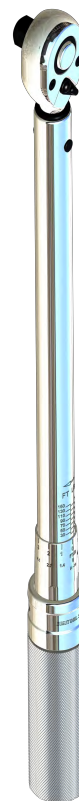
AEROSPACE



WIND POWER



MEDICAL





**DIGITool  
SOLUTIONS**

*Professional Torque Products*

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Chino, CA 91710 - USA  
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