

# DRILCO



## Summary Brochure 2018

Delivering enhanced **productivity**, improved **safety**, process **traceability** and **compliance** to industry standards for our customers through a range of advanced **torque solutions**



# What's inside?

## 1-2 Digital torque wrenches

The wrench that is trusted in aerospace, automotive, advanced engineering and maintenance applications

## 3-4 **NEW** - Smart-Click range of digital torque wrenches

The familiar feel & efficiency of a click wrench with the traceability & compliance of a digital wrench

## 5-6 **NEW** - Smart-Break range of digital breaking wrenches

A hybrid of the industry known mechanical breaking wrench and highly accurate digital torque wrench that offers a new take on torque management

## 7-8 **NEW** - Wheel-Torque software

A revolution in wheel-torque management and safety

## 9-10 Digital torque screwdrivers

Highly accurate screwdrivers for precise control at low torque

## 11 **NEW** - Smart-Break range of mechanical breaking wrenches

Robust and repeatable breaking wrenches which can be upgraded to Smart-Break digital breaking wrenches if required

## 12 Mechanical click wrenches

Set, torque & click-out. The dependable and repeatable mechanical click wrench

## 13-14 Digital torque testers

Test, validate & calibrate with this highly accurate range of torque testers

## 15 Why BMS?

# DIGITAL TORQUE WRENCHES

## Tightening & auditing tools

# DRILCO

### THE PROFESSIONAL'S CHOICE

- Maximum permissible deviation  $\pm 1\%$  of actual reading
  - Torque only and torque & angle modes available
    - Capture residual torque
- Languages; English, Chinese, French, German, Italian, Polish, Portuguese, Russian, Spanish
- Units; cN.m, N.m, ozf.in, lbf.in, lbf.ft, kgf.cm, kgf.m



#### SMART + EASY

Packed full of intelligent features. Easy to master

#### LIGHT + DURABLE

Suitable for rugged conditions.  
Ergonomically designed for repetitive use

#### CLEAR + DISTINCT

Bright OLED display with progress bar & buzzer for pass/fail signalling

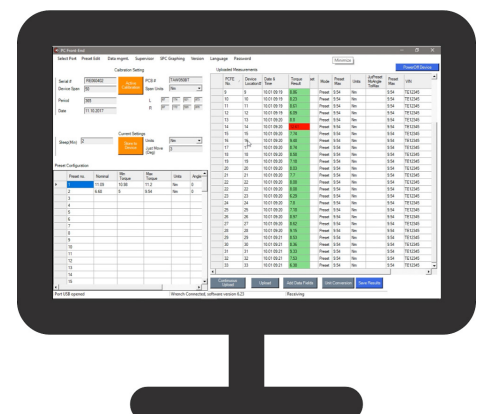
#### TRACEABLE

Transfer data via USB to PC software or upgrade to one of the wireless options

#### DIGITAL WRENCH SERIES

Feature	Pro	Super	Auditor
Track	Yes	Yes	Yes
Peak	Yes	Yes	Yes
Presets	1	99	99
Set Torque & Angle	-	-	Yes
Just Move	-	-	Yes
Just Angle	-	-	Yes
PC software	Yes	Yes	Yes

#### PC software





TW010, TW020, TW050, TW100



TW200, TW340



TW800, TW1000

Custom factory setting with  
ratchet rotated 90 degrees for  
vertical applications

## DIGITAL TORQUE WRENCH MODELS

Pro	Super	Auditor	Range (N.m)	Adapter	Ratchet	L (mm)	W (kg)
TW010P	TW010S	TAW010	1-10	9x12	1/4" / 3/8"	410	0.85
TW020P	TW020S	TAW020	2-20	9x12	1/4" / 3/8"	410	0.85
TW050P	TW050S	TAW050	5-50	9x12	3/8"	410	0.85
TW100P	TW100S	TAW100	10-100	9x12	3/8"	410	0.85
TW200P	TW200S	TAW200	20-200	14x18	1/2"	625	1.3
TW340P	TW340S	TAW340	34-340	14x18	1/2"	625	1.3
TW600P	TW600S	TAW600	60-600	24x32	3/4"	1250	4
TW800P	TW800S	TAW800	80-800	24x32	3/4"	1360	6
TW1000P	TW1000S	TAW1000	100-1000	24x32	3/4"	1360	6
TW1500P	TW1500S	TAW1500	150-1500	27x36	1"	1600	8
TW2000P	TW2000S	TAW2000	200-2000	27x36	1"	1600	8

### ONE-WAY WIRELESS UPGRADE (Zigbee)

One-way wireless wrench upgrade  
Separate wireless receiver required

### Model #

TW\*\*\*\*W  
WCBR



WCBR

### TWO-WAY WIRELESS UPGRADE (Bluetooth)

Two-way wireless wrench upgrade

### Model #

TW\*\*\*\*BT



BATCH CAPTURE software

### ENHANCED FEEDBACK UPGRADE

Vibrating handle & extra LEDs

### Model #

TW\*\*\*\*-EF



TW050S-EF

## CLICK IT OUT, SAVE THE RESULT

- Maximum permissible deviation  $\pm 1\%$  of actual reading
- Click repeatability  $\pm 4\%$  of actual reading
- Capture first peak & ensure minimum torque reached
- Capture installed torque for full traceability
- Languages; English, Chinese, French, German, Italian, Polish, Portuguese, Russian, Spanish
- Units; cN.m, N.m, ozf.in, lbf.in, lbf.ft, kgf.cm, kgf.m



### SMART + EASY

Packed full of intelligent features. Easy to master

### CLEAR + DISTINCT

Distinct mechanical click, bright OLED display, progress bar & buzzer for pass/fail signalling

### FAMILIAR + ADVANCED

The familiar feel and efficiency of a click wrench with the traceability of a digital wrench

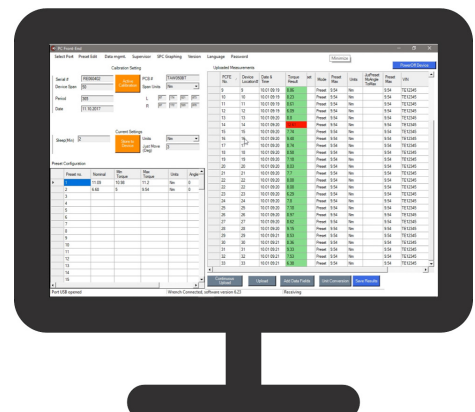
### TRACEABLE

Transfer data via USB to PC software or upgrade to one of our wireless options

### SMART-CLICK SERIES

Feature	Super
Track	Yes
Peak	Yes
Presets	99
Click-Torque	Yes
Installed Torque	Yes
PC software	Yes

### PC software





**SMART-CLICK MODELS**

Super	Adjustable Range (N.m)	Adapter	Ratchet	L (mm)	W (kg)
SC065S	20-65	9x12	3/8"	400	1
SC160S	40-160	14x18	1/2"	515	1.4

**ONE-WAY WIRELESS UPGRADE (Zigbee)**

One-way wireless wrench upgrade  
Separate wireless receiver required

**Model #**

SC\*\*\*\*W  
WCBR



WCBR

**TWO-WAY WIRELESS UPGRADE (Bluetooth)**

Two-way wireless wrench upgrade

**Model #**

SC\*\*\*\*BT



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## BREAK WITH TRADITION

- Maximum permissible deviation  $\pm 1\%$  of actual reading
  - Breaking repeatability  $\pm 4\%$
  - Record 'as found' results
- Capture installed torque for full traceability
  - Breaking angle of 20 degrees
- Languages; English, Chinese, French, German, Italian, Polish, Portuguese, Russian, Spanish
  - Units; N.m, lbf.ft



Worldwide patent pending.  
Irish application #: S2017/0229

### SMART + EASY

Packed full of intelligent features. Easy to master

### CLEAR + DISTINCT

Distinct break-over, bright OLED display, progress bar & buzzer for pass/fail signalling

### FAMILIAR + ADVANCED

The familiar feel and efficiency of a breaking wrench with the traceability of a digital wrench

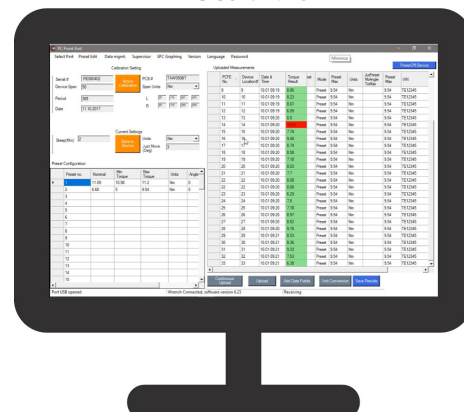
### TRACEABLE

Transfer data via USB to PC software or upgrade to one of our wireless options

### SMART-BREAK SERIES

Feature	Super
Track	Yes
Peak	Yes
Presets	99
PC software	Yes

### PC software







An SB750S breaking over at set torque

SMART-BREAK MODELS

Super	Adjustable Range (N.m)	Ratchet	L (mm)	W (kg)
SB750S	300-1000	1"	1370	8.8

ONE-WAY WIRELESS UPGRADE (Zigbee)

One-way wireless wrench upgrade  
Separate wireless receiver required

Model #

SB\*\*\*\*W  
WCBR



WCBR

TWO-WAY WIRELESS WHEEL-TORQUE UPGRADE  
(Bluetooth)

Two-way wireless wrench upgrade

Model #

SB\*\*\*\*BT



WHEEL-TORQUE software

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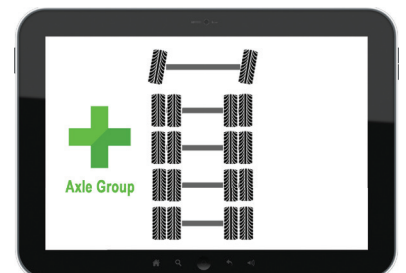
## A **revolution** in wheel



Wheel-Torque  
software



Add vehicle



Configure  
axle groups

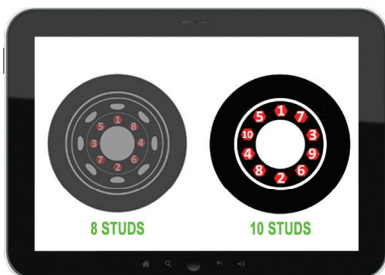
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# torque management & safety



**Configure  
stud settings**



**Follow nut  
sequence**

Efficiency

Process Control

Compliance

Traceability

Accountability

**Added-value**

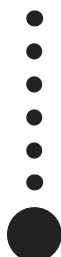
## SET, TORQUE & BREAK

- Maximum permissible deviation  $\pm 4\%$
- Breaking angle of 20 degrees
- Option to upgrade to Smart-Break digital (pg 5-8)
- Units; N.m, lbf.ft



### CONTROLLED

High-strength 44 tooth 1" ratchet head allows for controlled torquing



### MODULAR

Breaking handle and ratcheting end are interchangeable.



### CLEAR + DISTINCT

Distinct break-over signals target torque reached and limits the chance of over-torque



### PRECISE

Reduced handle size mitigates risk of over/under-torque

### MECHANICAL BREAKING WRENCH MODEL

Model #	Range (N.m)	Ratchet	L (mm)	W (kg)
MBW1000	300-1000	1"	1370	8

# MECHANICAL TORQUE WRENCHES

Click-type tightening tools



## SET, TORQUE & CLICK OUT

- Maximum permissible deviation  $\pm 4\%$  CW,  $\pm 6\%$  CCW
- Units; major scale - N.m, minor scale - lbf.ft.



### ROBUST

Internal mechanism leads to extended tool life and strength



### LIGHT + DURABLE

Suitable for rugged conditions. Ergonomically designed for repetitive use



### CLEAR + DISTINCT

Distinct click mechanism signals target torque has been reached



### SET & TORQUE

Pull out end-cap and quickly adjust to desired click-out point

### MECHANICAL CLICK WRENCH MODELS

Model #	Range (N.m)	Ratchet	L (mm)	W (kg)
MW125	25-125	3/8"	425	0.9
MW335	65-335	1/2"	520	1.1

# DIGITAL TORQUE SCREWDRIVERS

## Tightening tools

# DRILCO

### PRECISE FASTENING

- Maximum permissible deviation  $\pm 1\%$  of actual reading
- Tighten using torque presets
- Capture breakaway torque
- Languages; English, Chinese, French, German, Italian, Polish, Portuguese, Russian, Spanish
- Units; cN.m, N.m, ozf.in, lbf.in, lbf.ft, kgf.cm, kgf.m



### SMART + EASY

Packed full of intelligent features. Easy to master

### LIGHT + COMPACT

3-position ratchet for optimum control

### CLEAR + DISTINCT

Bright OLED display with progress bar & buzzer for pass/fail signalling

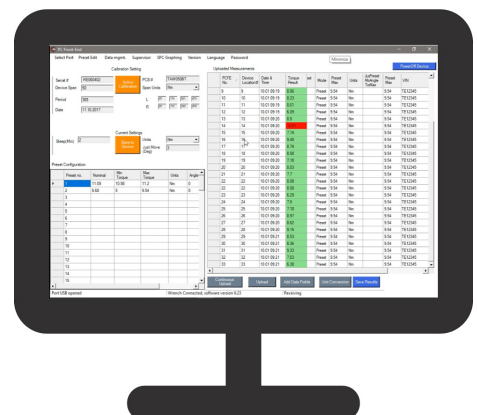
### Traceable

Transfer data via USB to PC software or upgrade to one of our wireless options

### DIGITAL SCREWDRIVER SERIES

Feature	Pro	Super
Track	Yes	Yes
Peak	Yes	Yes
Presets	1	99
PC software	Yes	Yes

### PC software



## MS SERIES DIGITAL SCREWDRIVER MODELS

Pro	Super	Range (cN.m)	Ratchet
MS050P	MS050S	5-50	1/4"
MS150P	MS150S	15-150	1/4"
MS200P	MS200S	20-200	1/4"
MS350P	MS350S	35-350	1/4"
MS500P	MS500S	50-500	1/4"



MS050, MS150, MS200, MS350, MS500



MS/MST controller (non-interchangeable)

## MST SERIES DIGITAL SCREWDRIVER MODELS

Pro	Super	Range (N.m)	Ratchet
MST005P	MST005S	0.5-5	1/4"
MST010P	MST010S	1-10	1/4"



MST005, MST010

### ONE-WAY WIRELESS UPGRADE (Zigbee)

Model #
One-way wireless screwdriver upgrade
One-way wireless screwdriver upgrade
Separate wireless receiver required

### Model #

MS\*\*\*W  
MST\*\*\*W  
WCBR



WCBR

### TWO-WAY WIRELESS UPGRADE (Bluetooth)

Model #
Two-way wireless screwdriver upgrade
Two-way wireless screwdriver upgrade

### Model #

MS\*\*\*BT  
MST\*\*\*BT



BATCH CAPTURE software



# DIGITAL TORQUE TESTERS

Test, validate & calibrate

# DRILCO

## STRAIGHTFORWARD COMPLIANCE

- Maximum permissible deviation  $\pm 0.5\%$  of actual reading
- Test using torque presets
- Capture first peak & dynamic peak
- SCBS and Smart Transducers are interchangeable
- Test continuous-drive tools (max.1200 rpm) & hand-driven torque tools (e.g. digital, click, slipping & breaking types)
- Languages; English, Chinese, French, German, Italian, Polish, Portuguese, Russian, Spanish
- Units; cN.m, N.m, ozf.in, lbf.in, lbf.ft, kgf.cm, kgf.m



### SMART + EASY

Packed full of intelligent features. Easy to master



### CLEAR + DISTINCT

Bright OLED display with progress bar & buzzer for pass/fail signalling

### ROBUST + ACCURATE

Advanced materials suitable for rigorous use and highly accurate testing

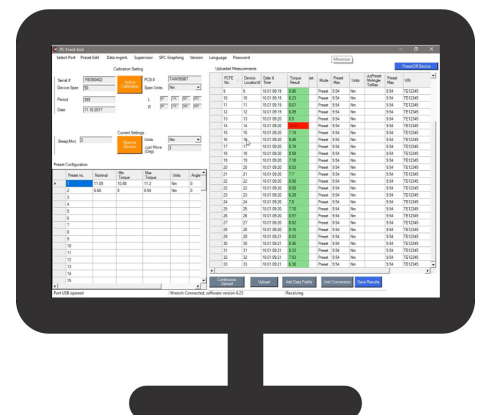
### TRACEABLE

Transfer data via USB to PC software or upgrade to one of our wireless options

## DIGITAL TESTER SERIES

Feature	Super
Track	Yes
Peak	Yes
Presets	99
Click-Torque	Yes
Dynamic Preset	Yes
PC software	Yes

## PC software





## SMART TRANSDUCER MODELS

Transducer	Range: (cN.m) / N.m	Socket	H (mm)	W (kg)
ST0.5	(5-50)	1/4"	75	0.72
ST1.5	(15-150)	1/4"	75	0.72
ST002	(20-200)	1/4"	75	0.72
ST3.5	(35-350)	1/4"	75	0.72
ST005	(50-500)	1/4"	75	0.72
ST010	1-10	1/4"	75	0.72
ST020	2-20	1/4"	75	0.72
ST050	5-50	3/8"	120	1.2
ST100	10-100	3/8"	120	1.2
ST200	20-200	1/2"	120	1.2
ST340	34-340	1/2"	120	1.2
ST600	60-600	3/4"	135	1.6
ST800	80-800	3/4"	147	2.8
ST1000	100-1000	3/4"	147	2.8
ST1500	150-1500	1"	177	3.8
ST2000	200-2000	1"	177	3.8



ST600-ST1000



ST0.5 - ST020

## SMART CONTROLLER MODEL

Model #	Connectivity
SCBS	With all ST models



SCBS

## ONE-WAY WIRELESS UPGRADE (Zigbee)

Model #
One-way wireless tester upgrade
Separate wireless receiver required
SCBSW
WCBR



WCBR

## TWO-WAY WIRELESS UPGRADE (Bluetooth)

Model #
Two-way wireless tester upgrade
SCBSBT



BATCH CAPTURE software

# Why BMS?

Delivering enhanced **productivity, improved safety, process traceability and compliance** to industry standards for our customers through a range of advanced **torque solutions**

Founded in 1980 as a family business, BMS have considerable experience in designing & developing torque solutions for companies in the aerospace, automotive, light & heavy manufacturing, maintenance and advanced manufacturing sectors. Our solutions withstand the most stringent demands in terms of precision, durability, functionality and design.

BMS distinguishes itself from other torque manufacturers by excelling in the development of customer orientated solutions that meet specific requirements and applications, while also offering a contemporary range of torque products.

Our team comprises of mechanical, electronic and software engineers, industrial designers, machinists, assembly, service and administration personnel. Each individual strives toward a shared vision - to deliver improved efficiency, compliance to standards and improved safety to our customers and their stakeholders.

BMS have always placed significant value on their distributors and continue to work with many of the same partners since the company's inception. Do not hesitate to contact us, or one of our worldwide partners, for further information or to discuss a specific project that requires a unique solution.



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