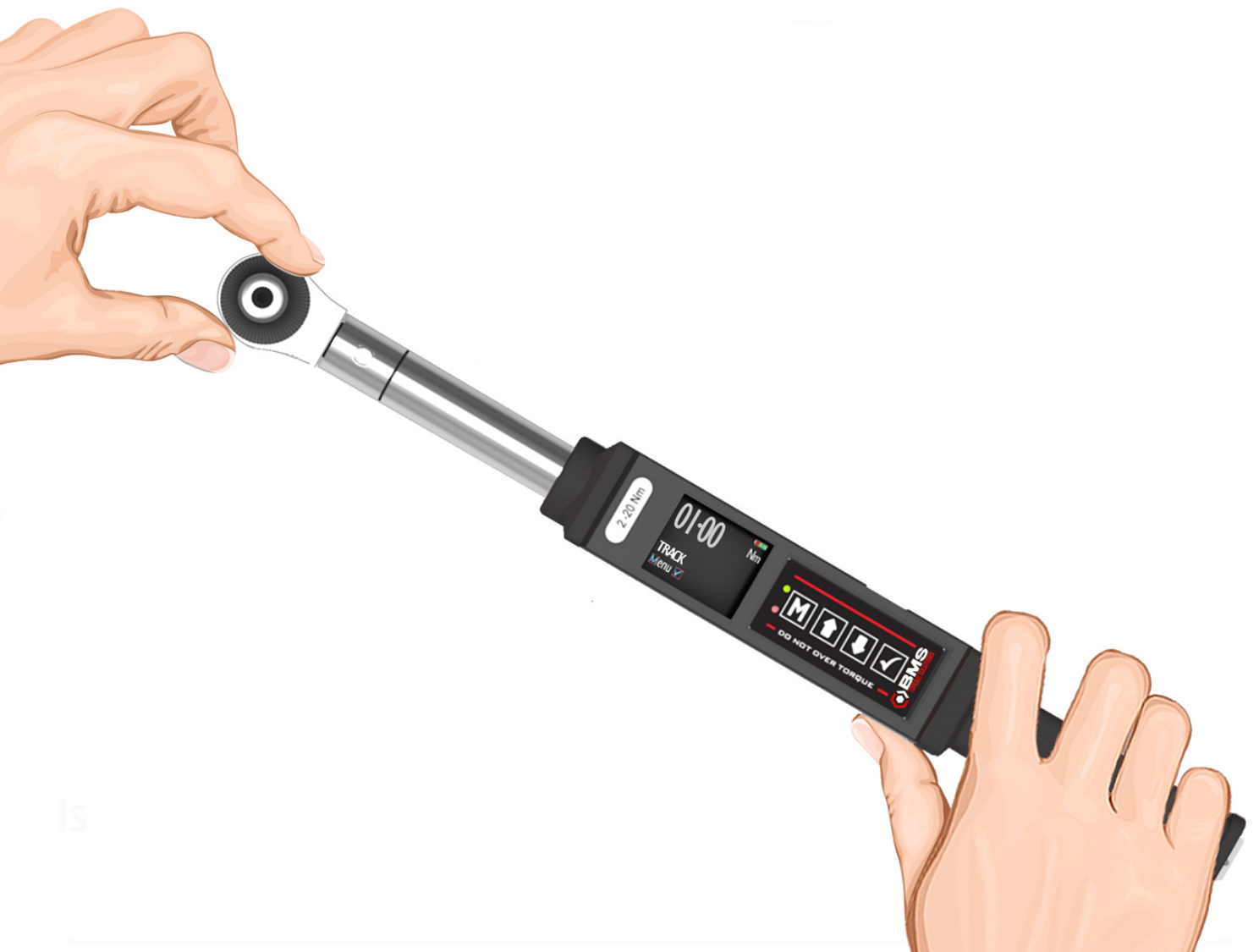




## Summary Brochure 2016

*Delivering enhanced **Productivity**, increased **Sustainability**  
and improved **Safety** to our customers through a range of  
advanced **Torque Solutions***

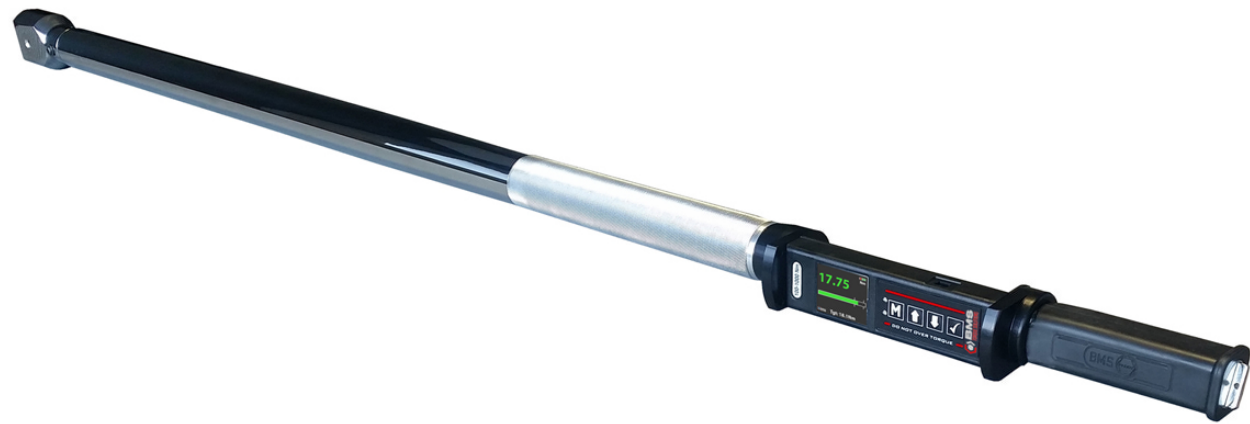


### About Us

For over 30 years, BMS has been at the forefront of the torque industry, designing, developing & manufacturing Torque Products with cutting-edge technologies to meet our customers' specific requirements.

The failure of an inexpensive fastener which has been incorrectly specified or tightened can be detrimental in terms of time, money and safety.

BMS is mitigating these risks through intuitive and market-driven Torque Solutions.



### Creating Added-Value

The research team at BMS can design & develop an extensive range of specialized solutions. These include Software modifications, Hardware & Mechanical designs & System integration with other technologies.

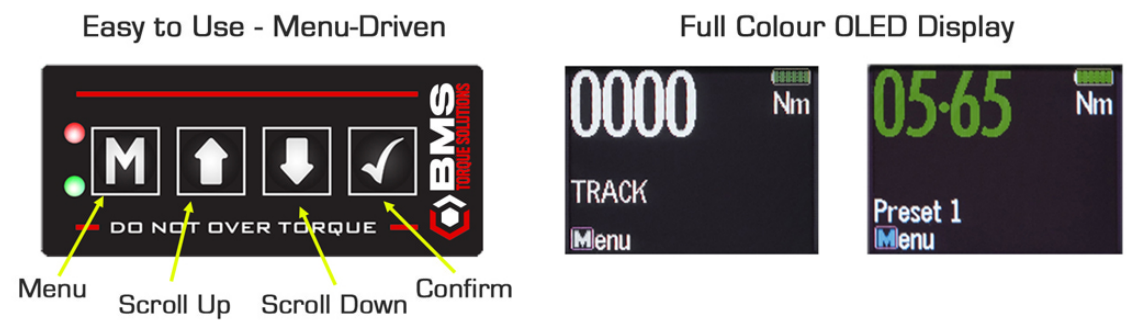
No.	Product	Date	Initial	Target	Target	Unit	Mode	Power	Angle	Power	
2	218	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
3	217	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
4	218	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
5	219	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
6	200	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
7	201	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
8	202	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
9	203	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
10	204	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
11	205	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
12	206	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
13	207	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
14	208	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
15	209	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
16	210	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
17	211	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
18	212	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
19	213	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
20	214	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
21	215	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
22	216	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
23	217	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
24	218	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
25	219	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
26	220	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
27	221	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
28	222	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
29	223	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
30	224	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2
31	225	21.03.18.02	PF1200000	15	5	Nm	Angle	2	3	100	2.2

User-Interface

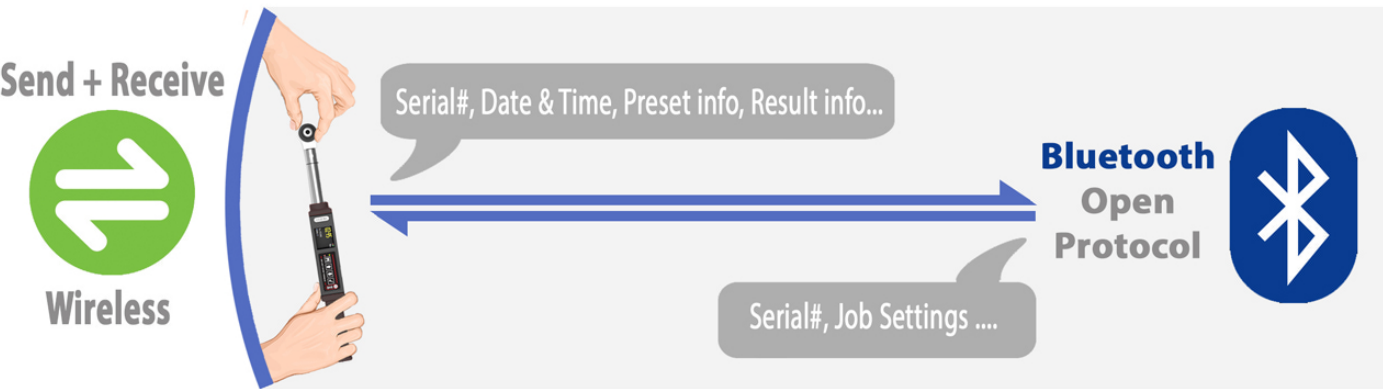
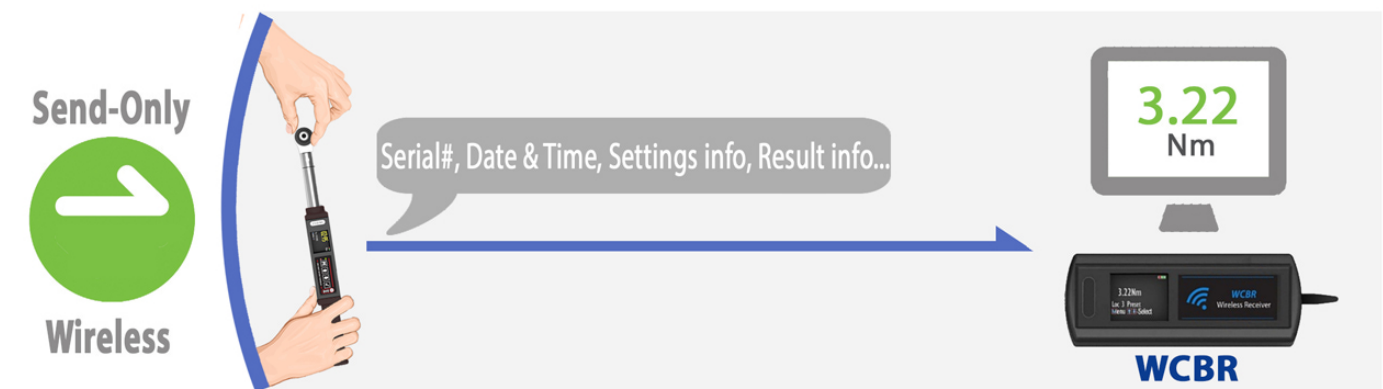
All digital products are supplied with our New PCFE software. Features include SPC (Statistical Process Control), export options & wireless communication platforms.

### Ease of use

Our intuitive menu-driven interface, coupled with standardisation across our product portfolio means the operation of these tools can be learned in minutes, and this knowledge is transferable between the product groups.



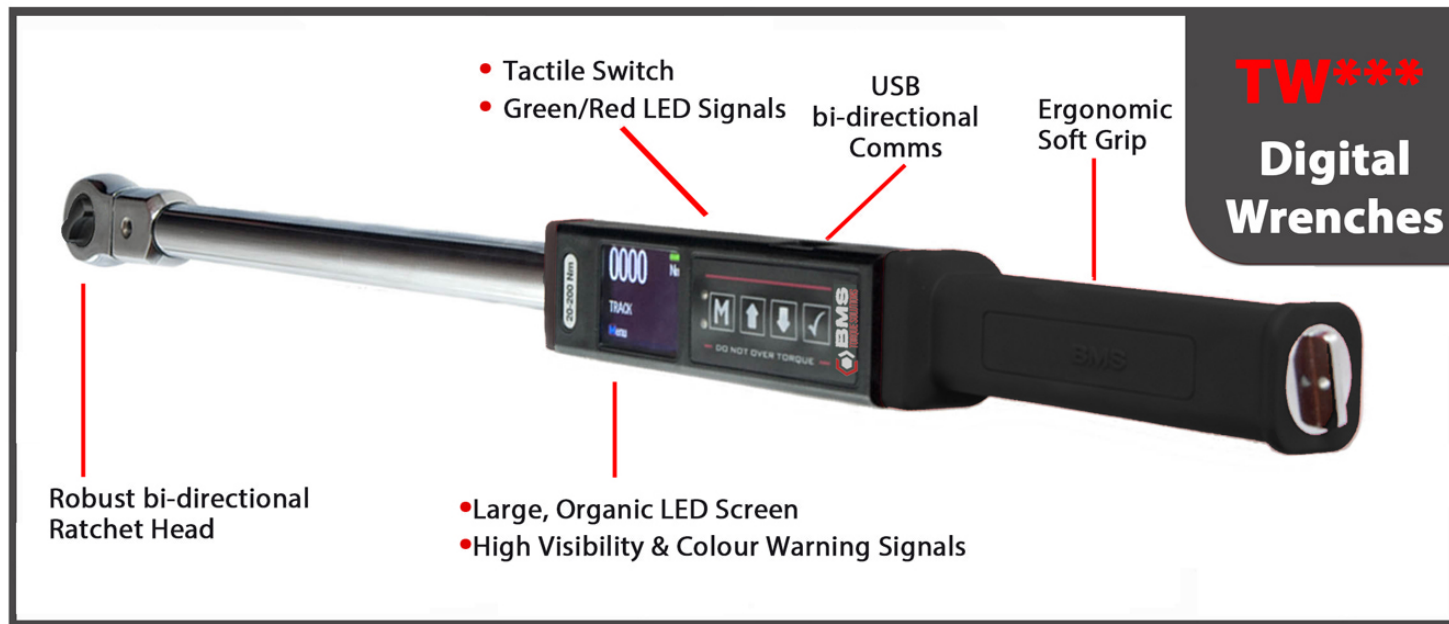
### Wireless Solutions



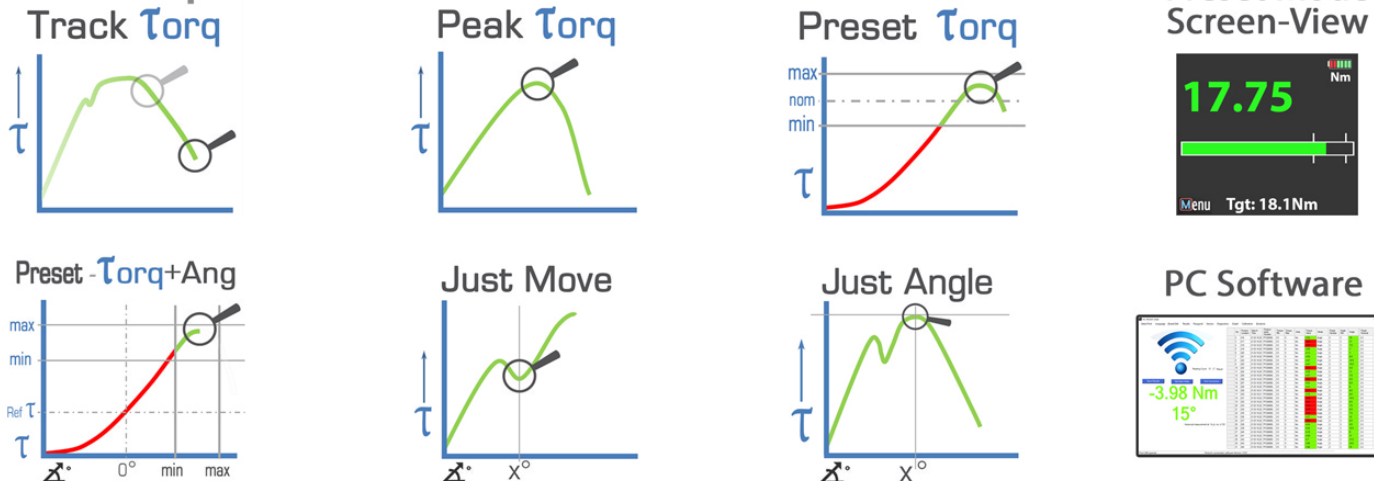


## Key Features

- Accuracy of  $\pm 1\%$  of Actual Reading from 10% - 100% of full Scale
  - Angle accuracy of  $\pm 1$  degree
  - Torque Reading starts from 5% of full scale
- Storage capacity of up to 6000 measurements
- Torque & Angle Modes available
- Wireless Solutions available
- Multiple Units (cNm, Nm, kgfm, kgfcm, ozins, lbins, lbft)
- Multiple Languages (English, Chinese, French, German, Italian, Polish, Portuguese, Russian, Spanish)
- Coloured LED warning signals
- Compatible with rechargeable or standard consumable batteries
- Viewing angle of 170°



## Modes of Operation



## Wrench Models

Pro	Super	Key Feature	Assembly	Auditor
✓	✓	Track	✓	✓
✓	✓	Peak	✓	✓
1	99	Presets	99	99
		Set Torque & Angle	✓	✓
		Just Move		✓
		Just Angle		✓
> 2000	> 4000	Available space (Torque Records)	> 6000	> 6000
✓	✓	Restrict Operator	✓	✓
<b>Advanced Upgrade Options</b>				
	✓	Autostore Option	✓	✓
	✓	Enhanced Feedback Option	✓	✓
	✓	Torque Cycle Counter	✓	✓
	✓	Serial Output	✓	✓



On Request Range (Nm)	Pro	Super	Assembly	Auditor	Nm	Ratchet	L (m)	Kg	
1-135	TW010P	TW010S	TW010A	TAW010	1-10	9x12	1/4" or 3/8"	0.4	0.85
	TW020P	TW020S	TW020A	TAW020	2-20		3/8"		
	TW050P	TW050S	TW050A	TAW050	5-50				
	TW100P	TW100S	TW100A	TAW100	10-100				
15-400	TW200P	TW200S	TW200A	TAW200	20-200	14x18	1/2"	0.63	1.3
	TW340P	TW340S	TW340A	TAW340	34-340				
50-600	TW600P	TW600S	TW600A	TAW600	60-600	24x32	3/4"	1.25	4
80-1000	TW800P	TW800S	TW800A	TAW800	80-800	24x32	3/4"	1.35	6
	TW1000P	TW1000S	TW1000A	TAW1000	100-1000				
150-2000	TW1500P	TW1500S	TW1500A	TAW1500	150-1500	27x36	1"	1.6	8
	TW2000P	TW2000S	TW2000A	TAW2000	200-2000				



**Send-Only Wireless Upgrade**

TW\*\*\*PW TW\*\*\*SW TW\*\*\*AW TAW\*\*\*W  
 Wireless Receiver - WCBR  
 Wireless Receiver with ASCII output - WCBR-ASCII



**Send + Receive Wireless Upgrade**

TW\*\*\*P-BT TW\*\*\*S-BT TW\*\*\*A-BT TAW\*\*\*-BT

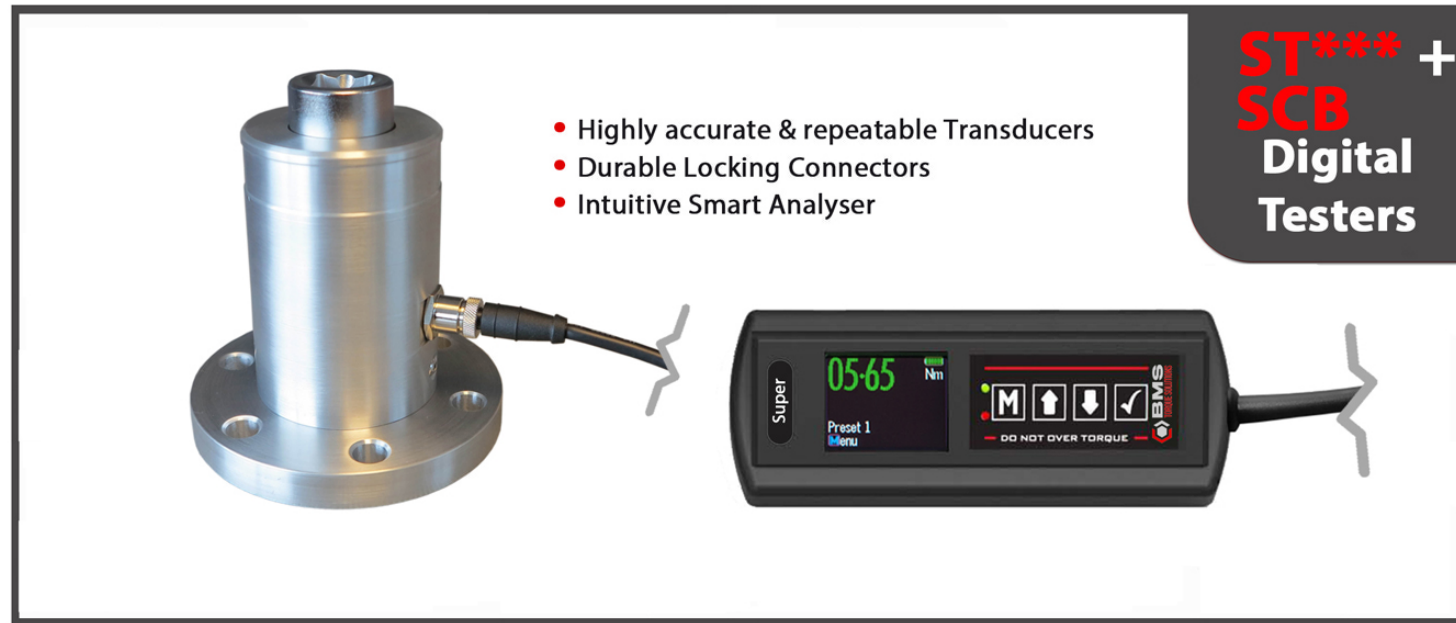
**Enhanced Feedback Upgrade**

Vibrating Handle + enhanced visual warning. Add 'EF' to Model #

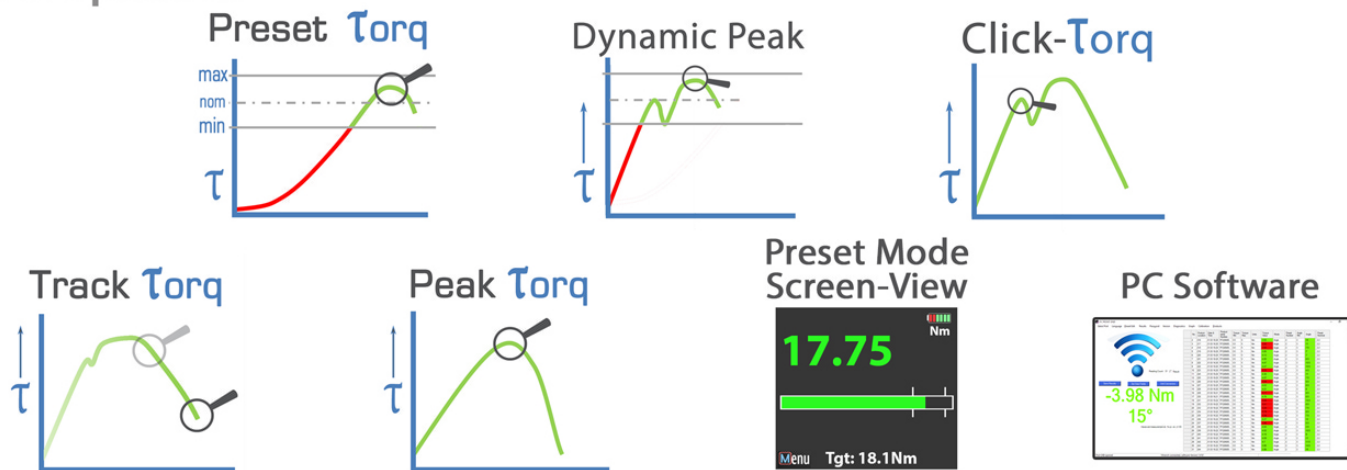


### Key Features

- Accuracy of  $\pm 0.5\%$  of Actual Reading from 10% - 100% of full Scale
  - Torque Reading starts from 5% of full scale
- Dynamic peak mode for capturing Click, Slipping & Continuous drive tools
- Click-torque mode for capturing First Peak
- Wireless Solutions available
- Multiple Units (cNm, Nm, kgfm, kgfcm, ozins, lbins, lbft)
- Multiple Languages (Chinese, English, French, German, Italian, Polish, Portuguese, Russian, Spanish)
- Smart Control Box compatible with all Smart Transducers & vice versa
- Compatible with BMS Calibration Rig or as a stand-alone test unit



### Modes of Operation



### Tester Models

Pro	Key Feature	Super
✓	Track	✓
✓	Peak	✓
1	Presets	99
✓	Dynamic Peak	✓
	Click Torque	✓
> 2000	Available space (Torque Records)	> 4000
✓	Restrict Operator	✓
<b>Advanced Upgrade Options</b>		
	Autostore Option	✓
	Torque Cycle Counter	✓
	Serial Output	✓

On Request Range (Nm)	Smart Transducers	Nm (cNm)	Socket	Height (mm)	Kg
0.05 - 20	ST0.5	(5-50)	1/4"	75	0.7
	ST1.5	(15-150)			
	ST002	(20-200)			
	ST3.5	(35-350)			
	ST005	.5-5			
	ST010	1-10			
5-135	ST020	2-20	3/8"	120	0.9
	ST050	5-50			
15-340	ST100	10-100	1/2"	135	1.2
	ST200	20-200			
50-800	ST300	30-300	3/4"	147	1.6
	ST600	60-600			
10-1000	ST800	80-800	1"	177	2.8
	ST1000	100-1000			
150-2000	ST1500	150-1500	1"	177	3.8
	ST2000	200-2000			

Single Smart Torque Analyser	
Smart Control Box - Pro	SCBP
Smart Control Box - Super	SCBS
Smart Control Box - Super ASCII	SCBS-ASCII

Send-Only Wireless Upgrade	
SCBP with Wireless	SCBP W
SCBS with Wireless	SCBS W
Wireless Receiver	WCBR
Wireless Receiver with ASCII	WCBR-ASCII



### Key Features

- Accuracy of  $\pm 1\%$  of Actual Reading from 10% - 100% of full Scale for MS (Micro-Screwdriver) & MST (Micro-Screwdriver with Lever). Accuracy of  $\pm 2\%$  for HH (Handheld) model
- Torque Reading starts from 5% of full scale
- Wireless Solutions available
- Multiple Units (cNm, Nm, kgfm, kgfcm, ozins, lbins, lbft)
- Multiple Languages (Chinese, English, French, German, Italian, Polish, Portuguese, Russian, Spanish)
- Lever supplied with MST for comfortable torque control at higher torque
- The Handheld is a motor-less, stand-alone unit



### Screwdriver Models

Pro	Key Feature	Super
✓	Track	✓
✓	Peak	✓
1	Presets	99
> 2000	Available space (Torque Records)	> 4000
✓	Restrict Operator	✓
<b>Advanced Upgrade Options</b>		
	Autostore Option	✓
	Serial Output	✓
	Torque Cycle Counter	✓

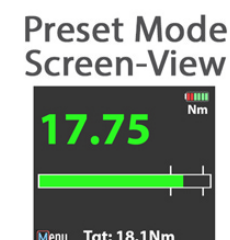
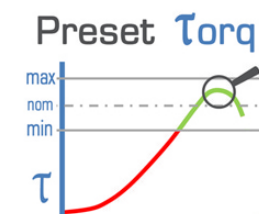
Pro	Super	Nm (cNm)	Drive	Kg
MS050P	MS050S	(5-50)	1/4"	0.4
MS150P	MS150S	(15-150)		
MS200P	MS200S	(20-200)		
MS350P	MS350S	(35-350)		
MS500P	MS500S	(50-500)		
MST005P	MST005S	0.5-5	1/4"	0.6
MST010P	MST010S	1-10		
MST015P	MST015S	1.5-15		
HH005P	HH005S	0.5-5	1/4"	0.5
HH010P	HH010S	1-10		



#### Send-only Wireless Upgrade

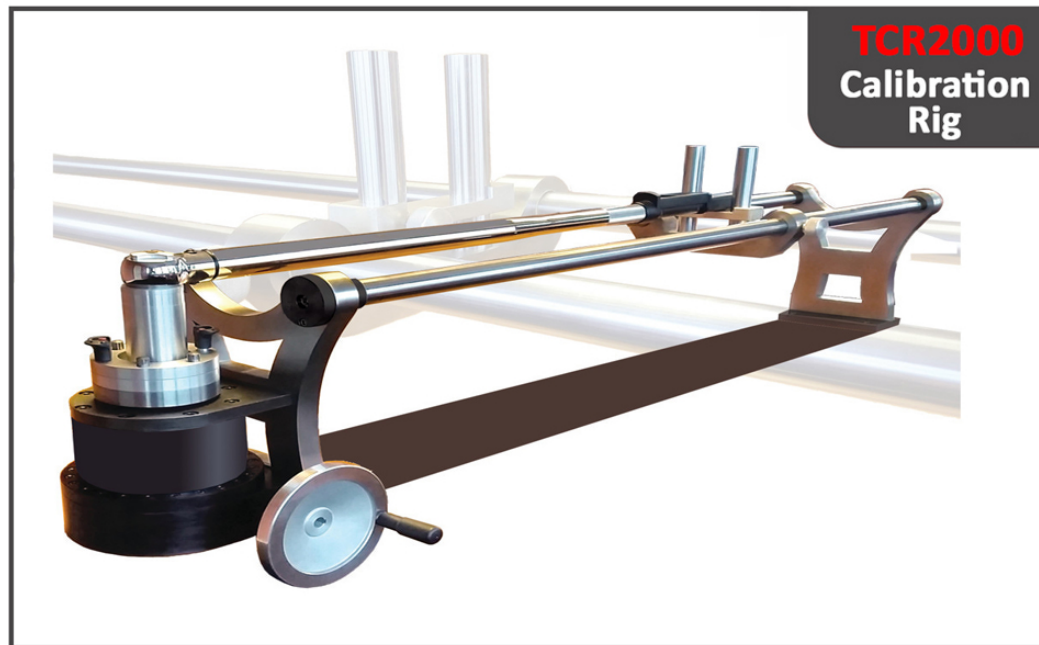
MS\*\*\*PW    MS\*\*\*SW    MST\*\*\*PW    MST\*\*\*SW  
 Wireless Receiver - WCBR  
 Wireless Receiver with ASCII output - WCBR-ASCII

### Modes of Operation



### Key Features

- High quality planetary gear system for precise control with minimal effort
- Compatible with BMS ST (Smart Transducers)
- Calibrate Digital Wrenches to 2000Nm & Mechanical wrenches to 1500Nm
- Self-lubricating bearings for smooth operation of carriage
- Quick release pins allow for quick & easy interchangeability of Smart Transducers
- Robust stainless steel frame
- Modular design



### Models

Torque Calibration Rig	
TCR2000	2000Nm Calibration Rig
TCR2000P	Includes SCBP
TCR2000S	Includes SCBS



Compatible with BMS ST (Smart Transducers) & SCB (Smart control Box)

### Key Features

- Adjustable wrenches up to 1000Nm, Preset wrenches up to 500Nm
- Audible & tactile click when torque is reached
- Accuracy of  $\pm 3\%$  of actual CW reading
- NFC Asset Management Tag on Adjustable Wrenches
- Fixed Ratchet and Interchangeable Adapter types available



Fixed Ratchet	Adapter Head	Nm	Ratchet	Adapter	Kg
<b>Adjustable Wrenches</b>					
MWE005	MWEA005	1-5	1/4"	9x12	0.3
MWE015	MWEA015	3-15			0.4
MWE012	MWEA012	2.5-12	1/4"	9x12	0.7
MWE030	MWEA030	6-30	3/8"		0.8
MWE060	MWEA060	10-60	3/8"		0.9
MWE125	MWEA125	25-125	3/8"	9x12	1
MWE200	MWEA200	40-200	1/2"	14x18	1.1
MWE335	MWEA335	65-335			1.3
MWE1000	—	200-1000	3/4"	N/A	6
<b>Preset Wrenches</b>					
PMW012	PMWA012	2.5-12	1/4"	9x12	0.5
PMW030	PMWA030	6-30	3/8"		0.5
PMW125	PMWA125	25-125	3/8"		1
PMW200	PMWA200	40-200	1/2"	14x18	1
PMW335	PMWA335	65-335	1/2"		1.2
PMW500	—	100-500	3/4"	N/A	5



# Advanced Wireless

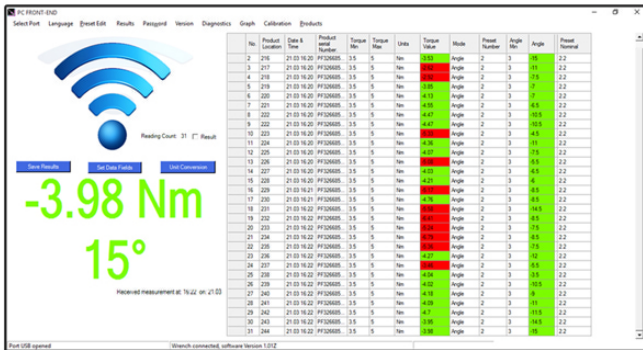


# MST Screwdriver

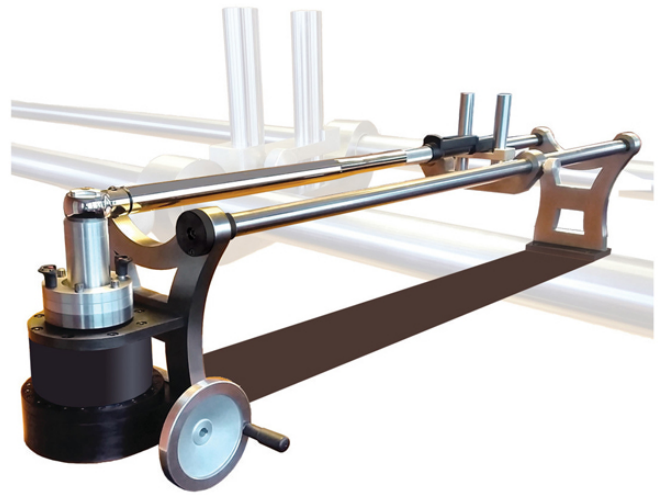


**NEW**

# User-interface



# ISO Calibration



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