



TAC industrial company limited provide the very latest technology, developing and manufacturing of high-quality innovative products in the field of bolting industry. TAC continues to invest in the torque access control technology to achieve modern technology and first-class quality bolting equipment. As a leading manufacturer of pneumatic, battery, electric and hydraulic torque wrench, TAC has successfully developed and produced highest level of precision bolting tools.

TAC products includes air/pneumatic torque wrench, electric torque wrench, battery torque wrench, hydraulic torque wrench, bolting calibration equipment and customized bolting solutions.

TAC bolting equipment is successfully proven in different industries such as electric power construction, oil and gas, petrochemical, mining, aerospace, power generation, etc.



## TABLE OF CONTENT

### TAC Pneumatic Series

PTW Single Speed

PTWF High Speed

PTWE Wheel Nut Bolting & OTR Mining

PTWD Transducer Verification

### TAC Battery Series

BTW Single Speed

BTWF High Speed

BETW AC-DC 2-IN-1 Series

BTWA Offset Select

BTWS Transducer Verification

### TAC Precision Servo Series

STW AC Servo Technology

STWD DC Servo Technology

### TAC Calibration equipment

TAC-C Smart Socket

TAC-TC Dual-Transducer Test

Stands-Rundown&Fixture

### TAC Service

Rental

Sample Demo

Warranty

### TAC Accessories

### TAC Applications



## TAC Pneumatic Series



### TAC pneumatic tools feature:

- ◆ High-precision air motor imported from Japan
- ◆ Digital LCD display, adjust torque every 10Nm.
- ◆ Portable basket with FRL unit, easy carry
- ◆ Ultra-high strength alloy steel gear reduction box
- ◆ Non-impact



### All TAC pneumatic tools include:

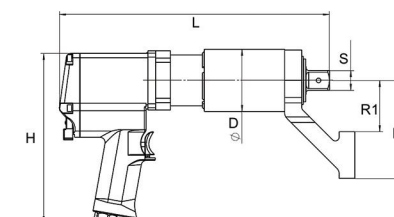
- Pneumatic torque wrench
- Reaction arm & retaining ring
- Portable basket with FRL unit, 3.6m hose and fittings
- ABS carrying case
- Instruction manual
- Calibration certificate ISO17025 standards



## PTW Single Speed



- Heavy industrial-grade air motor imported from Japan ensures the continuity of torque output and the long-term stability.
- Continuous and stable torque output, easy work without reaction force, avoiding destructive nut hammering.
- Ergonomic and comfortable handle reduces operator injuries and fatigue and improves production efficiency.
- Enclosed lightweight aluminum alloy shell provides stable torque output, durable and low noise. Output accuracy  $\pm 4\%$  and repeatability  $\pm 2\%$ .
- Optional digital display adjusts the torque every 10Nm to select the target torque more accurately (customized).
- Optional Bluetooth and wireless modules to connect with c-series smart sockets for joint calibration of sensor verification and precise control and tracking of torque output terminals(customized).
- Optional sensor system enables precise control of the torque output target unit, with an adjustment accuracy of up to  $\pm 2\%$  (customized).
- Portable tool basket conforms to ergonomic mechanics and is more convenient for moving work.



Model	Min torque (N.m)	Max torque (N.m)	S	D	L	H	R1	R2	Weight	Max speed
				mm					( Kg )	rpm
PTW-05	100	500	3/4 "	60	170	210	56	99	4	50
PTW-10	150	1000	3/4 "	74	250	210	62	112	4.8	28
PTW-15	200	1500	1 "	76	260	210	70	130	5.2	21
PTW-20	300	2000	1 "	76	260	210	70	130	5.5	15
PTW-30	500	3000	1 "	93	340	210	80	150	7.5	10
PTW-40	700	4000	1-1/2 "	97	340	210	80	150	9.5	7
PTW-60	1000	6000	1-1/2 "	105	380	210	93	158	14	5
PTW-80	2000	8000	1-1/2 "	113	380	210	93	158	18	4
PTW-100	2000	10000	1-1/2 "	120	390	210	93	158	20	2.5
PTW-120	3500	12000	1-1/2 "	125	395	210	93	158	21	1.8



## PTWF High Speed



- ◆ Heavy industrial-grade air motor imported from Japan ensures the continuity of torque output and the long-term stability.
- ◆ The two-speed models feature a unique full automatic gearbox design, eliminating the time consuming switch between high and low speed gear.
- ◆ Continuous and stable torque output, easy work without reaction force, avoiding destructive nut hammering.
- ◆ Ergonomic and comfortable handle reduces operator injuries and fatigue and improves production efficiency.
- ◆ Enclosed lightweight aluminum alloy shell provides stable torque output, durable and low noise. Output accuracy  $\pm 4\%$  and repeatability  $\pm 2\%$ .
- ◆ Optional digital display adjusts the torque every 10Nm to select the target torque more accurately (customized).
- ◆ Optional Bluetooth and wireless modules to connect with c-series smart sockets for joint calibration of sensor verification and precise control and tracking of torque output terminals(customized).
- ◆ Optional sensor system enables precise control of the torque output target unit, with an adjustment accuracy of up to  $\pm 2\%$  (customized).
- ◆ Portable tool basket conforms to ergonomic mechanics and is more convenient for moving work.

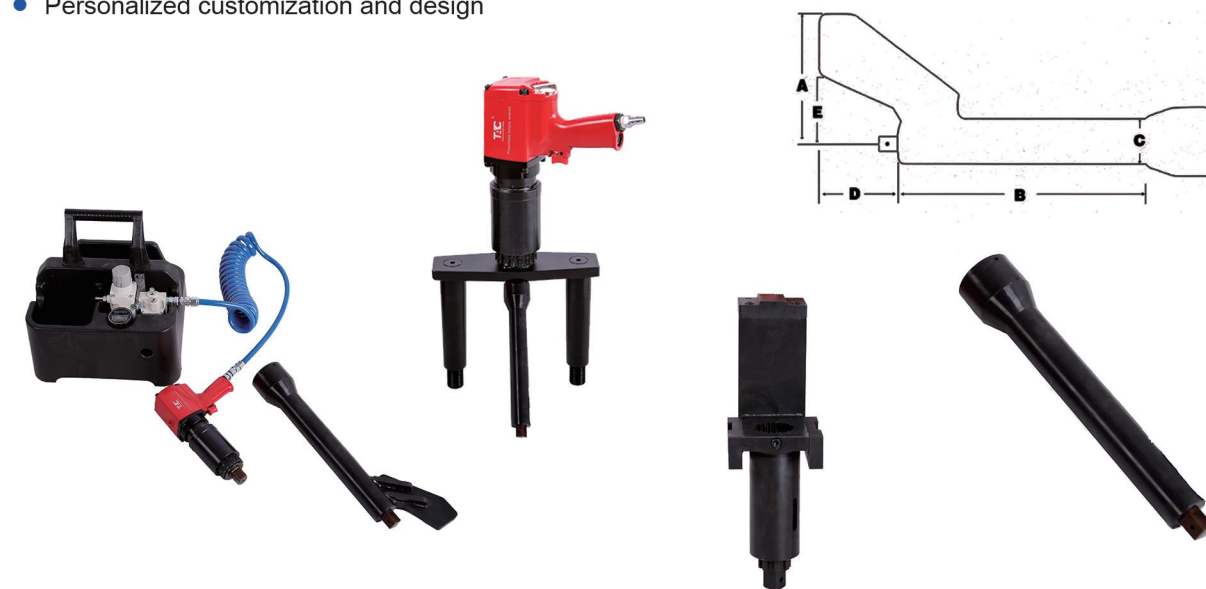


Model	Min torque (N.m)	Max torque (N.m)	S	D	L	H1	H2	R1	R2	Weight	Max speed
				mm						(Kg)	rpm
PTWF-05	100	500	3/4 "	60	110	70	185	56	99	2.8	65
PTWF-10	150	1000	3/4 "	63	220	70	185	60	105	3.6	65
PTWF-15	200	1500	1 "	63	220	70	185	66	126	3.9	50
PTWF-20	300	2000	1 "	70	230	70	185	66	126	4.2	50
PTWF-30	500	3000	1 "	78	240	70	185	85	150	6.2	44
PTWF-40	700	4000	1 "	80	260	70	185	85	150	6.8	44

## PTWE Wheel Nut Bolting & OTR Mining



- Extension nose can easily solve recessed bolts with tight gaps
- To avoid outdoor accidents, wheel hub bolt torque must be accurately controlled
- Compared with traditional impact torque wrench, PTWE has the advantages of no impact, no vibration, and high precision.
- The precision transmission device solves nut tightening problems more easily and accurately.
- Equipped with extended lever arms required for different working conditions
- Personalized customization and design



Model	S	A	B	C	D	E
		mm				
PTWE-05	3/4 "	99	300/400/500	45	83	56
PTWE-10	3/4 "	105	300/400/500	45	83	60
PTWE-15	1 "	126	300/400/500	51	83	66
PTWE-20	1 "	126	300/400/500	51	83	66
PTWE-30	1 "	150	300/400/500	51	83	85
PTWE-40	1 "	150	300/400/500	51	83	85

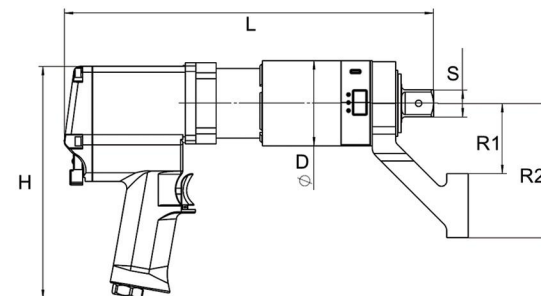
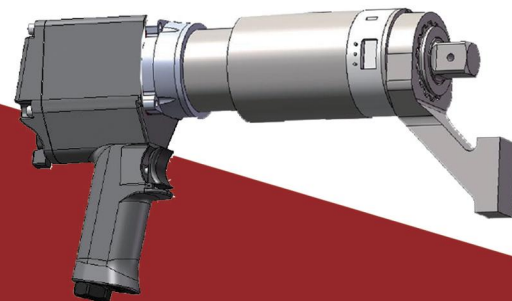
## PTWD Transducer Verification



TAC Transducer Verification solves an ongoing problem in the bolting industry: incorrect air supply and wrong tool operation can cause differences in torque output of your tools.

With this wrench, the operator gets a clear visual indication whether the actual torque is deviating from the set target torque, therefore reducing errors in the bolting process. At the same time very high torque accuracy can be achieved when using the real time WIFI torque-graphing mode.

- Easy data logging and collection
- Pass or Fail indicator light on the tool
- WIFI connectivity to your smart phone or tablet
- Measured Torque - accuracy of +/-1% on transducer



Model	Min torque( N.m)	Max torque (N.m)	S	D	L	H	R1	R2	Weight	Max speed
				mm					(Kg)	rpm
PTWD-05	100	500	3/4 "	60	180	210	56	99	4	50
PTWD-10	150	1000	3/4 "	74	260	210	62	112	4.8	28
PTWD-15	200	1500	1 "	76	270	210	70	130	5.2	21
PTWD-20	300	2000	1 "	76	270	210	70	130	5.5	15
PTWD-30	500	3000	1 "	93	350	210	80	150	7.5	10
PTWD-40	700	4000	1-1/2 "	97	350	210	80	150	9.5	7



## TAC Battery Series

### TAC battery tools feature:

- Original Milwaukee brush-less motor, larger diameter and better heat dissipation to ensure long-term work
- Ultra-high strength alloy steel gear reduction box
- Self-calibration adapts to various working conditions, on-site reverse calibration calibration wrench for different nuts
- Intelligent tightening data recording, downloading, transmission, hotspot WIFI communication, not affected by the working environment.
- Convenience for late data summary, MES quality control management, built-in storage to avoid data loss
- Torque sensor embedding and motor control form a closed loop, eliminating any factors that affect torque output, and the accuracy is double that of similar tools
- Optional scan code parameter entry, efficient and safe work management
- Regular basic functions, temperature, maintenance cycle reminder



### All TAC battery tools include:

- Battery torque wrench
- Reaction arm & retaining ring
- Quick charger and 2\*18V5.0ah batteries
- ABS carrying case
- Instruction manual
- Calibration certificate ISO17025 standards





## BTW Single speed



- ◆ Driven by a new advanced brush-less motor, the BTW reaches torques very precisely and efficient.
- ◆ Humanization Designing: Programmable preset torque settings, Large size LCD screen dynamic display
- ◆ Accurate: High repeatability of +/-2%, simple re-calibration system helps tool delivery torque to apply any applications
- ◆ Enough Power: Red-lithium battery packs help bolting more nuts
- ◆ Gear Technology: Advanced gear design technology and high strength alloy steel makes tool lighter,durable and faster
- ◆ Wide-Range: Torque up to 8,000Nm
- ◆ More Functions: Torque real time display+Angle turn+number of angle turns+number of nuts optional
- ◆ Smart APP: Optional Wireless Bluetooth Transfer, data recording system storage millions of applications, tracking results
- ◆ Close-loop system: Optional Transducerized system. Built in transducer increase accuracy to +/-1%
- ◆ BTW is Bluetooth and wireless compatible and its connectivity with C-Series Smart Socket for transducer verified
- ◆ joint calibration (optional)



Model	Min torque(N.m)	Max torque(N.m)	S	D	L	H1	H2	R1	R2	Weight	Max speed
				mm						(Kg)	rpm
BTW-05	100	500	3/4 "	60	270	76	245	53	102	4.3	26
BTW-10	130	1000	3/4 "	74	277	76	245	60	115	4.8	18
BTW-15	180	1500	1 "	76	317	76	245	66	135	5.2	8
BTW-20	250	2100	1 "	76	317	76	245	66	135	5.5	6
BTW-30	480	3100	1 "	86	340	76	245	78	145	7.5	3.5
BTW-40	650	4000	1 "	95	350	76	245	78	145	9.5	3.2
BTW-50	850	5000	1-1/2 "	103	355	76	245	78	145	10	2.5
BTW-60	1100	6000	1-1/2 "	110	400	76	245	90	155	12	1.8
BTW-80	1900	8000	1-1/2 "	115	415	76	245	90	155	14	1.5

## BTWF High speed



- Driven by a new advanced brush-less motor, the BTW reaches torques very precisely and efficient.
- The two-speed models feature a unique full automatic gearbox design, eliminating the time consuming switch between high and low speed gear.
- Humanization Designing: Programmable preset torque settings, Large size LCD screen dynamic display
- Accurate: High repeatability of +/-2%, simple re-calibration system helps tool delivery torque to apply any applications
- Enough Power: Red-lithium battery packs help bolting more nuts
- Gear Technology: Advanced gear design technology and high strength alloy steel makes tool lighter,durable and faster
- Wide-Range: Torque up to 8,000Nm
- More Functions: Torque real time display+Angle turn+number of angle turns+number of nuts optional
- Smart APP: Optional Wireless Bluetooth Transfer, data recording system storage millions of applications, tracking results
- Close-loop system: Optional Transducerized system. Built in transducer increase accuracy to +/-1%
- BTW is Bluetooth and wireless compatible and its connectivity with C-Series Smart Socket for transducer verified joint calibration (optional)



Model	Min torque(N.m)	Max torque(N.m)	S	D	L	H1	H2	R1	R2	Weight	Max speed
				mm						(Kg)	rpm
BTWF-05	100	500	3/4 "	60	300	76	245	53	102	4.5	100
BTWF-10	130	1000	3/4 "	74	310	76	245	60	115	5	82
BTWF-20	250	2100	1 "	76	330	76	245	66	135	5.7	48
BTWF-30	480	3100	1 "	86	350	76	245	78	145	7.7	45
BTWF-40	650	4000	1 "	95	350	76	245	78	145	9.7	45

**BETW AC-DC 2-IN-1**

- ◆ Driven by a new advanced brush-less motor, the BTW reaches torques very precisely and efficient.
- ◆ Patented Battery+Electric 2-IN-1: Power supply 18V battery and international power supply AC 90V-264V, 47-63HZ both apply TAC battery tools.
- ◆ Humanization Designing: Programmable preset torque settings, Large size LCD screen dynamic display
- ◆ Accurate: High repeatability of +/-2%, simple re-calibration system helps tool delivery torque to apply any applications
- ◆ Enough Power: Red-lithium battery packs help bolting more nuts
- ◆ Gear Technology: Advanced gear design technology and high strength alloy steel makes tool lighter,durable and faster
- ◆ Wide-Range: Torque up to 8,000Nm
- ◆ More Functions: Torque real time display+Angle turn+number of angle turns+number of nuts optional
- ◆ Smart APP: Optional Wireless Bluetooth Transfer, data recording system storage millions of applications, tracking results
- ◆ Close-loop system: Optional Transducerized system. Built in transducer increase accuracy to +/-1%
- ◆ BTW is Bluetooth and wireless compatible and its connectivity with C-Series Smart Socket for transducer verified joint calibration (optional)



Model	Min torque(N.m)	Max torque(N.m)	S	D	L	H1	H2	R1	R2	Weight	Max speed
				mm						(Kg)	rpm
BETW-05	100	500	3/4 "	60	270	76	210	53	102	4	26
BETW-10	130	1000	3/4 "	74	277	76	210	60	115	4.5	18
BETW-15	180	1500	1 "	76	317	76	210	66	135	4.9	8
BETW-20	250	2100	1 "	76	317	76	210	66	135	5.2	6
BETW-30	480	3100	1 "	86	340	76	210	78	145	7.2	3.5
BETW-40	650	4000	1 "	95	350	76	210	78	145	9.2	3.2
BETW-50	850	5000	1-1/2 "	103	355	76	210	78	145	9.7	2.5
BETW-60	1100	6000	1-1/2 "	110	400	76	210	90	155	11.7	1.8
BETW-80	1900	8000	1-1/2 "	115	415	76	210	90	155	13.7	1.5

**BTWA OFFSET Select**

- Driven by a new advanced brush-less motor, the BTW reaches torques very precisely and efficient.
- The newly designed Offset Select Series offers more flexibility for those tight spaces.
- Humanization Designing: Programmable preset torque settings, Large size LCD screen dynamic display
- Accurate: High repeatability of +/-2%, simple re-calibration system helps tool delivery torque to apply any applications
- Enough Power: Red-lithium battery packs help bolting more nuts
- Gear Technology: Advanced gear design technology and high strength alloy steel makes tool lighter,durable and faster
- Wide-Range: Torque up to 8,000Nm
- More Functions: Torque real time display+Angle turn+number of angle turns+number of nuts optional
- Smart APP: Optional Wireless Bluetooth Transfer, data recording system storage millions of applications, tracking results
- Close-loop system: Optional Transducerized system. Built in transducer increase accuracy to +/-1%
- BTW is Bluetooth and wireless compatible and its connectivity with C-Series Smart Socket for transducer verified joint calibration (optional)



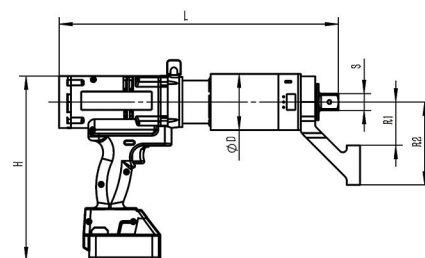
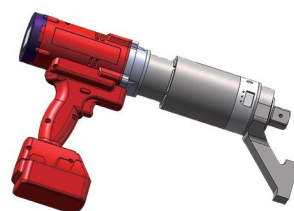
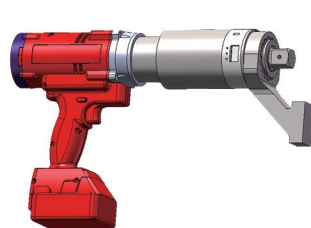
Model	Min torque (N.m)	Max torque (N.m)	S	D	L1	L2	H1	H2	R1	R2	Weight	Max speed
				mm								(Kg)
BTWA-05	100	500	3/4 "	60	117	163	83	245	53	102	4.5	26
BTWA-10	130	1000	3/4 "	74	124	163	83	245	60	115	5	18
BTWA-15	180	1500	1 "	76	164	163	83	245	66	135	5.4	8
BTWA-20	250	2100	1 "	76	164	163	86	245	66	135	5.7	6
BTWA-30	480	3100	1 "	86	182	163	92	245	78	145	7.7	3.5
BTWA-40	650	4000	1 "	95	197	163	92	245	78	145	9.7	3.2
BTWA-50	850	5000	1-1/2 "	103	249	163	92	245	78	145	10.2	2.5
BTWA-60	1100	6000	1-1/2 "	110	249	163	92	245	90	155	12.2	1.8
BTWA-80	1900	8000	1-1/2 "	115	272	163	92	245	90	155	14.2	1.5



## BTWS Transducer Verification



- Driven by a new advanced brush-less motor, the BTW reaches torques very precisely and efficient.
- Closed-loop system: The built-in torque sensor monitors the output torque of the BTWS wrench output head in real time, intelligently compensates for increase and decrease, and the torque repetition accuracy can be improved to +/-1%. The high-precision built-in sensor intelligently adjusts the factors such as motor overheating, power attenuation, gear barrel wear, etc. coming torque changes.
- Humanization Designing: Programmable preset torque settings, Large size LCD screen dynamic display
- Accurate: High repeatability of +/-2%, simple re-calibration system helps tool delivery torque to apply any applications
- Enough Power: Red-lithium battery packs help bolting more nuts
- Gear Technology: Advanced gear design technology and high strength alloy steel makes tool lighter,durable and faster
- Wide-Range: Torque up to 8,000Nm
- More Functions: Torque real time display+Angle turn+number of angle turns+number of nuts optional
- Smart APP: Optional Wireless Bluetooth Transfer, data recording system storage millions of applications, tracking results
- Close-loop system: Optional Transducerized system. Built in transducer increase accuracy to +/-1%
- BTW is Bluetooth and wireless compatible and its connectivity with C-Series Smart Socket for transducer verified joint calibration (optional)



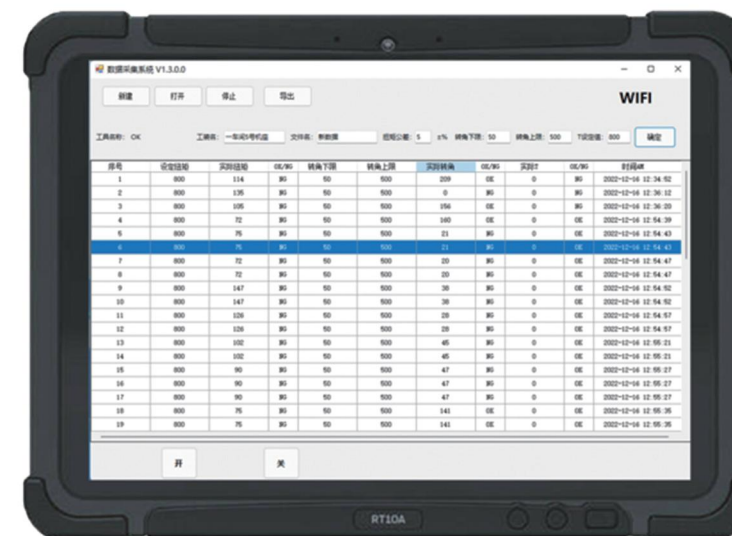
Model	Min torque (N.m)	Max torque (N.m)	S	D	L	H	R1	R2	Weight	Max speed
				mm					(Kg)	rpm
BTWS-05	100	500	3/4 "	60	270	245	53	102	4.3	26
BTWS-10	130	1000	3/4 "	74	277	245	60	115	4.8	18
BTWS-20	250	2100	1 "	76	317	245	66	135	5.5	6
BTWS-30	480	3100	1 "	86	340	245	78	145	7.5	3.5
BTWS-40	650	4000	1 "	95	350	245	78	145	9.5	3.2



## TAC Precision Servo Series

### TAC Precision Servo feature:

- Original Japan Panasonic AC&DC servo motor, high-performance
- Ultra-high strength alloy steel gear reduction box
- Tightening torque result success or failure reminder (alarm lights red and blue)
- Intelligent calibration system
- Remote control
- Intelligent tightening data recording,
- International authoritative intelligent scientific tightening process, angle limit by torque method, torque limit by angle method, double limit by torque + rotation angle. Anticipate nut slippage and eccentric load to avoid unqualified tightening process and improve yield rate
- Optional scan code parameter entry, efficient and safe work management



## STW AC Servo Technology



- ◆ Lightweight: small size and high precision Japanese Panasonic servo motor. The new servo motor brings lower noise, faster speed and higher precision.
- ◆ Accuracy: Torque output accuracy  $\pm 3\%$ , repeatability  $\pm 2\%$ .
- ◆ Humanized design: torque setting every 10Nm, large dynamic LCD color screen display
- ◆ Smart APP: Bluetooth and wireless data transmission, data recording, data analysis, data tracking, early warning and error correction
- ◆ Real-time display of torque, real-time display of torque plus angle control, torque method and angle method nut tightening plan setting
- ◆ Closed-loop control: The torque sensor device directly tracks and detects the actual torque of the target, with an accuracy of up to  $\pm 1\%$ .
- ◆ STW series is equipped with Bluetooth and wireless modules and is interconnected with C series smart sleeves to help with sensor verification, joint calibration, and precise control and tracking of torque output terminals.
- ◆ The ergonomically designed handle makes the operator easier, and the motor works without reaction impact.
- ◆ Remote control
- ◆ International power supply: AC 90V-264V, 47-63HZ .



Model	Min torque (N.m)	Max torque (N.m)	S	D	L1	L2	L3	H	R1	R2	Weight	Max speed
				mm								
STW-05	150	500	3/4 "	60	305	80	100	300	53	102	4.5	40
STW-10	200	1000	3/4 "	60	305	90	100	300	53	102	5.5	30
STW-20	350	2000	1 "	76	305	95	100	300	66	135	6	14
STW-30	600	3000	1 "	86	305	100	100	300	78	145	9.8	6.5
STW-40	800	4000	1 "	95	350	125	100	310	78	145	10	5.5
STW-60	900	6000	1-1/2 "	110	350	130	110	310	80	150	13.3	4
STW-80	1500	8000	1-1/2 "	117	350	150	110	310	90	155	16	3
STW-100	2000	10000	1-1/2 "	125	380	150	120	310	93	158	18	2.5
STW-150	2500	15000	1-1/2 "	138	380	150	120	310	95	160	22	1.5

## STWD DC Servo Technology



- Light: High Integration advanced technology makes operator easier, not necessary to carry big control cases.
- Modern Motor: New advanced 48V DC servo motor brings lower noise, faster, accurate.
- Accurate: High accuracy  $\pm 2\%$ , repeatability  $\pm 1\%$ .
- Humanization Design: adjusting torque every 10Nm, Dynamic display by large LCD screen .
- Smart APP: Optional Wireless Bluetooth Transfer, data recording system storage millions of applications, tracking results.
- More Functions: Torque real time display+Angle turn+number of angle turns+number of nuts.
- Close-loop system: Optional Transducerized system. Built in transducer increase accuracy to  $\pm 1\%$ .
- STWD series is Bluetooth and wireless compatible and its connectivity with TAC Smart Socket for transducer verified joint calibration .
- A Robust Design with the ability to adapt to nearly any Handle Configuration.



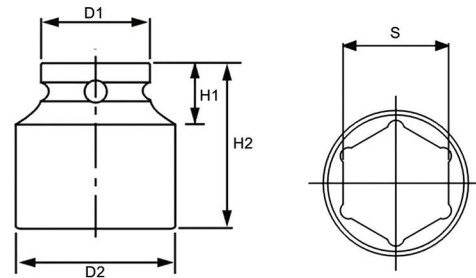
Model	Min torque (N.m)	Max torque (N.m)	S	D	L1	L2	L3	H	R1	R2	Weight	Max speed
				mm								
STWD-05	150	500	3/4 "	60	305	80	100	300	53	102	4.5	40
STWD-10	200	1000	3/4 "	60	305	90	100	300	53	102	5.5	30
STWD-20	350	2000	1 "	76	305	95	100	300	66	135	6	14
STWD-30	600	3000	1 "	86	305	100	100	300	78	145	9.8	6.5
STWD-40	800	4000	1 "	95	350	125	100	310	78	145	10	5.5



## TAC-C Smart socket



- Real time monitoring, measures and display peak torque
- Preset target torque, real peak torque Pass or Fail indication
- Data recording system, download or transfer by Wireless/Bluetooth
- Wide range torque measurement
- New update App software and Industrial touch screen optional
- C-Series Smart Socket is connectivity with all -Series series is Bluetooth and Wireless compatible and its for transducer verified joint calibration (optional)
- Simple new technology re-calibration system makes smart socket can fit any transducer fixture (dynamic or static) for calibration purpose



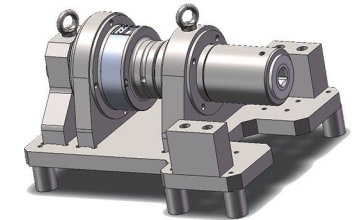
Model	Hex S (mm)	Min Torque (N.m)	Max Torque (N.m)	S	D1	D2	H1	H2	Weight (Kg)
C-33	33	200	2000	3/4 "	42	72	30	100	1.3
C-36	36	200	2000	1 "	54	72	35	100	1.3
C-41	41	200	2000	1 "	54	72	22	90	1.3
C-46	46	200	2000	1 "	54	72	22	90	1.3
C-50	50	400	4000	1 "	54	86	20	90	1.5
C-55	55	400	4000	1 "	54	86	20	90	1.5
C-60	60	400	4000	1 "	54	86	20	90	1.5
C-65	65	1000	10000	1-1/2 "	87	115	30	120	4.1
C-70	70	1000	10000	1-1/2 "	87	115	30	120	4.1
C-80	80	1000	10000	1-1/2 "	87	115	30	120	4.1
C-90	90	1600	16000	1-1/2 "	100	115	30	130	5.6
C-100	100	1600	16000	1-1/2 "	100	115	45	145	7.1

## TAC-TC Dual-Transducer Test Stands-Rundown&Fixture



### • Features

- Dual transducer stations for testing multiple ranges or different types of tools.
- Solid machined aluminum plate for stability, includes rundown fixture and bearing support for test stand models.
- Steel reaction posts with drill bushings for strength and durability.
- Reaction fixture for low profile wrenches
- Welded stainless steel table.
- Supplied with torque analyzer display and articulated arm.



### • Display Specifications

System Accuracy: 0.5% bidirectional

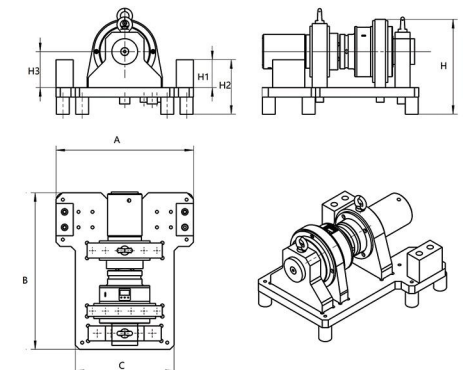
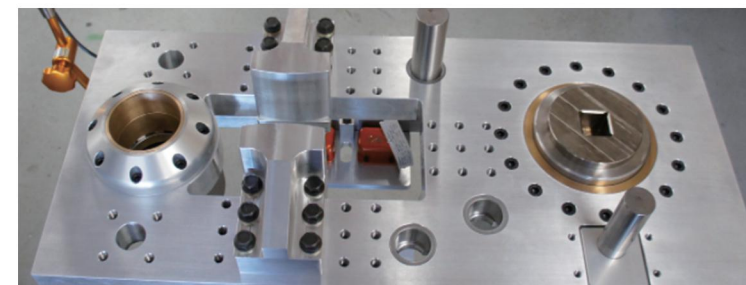
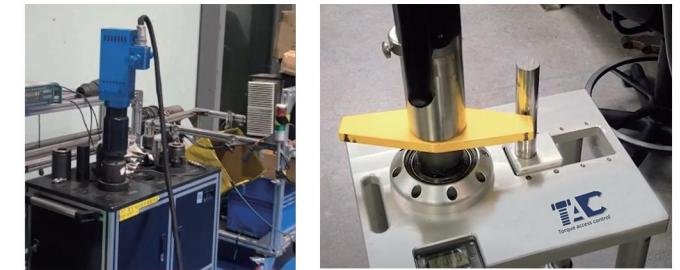
Engineering Units: ft-lbs, Nm

Modes: Track, Peak, or First Peak

Housing: Heavy Duty Aluminum

Batteries: Rechargeable NiMH batteries provide 10-12 hours of continuous use

Display: Segmented



Model	Min Torque (N.m)	Max Torque (N.m)	A	B	C	H	H1	H2	H3	Weight (Kg)
T500	500	5000	280	320	200	200	50	100	60	35
T1000	1000	10000	320	365	230	220	65	125	85	50
T2500	2500	25000	500	540	420	400	100	220	150	70
T5000	5000	50000	700	660	600	550	140	280	190	90

## Rental



### • Bolting Equipment Rental

Through superior Quality, Technology and Support, TAC will deliver you drastic safety, quality and job schedule enhancements!

From individual tools to customized bolting systems, TAC has the largest stock of rental equipment in the industry, available worldwide.

TAC can meet all your bolting rental needs anywhere in the world.

### • TAC Tool Rental

Strategically located at service centers around the globe, our experienced representatives will work with you to determine the most cost-effective solution for your job. Your TAC rental also entitles you to a free safety and operational training to ensure that your crew gets the most out of each rental. With many years of experience in this industry, you can rest assured that we have a solution for your bolting challenge!

### • Rental to Sale

During the rental period, if the customer needs, depending on the rental term, only a certain amount can be paid to obtain the tool permanently, and enjoy standard warranty service at the same time.

### • Tool Trade In

For a limited time, TAC is offering up to 30% off your purchase with a qualifying trade-in.

### • Total Satisfaction Guaranteed

100% rental credit\* towards purchase

Rent only the equipment you need on a daily, weekly or monthly basis

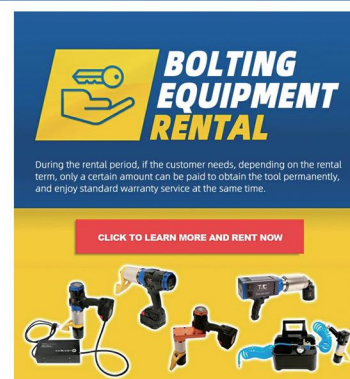
Complimentary safety and operational training with all rentals

Worldwide availability of all bolting systems

Improve safety, speed, and accuracy with custom tool kit rentals

Tool containers for large jobs are available for monthly rentals

All rental equipment is inspected and re-certified before its next rental



## Calibrate Your Torque Wrench with TAC Calibration Services



The torque wrench is used in a full range of industries, including aviation, automotive, nuclear, wind energy and industrial. Regular testing and routine calibration is required for these indispensable tools that support critical processes from assembly line manufacturing to wind turbine installations. At TAC, we stand on more than twenty years of specialized quality management experience as we calibrate torque wrenches with the precision they demand. A properly calibrated wrench will accurately measure torque, allowing a fastener to be tightened with the right tension and preventing joint connection failures. Our Torque Wrench Calibration Services keep high-functioning tools in your hands for maximum on-the-job reliability.

### • Digital, Pneumatic & Hydraulic Torque Wrench Calibration

TAC is a torque tool specialist. We sell, calibrate and repair an extensive range of torque tools which deliver single or dual directional operation. Through our expansive calibration lab network, we offer the industry's leading accredited calibrations for high- to low-torque applications. Our globally recognized achievements in torque calibration provide industries with:

1. Calibration and repair for all makes and models of torque wrenches
2. Precision calibrations of torque transducer devices in various configurations.
3. Torque service flexibility with specifications as high as 3,0000 ft.lbs and as low as 28 in.oz.
4. Coverage from our advanced, expertly staffed, and ISO 17025-accredited calibration labs
5. Consistency in torque methods within every TAC lab and by all skilled staff, many of whom are ASQ Certified Calibration Technicians.

### • Other service:

1. Free training and technical support
2. Regular maintenance
3. Lifetime maintenance



## TAC Accessories



### • Reaction Arm

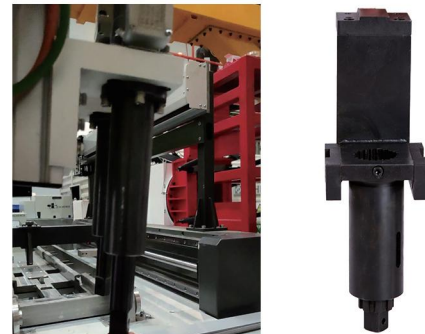
Every TAC tool includes a standard reaction arm. In addition to this, you can order the below special reaction arms to ensure correct reaction for different applications. These reaction arms include deep socket, double ended arm, blank, nose extensions, etc.



### • Fixtured Spindle

Multispindle tightening units are practical and effective solutions to increase productivity thanks to simultaneous and accurate tightening of several screws, bolts or nuts. They can feature two or more spindles, axial compensation to tighten elements at different heights, or variables distances between centers to tighten components having different geometries using the same solution, only by changing spindles positions.

Multispindle units, can be manually operated, therefore used by the operator to perform tightening in vertical or horizontal direction, can also be integrated into automatic assembly lines or automatic workstations, with manual loading of the workpiece. All solutions are designed according to the type of joint and application, and may feature air nutrunner motors or sophisticated DC electric nutrunner motors when it is necessary to monitor and control the fastening cycle. Systems are designed and manufactured by TAC to meet any production requirement.



### • Long-mouthed counterforce arm

Designed with flexibility in mind - nose extensions for all your hard to reach applications!

A "fixed" Nose Extension has a paddle welded onto the end of the Nose Extension.

A Nose Extension without a reaction arm allows for more flexibility.



Please contact TAC if you have a specific or custom application. Our engineering department can design a reaction arm for all of your needs.

## TAC Accessories



### • Three-piece basket

Carrying your TAC Pneumatic Tool around from job to job? Introducing the TAC bakset.

We decided to continue our quest for improved ergonomics by not only engineering the world's lightest pneumatic torque wrenches with the highest power-to-weight ratio in the industry, but also by developing the industry's most ergonomic tool basket.



Result in benefits:

Offset handle allows for balanced carrying the tool is stored in the storage pocket

Accessory pocket allows for quick and easy access to additional accessories such as custom reaction arms, snap rings and sockets.

High density Polypropylene construction means the tool basket will stand up to the most demanding conditions while remaining lightweight for easy portability.

### • DC-AC Power Box

Patented Battery+Electric 2 in 1: Power supply 18V battery and international power supply AC 90V-264V, 47-63HZ both apply B-Series series, new advanced technology, more accurate.

Can work with battery or electric power AC supply





## TAC Applications

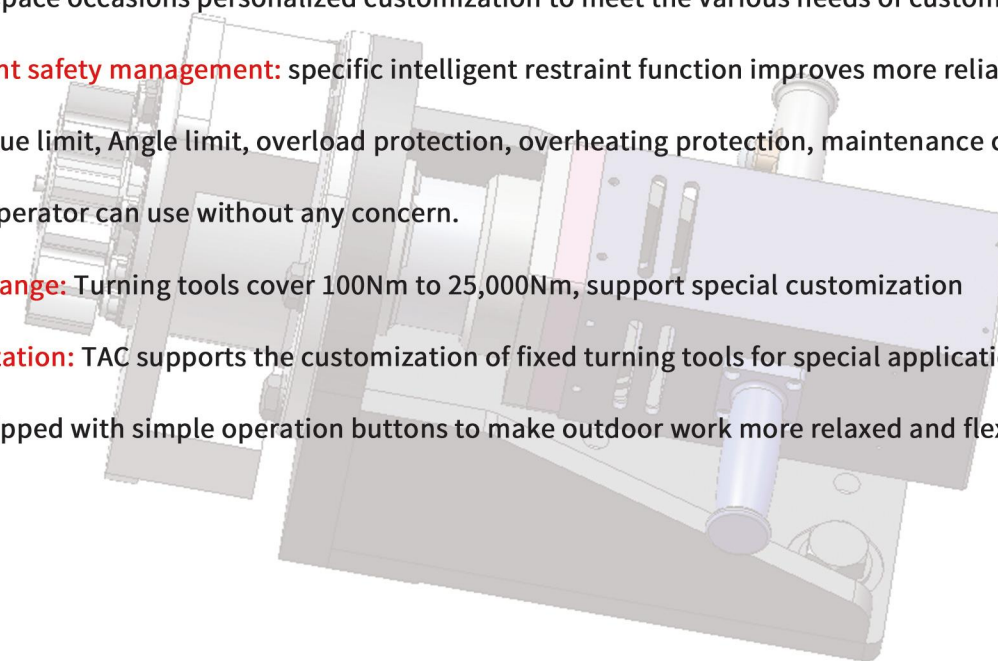


- Wind electricity
- Oil and gas
- Railway traffic equipments
- Mining



## TAC Torque Turning Tool Features:

- 1. Auto two speed:** The turning tools assemble with auto two speed gear box which greatly improve production efficiency and save maintenance time. The special turning tool features are starting torque higher and when rotate at a constant speed it will switch to a higher speed. That saves a lot of waiting time.
- 2. Remote control:** WIFI remote control reduce the risk of misoperation of operator and improve the safety of tools. The new advanced WIFI software can adapt to any complex working environment. It has strong anti-interference capability. The WIFI software can work without Internet or router/Lan.
- 3. Traceability:** Turning tool have advanced data recording system: Operator ID, Product ID, Work ID, Timing, Precision setting. Download as an excel spreadsheet. The software can integrate with MES system. The data will help enterprises manage torque efficiently.
- 4. High quality:** New advanced Japan Panasonic DC&AC servo motor brings lower noise, faster speed, higher output accuracy, more stable, long-time working. No need special maintenance.
- 5. Durable gear box:** High precision gear box, ultra high strength gears, high durability of planetary gear box, higher stability, compact size. The company has a strong R & D team, can calmly cope with a variety of special space occasions personalized customization to meet the various needs of customers
- 6. Intelligent safety management:** specific intelligent restraint function improves more reliable use safety: torque limit, Angle limit, overload protection, overheating protection, maintenance cycle timing, therefore operator can use without any concern.
- 7. Torque range:** Turning tools cover 100Nm to 25,000Nm, support special customization
- 8. Customization:** TAC supports the customization of fixed turning tools for special applications, which can be equipped with simple operation buttons to make outdoor work more relaxed and flexible.





## Oil and Gas: Valve actuator, Valve close & Open



### Features:

1. High torque, light weight, easy to operate, non impact, low noise, suitable for long time work. Torque range: The valve torque wrench covers 100Nm to 25000Nm, customized design available
2. The gear box is auto-two speed, which greatly improves the production efficiency. The speed is automatically adjusted according to the valve resistance. The momentary torque required for valve opening and closing is relatively large, and the gear box automatically selects the first gear speed. The torque required for long strokes of valve opening and closing is small, and the gear box automatically increases the speed.
3. It has the ability to intelligently detect the peak torque of the valve switch, protect the screw teeth, and prevent the damage of the valve screw teeth caused by excessive output torque. Auxiliary factory management switches the accurate torque value, if there is a foreign object stuck, it can be prepared for early warning and shutdown to avoid unnecessary losses.
4. The torque output is stable, which can keep the valve open and close smoothly and prevent the sediment from leaking out.
5. Intelligent safety management: Specific intelligent restraint functions improve more reliable use safety: torque limit, angle turns limit, overload protection, overheat protection, maintenance cycle timing, so that customers can use it with more confidence
6. Remote control: remote wireless monitoring and control, remote control greatly reduces the risk of operator misoperation and improves the safety of the tool. The advanced WIFI function allows the tool to be remotely controlled in any environment. This product does not require an internal LAN and supports remote operations outdoors without a network.
7. Traceability: Support data record transmission and download of switching valve work content. Edit job title, operator permissions, construction station, date and time. The recorded data parameters can efficiently assist enterprise management.
8. High quality: The original imported motor is more durable, quieter, and more stable, supports long-term operation, has good heat dissipation performance, and does not require special maintenance. High-precision, ultra-high-strength, high-durability planetary gear reduction box has the characteristics of high quality, high stability, high precision, and small size. TAC has a strong R & D team, which can calmly cope with the personalized customization of various special space occasions to meet the various needs of customers.
9. Personalized customization: Patech supports the customization of fixed valve tools for special applications, and can be equipped with simple operation buttons to make outdoor operations easier and more flexible.

