

As vehicle makers continue to reduce weight through high-strength alloys, aluminum, engineered composites and other materials, accurate torque is more critical than ever. With +/- 2% accuracy, our torque and angle applications provide the precision tolerances these materials demand.

**A WIDE RANGE OF TOOLS PROVIDING PRECISE MEASUREMENTS.**

With features like progressive LEDs, large backlit LCD panels, multiple measurement and alert modes, and much more, our TechAngle® electronic torque wrenches offer the most advanced, most versatile performance available. For simpler needs, our mechanical torque wrenches are highly accurate, compact and reliable no matter what the drive size, length, head articulation or measurement scale. Our TQ Series split-beam wrenches provide unbeatable comfort, durability and quick, easy-to-set torque adjustment. Plus, all of our torque wrenches feature Dual 80° Technology for a smaller ratcheting arc and maximum turning power.



**TORQUE WRENCHES**

# TECHANGLE® TORQUE WRENCHES



ATECH1FS240



ATECH2F100RB

## TechAngle® Models (2% Accuracy)

- **DUAL PROGRESSIVE LEDs** allow user to see active torque at various work positions; enables user to anticipate torque target for more accurate torque application.
- **LARGE LCD SCREEN** with bright backlight; numbers become larger and bolder during active torque for optimal viewing.
- **FOUR ALERT MODES** (LCD, LED, Audible, Vibratory) provide excellent feedback in all working conditions.
- **SIX MEASUREMENT MODES** (ft-lb, in-lb, Nm, dNm, kg-cm, and angle) at the touch of a button.
- **TEN PRESETS** allow programming of common torque applications which saves time.
- **ADVANCED FEATURES** include cycle counter, customizable sleep timer, language selection, auto torque calculation for torque adaptors, calibration alerts, battery level indication, and numerous alert mode customizations. These features allow you to customize the torque wrench to your work preferences.
- **TORQUE THEN ANGLE MODE** allows the user to torque fasteners and then switch to angle mode without removing the torque wrench from a fastener.

- **LOW PROFILE BUTTONS** protect against accidental activation.
- **HIGHLY ACCURATE** torque measurement; 2% CW and 3% CCW
- **POWER INTERRUPTION TECHNOLOGY** prevents loss of continuity if dropped; prevents loss of work during head bolt pattern applications.
- **COMFORTABLE HANDLE WITH FLARED END** provides a secure, non-slip grip during high-leverage applications.
- **PROTECTED BATTERY CAP** design with solid brass contacts prevents accidental loosening and ensures continuity.
- **TWO YEAR WARRANTY** standard on ATECH and CTECH models.
- **STORAGE CASE** included.

**ATECH3FR300B** 1/2" drive torque wrench with extra length to assist with high leverage applications, new yoke design for strength, Power Interruption Technology prevents intermittent power loss if dropped or impacted and a wide working range (15–300 ft-lb)

Specification Name	ATECH1FR240B	ATECH1FS240	ATECH2F100GB	ATECH2F100OB	ATECH2F100RB	ATECH2FR100B
Square Drive, inches	1/4	1/4	3/8	3/8	3/8	3/8
Color	Black Housing/ Chrome Body	Chrome	Green Housing/ Chrome Body	Orange Housing/ Chrome Body	Red Housing/ Chrome Body	Black Housing/ Chrome Body
Head Type	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head
Gear Teeth	72	72	80	80	80	80
Gear Action	5°	5°	4.5°	4.5°	4.5°	4.5°
Range, in-lb	12–240	12–240	60–1,200	60–1,200	60–1,200	60–1,200
Range, ft-lb	1–20	1–20	5–100	5–100	5–100	5–100
Range, N•m	1.36–27.12	1.36–27.12	6.8–135.0	6.8–135.0	6.8–135.0	6.8–135.0
Head Depth, inches	7/16	7/16	9/16	9/16	9/16	9/16
Head Width, inches	7/8	7/8	1-1/4	1-1/4	1-1/4	1-1/4
Weight (without batteries), lb (kg)	1.9 (8.6)	.93 (0.42)	2.3 (1.04)	2.3 (1.04)	2.3 (1.04)	2.3 (1.04)
Battery, Type (qty)	AA Alkaline (3)	Lithium Metal (1)	AA Alkaline (3)	AA Alkaline (3)	AA Alkaline (3)	AA Alkaline (3)
Length, inches	16.4	11.6	17.9	17.9	17.9	17.9
Ratchet Service Kit	RKRT72A	RKRT72A	RKRF80	RKRF80	RKRF80	RKRF80
Flex Joint Repair Kit	RKRT841JT	—	RKRQD2JT	RKRQD2JT	RKRQD2JT	RKRQD2JT
Storage Case	PBATECH100B	PBATECH240M	PBATECH100B	PBATECH100B	PBATECH100B	PBATECH100B

\*Includes protective boot (US #9156148, #9395257, #9242356, #D702519)

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration (unless otherwise indicated). All wrenches and drivers are calibrated per ASME® and ISO® standards for accuracy, from 20–100% of full scale, using NIST® traceable equipment. Angle accuracy ±1% of reading ±1% at angular velocity > 10°/sec; angle range 0–360°. Operating/storage temperature 0–130 °F. Humidity: up to 90% non-condensing. CE approved.

# TECHANGLE® TORQUE WRENCHES

TORQUE



ATECH2FS100	ATECH2CS240	ATECH3F250GB	ATECH3F2500B	ATECH3F250RB	ATECH3FR250B	ATECH3FR300B	ATECH3FS250	ATECH4RS600
3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2	3/4
Chrome	Chrome	Green Housing/ Chrome Body	Orange Housing/ Chrome Body	Red Housing/ Chrome Body	Black Housing/ Chrome Body	Black Housing/ Chrome Body	Chrome	Chrome
Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Fixed Head
80	72	80	80	80	80	80	80	32
4.5°	5°	4.5°	4.5°	4.5°	4.5°	4.5°	4.5°	11°
60–1,200	12–240	150–3,000	150–3,000	150–3,000	150–3,000	1,480–3,600	150–3,000	360–7,200
5–100	1–20	12.5–250	12.5–250	12.5–250	12.5–250	15–300	12.5–250	30–600
6.8–135.0	1.36–27.12	16.9–339	16.9–339	16.9–339	16.9–339	20.3–406.7	16.9–339	40.7–813.5
9/16	7/16	3/4	3/4	3/4	3/4	3/4	3/4	1-1/4
1-1/4	7/8	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8	2-1/2
2.85 (1.29)	.93 (0.42)	3.75 (1.68)	3.75 (1.68)	3.75 (1.68)	3.75 (1.68)	3.95 (1.79)	4.35 (1.97)	10.95 (4.96)
AA Alkaline (3)	Lithium Metal (1)	AA Alkaline (3)	AA Alkaline (3)	AA Alkaline (3)	AA Alkaline (3)	AA Alkaline (3)	AA Alkaline (3)	AA Alkaline (3)
15.4	11.6	26.6	26.6	26.6	26.6	30	26.7	48-11/16
RKRF80	RKRF72	RKRS80A	RKRS80A	RKRS80A	RKRS80A	RKRS80A	RKRS80A	RKQC4
RKRQD2JT	–	RKRSX936JT	RKRSX936JT	RKRSX936JT	RKRSX936JT	–	RKRSX936JT	–
PBATECH100B	PBATECH240M	PBATECH250B	PBATECH250B	PBATECH250B	PBATECH250B	PBATECH300B	PBATECH250B	PBATECH4

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration (unless otherwise indicated). All wrenches and drivers are calibrated per ASME® and ISO® standards for accuracy, from 20–100% of full scale, using NIST® traceable equipment. Angle accuracy ±1% of reading ±1% at angular velocity > 10<sup>0</sup>/sec; angle range 0–360°. Operating/storage temperature 0–130 °F. Humidity: up to 90% non-condensing. CE approved.



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

# CONTROLTECH™ INDUSTRIAL TORQUE WRENCHES



## Standard Models/2% Accuracy/Ratcheting Head

### Features

- Torque and Angle combo modes provide the most accurate and fastest way to achieve torque plus angle in a single motion (patent pending)
- Built-in calibration factor for different head lengths (patent pending)
- Dual side LED indicator lights with configurable settings
- Large LCD screen with backlight
- Four indicator modes: LCD, LED, audible, vibratory
- Presets with lockout ability
- Sequence programming and job mode
- USB downloadable data
- Industry-leading two year warranty
- Includes storage case
- Complies with ISO®-6789-2003 and ASME® B107.300 (B107.28) Standards for Electronic Torque Instruments
- CTECH wrenches are manufactured with an all-steel body for strength
- CTECHL wrenches are manufactured from rugged black anodized 6061-T aerospace aluminum from durability and reduced weight

### Specifications

- Torque Accuracy: ±2%CW, ±3%W
- Angle Accuracy: ±1% of Reading, ±1° @ Angular Velocity >10°/Sec < 180°/Sec
- Angle Range: 0–360°
- Storage Capacity: 1,500 Readings
- Number of Presets: 50
- Operating Temperature: 0–130 °F (-18–54 °C)
- Storage Temperature: 0–130 °F (-18–54 °C)



## Standard Models/2% Accuracy/Interchangeable Head

- Snap-on® ControlTech® Industrial Electronic Torque Wrenches are fully programmable for reliable and consistent torque application
- The Torque plus Angle combo modes allow you to simultaneously complete precise “torque plus turn” specifications in a single motion
- In addition to the LED indicator lights, an audible beep and handle vibration alert you when target torque is achieved
- The rugged all-steel construction is designed to stand-up to even the toughest work conditions

Stock No.	Head Type	Square Drive, inches	Gear Teeth	Gear Action	Torque Range, in-lb	Torque Range, ft-lb	Torque Range, N•m	Shank Diameter, inches	Weight, lb (kg)	Length, inches (mm)
CTECH1FR240A*	Sealed Flex Head	1/4	72	5°	12–240	1.0–20.0	1.4–27.2	—	2.0 (.9)	14.1 (358)
CTECH1R240A*	Fixed Head	1/4	72	5°	12–240	1.0–20.0	1.4–27.2	—	2.0 (.9)	14.1 (358)
CTECH2FR100A**	Sealed Flex Head	3/8	80	4.5°	60–1,200	5.0–100.0	6.8–135.6	—	2.7 (1.2)	17.2 (437)
CTECH3FR250A***	Sealed Flex Head	1/2	80	4.5°	150–3,000	12.5–250	16.9–339	—	4.5 (2.10)	26.7 (678)
CTECH4R600A†	Sealed Fixed Head	3/4	32	11°	360–7,200	30–600	40.7–813.5	—	10.5 (4.8)	48.6 (1,234)
CTECH1J240A	Interchangeable	—	—	—	12–240	1.0–20.0	1.4–27.2	J (0.425")	1.8 (0.8)	12.5 (318)
CTECH2Y100A	Interchangeable	—	—	—	60–1,200	5–100	6.8–135.6	Y (0.560")	2.7 (1.2)	17.2 (437)
CTECH3X250A	Interchangeable	—	—	—	150–3,000	12.5–250	16.9–339	X (0.735")	3.6 (1.6)	24.1 (612)
CTECH4Z600A	Interchangeable	—	—	—	30–600	360–7,200	40.7–813.5	Z (0.990")	7.6 (3.5)	44.8 (1,138)
CTECHL1J240A	Interchangeable	—	—	—	12–240	1.0–20.0	1.4–27.2	J (0.425")	1.0 (0.45)	12.5 (316)
CTECHL1R240A	Sealed Fixed Head	1/4	72	5°	12–240	1.0–20.0	1.4–27.2	—	1.2 (0.54)	14.1 (358)
CTECHL1240A	Fixed Head	1/4	—	—	12–240	1.0–20.0	1.4–27.2	—	1.1 (0.49)	12.4 (315)
CTECHAN135A	IZO/ISO (INTERCHANGEABLE)	—	—	—	60–1,195	5.0–99.6	6.8–135.0	—	—	—
CTECHAN30A	IZO/ISO (INTERCHANGEABLE)	—	—	—	1.11–22.13	13.3–365.5	1.50–30.00	—	—	—
CTECHBN340A	IZO/ISO (INTERCHANGEABLE)	—	—	—	12.5–250.8	150–3,009	17.0–340.0	—	—	—
CTECH1MR240	Fixed Head	1/4	72	5°	12–240	1–20	1.36–27.12	—	0.93 (0.42)	11.6 (294.64)
CTECH2MR240	Fixed Head	3/8	80	4.5°	12–240	1–20	1.36–27.12	—	0.93 (0.42)	11.6 (294.64)

\*Uses Ratchet Service Kit RKRT72A Includes three AAA Lithium batteries.

\*\*\*Uses Ratchet Service Kit RKRS80A. Includes three AA Lithium batteries. CTAL Torque Wrenches include three AAA Lithium batteries.

\*\*Uses Ratchet Service Kit RKRFF80. Includes three AA Lithium batteries.

†Uses Ratchet Service Kit RKRQC4. Includes three AA Lithium batteries.



# TECHWRENCH® TORQUE WRENCHES

TORQUE



TECH2R100



TECH4R600

## Standard Models/2% Accuracy/Fixed Head

- Manual preset and automatic track and peak hold modes
- Torque units conversion: N•m, ft-lb, in-lb
- Audible (tone) and tactile (vibrating handle) preset alerts
- Stand on handle bottom keeps tool from rolling off flat surface
- Sealed flex head ratchets move  $\pm 15^\circ$
- Dual 80<sup>®</sup> technology on all 72 and 80 tooth ratchet heads
- Three “AA” alkaline cells
- Low battery indicator and auto shut off (after two minutes idle)
- ISO-6789-2003 and ASME<sup>®</sup> B107.300 standards compliant
- Certificate of N.I.S.T. traceability for 20–100% of full scale
- Includes storage case

Specifications	TECH1R240	TECH2R100	TECH3R250	TECH4R600
Square Drive, inches	1/4	3/8	1/2	3/4
Head Type	Sealed Fixed Ratchet	Sealed Fixed Ratchet	Sealed Fixed Ratchet	Sealed Fixed Ratchet
Gear Teeth	72	80	80	32
Gear Action	5°	4.5°	4.5°	11°
Range, in-lb	24–240	60–1,200	300–3,000	720–7,200
Range, ft-lb	2–20	5–100	25–250	60–600
Range, N•m	—	6.7–135	34–339	81–813
Head Depth, inches	7/16	5/8	3/4	1-1/4
Head Width, inches	7/8	1-5/32	1-5/8	2-1/2
Housing Color	Red	Red	Red	Red
Length, inches	15-1/4	17-1/4	26-1/4	48
Operating Temperature	40–110 °F (5–42 °C)	40–110 °F (5–42 °C)	40–110 °F (5–42 °C)	40–110 °F (5–42 °C)
Storage Temperature	0–122 °F (-20–50 °C)	0–122 °F (-20–50 °C)	0–122 °F (-20–50 °C)	0–122 °F (-20–50 °C)
Ratchet Service Kit	RKRT72A	RKRF80	RKRS80A	RKRQC4

\* CE



TECH3FR250



TECH2Y100

## Standard Models/2% Accuracy/Flex Head

### Techwrench<sup>®</sup> (standard models)

- Torque accuracy ratchet head models: 2% CW, 3% CCW from 20–100% F.S. 4% CW, 6% CCW from 10–19% F.S. 8% CW, 10% CCW from 5–9% F.S. (TECH2 only)
- Torque accuracy interchangeable head models: 4% CW, 6% CCW from 20–100% F.S. 8% CW, 12% CCW from 10–19% F.S. 16% CW, 20% CCW from 5–9% F.S. (TECH Y only)



TECH4Z600

## Standard Models/4% Accuracy/Interchangeable Head

Specifications	TECH1FR240	TECH2FR100	TECH3FR250
Square Drive, inches	1/4	3/8	1/2
Head Type	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head
Gear Teeth	72	80	80
Gear Action	5°	4.5°	4.5°
Range, in-lb	24–240	60–1,200	300–3,000
Range, ft-lb	2–20	5–100	25–250
Range, N•m	2.7–27.1	6.7–135	34–339
Head Depth, inches	7/16	5/8	3/4
Head Width, inches	7/8	1-5/32	1-5/8
Housing Color	Red	Red	Red
Length, inches	15-1/4	17-1/4	26-1/4
Ratchet Service Kit	RKRT72A	RKRF80	RKRS80A

Specifications	TECH1J240	TECH2Y100	TECH3X250	TECH4Z600
Range, in-lb	24–240	60–1,200	300–3,000	720–7,200
Range, ft-lb	2–20	5–100	25–250	60–600
Range, N•m	27.1–27.12	6.7–135	34–339	81–813
Shank Dia.	J (0.425")	Y (0.560")	X (0.735")	Z (0.990")
Housing Color	Red	Red	Red	Red
Length, inches	13-3/4	15-1/2	23-3/4	42

Wrench length specification does not include the length of interchangeable heads. The certification of accuracy provided per ASME<sup>®</sup> and ISO<sup>®</sup> standards is 20% to 100% of full scale.

\* CE



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

## ADJUSTABLE CLICK-TYPE

The QD Series of click-type Torque Instruments feature an innovative design that provides consistently accurate readings and rugged, troublefree performance.



QD1F200NP



QD2R200



QD3R2500A

### FEATURES:

- **CERTIFICATE OF CALIBRATION.** A Certificate of Calibration is packed with every QD Series Torque Instrument. Actual certification readings and individual instrument serial number are included. Each torque instrument, as calibrated at the factory, is certified to meet the accuracy specified in ANSI® B107.300-2010 (B107.14) and was calibrated on a torque standard traceable to the National Institute of Standards Technology (NIST®)
- **ACCURACY.** All QD Series Torque Instruments are accurate to ±4% clockwise and ±6% counterclockwise from 20% of full scale to full scale
- **LONG LIFE RATCHET HEAD.** QD Series Torque Instruments feature the Snap-on® High Strength Sealed Ratchet Head. Sealed ratchet heads keep out dirt and moisture while being virtually maintenance free. US Patent #4,934,220 applies to all QD Series Ratchet Head Models. US Patent #6,125,722 applies to 1/4", 3/8" and 1/2" drive Ratchet Head Models only
- **MINIMAL FRICTION "HOUR GLASS" CAM.** Retains and releases lubricant where needed to reduce friction
- **POSITIVE STOP.** Instrument can not be accidentally disassembled if wound down past scale
- **KNURLED HANDLE** for a secure non-slip grip
- **ONE YEAR WARRANTY**
- **STORAGE CASE** included with each instrument
- All QD models with "A" suffix have roll-marked scales for better permanence and visibility. Easier reading with varying light sources

### US Torque Instruments (in-lb)/±4% Accuracy

Square Drive, inches	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, minimum	Range, maximum	Increments	Length, inches	Head Width, inches	Head Depth, inches	Storage Case	Ratchet Service Kit
1/4	QD150	Fixed	—	—	10 in-lb	50 in-lb	.5 in-lb	9-3/4	5/8	13/16	PBQD1	—
1/4	QD1R50	Fixed Ratchet	36	10°	10 in-lb	50 in-lb	.5 in-lb	9-7/8	7/8	7/16	PBQD1	RKRT936
1/4	QD1200	Fixed	—	—	40 in-lb	200 in-lb	1 in-lb	10-15/16	5/8	13/16	PBQD1	—
1/4	QD1R200	Fixed Ratchet	36	10°	40 in-lb	200 in-lb	1 in-lb	11-1/16	7/8	7/16	PBQD1	RKRT936
3/8	QD2R200	Compact Ratchet	—	—	40 in-lb	200 in-lb	1 in-lb	11-1/16	7/8	7/16	PBQD1	RKRFC936
3/8	GQT2R200NP	Fixed Ratchet	32	11°	40 in-lb	200 in-lb	1 in-lb	8.97	.88	.88	WPB7	R21AR-RK
3/8	QD21000A	Fixed	—	—	10 in-lb	1,000 in-lb	5 in-lb	14-9/16	1	1-3/16	PBQD2	—
3/8	GQT2R1000NP	Fixed Ratchet	32	11°	200 in-lb	1,000 in-lb	5 in-lb	14	1.26	1.07	WPB50A	R22AR-RK
1/2	QD3R1600A	Fixed Ratchet	80	4.5°	320 in-lb	1,600 in-lb	10 in-lb	19	1-5/8	3/4	PBQD3	RKRS80A
1/2	QD32500A	Fixed	—	—	500 in-lb	2,500 in-lb	10 in-lb	18-1/8	1	1-1/4	PBQD3	—
1/2	QD3R2500A	Fixed Ratchet	80	4.5°	500 in-lb	2,500 in-lb	10 in-lb	19-1/8	1-5/8	3/4	PBQD3	RKRS80A

### US Torque Instruments (ft-lb)

Square Drive, inches	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, minimum	Range, maximum	Increments	Length, inches	Head Width, inches	Head Depth, inches	Storage Case	Ratchet Service Kit
3/8	QD2100A	Fixed	—	—	20 ft-lb	100 ft-lb	.5 ft-lb	14-9/16	1	1-3/16	PBQD2	—
3/8	QD275A	Fixed	—	—	15 ft-lb	75 ft-lb	.5 ft-lb	14-9/16	1	1-3/16	PBQD2	—
3/8	QD2FR75	Flex Ratchet	36	10°	5 ft-lb	75 ft-lb	.5 ft-lb	15-3/4	1-5/32	9/16	PBQD2	RKRF936
3/8	QD2R100A	Fixed Ratchet	80	4.5°	20 ft-lb	100 ft-lb	.5 ft-lb	15-9/16	1-5/32	9/16	PBQD2	RKRF80
1/2	QD3150A	Fixed	—	—	30 ft-lb	150 ft-lb	1 ft-lb	18	1	1-1/4	PBQD3	—
1/2	QD3250A	Fixed	—	—	50 ft-lb	250 ft-lb	1 ft-lb	—	1	1-1/4	PBQD3	—
1/2	QD3R250A	Fixed Ratchet	80	4.5°	50 ft-lb	250 ft-lb	1 ft-lb	24-3/16	1-5/8	3/4	PBQD3	RKRS80A
1/2	GQT3R250NP	Fixed Ratchet	32	11°	50 ft-lb	250 ft-lb	1 ft-lb	23.75	1.74	1.42	WPB5	R33AR-RK
3/4	QD4400A	Fixed	—	—	80 ft-lb	400 ft-lb	2.5 ft-lb	33-3/4	1-1/2	1-1/2	PBQC4	—
3/4	QD4600A	Fixed	—	—	120 ft-lb	600 ft-lb	5 ft-lb	40-3/4	1-1/2	1-1/2	PBQC4	—
3/4	QD4R400A	Fixed Ratchet	32	11°	80 ft-lb	400 ft-lb	2.5 ft-lb	35-3/4	2-1/2	1-1/4	PBQC4	RKRQC4
3/4	QD4R600A	Fixed Ratchet	32	11°	120 ft-lb	600 ft-lb	5 ft-lb	42-3/4	2-1/2	1-1/4	PBQC4	RKRQC4
1	QD5R1000A	Fixed Ratchet	30	12°	200 ft-lb	1,000 ft-lb	5 ft-lb	71	3-1/8	1-1/2	PBQC5	RKRQC5
1	QD5R1500A	Fixed Ratchet	—	—	—	—	—	—	—	—	—	—



**BRUTUS3R300**

### BRUTUS3R300 1/2" Drive Heavy Duty Torque Wrench

- Torque: 60–300 ft-lb
- Expanded range allows extended coverage with 1/2" drive tool servicing a majority of vehicles and large pick-ups
- Gives user additional range in applying torque and angle on high torque applications
- Roll-stamped tube: stamped scale (ft-lb) offers better permanency and visibility in increments of 2 ft-lb
- Features heavy duty components; thicker diameter main tube, cam and internal components for strength and durability
- Overall length is 32-1/2" L, accuracy is ±6% CW and CCW



**QD3RM30A**

### Metric Torque Instruments (kg m, kg cm)

Square Drive, inches	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, min	Range, max	Increments	Length, inches	Head Width, inches	Head Depth, inches	Storage Case	Repair Kit
3/8	QD2RM1000A	Flex Head	80	4.5°	200 kg•cm	1,000 kg•cm	5 kg•cm	15-9/16	1-5/32	9/16	PBQD2	RKRF80
1/2	QD3RM30A	Fixed Ratchet	80	4.5°	6 kg•m	30 kgm	.2 kgm	19	1-5/8	3/4	PBQD3	RKRS80A

"A" suffix models feature roll-marked tubes and 80 tooth gears



**QD1RN25A**



**QD1RN6A**



**QD2RN25A**

### Newton Meter Torque Wrenches/±4% Accuracy

Square Drive, inches	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, minimum	Range, maximum	Increments	Length, inches	Head Width, inches	Head Depth, inches	Storage Case	Ratchet Service Kit
1/4	QD1RN6A	Fixed Ratchet	36	10°	1 N•m	6 N•m	.05 N•m	9-7/8	7/8	7/16	PBQD1	RKRT936
1/4	QD1RN25A	Fixed Ratchet	36	10°	5 N•m	25 N•m	.1 N•m	11-3/4	7/8	7/16	PBQD1	RKRT936
3/8	QD2RN25A	Compact Ratchet	36	10°	5 N•m	25 N•m	.1 N•m	11-3/4	7/8	7/16	PBQD2	RKRFC936
3/8	QD2RN50A	Fixed Ratchet	80	4.5°	10 N•m	50 N•m	.5 N•m	15-9/16	1-5/32	9/16	PBQD2	RKRF80
3/8	QD2RN100A	Fixed Ratchet	80	4.5°	20 N•m	100 N•m	.5 N•m	15-9/16	1-5/32	9/16	PBQD2	RKRF80
1/2	QD3RN200A	Fixed Ratchet	80	4.5°	40 N•m	200 N•m	2 N•m	19	1-5/8	3/4	PBQD3	RKRS80A
1/2	QD3RN350A	Fixed Ratchet	80	4.5°	70 N•m	350 N•m	2 N•m	24-3/16	1-5/8	3/4	PBQD3	RKRS80A
3/4	QD4RN800A	Fixed Ratchet	32	11°	150 N•m	800 N•m	5 N•m	42-3/4	2-1/2	1-1/4	PBQC4	RKRQC4
1	QD5RN1500A	Fixed Ratchet	30	12°	300 N•m	1,500 N•m	10 N•m	68.4	3-1/8	1-1/2	10-117-6SP	RKRQC5

"A" suffix models feature roll-marked tubes



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

## ADJUSTABLE CLICK-TYPE



### US Reading Torque Wrenches with Conversion Scale/±4% Accuracy

#### Adjustable Click Type Torque Wrench

- Snap-on® Sealed Ratchet Head is virtually maintenancefree; more time working with the tool, less time on tool maintenance
- Thumb Screw Type adjustment is faster than cycling through a micrometer style torque wrench. Guard prevents setting from being changed accidentally. Setting is displayed in window. Conversion table to N•m displayed on handle
- Sealed Neck keeps dust and grit away from the torque mechanism for longer tool life
- “Split Beam” Measuring Element provides accurate, reliable readings and eliminates the heavy coil spring used in conventional click-type wrenches. This yields fewer moving parts, reducing friction and wear
- Cushion Grip Handle provides comfort plus control and resists most automotive fluids
- Designed for measuring torque in a clockwise direction only. Wrench is not reversible
- CE: EU — GB, FR, ES, DE

Square Drive, inches	Stock No.	Color	Head Style	Gear Teeth	Swing Arc	Range, minimum	Range, maximum	Increments	Length, inches	Head Width, inches	Head Depth,* inches	Ratchet Service Kit	Storage Case
3/8	TQFR50C	Red	Flex Head	36	10°	120 in-lb	600 in-lb	10 in-lb	18-5/8	1-5/8	9/16	RKRF936	PB50B
3/8	TQFR100C	Red	Flex Head	36	10°	20 ft-lb	100 ft-lb	2 ft-lb	18-5/8	1-5/8	9/16	RKRF936	PB50B
3/8	TQFR100CG	Green	Flex Head	36	10°	20 ft-lb	100 ft-lb	2 ft-lb	18-5/8	1-5/8	9/16	RKRF936	PB50B
3/8	TQFR100CO	Orange	Flex Head	36	10°	20 ft-lb	100 ft-lb	2 ft-lb	18-5/8	1-5/8	9/16	RKRF936	PB50B
3/8	TQFR100CHV	Hi-Vis	Flex Head	36	10°	20 ft-lb	100 ft-lb	2 ft-lb	18-5/8	1-5/8	9/16	RKRF936	PB50B
1/2	TQFR250E	Red	Flex Head	36	10°	40 ft-lb	250 ft-lb	5 ft-lb	22-3/8	1-5/8	9/16	RKRF936	PBTQ3
1/2	TQFR250EG	Green	Flex Head	36	10°	40 ft-lb	250 ft-lb	5 ft-lb	22-3/8	1-5/8	3/4	RKRS936	PBTQ3
1/2	TQFR250EO	Orange	Flex Head	36	10°	40 ft-lb	250 ft-lb	5 ft-lb	22-3/8	1-5/8	3/4	RKRS936	PBTQ3
1/2	TQFR250EHV	Hi-Vis	Flex Head	36	10°	40 ft-lb	250 ft-lb	5 ft-lb	22-3/8	1-5/8	3/4	RKRS936	PBTQ3
1/2	TQR250E	Red	Fixed Ratchet	36	10°	40 ft-lb	250 ft-lb	5 ft-lb	22-3/8	1-5/8	3/4	RKRS936	PBTQ3
3/4	TQR400E**	Red	Detach Ratchet	32	11°	130 ft-lb	400 ft-lb	10 ft-lb	38-1/8	2-1/2	1-1/4	RKRTQ4	PBTQ4
3/4	TQR600E**	Red	Detach Ratchet	32	11°	200 ft-lb	600 ft-lb	10 ft-lb	48-5/8	2-1/2	1-1/4	RKRTQ4	PBTQ4

All wrenches are non-reversible

\*Does not include square drive dimension

\*\*Three-piece construction disassembles for storage/transport.

All Snap-on torque wrenches, drivers and testers are provided with a Certificate of Calibration (unless otherwise indicated).

All wrenches and drivers are calibrated per ASME® and ISO® standards for accuracy, from 20 to 100% of full scale, using NIST® traceable equipment.

### Newton Meter Torque Wrenches with Conversion Scale



Square Drive, inches	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, min	Range, max	Increments	Length, inches	Head Depth,* inches	Storage Case	Repair Kit
3/8	TQFRN130B	Flex Head	30	12°	25 N•m	130 N•m	5 N•m	17-5/8	9/16	PB50A	RKQJA2D
3/8	TQFRN68B	Flex Head	30	12°	14 N•m	68 N•m	2 N•m	17-5/8	9/16	PB50A	RKQJA2D
1/2	TQFRN350E	Flex Head	32	11°	70 N•m	350 N•m	5 N•m	22-1/8	3/4	PBR5	RKTQ3

All wrenches are non-reversible. 3/8" drive models in this table are metal handle.

\*Does not include square drive dimension.

### Metric Torque Wrenches with Conversion Scale



Square Drive, inches	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, min	Range, max	Increments	Length, inches	Head Width, inches	Head Depth,* inches	Repair Kit
1/2	TQFRM34D	Flex Head	32	11°	5.0 kg•m	34 kg•m	1.0 kg•m	22-1/8	1-5/8	3/4	RKTQ3
3/4	TQFRM80C	Detach Ratchet	32	11°	26.0 kg•m	80 kg•m	2.0 kg•m	48	2-3/8	1-1/4	RKRQC4

All wrenches are non-reversible.

\*Does not include square drive dimension.





## US Reading/Standard 2% Accuracy

- Dial torque wrenches allow the user to easily apply and monitor torque
- Long-lasting performance given minimal component contact
- Steel welded bodies with bright nickel-chrome finish
- Heat treated dial guards protect the dial crystal from damage
- Patented torsion bar machined from aircraft quality alloy steel for long life and precise performance across the entire scale
- Wide selection of models...from 1/4–1-1/2" drives...ranges, scales, and dial configurations...there is a dial wrench to cover nearly every need

Square Drive, inches	Basic Models Stock No.	Follow up Models Stock No.	Signal Models Stock No.	Range	Increments	Length, inches	Width, inches	Head Depth,* inches	Storage Case
1/4	TE1A	TE1FUA	—	15 in-lb	1/4 in-lb	9-29/32	2-11/16	1-1/4	PB9
1/4	TE3A	TE3FUA	—	30 in-lb	1/2 in-lb	9-29/32	2-11/16	1-1/4	PB9
1/4	TE6A	TE6FUA	—	75 in-lb	1 in-lb	9-29/32	2-11/16	1-1/4	PB9
1/4	GTE6A	—	—	75 in-lb	1 in-lb	9-29/32	2-11/16	1-1/4	PB9
3/8	TE12A	TE12FUA	TE12LA	150 in-lb	2-1/2 in-lb	9-29/32	2-11/16	1-1/4	PB9
3/8	TE25A	TE25FUA	TE25LA	300 in-lb	5 in-lb	9-29/32	2-11/16	1-1/4	PB9
3/8	TE50A	TE50FUA	TE50LA	600 in-lb	10 in-lb	12-1/2	2-11/16	1-1/4	PB9
3/8	TE12FA	TE12FFUA	TE12FLA	12 ft-lb	1/2 ft-lb	9-29/32	2-11/16	1-1/4	PB9
3/8	TE25FA	TE25FFUA	TE25FLA	25 ft-lb	1/2 ft-lb	9-29/32	2-11/16	1-1/4	PB9
3/8	TE50FA	TE50FFUA	TE50FLA	50 ft-lb	1 ft-lb	12-1/2	2-11/16	1-1/4	PB9
1/2	TE51	TE51FU	TE51L	600 in-lb	10 in-lb	15	2-11/16	1-5/16	—
1/2	TE51F	TE51FFU	TE51FL	50 ft-lb	1 ft-lb	15	2-11/16	1-5/16	—
1/2	TE100	TE100FU	TE100L	100 ft-lb	1 ft-lb	16	2-3/4	1-3/8	PBR5
1/2	TE175	TE175FU	TE175L	175 ft-lb	2-1/2 ft-lb	18-3/4	2-3/4	1-3/8	PBR5
1/2	GTE175	—	—	175 ft-lb	2-1/2 ft-lb	18-3/4	2-3/4	1-3/8	PBR5
1/2	TE250	TE250FU	TE250L	250 ft-lb	5 ft-lb	23-3/4	2-3/4	1-3/8	PB8A
3/4	TE352A	TE352FUA	TE352LA	350 ft-lb	5 ft-lb	29-7/8	3-1/4	1-25/32	—
3/4	TE602A	TE602FUA	TE602LA	600 ft-lb	10 ft-lb	40-7/8	3-1/4	1-25/32	PB39
1	TE803**	TE803FU**	TE803L**	800 ft-lb	10 ft-lb	66-13/16	3-9/16	2-1/32	—
1	TE1003†	TE1003FU**	TE1003L**	1,000 ft-lb	10 ft-lb	66-13/16	3-9/16	2-1/32	—
1	TE1503†	TE1503FU†	TE1503L†	1,500 ft-lb	25 ft-lb	80	4-13/32	2-1/8	—
1	TE2003†	TE2003FU†	TE2003L†	2,000 ft-lb	25 ft-lb	80	4-13/32	2-1/8	—
1-1/2	TE2005†	TE2005FU†	TE2005L†	2,000 ft-lb	25 ft-lb	80	3-9/16	2-3/8	—
1-1/2	TE3005	TE3005FU**	TE3005L**	3,000 ft-lb	50 ft-lb	140	5-1/2	2-13/16	—

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number.  
 \*Does not include square drive dimension. \*\*Includes separately packed 92TQPA 4' tubular extension handle.  
 †Includes separately packed 93TQPA 5' tubular extension handle. TE3005 includes 94TQPA 10' extension handle  
 Basic model = 1 needle Follow-up = 2 needles Signal = signal light GTE models feature a black oxide finish



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

# TORQOMETER® TORQUE WRENCHES



TESI75



TESI75L

## Newton Meter Reading/Standard 2% Accuracy

Square Drive, inches	Stock No.	Follow up Models Stock No.	Signal Models Stock No.	Range, N•m	Increments, N•m	Length, inches	Width, inches	Head Depth,* inches	Storage Case
1/4	TESI5	—	TESI5L	5	.2	9-29/32	2-11/16	1-1/4	PB9
1/4	TESI10	TESI10FU	TESI10L	10	.5	9-29/32	2-11/16	1-1/4	PB9
3/8	TESI20	TESI20FU	TESI20L	20	.5	9-29/32	2-11/16	1-1/4	PB9
3/8	TESI30	TESI30FU	TESI30L	30	1.0	9-29/32	2-11/16	1-1/4	PB9
3/8	TESI60	TESI60FU	TESI60L	60	2.0	12-1/2	2-11/16	1-1/4	PB9
3/8	TESI70	TESI70FU	TESI70L	70	2.0	12-1/2	2-11/16	1-1/4	PB9
3/8	TESI75	TESI75FU	TESI75L	75	1.0	12-1/2	2-11/16	1-1/4	PB9
1/2	TESI125	TESI125FU	TESI125L	125	5.0	16	2-11/16	1-3/8	PBR5
1/2	TESI200	TESI200FU	TESI200L	200	5.0	18-3/4	2-3/4	1-3/8	PBR5
1/2	TESI250	TESI250FU		250	5.0	18-3/4	2-3/4	1-3/8	PBR5
3/4	TESI500A	TESI500FUA	TESI500LA	500	10.0	29-7/8	3-1/4	1-25/32	PB39
3/4	TESI800A	TESI800FUA	TESI800LA	800	20.0	40-7/8	3-1/4	1-25/32	PB39
1	TESI1360**	TESI1360FU**	TESI1360L**	1,360	20.0	66-13/16	3-9/16	2-1/32	—
1	TESI2803***	TESI2803FU***	TESI2803L***	2,800	50.0	80	4-13/32	2-1/8	—
1-1/2	TESI2805***	TESI2805FU***		2,800	50.0	80	4-25/32	2-3/8	—
1-1/2	—	TESI4000FU	TESI4000L	4,000	100.0	140	5-1/2	2-13/16	—

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number

\*Does not include square drive dimension.

\*\*Includes separately packed 92TQPA 4' tubular extension handle.

†Includes separately packed 93TQPA 5' tubular extension handle.

TE3005 includes 94TQPA 10' extension handle

Basic model = 1 needle

Follow-up = 2 needles

Signal = signal light



TER175



TER175L

## Combination US/Newton Meter Reading – Precise 1% Accuracy

Square Drive, inches	Stock No.	Follow up Models Stock No.	Signal Models Stock No.	Range, N•m	Increments, N•m	US Range	US Increments	Length, inches	Width, inches	Head Depth,* inches	Storage Case
1/4	TER1A	TER1FUA	—	1.7	.05	15 in-lb	.5 in-lb	9-29/32	2-11/16	1-1/4	PB9
1/4	TER3A	TER3FUA	—	3.5	0.1	30 in-lb	1 in-lb	9-29/32	2-11/16	1-1/4	PB9
1/4	TER6A	TER6FUA	—	8.4	0.2	75 in-lb	1 in-lb	9-29/32	2-11/16	1-1/4	PB9
3/8	TER12A	TER12FUA	TER12LA	17	.5	150 in-lb	5 in-lb	9-29/32	2-11/16	1-1/4	PB9
3/8	TER25A	TER25FUA	TER25LA	0–3,200 N•cm	50 N•cm	0–300 in-lb	5 in-lb	9-29/32	2-11/16	1-1/4	PB9
3/8	TER50A	TER50FUA	TER50LA	60	1	600 in-lb	20 in-lb	12-1/2	2-11/16	1-1/4	PB9
1/2	TER51	TER51FU	TER51L	60	1	600 in-lb	20 in-lb	15	2-11/16	1-5/16	—
1/2	TER100	TER100FU	TER100L	140	5	100 ft-lb	2 ft-lb	16	2-3/4	1-3/8	PBR5
1/2	TER175	TER175FU	TER175L	230	10	175 ft-lb	5 ft-lb	18-3/4	2-3/4	1-3/8	PBR5
3/4	TER352A	TER352FUA	TER352LA	480	10	350 ft-lb	5 ft-lb	29-7/8	3-1/4	1-3/8	PB39
3/4	TER602A	TER602FUA	TER602LA	800	20	600 ft-lb	20 ft-lb	40-7/8	3-1/4	1-25/32	PB39
1	TER1003**	—	TER1003L**	1,360	20	1,000 ft-lb	20 ft-lb	66-13/16	3-9/16	2-1/32	—

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number.

\*Does not include square drive dimension.

\*\*Includes separately packed 92TQPA 4' tubular extension handle.

Basic model= 1 needle

Follow-up = 2 needles

Signal = signal light

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration (unless otherwise indicated).

All wrenches and drivers are calibrated per ASME® and ISO® standards for accuracy, from 20%–100% of full scale, using NIST® traceable equipment.

# TORQOMETER® TORQUE WRENCHES

TORQUE



TEC175



TEC175L

## Combination US/Metric Reading – Standard 2% Accuracy

Square Drive, inches	Stock No.	Follow up Models Stock No.	Signal Models Stock No.	Metric Range	Metric Increments	US Range	US Increments	Length, inches	Width, inches	Head Depth,* inches	Storage Case
1/4	TEC1A	TEC1FUA	—	16 kg•cm	1 kg•cm	15 in-lb	.5 in-lb	9-29/32	2-11/16	1-1/4	PB9
1/4	TEC3A	TEC3FUA	—	35 kg•cm	1 kg•cm	30 in-lb	1 in-lb	9-29/32	2-11/16	1-1/4	PB9
1/4	TEC6A	TEC6FUA	—	90 kg•cm	2.5 kg•cm	75 in-lb	1 in-lb	9-29/32	2-11/16	1-1/4	PB9
3/8	TEC12A	TEC12FUA	TEC12LA	175 kg•cm	5 kg•cm	150 in-lb	5 in-lb	9-29/32	2-11/16	1-1/4	PB9
3/8	TEC25FA	TEC25FFUA	TEC25FLA	350 kg•cm	10 kg•cm	25 ft-lb	1 ft-lb	9-29/32	2-11/16	1-1/4	PB9
3/8	TEC50A	TEC50FUA	TEC50LA	700 kg•cm	20 kg•cm	600 in-lb	20 in-lb	12-1/2	2-11/16	1-1/4	PB9
1/2	TEC51	TEC51FU	TEC51L	700 kg•cm	20 kg•cm	600 in-lb	20 in-lb	15	2-11/16	1-5/16	—
1/2	TEC100	TEC100FU	TEC100L	14 kg•m	.5 kg•m	100 ft-lb	2 ft-lb	16	2-3/4	1-3/8	PBR5
1/2	TEC175	TEC175FU	TEC175L	25 kg•m	1 kg•m	175 ft-lb	5 ft-lb	18-3/4	2-3/4	1-3/8	PBR5
1/2	TEC250	TEC250FU	TEC250L	35 kg•m	1 kg•m	250 ft-lb	10 ft-lb	23-3/4	2-3/4	1-3/8	PBR5
3/4	TEC352A	TEC352FUA	TEC352LA	50 kg•m	1 kg•m	350 ft-lb	10 ft-lb	29-7/8	3-1/4	1-25/32	PB39
3/4	TEC602A	TEC602FUA	TEC602LA	80 kg•m	2 kg•m	600 ft-lb	20 ft-lb	40-7/8	3-1/4	1-25/32	PB39
1	TEC803**	TEC803FU**	TEC803L**	110 kg•m	2 kg•m	800 ft-lb	25 ft-lb	66-13/16	3-9/16	2-1/32	—
1	—	—	TEC1003L**	136 kg•m	2 kg•m	1,000 ft-lb	20 ft-lb	66-13/16	3-9/16	2-1/32	—
1	—	TEC1503FU†	TEC1503L†	200 kg•m	5 kg•m	1,500 ft-lb	25 ft-lb	80	4-13/32	2-1/8	—
1	—	TEC2003FU†	TEC2003L†	280 kg•m	5 kg•m	2,000 ft-lb	50 ft-lb	80	4-13/32	2-1/8	—
1-1/2	TEC2005†	TEC2005FU†	TEC2005L†	280 kg•m	5 kg•m	2,000 ft-lb	50 ft-lb	80	4-13/32	2-3/8	—
1-1/2	—	TEC3005FU	TEC3005L	400 kg•m	5 kg•m	3,000 ft-lb	50 ft-lb	140	5-1/2	2-13/16	—

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number.  
 \*Does not include square drive dimension.  
 †Includes separately packed 93TQPA 5' tubular extension handle.  
 Follow-up = 2 needles  
 \*\*Includes separately packed 92TQPA 4' tubular extension handle.  
 Basic model= 1 needle  
 Signal = signal light

## T-HANDLE TORQOMETER® TORQUE WRENCHES



TEX602TLA



85TQP



TEXC2003TFU

### US Reading Standard 2% Accuracy

Input Drive Female Square, inches	Output Drive Male Square, inches	Follow up Models Stock No.	Light Signal Models Stock No.	US Range, ft-lb	US Increments, ft-lb	Length, inches	Width, inches	Head Depth, inches	Increments, ft. lb.	Optional "T" Bars/Extension Handles			
										"T" Bars	Length, inches	Extension Handle	Ext. Handle Length, inches
3/4	3/4	TEX602TFUA	TEX602TLA	600	10	9	3-1/4	3-3/4	10	81TQP	66	—	—
3/4	1	TEX1003TFUA	TEX1003TLA	1,000	10	9-7/8	3-5/8	4-1/8	10	81TQP	66	—	—
1	1	TEX1503TFU	TEX1503TL	—	—	10-7/8	4-3/8	4-7/16	25	82TQP	18	85TQP	31
1	1	TEX2003TFU	TEX2003TL	2,000	25	10-7/8	4-3/8	4-7/16	25	82TQP	18	85TQP	31
1	1-1/2	TEX2005TFU	TEX2005TL	2,000	25	10-7/8	4-3/8	4-7/16	25	82TQP	18	85TQP	31
1-1/2	1-1/2	TEX3005TFU	TEX3005TL	—	—	12	5-1/8	6-1/2	50	83TQP	18	87TQP	66
1-1/2	1-1/2	TEX4005TFU	TEX4005TL	—	—	12	5-1/8	6-1/2	50	84TQP	20	89TQP	72

Wrenches in chart do not include certificate of calibration.  
 Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number.  
 Follow-up = 2 needles  
 Signal = signal light

### Combination US/Metric Reading – Standard 2% Accuracy

Input Drive Female Square, inches	Output Drive Male Square, inches	Follow up Models Stock No.	Light Signal Models Stock No.	US Range, ft-lb	US Increments, ft-lb	Metric Range, kg•m	Metric Increments, kg•m	Length, inches	Width, inches	Head Depth, inches	Optional "T" Bars/Extension Handles			
											"T" Bar	T Bar Length, inches	Extension Handle	Ext. Handle Length, inches
3/4	3/4	TEXC602TFUA	TEXC602TLA	600	20	80	2	9	3-1/4	3-3/4	81TQP	66	—	—
3/4	1	TEXC1003TFUA	TEXC1003TLA	1,000	20	136	2	9-7/8	3-5/8	4-1/8	81TQP	66	—	—
1	1	TEXC1503TFU	TEXC1503TL	1,500	25	200	5	10-7/8	4-3/8	4-7/16	82TQP	18	85TQP	31
1	1	TEXC2003TFU	TEXC2003TL	2,000	50	280	5	10-7/8	4-3/8	4-7/16	82TQP	18	85TQP	31
1	1-1/2	TEXC2005TFU	TEXC2005TL	2,000	50	280	5	10-7/8	4-3/8	4-7/16	82TQP	18	85TQP	31
1-1/2	1-1/2	TEXC3005TFU	TEXC3005TL	3,000	100	400	5	12	5-1/8	6-1/2	83TQP	18	87TQP	66
1-1/2	1-1/2	TEXC4005TFU	TEXC4005TL	4,000	100	550	10	12	5-1/8	6-1/2	84TQP	20	89TQP	72

Wrenches in chart do not include certificate of calibration.  
 Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number.  
 Follow-up = 2 needles  
 Signal = signal light



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

# TORQOMETER® TORQUE DRIVERS – 1/4" DRIVE



TQS012A

## US Reading Standard 2% Accuracy

Standard Basic Models Stock No.	Standard Follow up Models Stock No.	Length, inches	Stubby Basic Models Stock No.	Stubby Follow up Models Stock No.	Length, inches	Range	Increments
TQS004A	TQS004FUA	7-3/4	–	–	–	8 in-oz	1/4 in-oz
TQS008A	TQS008FUA	7-3/4	–	TQSS008FUA	5-1/4	16 in-oz	1/2 in-oz
TQS012A	TQS012FUA	7-3/4	TQSS012A	TQSS012FUA	5-1/4	24 in-oz/1.5 in-lb	1/2 in-oz/1/32 in-lb
TQS025A	TQS025FUA	7-3/4	TQSS025A	TQSS025FUA	5-1/4	48 in-oz/3 in-lb	1 in-oz/1/16 in-lb
TQS050A	TQS050FUA	7-3/4	TQSS050A	TQSS050FUA	5-1/4	96 in-oz/6 in-lb	2 in-oz/1/8 in-lb
TQS1A	TQS1FUA	7-3/4	TQSS1A	TQSS1FUA	5-1/4	192 in-oz/12 in-lb	4 in-oz/1/4 in-lb
TQS2A	TQS2FUA	7-3/4	TQSS2A	TQSS2FUA	5-1/4	384 in-oz/24 in-lb	8 in-oz/1/2 in-lb
TQS2.5A	TQS2.5FUA	7-3/4	TQSS2.5A	TQSS2.5FUA TQSS25FUA	5-1/4	480 in-oz/30 in-lb	12 in-oz/1 in-lb
TQS4A*	TQS4FUA*	8-11/16	TQSS4A*	TQSS4FUA*	5-1/4	50 in-lb	1 in-lb
TQS6A*	TQS6FUA*	8-11/16	TQSS6A*	TQSS6FUA*	5-1/4	75 in-lb	1 in-lb

Wrenches in chart do not include certificate of calibration. Wrenches with a certification of calibration are available by adding "C" to the end of the stock number. All wrenches include PB47 Storage Case.

\*Includes 1/4" internal square drive in handle

Basic model = 1 needle

Follow-up = 2 needles



TQSC4FUA

## Combination US/Metric Reading – Standard 2% Accuracy

Standard Basic Models Stock No.	Standard Follow up Models Stock No.	Length, inches	Stubby Basic Models Stock No.	Stubby Follow up Models Stock No.	Length, inches	Range	Increments
–	TQSC1FUA	7-3/4	–	TQSSC1FUA	5-1/4	17 kg•cm/15 in-lb	.5 kg•cm/.5 in-lb
–	TQSC2.5FUA	7-3/4	–	TQSSC2.5FUA	5-1/4	35 kg•cm/30 in-lb	1.000 kg•cm/1.0 in-lb
–	TQSC4FUA	8-11/16	–	TQSSC4FUA	5-1/4	56 kg•cm/50 in-lb	2 kg•cm/2 in-lb
–	TQSC6FUA	–	–	TQSSC6FUA	5-1/4	90 kg•cm/75 in-lb	3 kg•cm/5 in-lb

Wrenches in chart do not include certificate of calibration. Wrenches with a certification of calibration are available by adding "C" to the end of the stock number. All wrenches include PB47 Storage Case.

\*Includes 1/4" internal square drive in handle

Basic model = 1 needle

Follow-up = 2 needles

## Combination US/Newton Meter Reading – Standard 2% Accuracy\*\*

Standard Basic Models Stock No.	Standard Follow up Models Stock No.	Length, inches	Stubby Basic Models Stock No.	Stubby Follow up Models Stock No.	Length, inches	Range	Increments
–	TQSI.34FUA	7-3/4	–	TQSSI.34FUA	5-1/4	.34 N•m	.01 N•m
TQSI055A	–	7-3/4	TQSSI.055A	–	5-1/4	.055 N•m	.001 N•m
–	TQSI055FUA	7-3/4	–	TQSSI055FUA	5-1/4	.055 N•m	.001 N•m
–	–	–	TQSSI.11A	TQSSI.11FUA	5-1/4	.110 N•m	.005 N•m
–	–	–	–	TQSSI.70FUA	5-1/4	.70 N•m	.02 N•m
–	TQSI135FUA	7-3/4	–	TQSSI1.35FUA	5-1/4	1.35 N•m	.05 N•m
–	TQSR1FUA	7-3/4	–	–	7-3/4	1.6 N•cm/15 in-lb	5 N•cm/.25 in-lb
–	TQSR2.5FUA	7-3/4	–	–	7-3/4	3.4 N•cm/30 in-lb	.1 N•m/1 in-lb
–	TQSR4FUA*	8-11/16	–	–	8-11/16	5.5 N•m/50 in-lb	.1 N•m/1 in-lb
–	TQSR6FUA*	8-11/16	–	–	8-11/16	8.4 N•m/75 in-lb	.2 N•m/5 in-lb

Wrenches in chart do not include certificate of calibration. Wrenches with a certificate of calibration are available by adding "C" to the end of the stock number. All wrenches include PB47 Storage Case.

\*Includes 1/4" internal square drive in handle. Follow-up = 2 needles.

\*\*Precise 1% models are available on special order.

ANSI® Spec. B107.300 applies to all these models.

## TORQUE ANGLE GAUGES



TA362

### Torque Angle Gauges

#### TA358 Torque Angle Gauge

- Determines angle controlled torque tightening
- Allows user to follow manufacturer's specifications
- Use on automotive, diesel and industrial equipment plus head bolts and rod bolts on motorcycles
- 3/8" square drive

#### TA360 1/2" Square Drive

##### Torque Angle Gauge

- Allows user to follow manufacturer's specifications
- Calibrated in degrees in large, easy-to-read increments

#### TA362 Torque Angle Gauge

- Allows user to follow manufacturer's specifications
- Calibrated in degrees in large, easy-to-read increments
- 3/4" square drive





QDRIVER3P

## Preset Torque Screwdrivers

- Ideal for low torque assemblies and precision application
- Drivers accept all standard 1/4" hex screwdriver bits
- Cam over torque limiting clutch free wheels when set torque is achieved
- Accuracy is  $\pm 6\%$  from 20–100% of full scale in clockwise direction only for all drivers in series
- Lightweight construction features red anodized aluminum body with stainless steel shank
- Comfortable ergonomic trilobe grip and magnetic bit retention
- Textured body provides a nonslip grip
- Not supplied with certificate of calibration

Stock No.	Range, min	Range, max	Length, inches
QDRIVER1P	6 in-oz (4 N•cm)	32 in-oz (22 N•cm)	4-9/16
QDRIVER2P	10 in-oz (7 N•cm)	100 in-oz (70 N•cm)	5-5/8
QDRIVER3P	1.5 in-lb (16 N•cm)	15 in-lb (169 N•cm)	5-5/8
QDRIVER4P	4 in-lb (45 N•cm)	40 in-lb (451 N•cm)	6

ASME® B107.300-2010 Type III, Class A, Style 2, Design A



QDRIVER3

## Adjustable Torque Screwdrivers

- Ideal for low torque assemblies, precision applications and dash/under dash work on most domestic and imported vehicles
- Drivers accept all standard 1/4" hex screwdriver bits
- Cam over torque limiting clutch free wheels when set torque is achieved
- Accuracy is  $\pm 6\%$  from 20–100% of full scale in clockwise direction only for all drivers in series
- Lightweight construction features red aluminum body with stainless steel shank
- Comfortable ergonomic trilobe grip and magnetic bit retention
- Textured body provides a nonslip grip
- Not supplied with certificate of calibration

Stock No.	Range	Increments	Length, inches
QDRIVER2	20–100 in-oz (14–70 N•cm)	1 in-oz	5-7/16
QDRIVER3	3–15 in-lb (3–169 N•cm)	.2 in-lb	6-1/4
QDRIVER4	5–40 in-lb (56–451 N•cm)	.5 in-lb	6-11/16
QDRIVER4NM	90–450 N•cm	5.0 N•cm	6-11/16

ASME® B107.300-2010 Type III, Class A, Style 1, Design A

## TPMS Torque Screwdriver

Stock No.	Description	Range, Dedicated	Length	Accuracy
QDTPMS35	TPMS Adjustable Torque Screwdriver	4 in-lb, 12 in-lb, 35 in-lb	6-5/8"	+/- 6%

### QDTPMS35 TPMS Adjustable Torque Screwdriver

- Highly accurate torque tool intended for maintaining or installing popular styles of tire pressure monitoring sensors
- Manufactured from aircraft-grade aluminum
- Dedicated torque measurements for popular TPMS ratings (4, 12, 35 in-lb)



QDTPMS35

## TORQUE DRIVERS

### Torque Limiting Drivers

#### QTS135 Adjustable Limiting Driver

- Micrometer type adjustment
- Clutch allows 25° of free rotation on reaching set torque
- Guaranteed accuracy: within  $\pm 4\%$  of setting from 20% of capacity to full capacity clockwise and counterclockwise

#### QTSP135 US Preset Limiting Driver

- Clutch mechanism to help prevent over torquing by allowing free rotation upon reaching the set torque value
- Ideal selection for assembly line work where the same requirement is constant
- Can be reset at different torque values or readjusted for accuracy whenever necessary with a torque tester
- Torque limit is pre-set at the factory so user should specify the desired torque limit when ordering



QTS135

Stock No.	Range, minimum	Range, maximum	Increments	Length, inches
QTS135	5 in-lb	35 in-lb	0.5 in-lb	7
QTSP135	5 in-lb	35 in-lb	0.5 in-lb	7-1/2

Stock No.	Range	Increments	Length, inches
QDRIVER2A	20–100 in-oz (14–70 N•cm)	1 in-oz	5-7/16
QDRIVER3A	3–15 in-lb (34–169 N•cm)	0.2 in-lb	6-1/4
QDRIVER4A	5–40 in-lb (56–451 N•cm)	0.5 in-lb	6-11/16
QDRIVER4NMA	90–450 N•cm	5 N•m	6-11/16



QDRIVER4NMA



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

## INTERCHANGEABLE HEADS

### Torque Wrench Bodies/Adjustable



QC1I200

Interchangeable heads permit ratcheting, fixed or open end torquing capability with either adjustable or preset torque wrench bodies. A push of the locking pin provides quick change action, with a wide range of head styles to choose from.

- Selection: two adjustable models for quickly setting desired torque and eight preset models for assembly line work
- Slim profile: torque body is thin enough and long enough to get into tight areas
- Micrometer type adjustment: fast, accurate settings and changes
- Guaranteed accuracy: all QC series interchangeable torque wrenches are accurate  $\pm 4\%$  clockwise and  $\pm 6\%$  counterclockwise from 20–100% of full scale

Stock No.	Model Type	Shank Diameter	Range	Increments	Length, inches
QC1I200	Adjustable	J (0.425")	40–200 in-lb	1 in-lb	9-3/8
QC2I75	Adjustable	J (0.425")	5–75 ft-lb	.5 ft-lb	13



QC1P300



QC3P200

### Torque Wrench Bodies/Pre-Set

Stock No.	Model Type	Shank Diameter	Range	Length, inches
QC1P60	Preset	J (0.425")	10–60 in-lb (1.1–6.8 N•m)	6
QC1P100	Preset	J (0.425")	15–100 in-lb (1.7–11.3 N•m)	8
QC1P300	Preset	J (0.425")	60–300 in-lb (6.8–33.9 N•m)	10
QC2P75	Preset	J (0.425")	5–75 ft-lb (7–100 N•m)	11
QC3P150	Preset	Y (0.560")	30–150 ft-lb (41–203 N•m)	23
QC3P200	Preset	Y (0.560")	40–200 ft-lb (55–270 N•m)	23
QC4P300	Preset	X (0.735")	60–300 ft-lb (82–400 N•m)	27

No calibration certificates on preset torque bodies



QD2IN50A



QD3IN200



QD2IN100A

### Torque Wrench Bodies/Adjustable/Dual Range

- Plug and play system of interchangeable heads are consistently sized from pin to the center of the fastener, so no adjustment calculations are needed
- Includes certificate of calibration
- Minimal friction "Hour Glass" cam retains and releases lubricant where needed to reduce friction
- Push buttons for quick release of interchangeable head
- Positive stop ensures instrument cannot be accidentally disassembled if wound down past scale
- Each instrument comes in a molded storage case for long term protection

Stock No.	Range, N•m	Range, ft-lb	Increments	Shank Type	Weight, lb (kg)	Length, inches (mm)
QD2IN50A	10–50	9.2–35.0	0.5 N•m/0.4 ft-lb	J	2.3 (1.12)	14-1/2 (368)
QD2IN100A	20–100	16.6–71.9	0.5 N•m/0.4 ft-lb	J	2.3 (1.12)	14-1/2 (368)
QD3IN200B	40–200	37–140	2 N•m/1.2 ft-lb	Y	3.36 (1.64)	23 (584)
QD3IN350A	70–350	59–251	2 N•m/1.2 ft-lb	X	3.36 (1.64)	23 (584)
QD4IN800A	150–800	129–572	5 N•m/4.3 ft-lb	Z	11.14 (5.46)	41-1/2 (1,054)

\*For use with dual pin heads only ASME® B107.300  
 \*A suffix models have roll-marked tubes

## Square Drive Heads/Ratcheting

Allow use of torque wrench bodies on previous page with sockets, crowfoot wrenches or other similar attachment.



QJD12A-80

Square Drive, inches	J (0.425")	Y (0.560")	X (0.735")	Z (0.990")	Head O.D., inches	Depth, inches	Center of Fastener to Retaining Pin	Ratchet Service Kit
1/4	QJD8A-72 (28)	—	—	—	17/32	9/64	QJD Series – 2.50"	RKRT72A
3/8	QJD12A-80 (60)	—	—	—	21/32	11/64	QJD Series – 2.50"	RKRF80
3/8	—	—	QYD12A-80 (80)	—	21/32	11/64	QYD Series – 3.00"	RKRF80
1/2	QJD16A (60)	—	—	—	21/32	11/64	QXD Series – 4.50"	RKRS936
1/2	—	QXD16A (240)	—	—	21/32	11/64	QXD Series – 4.50"	RKRS80A
1/2	—	—	QYD16A (240)	—	21/32	11/64	QYD Series – 3.00"	RKRS936
3/4	—	QXD24A (240)	—	—	25/32	11/64	QZD Series – 5.75"	RKRQC4
3/4	—	—	—	QZD24BDP (480)	2-1/2	1-1/4	QZD Series – 5.75"	RKRQC4
1	—	—	—	QZD32BDP (480)	29/32	11/64	QZD Series – 5.75"	RKRQC5

\*US Patent #6,125,722  
Value in parentheses in chart is the Maximum Recommended Working Torque, ft-lb

## Square Drive Heads/Fixed

Allow use of torque wrench bodies on previous page with sockets, crowfoot wrenches or other similar attachments.

Square Drive, inches	J (0.425")	Y (0.560")	X (0.735")	Z (0.990")	Center of Fastener to Retaining Pin
1/4	QJSD8A (28)	—	—	—	QJD Series – 2.50"
3/8	QJSD12A (60)	QYSD12A (100)	—	—	QYD Series – 3.00"
1/2	QJSD16A (60)	—	QXSD16A (240)	—	QXD Series – 4.50"
1/2	—	QYSD16A (240)	—	—	QYD Series – 3.00"
3/4	—	—	QXSD24A (240)	QZSD24ADP (480)	QZD Series – 5.75"
1	—	—	QXSD32A (240)	—	—
1	—	—	QXSD32A (240)	QZSD32ADP (480)	QZD Series – 5.75"

Value in parentheses is the Maximum Recommended Working Torque, ft-lb



QXSD16A

## Ratcheting Box End Heads, 12-Point, mm

mm	Stock No.	Shank Dia.	O.D., mm	Head Depth, mm	Center of Fastener to Retaining Pin
10	QJBOERM10A	J (0.425")	21.9	5.0	QJBOER Series – 2.50"
13	QJBOERM13A	J (0.425")	25.9	6.3	QJBOER Series – 2.50"
16	QJBOERM16A	J (0.425")	33.6	7.0	QJBOER Series – 2.50"
17	QJBOERM17A	J (0.425")	36.5	7.0	QJBOER Series – 2.50"
18	QJBOERM18A	J (0.425")	38.5	8.0	QJBOER Series – 2.50"
18	QYBOERM18A	Y (0.560")	38.5	8.0	QYBOER Series – 3.0"
19	QJBOERM19A	J (0.425")	38.7	8.7	QJBOER Series – 2.50"
22	QJBOERM22A	J (0.425")	45.7	9.4	QJBOER Series – 2.50"
24	QJBOERM24A	J (0.425")	49.5	11.2	QJBOER Series – 2.50"
24	QYBOERM24A	Y (0.560")	49.5	11.2	QYBOER Series – 3.0"



QJBOERM16A

## Ratcheting Box End Heads, 12-Point, inches

inches	Stock No.	Shank Dia.	O.D., inches	Head Depth, inches	Center of Fastener to Retaining Pin
3/8	QJBOER12A	J (0.425")	7/8	3/16	QJBOER Series – 2.50"
7/16	QJBOER14A	J (0.425")	15/16	7/32	QJBOER Series – 2.50"
1/2	QJBOER16A	J (0.425")	1-1/32	1/4	QJBOER Series – 2.50"
9/16	QJBOER18A	J (0.425")	1-3/16	1/4	QJBOER Series – 2.50"
9/16	QYBOER18A	Y (0.560")	1-3/16	1/4	QYBOER Series – 3.0"
5/8	QJBOER20A	J (0.425")	1-5/16	9/32	QJBOER Series – 2.50"
5/8	QYBOER20A	Y (0.560")	1-5/16	9/32	QYBOER Series – 3.0"
11/16	QYBOER22A	Y (0.560")	1-1/4	1/4	QYBOER Series – 3.0"
3/4	QJBOER24A	J (0.425")	1-17/32	11/32	QJBOER Series – 2.50"
3/4	QYBOER24A	Y (0.560")	1-17/32	11/32	QYBOER Series – 3.0"



QJBOER16A



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

# INTERCHANGEABLE HEAD, CLICK-TYPE TORQUE WRENCHES



**QJXM21A**

Center of fastener to retaining pin:

- **QJXM** Series – 2.50"
- **QYXM** Series – 3.00"
- **QXXM** Series – 4.50"
- **QZXM** Series – 5.75"

## Box End Heads, 12-Point, mm

mm	J (0.425")	Y (0.560")	X (0.735")	Z (0.990")	O.D., mm	Head Depth, mm
6	QJXM6A (15)	—	—	—	11	5
7	QJXM7A (20)	—	—	—	11	5
8	QJXM8A (22)	—	—	—	13	6
9	QJXM9A (30)	—	—	—	14	6
10	QJXM10A (53)	—	—	—	15	7
11	QJXM11A (59)	—	—	—	17	8
12	QJXM12A (60)	—	—	—	18	8
13	QJXM13A (60)	—	—	—	20	9
14	QJXM14A (60)	QYXM14A (117)	QXXM14A (117)	—	21	9
15	QJXM15A (60)	QYXM15A (148)	—	—	22	10
16	QJXM16A (60)	QYXM16A (160)	QXXM16A (183)	—	24	10
17	QJXM17A (60)	QYXM17A (160)	QXXM17A (197)	—	25	11
18	QJXM18A (60)	QYXM18A (160)	QXXM18A (224)	—	27	12
19	QJXM19A (60)	QYXM19A (160)	QXXM19A (238)	—	28	12
20	QJXM20A (60)	QYXM20A (160)	QXXM20A (240)	—	30	13
21	QJXM21A (60)	QYXM21A (160)	QXXM21A (240)	—	31	13
22	QJXM22A (60)	QYXM22A (160)	QXXM22A (240)	—	32	14
23	QJXM23A (60)	QYXM23A (160)	QXXM23A (240)	—	34	15
24	QJXM24A (60)	QYXM24A (160)	QXXM24A (240)	QZXM24ADP (375)	35	15
25	—	—	QXXM25A (240)	QZXM25ADP (413)	37	16
26	QJXM26A (60)	QYXM26A (160)	—	QZXM26ADP (448)	38	16
27	QJXM27A (60)	QYXM27A (160)	QXXM27A (240)	QZXM27ADP (480)	39	17
29	—	QYXM29A (160)	QXXM29A (240)	QZXM29ADP (480)	42	18
30	—	QYXM30A (160)	QXXM30A (240)	QZXM30ADP (480)	44	19
32	—	QYXM32A (160)	QXXM32A (240)	QZXM32ADP (480)	46	19
34	—	QYXM34A (160)	QXXM34A (240)	QZXM34ADP (480)	48	19
36	—	QYXM36A (160)	QXXM36A (240)	QZXM36ADP (480)	53	22
41	—	—	QXXM41A (240)	QZXM41ADP (480)	59.4	22.4
46	—	—	QXXM46A (240)	QZXM46ADP (480)	66.5	24.6
50	—	—	—	QZXM50ADP (480)	73.2	26.9
55	—	—	—	QZXM55ADP (480)	81.8	30.2
60	—	—	—	QZXM60ADP (480)	89.7	33.3

## Box End Heads, 12-Point, inches



**QJX12A**



**QXX52A**

Center of fastener to retaining pin:

- **QJX** Series – 2.50"
- **QYX** Series – 3.00"
- **QXX** Series – 4.50"
- **QZX** Series – 5.75"


inches	J (0.425")	Y (0.560")	X (0.735")	Z (0.990")	O.D., inches	Head Depth, inches
1/4	QJX8A (18)	—	—	—	13/32	3/16
9/32	QJX9A (41)	—	—	—	13/32	3/16
3/8	QJX12A (60)	—	—	—	9/32	1/4
7/16	QJX14A (60)	—	—	—	21/32	5/16
1/2	QJX16A (60)	QYX16A (75)	—	—	3/4	11/32
9/16	QJX18A (60)	QYX18A (112)	—	—	27/32	3/8
5/8	QJX20A (60)	QYX20A (160)	—	—	15/16	13/32
11/16	QJX22A (60)	QYX22A (160)	—	—	1-1/32	7/16
3/4	QJX24A (60)	QYX24A (160)	QXX24A (219)	—	1-1/8	15/32
13/16	QJX26A (60)	QYX26A (160)	QXX26A (240)	QZX26ADP (275)	1-3/16	17/32
7/8	QJX28A (60)	QYX28A (160)	QXX28A (240)	—	1-9/32	9/16
15/16	QJX30A (60)	QYX30A (160)	QXX30A (240)	—	1-3/8	19/32
1	QJX32A (60)	QYX32A (160)	QXX32A (240)	—	1-15/32	21/32
1-1/16	QJX34A (60)	QYX34A (160)	—	QZX34ADP (300)	1-9/16	11/16
1-1/8	—	QYX36A (160)	QXX36A (240)	QZX36ADP (480)	1-5/8	11/16
1-3/16	—	QYX38A (160)	QXX38A (240)	QZX38ADP (480)	1-3/4	3/4
1-1/4	—	QYX40A (160)	QXX40A (240)	QZX40ADP (480)	1-13/16	3/4
1-5/16	—	QYX42A (160)	QXX42A (240)	QZX42ADP (480)	1-29/32	3/4
1-3/8	—	—	QXX44A (240)	QZX44ADP (480)	2	3/4
1-7/16	—	—	QXX46A (240)	QZX46ADP (480)	2-1/16	7/8
1-1/2	—	QYX48A (160)	QXX48A (240)	QZX48ADP (480)	2-5/32	7/8
1-9/16	—	—	QXX50A (240)	QZX50ADP (480)	2-1/4	7/8
1-5/8	—	QYX52A (160)	QXX52A (240)	QZX52ADP (480)	2-11/32	7/8
1-11/16	—	—	—	QZX54ADP (480)	2-7/16	7/8
1-3/4	—	—	QXX56A (240)	QZX56ADP (480)	2-17/32	1-1/32
1-13/16	—	—	QXX58A (240)	QZX58ADP (480)	2-5/8	1-1/32
1-7/8	—	—	QXX60A (240)	QZX60ADP (480)	2-11/32	1-1/32
2	—	—	QXX64A (240)	QZX64ADP (480)	2-7/8	1-1/32
2-1/16	—	—	—	QZX66ADP (480)	2-21/32	1-3/16
2-1/8	—	—	—	QZX68ADP (480)	3-1/16	1-3/16
2-1/4	—	—	—	QZX72ADP (480)	3-7/32	1-3/16
2-1/2	—	—	—	QZX80ADP (480)	3-19/32	1-5/16

Value in parentheses is the Maximum Recommended Working Torque, ft-lb



# INTERCHANGEABLE HEAD, CLICK-TYPE TORQUE WRENCHES

## Box End Heads, 0° Offset, 12-Point, inches


	Stock No.	Shank Diameter	Maximum Working Torque, ft-lb
3/8	QJXD12A	J (0.425")	60
7/16	QJXD14A	J (0.425")	60
1/2	QJXD16A	J (0.425")	60
9/16	QJXD18A	J (0.425")	60
11/16	QJXD22A	J (0.425")	60
3/4	QJXD24A	J (0.425")	60
7/8	QJXD28A	J (0.425")	60
15/16	QJXD30A	J (0.425")	60
1	QJXD32A	J (0.425")	60
5/8	QYXD20A	Y (0.560")	160
11/16	QYXD22A	Y (0.560")	160
3/4	QYXD24A	Y (0.560")	160
15/16	QYXD30A	Y (0.560")	160

Value in parentheses is the Maximum Recommended Working Torque, ft-lb

Center of fastener to retaining pin:

- QJXD Series – 2.50"
- QYXD Series – 3.00"

## Box End Heads, 10° Offset, 12-Point, mm


	Stock No.	Shank Diameter	Maximum Working Torque, ft-lb
11	QJXBM11A	J (0.425")	59
12	QJXBM12A	J (0.425")	60
13	QJXBM13A	J (0.425")	60
14	QJXBM14A	J (0.425")	60
16	QJXBM16A	J (0.425")	60
18	QJXBM18A	J (0.425")	60
19	QJXBM19A	J (0.425")	60
18	QYXBM18A	Y (0.560")	160
24	QYXBM24A	Y (0.560")	160

Value in parentheses is the Maximum Recommended Working Torque, ft-lb

Center of fastener to retaining pin:

- QJXBM Series – 2.50"
- QYXBM Series – 3.00"

## Box End Heads, 10° Offset, 12-Point, inches

	Stock No.	Shank Diameter	Maximum Working Torque, ft-lb
1/2	QJXB16A	J (0.425")	60
9/16	QJXB18A	J (0.425")	60
5/8	QJXB20A	J (0.425")	60
11/16	QJXB22A	J (0.425")	60
3/4	QJXB24A	J (0.425")	60
1-3/8	QXXB44A	X (0.735")	240
1-1/2	QXXB48A	X (0.735")	240
5/8	QYXB20A	Y (0.560")	79
3/4	QYXB24A	Y (0.560")	160
7/8	QYXB28A	Y (0.560")	160
15/16	QYXB30A	Y (0.560")	160
1	QYXB32A	Y (0.560")	160
1-1/8	QYXB36A	Y (0.560")	160

Value in parentheses is the Maximum Recommended Working Torque, ft-lb


Center of fastener to retaining pin:

- QJXB Series – 2.50"
- QYXB Series – 3.00"

## IZO Torque Insert Heads

Stock No.	Description
IZ70E9X12	7 mm OE insert 9 x 12
IZ80E9X12	8 mm OE insert 9 x 12
IZ90E9X12	9 mm OE insert 9 x 12
IZ100E9X12	10 mm OE insert 9 x 12
IZ110E9X12	11 mm OE insert 9 x 12
IZ130E9X12	13 mm OE insert 9 x 12
IZ140E9X12	14 mm OE insert 9 x 12
IZ150E9X12	15 mm OE insert 9 x 12
IZ160E9X12	16 mm OE insert 9 x 12
IZ170E9X12	17 mm OE insert 9 x 12
IZ180E9X12	18 mm OE insert 9 x 12
IZ190E9X12	19 mm OE insert 9 x 12
IZ130E14X18	13 mm OE insert 14 x 18
IZ140E14X18	14 mm OE insert 14 x 18
IZ150E14X18	15 mm OE insert 14 x 18
IZ170E14X18	17 mm OE insert 14 x 18
IZ180E14X18	18 mm OE insert 14 x 18
IZ190E14X18	19 mm OE insert 14 x 18
IZ220E14X18	22 mm OE insert 14 x 18
IZ240E14X18	24 mm OE insert 14 x 18
IZ270E14X18	27 mm OE insert 14 x 18
IZ320E14X18	32 mm OE insert 14 x 18
IZ10IR9X12	10 mm Insert Ring 9 x 12
IZ11IR9X12	11 mm Insert Ring 9 x 12
IZ12IR9X12	12 mm Insert Ring 9 x 12
IZ13IR9X12	13 mm Insert Ring 9 x 12
IZ14IR9X12	14 mm Insert Ring 9 x 12
IZ15IR9X12	15 mm Insert Ring 9 x 12
IZ17IR9X12	17 mm Insert Ring 9 x 12
IZ19IR9X12	19 mm Insert Ring 9 x 12
IZ13IR14X18	13 mm Insert Ring 14 x 18
IZ14IR14X18	14 mm Insert Ring 14 x 18
IZ15IR14X18	15 mm Insert Ring 14 x 18
IZ17IR14X18	17 mm Insert Ring 14 x 18
IZ19IR14X18	19 mm Insert Ring 14 x 18
IZ22IR14X18	22 mm Insert Ring 14 x 18
IZ24IR14X18	24 mm Insert Ring 14 x 18
IZ27IR14X18	27 mm Insert Ring 14 x 18
IZ30IR14X18	30 mm Insert Ring 14 x 18
IZ32IR14X18	32 mm Insert Ring 14 x 18
IZWI9X12	Welding insert 9 x 12
IZWI14X18	Welding insert 14 x 18

## Box End Heads, 40° Bend, 12-Point, mm

	Stock No.	Shank Diameter	Center of Fastener to Retaining Pin
18	QYSBXM18A	Y (0.560")	QYSBXM Series – 3.00"
24	QYSBXM24A	Y (0.560")	QYSBXM Series – 3.00"

Value in parentheses is the Maximum Recommended Working Torque, ft-lb

Center of fastener to retaining pin:

- QYSBXM Series – 3.00"



- Do not exceed rated capacity
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

# INTERCHANGEABLE HEADS




QYOM32A


Center of fastener to retaining pin:

- QJO Series – 2.50"
- QYO Series – 3.00"

## Thin Open End Heads, inches

	Stock No.	Shank Diameter	Maximum Working Torque, ft-lb
11/16	QJO22ARTH60	J (0.425")	60
1	QJO32ARTH	J (0.425")	60
1-1/16	QJO34ARTH	J (0.425")	60
1-1/8	QJO36ARTH	J (0.425")	60
1-3/16	QJO38ARTH	J (0.425")	60
1-1/4	QJO40ARTH	J (0.425")	60
1-3/8	QJO44ARTH	J (0.425")	60
1-1/2	QJO48ARTH	J (0.425")	60
1-9/16	QJO50ARTH	J (0.425")	60
1-5/8	QJO52ARTH	J (0.425")	60
1-3/4	QJO56ARTH	J (0.425")	60
1-7/8	QJO60ARTH	J (0.425")	60
2	QJO64ARTH	J (0.425")	60
2-1/16	QJO66ARTH	J (0.425")	60
2-11/16	QJO86ARTH	J (0.425")	60
1-5/8	QYO52ARTH	Y (0.560")	160
1-3/4	QYO56ARTH	Y (0.560")	160
1-7/8	QYO60ARTH	Y (0.560")	160
2	QYO64ARTH	Y (0.560")	160
2-1/8	QYO68ARTH	Y (0.560")	160
2-1/4	QYO72ARTH	Y (0.560")	160

## Open End Heads, mm

	J (0.425")	Y (0.560")	X (0.735")	Z (0.990")	O.D., mm	Head Depth, mm
6	QJOM6A (5)	—	—	—	13.5	3.6
7	QJOM7A (6)	—	—	—	13.5	3.6
8	QJOM8A (10)	—	—	—	16.5	3.3
9	QJOM9A (14)	—	—	—	19.8	4.8
10	QJOM10A (22)	—	—	—	19.8	4.8
11	QJOM11A (33)	—	—	—	22.9	5.6
12	QJOM12A (36)	—	—	—	26.9	6.1
13	QJOM13A (41)	—	—	—	26.9	6.1
14	QJOM14A (55)	QYOM14A (55)	—	—	29.5	6.6
15	QJOM15A (60)	QYOM15A (74)	—	—	33.3	6.9
16	QJOM16A (60)	QYOM16A (88)	—	—	33.3	6.9
17	QJOM17A (60)	QYOM17A (103)	QXOM17A (103)	—	37.1	7.3
18	QJOM18A (60)	QYOM18A (115)	QXOM18A (115)	—	37.1	7.3
19	QJOM19A (60)	QYOM19A (138)	QXOM19A (138)	—	40.4	7.6
20	QJOM20A (60)	QYOM20A (160)	QXOM20A (160)	—	43.7	9.2
21	QJOM21A (60)	QYOM21A (160)	QXOM21A (180)	—	43.7	9.2
22	QJOM22A (60)	QYOM22A (160)	QXOM22A (206)	—	43.7	9.2
23	QJOM23A (60)	QYOM23A (160)	QXOM23A (229)	—	47	10
24	QJOM24A (60)	QYOM24A (160)	QXOM24A (240)	QZOM24ADP (250)	49	11
25	QJOM25A (60)	QYOM25A (160)	QXOM25A (240)	QZOM25ADP (275)	52	11
26	QJOM26A (60)	—	QXOM26A (240)	QZOM26ADP (298)	53	11
27	QJOM27A (60)	QYOM27A (160)	QXOM27A (240)	QZOM27ADP (319)	55	12
29	QXOM29A (240)	QYOM29A (160)	—	QZOM29ADP (379)	58	12
30	QJOM30 (60)	QYOM30A (160)	QXOM30A (240)	QZOM30ADP (413)	61.5	13
32	QJOM32 (60)	QYOM32A (160)	QXOM32A (240)	QZOM32ADP (480)	65	14
34	—	QYOM34A (160)	QXOM34A (240)	QZOM34ADP (480)	68	14
36	QJOM36A (60)	QYOM36A (160)	QXOM36A (240)	QZOM36ADP (480)	74	15
41	—	QYOM41 (160)	QXOM41A (240)	QZOM41ADP (480)	83	17
46	—	—	QXOM46A (240)	QZOM46ADP (480)	93	19
50	—	—	—	QZOM50ADP (480)	102	20
55	—	—	QXOM55A (240)	QZOM55ADP (480)	115.1	22.4
60	—	—	—	QZOM60ADP (480)	125	27
65	—	—	—	QZOM65ADP (480)	128.3	25.9
70	—	—	—	QZOM70ADP (480)	168	31


Center of fastener to retaining pin:

- QJOM Series – 2.50"
- QYOM Series – 3.00"
- QXOM Series – 4.50"
- QZOM Series – 5.75"

Value in parentheses is the Maximum Recommended Working Torque, ft-lb

\*Use with QC1P100 and QC1I200 Torque bodies only; other heads may be used with all listed torque bodies.

**Open End Heads, inches**

	J (0.425")	Y (0.560")	X (0.735")	Z (0.990")	O.D., inches	Head Depth, inches
1/4	QJO8A (5)	-	-	-	17/32	9/64
9/32	QJO9A (7)	-	-	-	21/32	5/32
5/16	QJO10A (9)	-	-	-	21/32	11/64
3/8	QJO12A (18)	-	-	-	25/32	11/64
7/16	QJO14A (26)	-	-	-	29/32	11/64
1/2	QJO16A (34)	QYO16A (58)	-	-	1-1/16	11/64
9/16	QJO18A (58)	QYO18A (58)	-	-	1-1/16	9/32
5/8	QJO20A (60)	QYO20A (70)	-	-	1-5/16	9/32
11/16	QJO22A (60)	QYO22A (99)	-	-	1-7/16	5/16
3/4	QJO24A (60)	QYO24A (125)	QXO24A (125)	-	1-19/32	11/32
13/16	QJO26A (60)	QYO26A (160)	QXO26A (164)	-	1-23/32	3/8
7/8	QJO28A (60)	QYO28A (160)	-	-	1-23/32	3/8
15/16	QJO30A (60)	QYO30A (160)	QXO30A (200)	-	1-29/32	13/32
1	QJO32A (60)	QYO32A (160)	QXO32A (240)	QZO32ADP (298)	2-1/32	7/16
1-1/16	QJO34A (60)	QYO34A (160)	QXO34A (240)	QZO34ADP (480)	2-3/16	15/32
1-1/8	QJO36A (60)	QYO36A (160)	QXO36A (240)	QZO36ADP (367)	2-5/16	15/32
1-3/16	-	QYO38A (160)	QXO38A (240)	QZO38ADP (433)	2-7/16	1/2
1-1/4	QJO40A (60)	QYO40A (160)	QXO40A (240)	QZO40ADP (480)	2-9/16	17/32
1-5/16	-	QYO42A (160)	QXO42A (240)	QZO42ADP (480)	2-21/32	9/16
1-3/8	QJO44A (60)	QYO44A (160)	QXO44A (240)	QZO44ADP (480)	2-3/16	19/32
1-7/16	-	QYO46A (160)	QXO46A (240)	QZO46ADP (480)	3	19/32
1-1/2	QJO48A (60)	QYO48A (160)	QXO48A (240)	QZO48ADP (480)	3-1/16	5/8
1-9/16	-	QYO50A (160)	QXO50A (240)	QZO50ADP (480)	3-3/16	21/32
1-5/8	QJO52A (60)	QYO52A (160)	QXO52A (240)	QZO52ADP (480)	3-11/32	11/16
1-11/16	-	-	QXO54A (240)	QZO54ADP (480)	3-13/32	23/32
1-3/4	-	QYO56A (240)	QXO56A (240)	QZO56ADP (480)	3-9/16	23/32
1-13/16	-	-	QXO58A (240)	QZO58ADP (480)	3-21/32	13/32
1-7/8	-	QYO60A (240)	QXO60A (240)	QZO60ADP (480)	3-13/16	25/32
2	-	-	QXO64A (240)	QZO64ADP (480)	4-1/16	27/32
2-1/16	-	-	QXO66A (240)	QZO66ADP (480)	4-3/16	27/32
2-1/8	-	-	-	QZO68ADP (480)	4-5/16	5/8
2-1/4	-	QYO72 (240)	-	QZO72ADP (480)	4-9/16	15/16
2-3/8	-	-	-	QZO76ADP (480)	—	—
2-1/2	-	-	-	QZO80ADP (480)	5-1/16	1
2-7/8	-	QYO92 (240)	-	-	5-31/32	5/8

Value in parentheses is the Maximum Recommended Working Torque, ft-lb  
 \*Use with QC1P100 and QC1I200 Torque Bodies only; other heads may be used with all listed torque bodies.



**QJO28A**

Center of fastener to retaining pin:

- QJO Series – 2.50"
- QYO Series – 3.00"
- QXO Series – 4.50"
- QZO Series – 5.75"

**Ratcheting Flare Nut Heads, 12-Point, mm**

Size, mm	Stock No.	Shank Diameter
16	RTWHM16J	J (0.425")

**Ratcheting Flare Nut Heads, 12-Point, inches**

Size, inches	Stock No.	Shank Diameter
9/16	RTWH36J	J (0.425")
5/8	RTWH40J	J (0.425")
11/16	RTWH44J	J (0.425")
13/16	RTWH52J	J (0.425")
3/4	RTWH48Y	Y (0.560")
7/8	RTWH56Y	Y (0.560")
15/16	RTWH60Y	Y (0.560")

Size, inches	Stock No.	Shank Diameter
1	RTWH64Y	Y (0.560")
1-1/8	RTWH72Y	Y (0.560")
1-1/4	RTWH80Y	Y (0.560")
1-3/8	RTWH88Y	Y (0.560")
1-5/8	RTWH104Y	Y (0.560")
1-7/8	RTWH120Y	Y (0.560")
1-1/2	RTWH96X	X (0.735")



**RTWH60Y**

Center of fastener to retaining pin:

- RTWHM J Series – 2.50"
- RTWH J Series – 2.50"
- RTWH Y Series – 3.00"
- RTWH X Series – 4.50"

**Adaptor**

**QZD32A-1 Adaptor**

- Adaptor Z Shank to 1" Drive



- Do not exceed rated capacity
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

## INTERCHANGEABLE HEADS

### Flare Nut Heads, 6-Point, mm

mm	J (0.425")	Y (0.560")	O.D., mm	Head Depth, mm
10	QJRXSM10A (33)	—	20	8
11	QJRXSM11A (42)	—	21	9
12	QJRXSM12A (50)	—	22	9
13	QJRXSM13A (58)	—	24	9
14	QJRXSM14A (60)	—	25	10
16	—	QYRXSM16A (75)	27	11
17	QJRXSM17A (60)	QYRXSM17A (83)	29	11
18	QJRXSM18A (60)	QYRXSM18A (94)	30	12
19	QJRXSM19A (60)	QYRXSM19A (104)	32	12
20	—	QYRXSM20A (113)	33	13

Value in parentheses is the Maximum Recommended Torque, ft-lb

### Flare Nut Heads, 6-Point, inches

	J (0.425")	Y (0.560")	O.D., inches	Head Depth, inches
7/16	QJRXS14A (42)	—	27/32	11/32
5/8	QJRXS20A (60)	QYRXS20A (74)	1-3/32	7/16
11/16	QJRXS22A (60)	QYRXS22A (92)	1-5/32	15/32
3/4	QJRXS24A (60)	QYRXS24A (104)	1-1/4	1/2
13/16	QJRXS26A (60)	QYRXS26A (117)	1-5/16	7/32
7/8	QJRXS28A (60)	QYRXS28A (133)	1-13/32	9/16
15/16	QJRXS30A (75)	QYRXS30A (146)	1-1/2	19/32
1	QJRXS32A (75)	QYRXS32A (158)	1-9/16	5/8
1-1/8	—	QYRXS36A (160)	1-3/4	11/16

Value in parentheses is the Maximum Recommended Working Torque, ft-lb

### Flare Nut Heads, 12-Point, inches



QYRX18A

Center of fastener to retaining pin:

- QJRXSM Series – 2.50"
- QYRXSM Series – 3.00"
- QJRXS Series – 2.50"
- QYRXS Series – 3.00"
- QYRX Series – 3.00"

	Shank Dia. Y (0.560")	O.D., inches	Head Depth, inches
9/16	QYRX18A (67)	1	13/32
5/8	QYRX20A (79)	1-3/32	7/16
3/4	QYRX24A (104)	1-1/4	1/2
13/16	QYRX26A (117)	1-11/32	17/32
7/8	QYRX28A (133)	1-13/32	9/16
15/16	QYRX30A (146)	1-1/2	19/32
1	QYRX32A (158)	1-19/32	21/32
1-1/16	QYRX34A (160)	1-21/32	11/16
1-1/8	QYRX36A (160)	1-3/4	23/32
1-3/16	QYRX38A (160)	1-7/16	3/4
1-1/4	QYRX40A (160)	1-29/32	25/32

Value in parentheses is the Maximum Recommended Torque, ft-lb

## GEARED HEAD MULTIPLIERS

### Manual Torque Multipliers

- Ideal for use in the oil and gas industry, mining, railroad, heavy fleet, power gen and aviation
- Compact dimensions allow excellent access and easy handling
- Maximum torque output range from 730–7,000 ft-lb (MTMP7000)
- Anti Wind-Up Ratchet (AWUR) fitted as standard, except for MTMB740, MTMB950 and MTMB1990; keeps the multiplier loaded for easier operation
- Calibrated to give exact multiplication ratio, and each multiplier issued with unique calibration certificate
- True torque multiplication, accuracy guaranteed better than ±4%
- Supplied in compact carrying case
- Variety of alternative reaction fixtures available

Specifications	MTMC730	MTMC1475	MTMC2950	MTMC5100	MTMP4400	MTMP7000
Reaction Type	Interchangeable	Interchangeable	Interchangeable	Interchangeable	Plate	Plate
Torque Ratio	22:1	27:1	25:1	25:1	25:1	125:1
Certification	Yes	Yes	Yes	Yes	No	No
Anti-Windup	Yes	Yes	Yes	Yes	Yes	Yes
Torque Output, Minimum ft-lb	74	147	295	516	450	700
Torque Output, Maximum ft-lb	730	1,475	2,950	5,100	4,400	7,000
Torque Output, Minimum N•m	100	200	400	700	610	950
Torque Output, Maximum N•m	1,000	2,000	4,000	7,000	6,000	9,500
Input Drive Female Square, inches	3/8	1/2	1/2	1/2	1/2	1/2
Output Drive Male Square, inches	3/4	1	1	1-1/2	1-1/2	1-1/2

Specifications	MTMB740	MTMB950	MTMB1990	MTMB2200	MTMB3300
Reaction Type	Bar and Cranked	Bar and Cranked	Bar and Cranked	Bar	Bar
Torque Ratio	5:1	5:1	5:1	15:5:1	26:1
Certification	Yes	Yes	Yes	Yes	Yes
Anti-Windup	—	—	—	Yes	Yes
Torque Output, Minimum ft-lb	74	96	200	220	330
Torque Output, Maximum ft-lb	740	950	1,990	2,200	3,300
Torque Output, Minimum N•m	100	130	270	300	450
Torque Output, Maximum N•m	1,000	1,300	2,700	3,000	4,500
Input Drive Female Square, inches	1/2	1/2	1/2	1/2	1/2
Output Drive Male Square, inches	3/4	3/4	1	1	1



## Electronic Dial-Type Torque Wrenches

The Electronic Dial torque wrench features solid state electronics for accurate torque application and measurement. The straightforward design provides easy set-up and usage. There is no need to look directly at the digital display as the wrench features a three LED light bar, a yellow LED warns you when you are approaching your target torque, and when you reach your target, a green LED illuminates. If you over torque, then a red LED lights. In addition to the readout and LED's, a buzzer sounds when you reach your desired torque value.



ED2600

### Features:

- Four units of torque; in-lb, ft-lb, N•m, kg•cm
- Three models available, from 10–600 in-lb
- Accuracy:  $\pm 1\%$  of indicated value CW and CCW, from 20–100% of full scale
- Accuracy:  $\pm 2\%$  of indicated value CW and CCW, from 10–19% of full scale
- Three step LED visual light system:
  - YELLOW LIGHT = approaching target torque
  - GREEN LIGHT = target torque reached
  - RED LIGHT = over torque indicator
- Audible tone when desired torque is reached
- Ergonomically designed hand grip
- Display can be rotated 180° to allow for left hand use
- Battery cover designed to be aviation FOD proof
- Holds “peak” torque reading for 10 seconds
- Constructed of special Capron® material for long life and durability
- Resistant to the majority of chemicals used in industrial environments
- Wrench can be hung on a tool board
- Uses one standard 9 V alkaline battery, lasts about 80 hours
- NIST® traceable certificate of calibration included
- Meets or exceeds ASME® B107.28-2010

Stock No.	Square Drive, inches	in-lb	ft-lb	N•m	kg-cm	Length, inches (mm)	Weight, lb (kg)
ED1050*	1/4	5–50	.42–4.17	.56–5.65	5.7–57.61	11.5 (292)	1.25 (.57)
ED2250*	3/8	25–250	2.08–20.83	2.82–28.25	28–288.03	14.5 (368)	1.51 (.68)
ED2600*	3/8	60–600	5–50	6.79–67.79	69–691.27	14.5 (368)	1.51 (.68)

\* CE

## TORQUE TESTERS

### Electronic Torque Testers

Designed to be a sturdy, low cost tester, these electronic torque testers can be placed on the wall in the factory or on a bench to allow operators to test torque wrenches or power tools without having to leave their station.

- Track and peak modes
- Can be used with nonimpacting power tools (joint rate simulators required)
- Dual scale (English/N•m or English/dN•m)
- Reads bidirectional (clockwise and counterclockwise)
- Uses rechargeable Ni-Cad batteries (2 Ni-Cad 9 V). Charger included
- Integral transducer and sturdy housing allow mounting in virtually any position
- Integral Transducer: Full bridge strain gauge, 350 ohms, 1,500  $\mu E$ , 3 mV/V F.S., 3.75 V excitation
- Unique neck design allows operator to see display when testing long torque wrenches
- Accuracy:  $\pm 0.5\%$  of reading  $\pm 1$  count in the least significant digit (10–100% of full range) at 25 °C
- Display Accuracy: four digits, 9,999 counts
- Stability: +0.044% per °C

Stock No.	Square Drive, inches	Range English	Range, N•m
QC1ETT10	1/4	10–100 in-oz	7.0–70.6
QC1ETT400	1/4	40–400 in-oz	28–280
QC1ETT50	1/4	5–50 in-lb	5.6–56
QC1ETT100	1/4	10–100 in-lb	11.3–113
QC2ETT250	3/8	25–250 in-lb	28–280
QC2ETT1000	3/8	100–1,000 in-lb	113–1,130
QC3ETT250	1/2	25–250 ft-lb	34–339
QC4ETT600	3/4	60–600 ft-lb	81–813

The certification of accuracy provided per ASME and ISO® Standards is 10%–100% of full scale.



QC1ETT50



- Do not exceed rated torque
- Do not use torque wrenches to break fasteners loose
- Torque multipliers produce very high reaction force, use caution
- Read safety precautions on pages W1 to W4