Torque Analyzer & Test Measurement

2014 CATALOG

mountz®
the torque tool specialists®

"Making a Safer World
Through Accuracy and Precision"

RoHS

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TorqueMate®
FTA-100

Torque Analyzer with ARCII Technology

KEY FEATURES

Accuracy: ± 0.5% of reading from 10% to 100% of full scale.

Recommended for all pulse tools, hand screwdrivers, torque wrenches and power tools.

Selection of three operation modes: Track, Peak, and First Peak

Monitors torque and pulse count. Unit displays both the peak torque & the number of pulses performed during a preset time frame to reach the final torque value.

Seven units of torque measurements: ozf.in, lbf.in, lbf.ft, cN.m, N.m, kgf.m, kgf.cm

USB interface to download readings in "real time".

Easy to use menu structure.

Eight-digit display.

Small and lightweight.

Includes NimH batteries and universal charger 100-240 VAC.

Over Current Protection (OCP) protects unit from damage or malfunction.

Menu prompting calibration process.

Auto filter frequency selection based upon tool type being used in Peak mode.

Provide "EZ-Plug & Play" with Mountz torque sensors. Features ARC II technology, an instant auto-recognition system of the sensors connected to the FTA-100.

Mountz Data Manager software for collecting & analyzing data.

EZ PLUG & PLAY

CERTIFIED
Supplied with Free ISO 17025 Certification of Calibration.

FTA-100 Item #072990

ACCESSORIES INCLUDED

Description	Item #
Universal Charger (100-240VAC)	701210
USB Cable	770319
Case	600729
Battery	708005

CABLE CHART

Torque Sensor	Item #
BMX	072002
MTX	072003
SDX	072004
RTSX	072005
ETX	072006

NOTE!

Since a tester cannot always duplicate actual joint characteristics, the torque reading displayed on the FTA may vary from the actual torque that a tool will apply to a joint. When critical assemblies are involved, the torque output of the power tool being used should be verified on the actual assembly using a calibrated measuring torque tool.

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EGERATE

EZ-TorQ II

Torque Analyzer

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KEY FEATURES

Accuracy ± 0.5% of reading from 20% to 100%
Accuracy ± 1% of reading from 10% to 20%

Recommended for hand screwdrivers, most wrenches and power tools (Not for use in testing Impact or Pulse type tools).

Selection of three operating modes:
Track, Peak and First Peak

Seven units of torque measurements:
ozf.in, lbf.in, lbf.ft, cN.m, N.m, kgf.m, kgf.cm

Features built-in Quick Test operation.

PC Windows based software program:
Mountz EZ-TorQ II Interface Program - to conduct Quick Tool Tests, Data Logging and Sensor Calibration.

"Flash" memory allows upgrades to be done by the user in the field & internet through the RS-232 port.

Easy to use Menu Structure.

Six-digit display.

Ability to download readings to PC via RS-232 or via USB.

Real time output via RS-232.

High Capacity Li-Ion Batteries for long life.

The unit will store a total of up to 150 data points.

Real time graph of torque vs. time using associated PC Windows software.

Features Go / No Go LEDs that illuminate when high or low tolerance setting is achieved or out of tolerance.

Three low-pass filter settings: 130, 150 and 500 Hz.

Includes a Spring Run Down Adapter.

Includes a case, Universal Charger, 1/4 F/Hex Sq. Dr. Adapter, USB Adapter & RS232 Cable Adapter.

Dimensions: (L x W x H): 7 1/4" x 4 1/3" x 2"

CERTIFIED

Supplied with **Free** ISO 17025 Certification of Calibration.

NOTE!

Since a tester cannot always duplicate actual joint characteristics, the torque reading displayed on the EZ-TorQ may vary from the actual torque that a tool will apply to a joint. A run down adapter that simulates a variety of different joint characteristics is provided with the EZ-TorQ. When critical assemblies are involved, the torque output of the power tool being used should be verified on the actual assembly using a calibrated measuring torque tool.

Model	Item #	Torque Ranges lbf.in	cN.m	kgf.cm	Drive Size	Weight
EZ-TorQ II 10i	**070800**	1 - 10	11.3 - 113	1.2 - 11.5	17mm Female/Hex*	4.5 lbs.
EZ-TorQ II 50i	**070801**	5 - 50	56.5 - 565	5.8 - 57.6	17mm Female/Hex*	4.5 lbs.
EZ-TorQ II 100i	**070802**	10 - 100	113 - 1130	11.5 - 115	17mm Female/Hex*	4.5 lbs.
EZ-TorQ II 150i	**070803**	15 - 150	169.5 - 1695	17.3 - 173	17mm Female/Hex*	4.5 lbs.

* Each model includes a 1/4" Female/Hex Sq. Drive Adapter and a Spring Run Down Adapter for testing power tools.

ACCESSORIES INCLUDED

Item #	Description
770300	Universal Charger (For EZ-TorQ II)
600729	Case (Pictured Above)
603107	Battery Pack (For EZ-TorQ II)
14-501830	Brush Cap
773064	RS-232 Cable
773069	Serial to USB Adapter
600727	1/4 F/Hex Sq. Dr. Adapter (17mm F/Hex)
120143	Square Dr. Adapter (1/4 Sq. Dr x 1/4 Hex x 2" OAL)

ACCESSORIES OPTIONAL

SCREW RUN DOWN ADAPTERS

Item #	Model	American	Metric	Quantity
600728-1*	RDA	2 - 56	M2x.4	5
600728-2*	RDA	4 - 40	M3x.5	5
600728-3*	RDA	6 - 32	M4x.7	5
600728-4*	RDA	8 - 32	M5x.8	5
600734-18*	RDA	5/16 - 18	-	5
600734-20*	RDA	1/4 - 20	-	5

* Hardware Kit # 1 for these RDA units (includes Washer and Screws), Item # **061237**.

See EZ-TorQ manual for a list of items that are included in the Hardware Kit.

SPRING RUN DOWN ADAPTERS

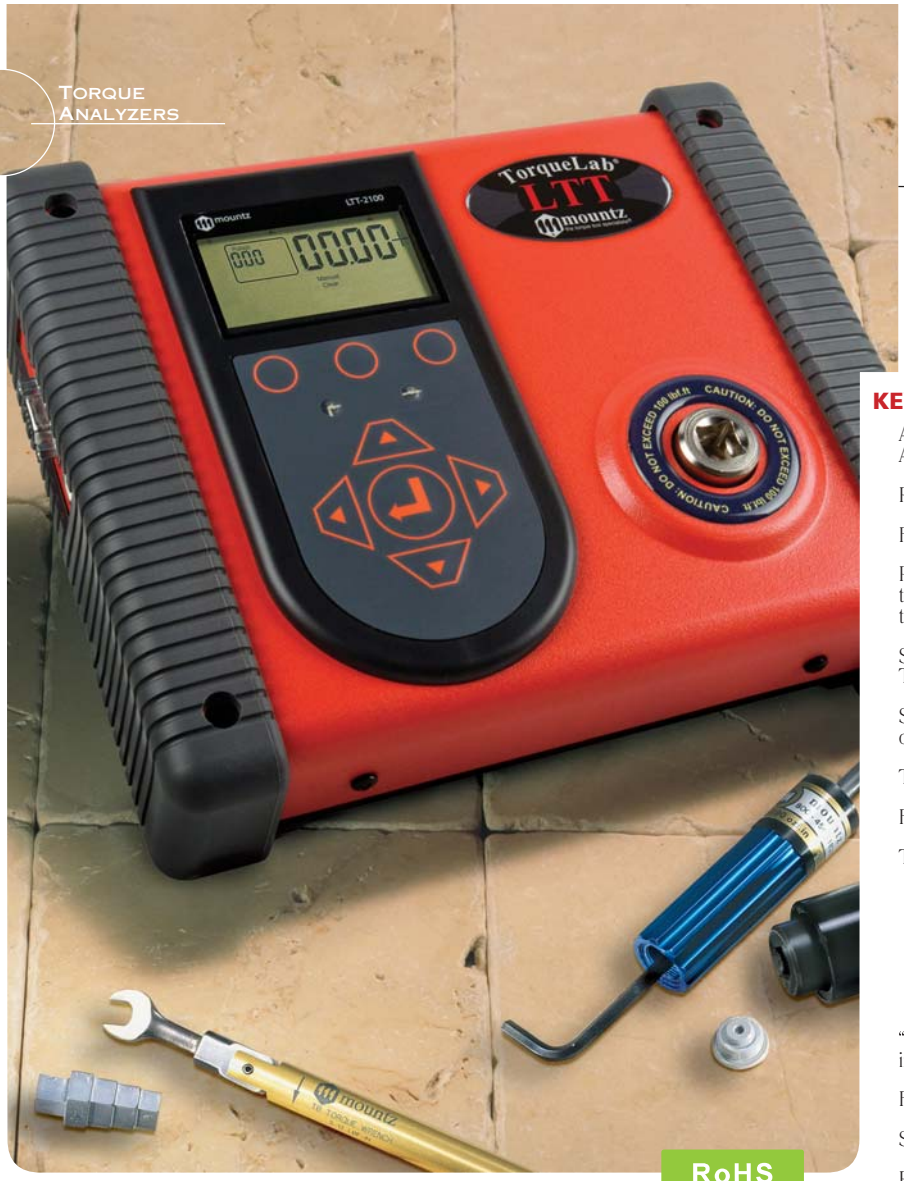
Provides consistent and reliable torque readings for use with power driven torque control tools.

SEE PAGE 01.16

CALIBRATION TEST EQUIPMENT

Calibrated Dead Weight and length are the official means by which Analyzers are traced to NIST, ISO etc.

SEE PAGE 01.14



TorqueLab® LTT Series

Torque, Angle & Force Analyzer with ARCII Technology

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Model	Item #	Torque Ranges American	S.I.	Metric	Drive Size	Wt.
LTT10i	**068400**	1 - 10 lbf.in	11.3 - 113 cN.m	1.2 - 11.5 kgf.cm	1/4" F/Sq	8 lbs.
LTT25i	**068401**	2.5 - 25 lbf.in	28.25 - 282.5 cN.m	2.9 - 28.8 kgf.cm	1/4" F/Sq	8 lbs.
LTT50i	**068402**	5 - 50 lbf.in	56.5 - 565 cN.m	5.8 - 57.6 kgf.cm	1/4" F/Sq	8 lbs.
LTT100i	**068403**	10 - 100 lbf.in	113 - 1130 cN.m	11.5 - 115 kgf.cm	1/4" F/Sq	8 lbs.
LTT250i	**068404**	25 - 250 lbf.in	282.5 - 2825 cN.m	28.8 - 288 kgf.cm	1/4" F/Sq	8 lbs.
LTT50F	**068405**	5 - 50 lbf.ft	6.8 - 67.8 N.m	0.7 - 6.9 kgf.m	3/8" F/Sq	8 lbs.
LTT100F	**068406**	10 - 100 lbf.ft	13.56 - 135.6 N.m	1.4 - 13.8 kgf.m	1/2" F/Sq	8 lbs.
LTT250F	**068407**	25 - 250 lbf.ft	33.9 - 339 N.m	3.5 - 34.5 kgf.m	1/2" F/Sq	8 lbs.

ACCESSORIES INCLUDED

Description	Item #
Universal Charger (100-240VAC)	**770300**
USB Cable	**770319**
Run Down Adapter	**See Pg. 01.16**
Mountz Software Progams	-
Case	**072605-2**
Battery Pack	**072506**

ACCESSORIES OPTIONAL

Description	Item #
Multiplexer	**072998**
Bar Code Reader	**072997**
Mounting Bracket (for LTT model 10i-50F)	**072608**
Mounting Bracket (for all LTT models)	**072606**

CABLE CHART

Torque Sensor	Item #
RTSX-A	**072000**
All BLRTSX models	**072001**
BMX	**072002**
MTX	**072003**
SDX	**072004**
RTSX	**072005**
ETX	**072006**

KEY FEATURES

Accuracy ± 0.5% of reading from 20% to 100% of full scale.
Accuracy ± 1% of reading from 10% to 20% of full scale.

Recommended for all hand screwdrivers, wrenches, or power tools.

Features a built-in transducer and can connect to an external torque sensor.

Provides "EZ-Plug & Play" with Mountz torque sensors. Features "ARCII" technology, an instant auto-recognition system of the sensors connected to the LTT.

Selection of six operation modes:
Track, Peak, First Peak, Audit, Spindle Audit, and Torque + Angle

Seven units of torque measurements:
ozf.in, lbf.in, lbf.ft, cN.m, N.m, kgf.m, kgf.cm

Two units of force measurement: lbf and kN

Features built-in Tool Tests operation.

Three PC Windows based software programs:
Mountz Torque Meter Interface Program
for sensor calibrations, meter calibration and tool tests.
Torque Meter Bootloader
for updating the LTT operating systems.
Excel Add-In
for Real-Time data collection into an Excel spreadsheet. It provides statistics calculations.

"Flash" memory allows upgrades to be done by the user in the field & internet through the USB port.

Five low-pass filters: 3000, 2000, 1500, 500, and 200Hz

Six-digit display and easy to read menu structure.

Real Time Clock for time stamping of readings.

USB interface to download readings to PC.

High Capacity Li-ion Batteries for long life (30 hours with standard torque sensors and 16 hours with brushless rotary sensors).

Can connect to most mv/v sensors and can store calibration data for up to 50 non-smart torque sensors.

The 5VDC capability allows unit to be used with a brushless rotary torque sensor for testing pulse tools and high RPM tools.

Torque and Angle data is displayed simultaneously when used with torque and angle sensors, up to 8000 RPM for angle measurement.

Stores a total of 5000 data points.

Real time graph of torque vs. time using associated PC Windows software.

Features Go / No Go LEDs that illuminate when high or low setting is achieved.

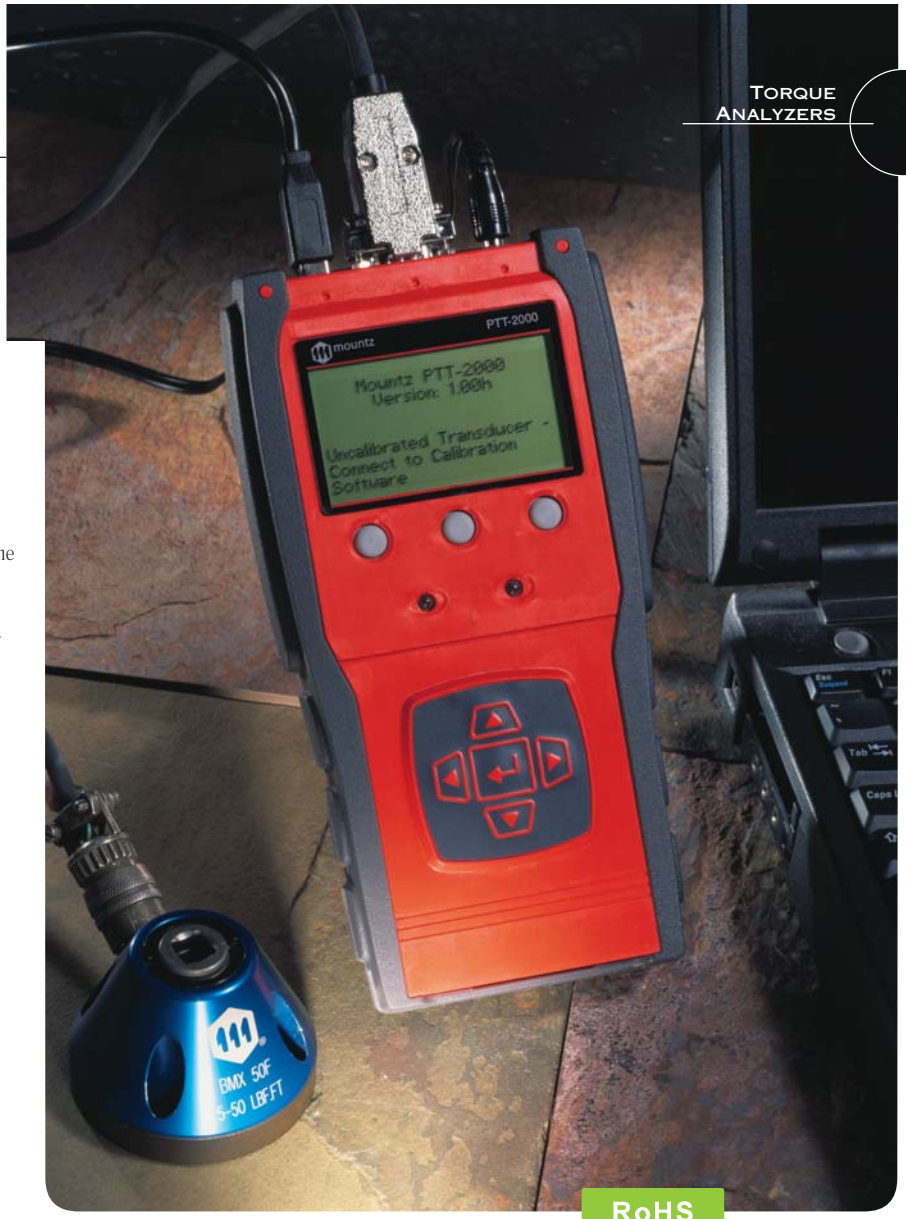
EZ PLUG & PLAY

CERTIFIED
Supplied with **Free** ISO 17025 Certification of Calibration.

NOTE!
Since a tester cannot always duplicate actual joint characteristics, the torque reading displayed on the LTT may vary from the actual torque that a tool will apply to a joint. When critical assemblies are involved, the torque output of the power tool being used should be verified on the actual assembly using a calibrated measuring torque tool.

TorqueMate® PTT Series

Torque, Angle & Force Analyzer with ARCII Technology



KEY FEATURES

System Accuracy ± 0.5% of reading from 20% to 100% of full scale.
System Accuracy ± 1% of reading from 10% to 20% of full scale.

Operates with Torque & Force sensors.

Recommended for all hand screwdrivers, wrenches or power tools.

Provides "EZ-Plug & Play" with Mountz torque sensors. Features "ARCII" technology, an instant auto-recognition system of the sensor connected to the PTT.

Selection of six/seven operation modes:
Track, Peak, First Peak, Audit, Bolt Audit*, Spindle Audit, Torque + Angle.
*The Bolt Audit Mode is an additional feature that is only available with PTT Bold Audit Model (**Item #072995**).

Seven units of torque measurements:
ozf.in, lbf.in, lbf.ft, cN.m, N.m, kgf.m, kgf.cm

Two units of force measurement: lbf and kN

Features built-in Tool Tests operation.

Three PC Windows based software programs:
Mountz Torque Meter Interface Program
for sensor calibrations, meter calibration, and tool tests.
Torque Meter Bootloader
for updating the PTT operating systems.
Excel Add-In
for Real-Time data collection into an Excel spreadsheet. It provides statistic calculations.

"Flash" memory allows upgrades to be done by the user in the field & internet through the USB port.

Five low-pass filters: 3000, 2000, 1500, 500, and 200Hz

Six-digit display and easy to read menu structure.

Real Time Clock for time stamping of readings.

USB interface to download readings to PC.

High Capacity Li-ion Batteries for long life (30 hours with standard torque sensors and 16 hours with brushless rotary sensors).

Can connect to most mv/v sensors and can store calibration data for up to 50 non-smart torque sensors.

The 5VDC capability allows unit to be used with a brushless rotary sensors for testing pulse tools and high RPM tools.

Torque and Angle data is displayed simultaneously when used with torque and angle sensors, up to 8000 RPM for angle measurement.

Stores a total of 5000 data points.

Real time graph of torque vs. time using associated PC Windows software.

Features Go / No Go LEDs that illuminate when high or low setting is achieved.

CERTIFIED
Supplied with **Free** ISO 17025 Certification of Calibration.

PLUG & PLAY

NOTE!
Since a tester cannot always duplicate actual joint characteristics, the torque reading displayed on the PTT may vary from the actual torque that a tool will apply to a joint. When critical assemblies are involved, the torque output of the power tool being used should be verified on the actual assembly using a calibrated measuring torque tool.

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PTT-2000 Item #072999

PTT-2000 Bolt Audit Model
(for HSD Multipliers) - Item #072995

ACCESSORIES INCLUDED

Description	Item #
Universal Charger (100-240VAC)	770300
USB Cable	770319
Mountz Software Progams	-
Case	072509
Battery Pack	072506

ACCESSORIES OPTIONAL

Description	Item #
Multiplexer	072998
Bar Code Reader	072997

CABLE CHART

Torque Sensor	Item #
RTSX-A	072000
All BLRTSX Models	072001
BMX	072002
MTX	072003
SDX	072004
RTSX	072005
ETX	072006

Tool Tests & Graphing

The PTT allows you to set up and create tool tests and save the readings so you can export the data to a PC for documentation. It is the ideal solution for organizing and storing test data for ISO and SPC documentation.

The ability to graph a dynamic rundown allows joint analysis. Great resource to evaluate, create or confirm a torque specification or tool being used in production.

Capture

Torque Analyzer

RoHS

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CAPTURE DISPLAY Item #020665

System accuracy ±0.5% of reading from 10-100% of full scale.

Enables calibration and analysis of hand and power torque tools.

Selection of three operation modes: Track, Peak & First Peak

Seven units of torque measurements: (ozf.in, lbf.in, lbf.ft, cN.m, N.m, kgf.m, kgf.cm).

Real time clock for time stamping of readings.

USB interface to download readings to PC.

Easy to use menu system.

Five-digit display.

High capacity Li-ion batteries for long life and universal charger (100-240 VAC).

Color display that features clear visual warnings for the operator:
Go / No Go and sensor overload.

Tool Database - stores up to 500 tools.

Reading database - stores up to 2000 readings.

NOTE!

Since a tester cannot always duplicate actual joint characteristics, the torque reading displayed on the Capture may vary from the actual torque that a tool will apply to a joint. When critical assemblies are involved, the torque output of the power tool being used should be verified on the actual assembly using a calibrated measuring torque tool.

CERTIFIED

Supplied with **Free** ISO 17025 Certification of Calibration.

CAPTURE MANAGER PC SOFTWARE Item #020666

The optional software extends the capability of the Capture Display as it manages and archives the saved torque readings.

Seamless transfer data results to Microsoft® Excel. The software allows for quick and easy access to the stored data.

Expands the storage capacity of the tool database and data readings, which can be uploaded and downloaded to Capture Display.

Ability to test and produce customized tool Calibration Certificates to ISO 6789.

CAPTURE TORQUE SENSORS

These torque sensors are used in conjunction with the Capture torque analyzer.

Various models that range from 1.8 lbf.in to 1,107 lbf.ft.

Flexible sensor can be mounted horizontally or vertically.

Quick set up when used with a Capture display due to the imbedded Quicktec technology, which passes all the sensor information to the display.

Model	Item #	Torque Ranges		H x W x D	Drive Size
		American	S.I.		
CS 2	**020667**	1.8 - 17.7 lbf.in	0.2 - 2 N.m	2-1/2" x 3-1/3" x 2-1/2"	1/4"
CS 10	**020668**	8.9 - 88.5 lbf.in	1 - 10 N.m	2-1/2" x 3-1/3" x 2-1/2"	1/4"
CS 50	**020669**	3.7 - 37 lbf.ft	5 - 50 N.m	2-1/2" x 3-1/3" x 2-1/2"	3/8"
CS 250	**020670**	18.5 - 184.5 lbf.ft	25 - 250 N.m	3-1/4" x 4-3/4" x 3-1/2"	1/2"
CS 1500	**020671**	110.7 - 1107 lbf.ft	150 - 1500 N.m	4" x 6-1/3" x 5-1/4"	1"

CABLE Item # 020672

For connecting CS torque sensors to Capture Display

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Dial Analyzers

Hand Tool Torque Analyzers

CERTIFIED
Supplied with **Free** ISO 17025 Certification of Calibration

KEY FEATURES

- Accuracy ± 2% of reading from 20% to 100% of full scale.
- Easy to read dual scale (Metric & American).
- Memory style master pointer retains maximum readings.
- Designed for all types of hand torque wrenches and screwdrivers.
- Bench mount style.
- Clockwise direction only (MTS models).
- Reversible drive adapters provide two drive options per model (MTS models).
- Robust and modern design includes angled dial for easy viewing (MTS models).
- Spindle lock eliminates the need to remove tool from drive during torque adjustment (MTS models).
- Input drive shock absorber protects from tool kick back (MTS models).
- Bi-directional & fitted with 1/4" Male hex drive (MTP model).
- Dial mirror eliminates parallex error. Uses pendulum effect to measure the applied torque (MTP model).

Model	Item #	Torque Ranges American	Torque Ranges S.I.
MTP 10	**020000**	0 - 14 ozf.in	0 - 10 cN.m
MTS 35	**020001**	10 - 50 ozf.in	7 - 35 cN.m
MTS 130	**020002**	36 - 180 ozf.in	26 - 130 cN.m
MTS 400	**020003**	7 - 36 lbf.in	0.8 - 4 N.m
MTS 1200	**020004**	24 - 120 lbf.in	2.4 - 12 N.m
MTS 2500	**020005**	44 - 220 lbf.in	5 - 25 N.m

Model	Graduation American	Graduation S.I.	Pointer	Weight lbs.	Weight kg.
MTP 10	1 ozf.in	0.5 cN.m	Single	2.16	0.98
MTS 35	0.5 ozf.in	0.5 cN.m	Memory	7.1	3.2
MTS 130	2 ozf.in	2 cN.m	Memory	7.1	3.2
MTS 400	0.5 lbf.in	0.05 N.m	Memory	7.1	3.2
MTS 1200	2 lbf.in	0.2 N.m	Memory	7.1	3.2
MTS 2500	5 lbf.in	0.5 N.m	Memory	7.1	3.2

REVERSIBLE ADAPTER 1/4" M/HEX & 1/4" F/SQ.

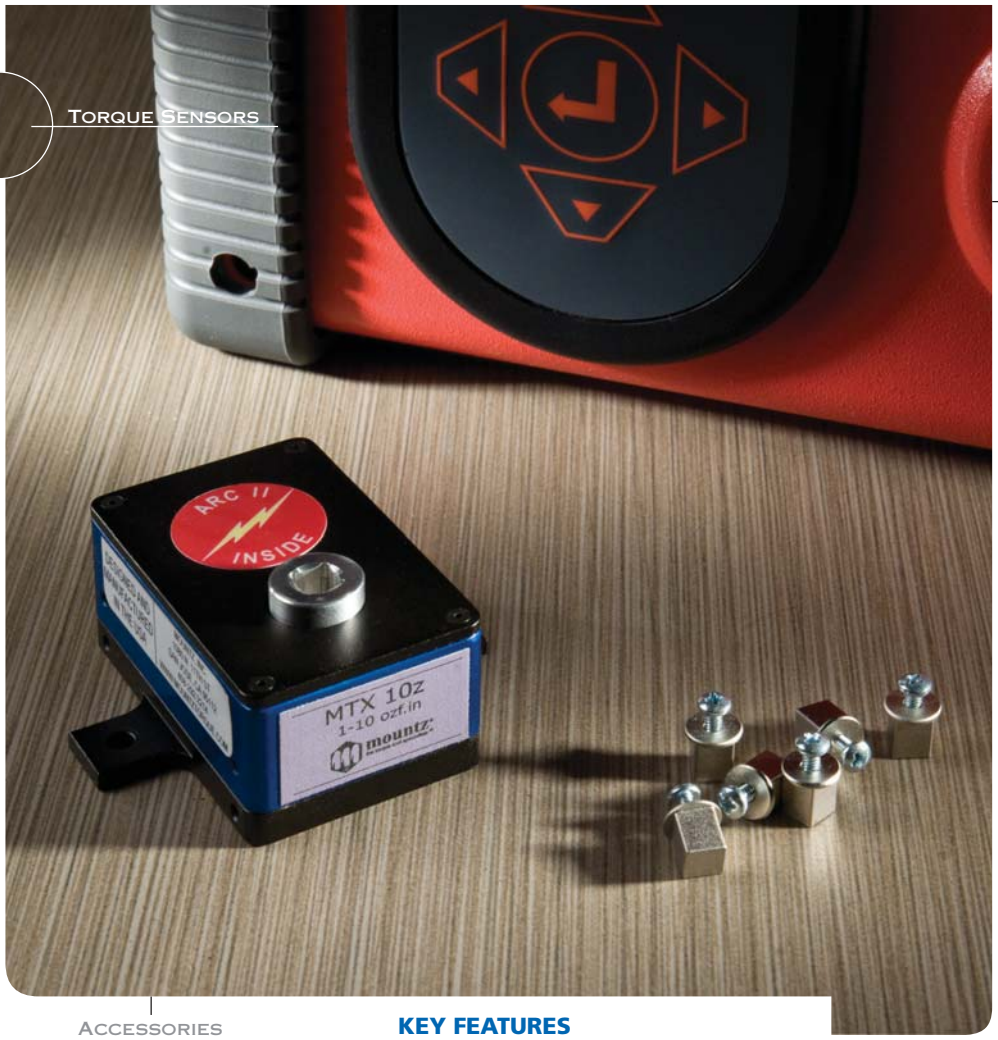
For models: MTS 35, 130, 400

REVERSIBLE ADAPTER 1/4" F/SQ. & 3/8" F/SQ.

For models: MTS 1200, 2500

Mountz Torque Conversion Calculator
Quickly convert torque measurement from one type of unit measurement to another.
Visit www.mountztorque.com/calculator

NOTE!
Do not use with electric or pneumatic tools.



MTX

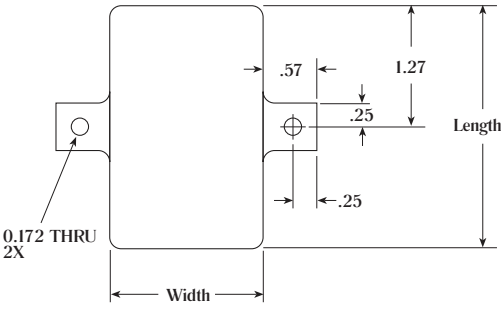
Low Torque Reaction Sensor with ARC II Technology

Model	Item #	Torque Ranges American	S.I.
MTX10z	**079007**	1 - 10 ozf.in	0.7 - 7.1 cN.m
MTX20z	**079008**	2 - 20 ozf.in	1.5 - 14 cN.m
MTX40z	**079009**	4 - 40 ozf.in	2.9 - 28.2 cN.m
MTX80z	**079010**	8 - 80 ozf.in	5.7 - 56.5 cN.m
MTX160z	**079011**	16 - 160 ozf.in	11.3 - 113 cN.m

DRIVE SIZE & DIMENSIONS

inches

Model	Drive Size	Length	Width	Height
MTX10z	1/4 Female Square	2.55	1.6	1
MTX20z	1/4 Female Square	2.55	1.6	1
MTX40z	1/4 Female Square	2.55	1.6	1
MTX80z	1/4 Female Square	2.55	1.6	1
MTX160z	1/4 Female Square	2.55	1.6	1



ACCESSORIES

RUN DOWN ADAPTERS

Provides consistent and reliable torque readings for use with power driven torque control tools.

SEE PAGE 01.16

LTT

Offers "EZ-Plug & Play" with instant auto recognition with Mountz "ARCII" torque sensors.

SEE PAGE 01.3

KEY FEATURES

Accuracy ± 0.25% of full scale.*

For calibrating low torque hand screwdrivers, wrenches, and power tools.

The low profile design makes it ideal for calibrating robotic drivers on the assembly line.

Various models that range from 1-160 ozf.in.

Features "ARCII" technology, an instant auto-recognition system of the MTX connected to the FTA-100, PTT or LTT.

Mountable.

1/4" female square drive.

Bi-directional.

NOTE!

*This is the "stand alone" accuracy for the torque sensor. When the torque sensor is coupled with a Mountz torque analyzer, there is a system accuracy. Review the system accuracy listed with each torque analyzer.

CERTIFIED

Supplied with **Free** ISO 17025 Certification of Calibration.

WARNING!

Always use a run down adapter when testing power tools.

PLUG & PLAY

SPECIFICATIONS

Rated Output: 2mv/v Nominal
Safe Overload: 125% of Rated Output
Bridge Resistance: 350 Ohms Nominal
Nonlinearity: ± 0.1% of Rated Output

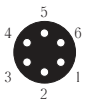
MTX CABLE

Item #072003

For connecting to FTA-100, PTT or LTT

CONNECTION

1 = Signal (+)
2 = Signal (-)
3 = Excitation (-)
4 = Excitation (+)
5 = Ground
6 = Data



MOUNTING BRACKET

Item #062109

Model: MB-1
Dimensions: 4" x 3" x 4"

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BMX

Torque Reaction Sensor with ARCII Technology

Model	Item #	Torque Ranges American	Torque Ranges S.I.
BMX20z	**077000**	2 - 20 ozf.in	1.5 - 14 cN.m
BMX40z	**077001**	4 - 40 ozf.in	2.9 - 28.2 cN.m
BMX80z	**077002**	8 - 80 ozf.in	5.7 - 56.5 cN.m
BMX10i	**077003**	1 - 10 lbf.in	11.3 - 113 cN.m
BMX25i	**077004**	2.5 - 25 lbf.in	28 - 282.5 cN.m
BMX50i	**077005**	5 - 50 lbf.in	56.5 - 565 cN.m
BMX100i	**077006**	10 - 100 lbf.in	113 - 1130 cN.m
BMX250i	**077007**	25 - 250 lbf.in	282.5 - 2825 cN.m
BMX500i	**077008**	50 - 500 lbf.in	565 - 5650 cN.m
BMX750i	**077009**	75 - 750 lbf.in	847 - 8473 cN.m
BMX50F	**077010**	5 - 50 lbf.ft	6.8 - 67.8 N.m
BMX100F	**077011**	10 - 100 lbf.ft	13.6 - 135.6 N.m
BMX250F	**077012**	25 - 250 lbf.ft	33.9 - 339 N.m
BMX500F	**077013**	50 - 500 lbf.ft	67.8 - 678 N.m
BMX1000F	**077014**	100 - 1000 lbf.ft	135.6 - 1355 N.m
BMX2500F	**077015**	250 - 2500 lbf.ft	339 - 3389 N.m
BMX5000F	**077016**	500 - 5000 lbf.ft	678 - 6779 N.m
BMX10000F	**077017**	1000 - 10000 lbf.ft	1335 - 13558 N.m
BMX20000F	**077018**	2000 - 20000 lbf.ft	2711 - 27116 N.m

SPECIFICATIONS

Rated Output: 2mv/v Nominal

Bridge Resistance: 350 Ohms Nominal

Safe Overload: 125% of Rated Output

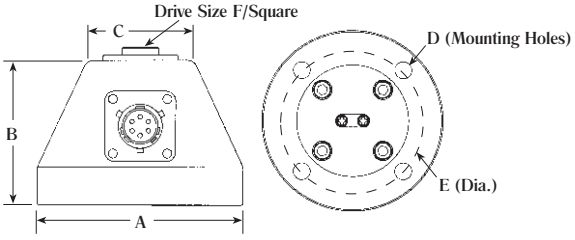
Nonlinearity: ± 0.1% of Rated Output

DIMENSIONS

inches

Model	A	B	C	D	E	Drive Size
BMX20z	2.75	2.1	1.7	0.25	2.175	1/4
BMX40z	2.75	2.1	1.7	0.25	2.175	1/4
BMX80z	2.75	2.1	1.7	0.25	2.175	1/4
BMX10i	2.75	2.1	1.7	0.25	2.175	1/4
BMX25i	2.75	2.1	1.7	0.25	2.175	1/4
BMX50i	2.75	2.1	1.7	0.25	2.175	1/4
BMX100i	2.75	2.1	1.7	0.25	2.175	1/4
BMX250i	2.75	2.1	1.7	0.25	2.175	1/4
BMX500i	2.75	2.1	1.7	0.25	2.175	3/8
BMX750i	2.75	2.1	1.75	0.25	2.175	3/8
BMX50F	2.75	2.1	1.75	0.25	2.175	3/8
BMX100F	4	2.75	2.25	0.413	3	1/2
BMX250F	4	2.75	2.25	0.413	3	1/2
BMX500F	4	3	2.4	0.413	3	3/4
BMX1000F	4	3.75	2.38	0.406	3	1
BMX2500F	6	4.65	3.88	0.531	4.75	1 1/2
BMX5000F	6	4.65	3.88	0.531	4.75	1 1/2
BMX10000F	10.5	10.5	6.5	0.781*	8.875	2 1/2
BMX20000F	10.5	10.5	6.5	0.781*	8.875	2 1/2

*Models have 8 mounting holes.



KEY FEATURES

Accuracy ± 0.25% of full scale*
Accuracy ± 0.5% of full scale (BMX10000F, 20000F)*

For calibrating hand screwdrivers, wrenches, and power tools.

Various models that range from 2 ozf.in to 20000 lbf.ft.

Features "ARCII" technology, an instant auto-recognition system of the BMX connected to the FTA-100, LTT and PTT.

Mountable.

Female square drive.

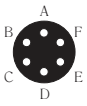
Bi-directional.

BMX CABLES

Item #072002
For connecting to FTA-100, LTT or PTT

CONNECTION

A = Excitation (+)
B = Excitation (-)
C = Signal (-)
D = Signal (+)
E = N/A
F = N/A



NOTE!

*This is the "stand alone" accuracy for the torque sensor. When the sensor is coupled with a Mountz torque analyzer, there is a system accuracy. Review the system accuracy listed with each torque analyzer.

PLUG & PLAY

CERTIFIED

Supplied with **Free** ISO 17025 Certification of Calibration.

WARNING!

Always use a run down adapter when testing power tools.
Not recommended for impact wrenches.

CONNECT WITH A:

LTT

Offers "EZ-Plug & Play" with instant auto recognition with Mountz "ARCII" transducers.

SEE PAGE 01.3

MOUNTING BRACKET

SEE PAGE 01.17

RTSX

Rotary Torque Sensor with ARCII Technology

Model	Item #	Torque Ranges American	Torque Ranges S.I.
RTSX10i-H	**170200**	1 - 10 lbf.in	11.3 - 113 cN.m
RTSX10i	**170201**	1 - 10 lbf.in	11.3 - 113 cN.m
RTSX50i-H	**170202**	5 - 50 lbf.in	56.5 - 565 cN.m
RTSX50i	**170203**	5 - 50 lbf.in	56.5 - 565 cN.m
RTSX100i-H	**170204**	10 - 100 lbf.in	113 - 1130 cN.m
RTSX100i	**170205**	10 - 100 lbf.in	113 - 1130 cN.m
RTSX200i-H	**170206**	20 - 200 lbf.in	226 - 2260 cN.m
RTSX200i	**170207**	20 - 200 lbf.in	226 - 2260 cN.m
RTSX50F	**170208**	5 - 50 lbf.ft	6.8 - 67.8 N.m
RTSX100F	**170209**	10 - 100 lbf.ft	13.6 - 135.6 N.m
RTSX400F	**170210**	40 - 400 lbf.ft	54.2 - 542.4 N.m
RTSX738F	**170211**	74 - 738 lbf.ft	100 - 1000 N.m
RTSX1500F	**170212**	150 - 1500 lbf.ft	203.3 - 2033 N.m

KEY FEATURES

Accuracy ± 0.25% of full scale*.

Use with most hand tools, power tools, or rotational measurement applications.

Connects between the power tool and the joint. Monitors actual torque being applied from the driver to the fastener.

Features "ARCII" technology, an instant auto-recognition system of the RTSX connected to the FTA-100, PTT or LTT.

Bi-directional.

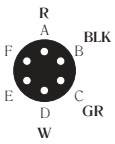
RTSX CABLES

Item #072005
For connecting to FTA-100, PTT or LTT

Item #072000
For connecting FTA-100, PTT or LTT to RTSX1500F

CONNECTION

A = Excitation (+)
B = Excitation (-)
C = Output (-)
D = Output (+)
E = Shield
F = 100% control (full scale)



CONNECT WITH A:

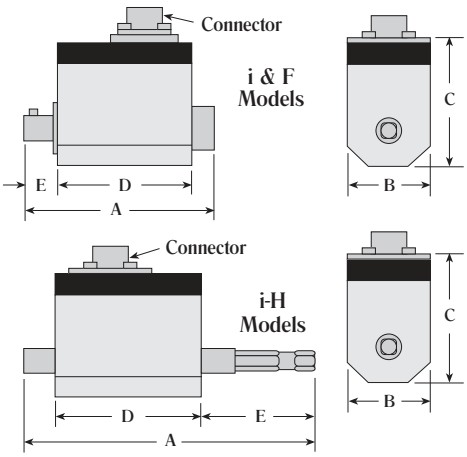
ANALYZER
FTA-100 (shown)
SEE PAGE 01.1

CERTIFIED
Supplied with **Free** ISO 17025 Certification of Calibration.

WARNING!
Not recommended for impact wrenches.

PLUG & PLAY

NOTE!
*This is the "stand alone" accuracy for the torque sensor. When the sensor is coupled with a Mountz torque analyzer, there is a system accuracy. Review the system accuracy listed with each torque analyzer.



DRIVE SIZE

inches

Model	Input	Output
RTSX10i-H	1/4 Male/Hex	1/4 Female/Hex
RTSX10i	1/4 Female/Square	1/4 Male/Square
RTSX50i-H	1/4 Male/Hex	1/4 Female/Hex
RTSX50i	1/4 Female/Square	1/4 Male/Square
RTSX100i-H	1/4 Male/Hex	1/4 Female/Hex
RTSX100i	1/4 Female/Square	1/4 Male/Square
RTSX200i-H	1/4 Male/Hex	1/4 Female/Hex
RTSX200i	3/8 Female/Square	3/8 Male/Square
RTSX50F	3/8 Female/Square	3/8 Male/Square
RTSX100F	1/2 Female/Square	1/2 Male/Square
RTSX400F	3/4 Female/Square	3/4 Male/Square
RTSX738F	1 Female/Square	1 Male/Square
RTSX1500F	1 1/2 Female/Square	1 1/2 Male Square

SPECIFICATIONS

Output at Rated Capacity: </= 6 Nm [53 lbf.in] rated torque 1 mV/V > 6 Nm [53 lbf.in] rated torque 2 mV/V
Interchangeability: Matched for mv/v and shunt calibration + 0.3% FS
Nonlinearity: + 0.2% FS
Excitation Recommended: 10V DC or AC RMS
Bridge Resistance: 350 Ohms
Usable Temperature Range: 41 - 122 °F
Mating Connector: Bendix PT06A-10-65 (SR)
Safe Overload: 125% of Rated Output

DIMENSIONS

mm

Model	A	B	C	D	E
RTSX10i-H	101	28	52	58	28
RTSX10i	75	28	52	58	8.5
RTSX50i-H	101	28	52	58	28
RTSX50i	75	28	52	58	8.5
RTSX100i-H	101	28	52	58	28
RTSX100i	75	28	52	58	8.5
RTSX200i-H	101	28	52	58	28
RTSX200i	74.5	38	58	44	18
RTSX50F	74.5	38	58	44	18
RTSX100F	79	38	58	44	22.5
RTSX400F	97	58	76	50	30
RTSX738F	112	73	90	57	34.5
RTSX1500F	165	110	126	87	44

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RTSX-A

Rotary Torque & Angle Sensor with ARCII Technology

Model	Item #	Torque Ranges American	S.I.
RTSX10i-HA	**170213**	1 - 10 lbf.in	11.3 - 113 cN.m
RTSX10i-A	**170214**	1 - 10 lbf.in	11.3 - 113 cN.m
RTSX50i-HA	**170215**	5 - 50 lbf.in	56.5 - 565 cN.m
RTSX50i-A	**170216**	5 - 50 lbf.in	56.5 - 565 cN.m
RTSX100i-HA	**170217**	10 -100 lbf.in	113 - 1130 cN.m
RTSX100i-A	**170218**	10 - 100 lbf.in	113 - 1130 cN.m
RTSX200i-HA	**170219**	20 - 200 lbf.in	226 - 2260 cN.m
RTSX200i-A	**170220**	20 - 200 lbf.in	226 - 2260 cN.m
RTSX50F-A	**170221**	5 - 50 lbf.ft	6.8 - 67.8 N.m
RTSX100F-A	**170222**	10 - 100 lbf.ft	13.6 - 135.6 N.m
RTSX400F-A	**170223**	40 - 400 lbf.ft	54.2 - 542.4 N.m
RTSX800F-A	**170224**	80 - 800 lbf.ft	108.4 - 1084 N.m
RTSX1500F-A	**170282**	150 - 1500 lbf.ft	203.3 - 2033N.m

SPECIFICATIONS

Output at Rated Capacity: </= 6 Nm [53 lbf.in] rated torque 1 mV/V
> 6 Nm [53 lbf.in] rated torque 2 mV/V

Interchangeability: Matched for mv/v and Shunt Calibration + 0.3% FS

Nonlinearity: + 0.2% FS

Excitation Recommended: 12V DC or AC RMS

Bridge Resistance: 350 Ohms

Usable Temperature Range: 41 - 122°F

Mating Connector: Bendix PT06A-12

Safe Overload: 125% of Rated Output

inches DRIVE SIZE

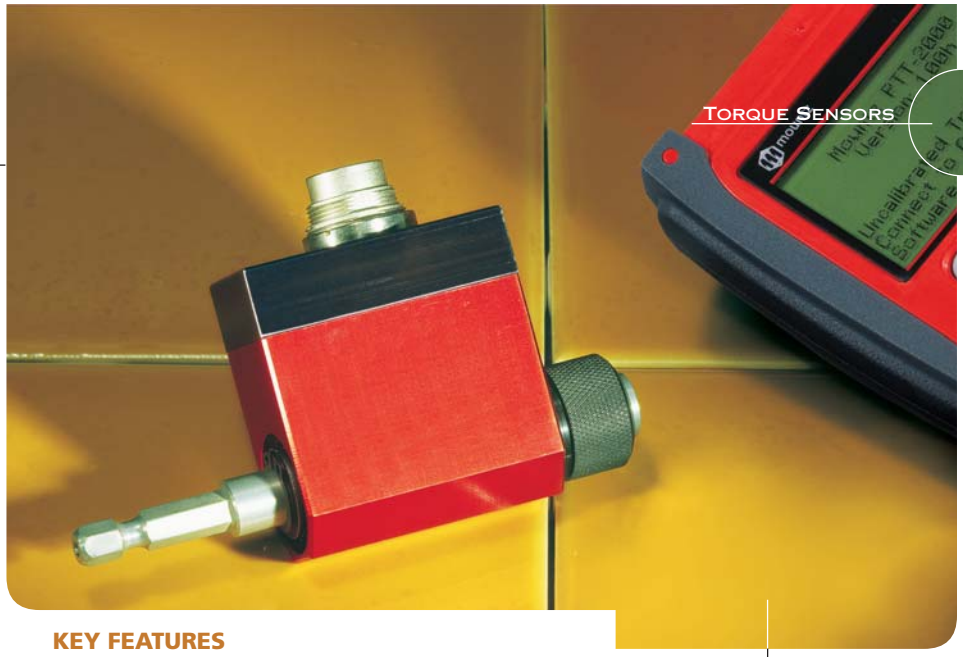
Model	Input	Output
RTSX10i-HA	1/4 Male/Hex	1/4 Female/Hex
RTSX10i-A	1/4 Female/Square	1/4 Male/Square
RTSX50i-HA	1/4 Male/Hex	1/4 Female/Hex
RTSX50i-A	1/4 Female/Square	1/4 Male/Square
RTSX100i-HA	1/4 Male/Hex	1/4 Female/Hex
RTSX100i-A	1/4 Female/Square	1/4 Male/Square
RTSX200i-HA	1/4 Male/Hex	1/4 Female/Hex
RTSX200i-A	1/4 Female/Square	1/4 Male/Square
RTSX50F-A	3/8 Female/Square	3/8 Male/Square
RTSX100F-A	1/2 Female/Square	1/2 Male/Square
RTSX400F-A	3/4 Female/Square	3/4 Male/Square
RTSX800F-A	1 Female/Square	1 Male/Square
RTSX1500F-A	1 1/2 Female/Square	1 1/2 Male/Square

CERTIFIED
Supplied with **Free** ISO 17025 Certification of Calibration.

WARNING!
Not recommended for impact wrenches.

PLUG & PLAY

NOTE!
*This is the "stand alone" accuracy for the torque sensor. When the sensor is coupled with a Mountz torque analyzer, there is a system accuracy. Review the system accuracy listed with each torque analyzer.



KEY FEATURES

Accuracy ± 0.25% of full scale*.

Ability to measure the rotation angle of a fastener. Joint rate and breakaway torque can be measured too.

Angle Output: 2 channel quadrature, 360 pulses per rotation.

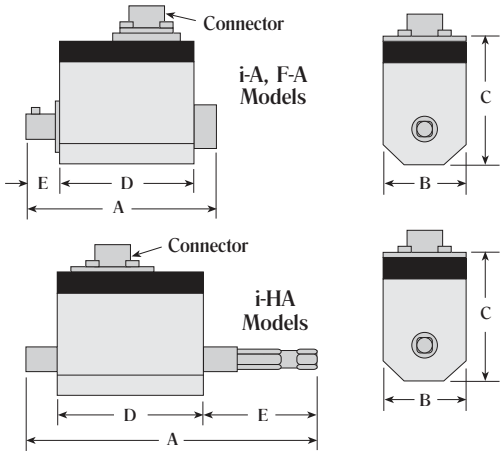
Bi-directional.

For use with most power tools or rotational measurement applications.

Features "ARCII" technology, an instant auto-recognition system of the RTSX-A connected to the PTT or LTT.

mm DIMENSIONS

Model	A	B	C	D	E
RTSX10i-HA	101	28	52	58	28
RTSX10i-A	75	28	52	58	8.5
RTSX50i-HA	101	28	52	58	28
RTSX50i-A	75	28	52	58	8.5
RTSX100i-HA	101	28	52	58	28
RTSX100i-A	75	28	52	58	8.5
RTSX200i-HA	101	28	52	58	28
RTSX200i-A	75	28	52	58	8.5
RTSX50F-A	101	38	58	59	21.5
RTSX100F-A	106	38	58	59	26
RTSX400F-A	135	58	76	64	40
RTSX800F-A	177	73	90	73	57.5
RTSX1500F-A	165	110	126	87	39



CONNECT WITH A:

PTT

Ability to document and save torque readings. Ideal for SPC testing and ISO testing.
SEE PAGE 01.4

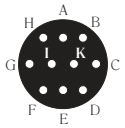
RTSX-A CABLE

Item #072000
For connecting to PTT or LTT

CONNECTION

Torque Output
A = Bridge Voltage (+)
B = Bridge Voltage (-)
C = Measured Signal (+)
D = Measured Signal (-)
E = Ground (Angle Voltage)
F = +5V (Angle Voltage)

Angle Output
G = Channel A (Load)
H = Channel B (Lag)
I = N/A
K = 100% Control (Full Scale)



BLRTSX-A

Brushless Rotary Torque & Angle Sensor with ARCII Technology

Model	Item #	Torque Ranges American	Torque Ranges S.I.
BLRTSX28z-HA	**170283**	10 - 28 ozf.in	7 - 20 cN.m
BLRTSX70z-HA	**170246**	10 - 70 ozf.in	7 - 49 cN.m
BLRTSX140z-HA	**170247**	25 - 140 ozf.in	18 - 98.8 cN.m
BLRTSX18i-HA	**170248**	2 - 18 lbf.in	22.5 - 203 cN.m
BLRTSX50i-HA	**170249**	5 - 50 lbf.in	56.5 - 565 cN.m
BLRTSX100i-HA	**170250**	10 - 100 lbf.in	113 - 1130 cN.m
BLRTSX100i-A	**170251**	10 - 100 lbf.in	113 - 1130 cN.m
BLRTSX160i-HA	**170252**	16 - 160 lbf.in	180 - 1807 cN.m
BLRTSX160i-A	**170253**	16 - 160 lbf.in	180 - 1807 cN.m
BLRTSX36F-A	**170254**	4 - 36 lbf.ft	5 - 50 N.m
BLRTSX73F-A	**170255**	8 - 73 lbf.ft	10 - 100 N.m
BLRTSX118F-A	**170256**	12 - 118 lbf.ft	16 - 160 N.m
BLRTSX184F-A	**170257**	19 - 184 lbf.ft	25 - 250 N.m
BLRTSX368F-A	**170258**	37 - 368 lbf.ft	50 - 500 N.m
BLRTSX738F-A	**170259**	74 - 738 lbf.ft	100 - 1000 N.m

KEY FEATURES

Accuracy ± 0.2% of full scale*.

Non-contact signal transfer and maintenance free.

Angle Output: 2-channel quadrature, 360 pulses per rotation.

Ability to measure the rotation angle of a fastener. Joint rate & breakaway torque can be measured too.

The common "brush bounce" that plagues the accuracy testing of pulse tools is cured when using a brushless rotary transducer.

Compact design & bi-directional.

For use with most power tools, high RPM tools, or rotational measurement applications.

Features "ARCII" technology, an instant auto-recognition system of the BLRTSX-A connected to the PTT or LTT.

CERTIFIED

Supplied with **Free** ISO 17025 Certification of Calibration.

PLUG & PLAY

NOTE!

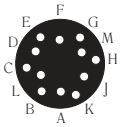
*This is the "stand alone" accuracy for the torque sensor. When the sensor is coupled with a Mountz torque analyzer, there is a system accuracy. Review the system accuracy listed with each torque analyzer.

BLRTSX-A CABLE

For connecting to PTT or LTT.
Item #072001

CONNECTION

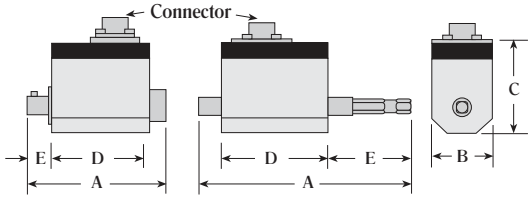
A = Ground (Shunt Calibration)
B = Angle 1 Speed
C = Torque Output
D = Ground (Torque Output)
E = Ground (Supply)
F = Supply, 11-26 VDC, 1 W
G = Angle 2
(90° running after Angle 1)
H = +5V (Angle Voltage)
K = Shunt Calibration
M = Shield
J & L = N/A



SPECIFICATIONS

Rated Output: ± 5VDC ± 0.2% FS
Excitation Recommended: 11VDC to 26VDC (pole secure)
Nonlinearity: ± 0.2% FS
Usable Temperature Range 41 to 122°F
Mating Connector: Tuchel Series 581 (98-2030-09-12)
Safe Overload: 150% of Rated Output

Model	Drive Size (inches) Input	Drive Size (inches) Output	Dimensions (mm) A	B	C	D	E
BLRTSX28z-HA	1/4 M/Hex	1/4 F/Hex	101	28	52	58	28
BLRTSX70z-HA	1/4 M/Hex	1/4 F/Hex	101	28	52	58	28
BLRTSX140z-HA	1/4 M/Hex	1/4 F/Hex	101	28	52	58	28
BLRTSX18i-HA	1/4 M/Hex	1/4 F/Hex	101	28	52	58	28
BLRTSX50i-HA	1/4 M/Hex	1/4 F/Hex	101	28	52	58	28
BLRTSX100i-HA	1/4 M/Hex	1/4 F/Hex	101	28	52	58	28
BLRTSX100i-A	1/4 F/Sq	1/4 M/Sq	75	28	52	58	8.5
BLRTSX160i-HA	1/4 M/Hex	1/4 F/Hex	101	28	52	58	28
BLRTSX160i-A	1/4 F/Sq	1/4 M/Sq	75	28	52	58	8.5
BLRTSX36F-A	3/8 F/Sq	3/8 M/Sq	101	38	58	59	21.5
BLRTSX73F-A	1/2 F/Sq	1/2 M/Sq	106	38	58	59	26
BLRTSX118F-A	1/2 F/Sq	1/2 M/Sq	106	38	58	59	26
BLRTSX184F-A	3/4 F/Sq	3/4 M/Sq	135	58	76	64	40
BLRTSX368F-A	3/4 F/Sq	3/4 M/Sq	135	58	76	64	40
BLRTSX738F-A	1 F/Sq	1 M/Sq	177	73	90	73	57.5



i-A & FA Models z-HA, i-HA Models

Threads for mounting M4, 6mm depth.

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BLRTSX

Brushless Rotary Torque Sensor with ARC II Technology

Model	Item #	Torque Ranges American	S.I.
BLRTSX28z-H	**170225**	10 - 28 ozf.in	7 - 20 cN.m
BLRTSX70z-H	**170226**	10 - 70 ozf.in	7 - 49 cN.m
BLRTSX140z-H	**170227**	25 - 140 ozf.in	18 - 98.8 cN.m
BLRTSX18i-H	**170228**	2 - 18 lbf.in	22.5 - 203 cN.m
BLRTSX50i-H	**170229**	5 - 50 lbf.in	56.5 - 565 cN.m
BLRTSX50i	**170230**	5 - 50 lbf.in	56.5 - 565 cN.m
BLRTSX100i-H	**170231**	10 - 100 lbf.in	113 - 1130 cN.m
BLRTSX100i	**170232**	10 - 100 lbf.in	113 - 1130 cN.m
BLRTSX160i-H	**170233**	16 - 160 lbf.in	180 - 1807 cN.m
BLRTSX160i	**170234**	16 - 160 lbf.in	180 - 1807 cN.m
BLRTSX18F	**170235**	2 - 18 lbf.ft	2.5 - 25 N.m
BLRTSX36F	**170236**	4 - 36 lbf.ft	5 - 50 N.m
BLRTSX73F	**170237**	8 - 73 lbf.ft	10 - 100 N.m
BLRTSX118F	**170238**	12 - 118 lbf.ft	16 - 160 N.m
BLRTSX184F	**170239**	19 - 184 lbf.ft	25 - 250 N.m
BLRTSX368F	**170240**	37 - 368 lbf.ft	50 - 500 N.m
BLRTSX738F	**170241**	74 - 738 lbf.ft	100 - 1000 N.m

inches DRIVE SIZE

Model	Input	Output
BLRTSX28z-H	1/4 Male/Hex	1/4 Female/Hex
BLRTSX70z-H	1/4 Male/Hex	1/4 Female/Hex
BLRTSX140z-H	1/4 Male/Hex	1/4 Female/Hex
BLRTSX18i-H	1/4 Male/Hex	1/4 Female/Hex
BLRTSX50i-H	1/4 Male/Hex	1/4 Female/Hex
BLRTSX50i	1/4 Female/Square	1/4 Male/Square
BLRTSX100i-H	1/4 Male/Hex	1/4 Female/Hex
BLRTSX100i	1/4 Female/Square	1/4 Male/Square
BLRTSX160i-H	1/4 Male/Hex	1/4 Female/Hex
BLRTSX160i	1/4 Female/Square	1/4 Male/Square
BLRTSX18F	3/8 Female/Square	3/8 Male/Square
BLRTSX36F	3/8 Female/Square	3/8 Male/Square
BLRTSX73F	1/2 Female/Square	1/2 Male/Square
BLRTSX118F	1/2 Female/Square	1/2 Male/Square
BLRTSX184F	3/4 Female/Square	3/4 Male/Square
BLRTSX368F	3/4 Female/Square	3/4 Male/Square
BLRTSX738F	1 Female/Square	1 Male/Square

CERTIFIED

Supplied with **Free** ISO 17025 Certification of Calibration.

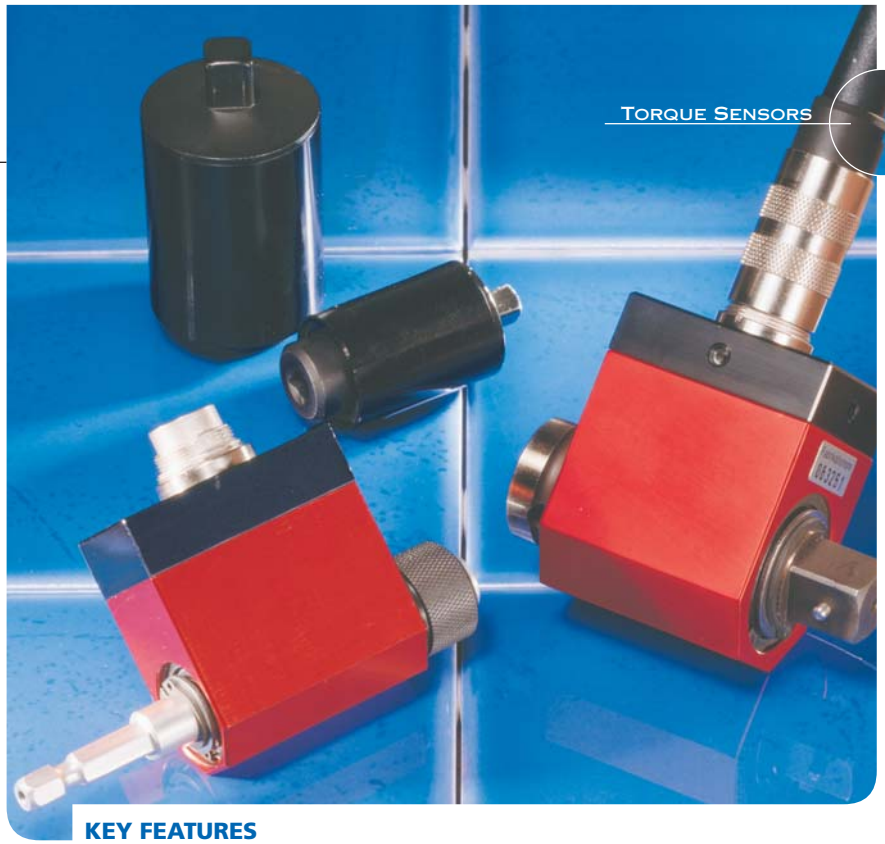
PLUG & PLAY

NOTE!

*This is the "stand alone" accuracy for the torque sensor. When the sensor is coupled with a Mountz torque analyzer, there is a system accuracy. Review the system accuracy listed with each torque analyzer.

SPECIFICATIONS

- Rated Output: ± 5VDC ± 0.2% FS
- Excitation Recommended: 11VDC to 26VDC (pole secure)
- Nonlinearity: ± 0.2% FS
- Usable Temperature Range 41 - 122°F
- Mating Connector: Tuchel Series 581 (98-2030-09-12)
- Safe Overload: 150% of Rated Output



KEY FEATURES

Accuracy ± 0.2% of full scale*.

Non-contact signal transfer and maintenance free.

The common "brush bounce" that plagues the accuracy testing of pulse tools is cured when using a BLRTSX.

Bi-directional.

Compact design.

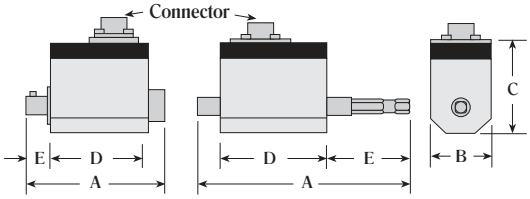
For use with most power tools, high RPM tools, or rotational measurement applications.

Features "ARCII" technology, an instant auto-recognition system of the BLRTSX connected to the PTT or LTT.

mm DIMENSIONS

Model	A	B	C	D	E
BLRTSX28z-H	101	28	52	58	28
BLRTSX70z-H	101	28	52	58	28
BLRTSX140z-H	101	28	52	58	28
BLRTSX18i-H	101	28	52	58	28
BLRTSX50i-H	101	28	52	58	28
BLRTSX50i	75	28	52	58	8.5
BLRTSX100i-H	101	28	52	58	28
BLRTSX100i	75	28	52	58	8.5
BLRTSX160i-H	101	28	52	58	28
BLRTSX160i	75	28	52	58	8.5
BLRTSX18F	74.5	38	58	44	18
BLRTSX36F	74.5	38	58	44	18
BLRTSX73F	79	38	58	44	22.5
BLRTSX118F	79	38	58	44	22.5
BLRTSX184F	97	58	76	50	30
BLRTSX368F	97	58	76	50	30
BLRTSX738F	112	73	90	57	34.5

i & F Models **z-H, i-H Models**

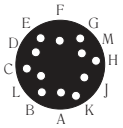


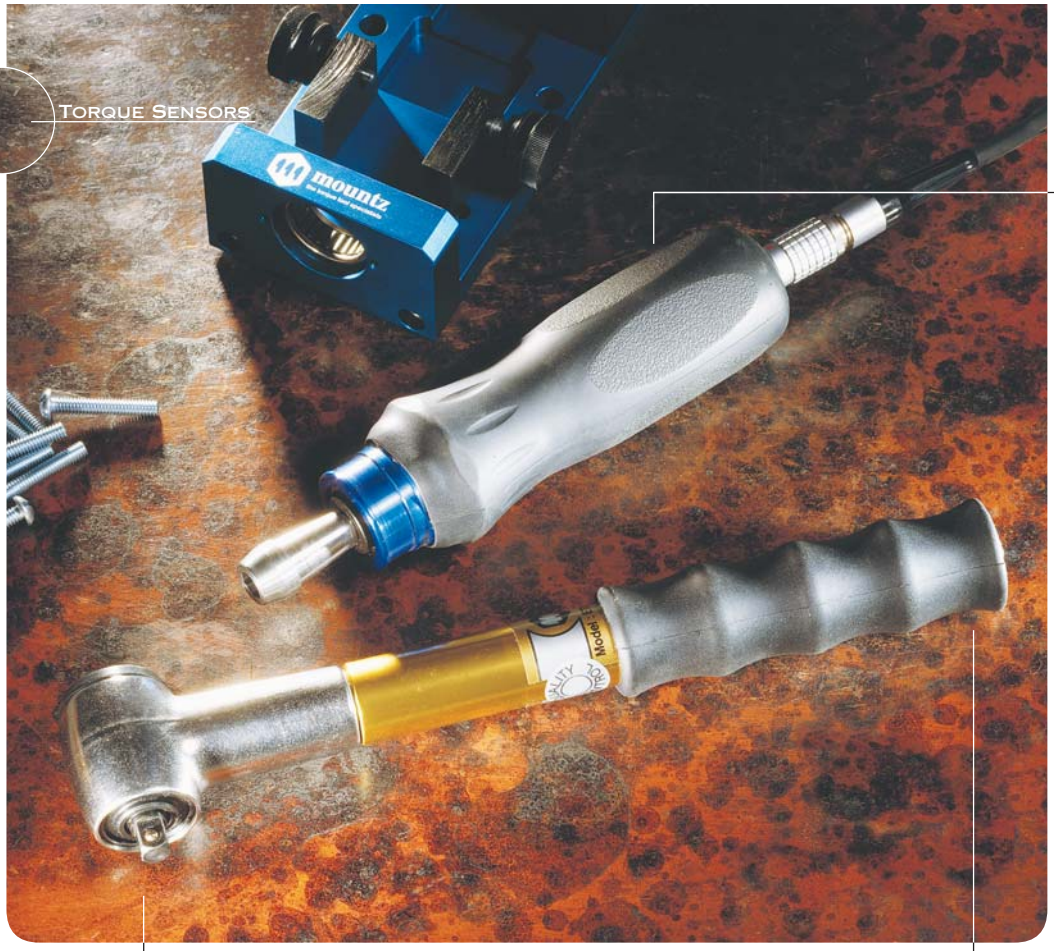
BLRTSX CABLE

Item #072001
For connecting to PTT or LTT

CONNECTION

A = Ground (Shunt Calibration)
C = Torque Output
D = Ground (Torque Output)
E = Ground (Supply)
F = Supply, 11-26 VDC, 1 W
K = Shunt Calibration
M = Shield
B/G/H/J/L = N/A





SDX

Torque Screwdriver Sensor with ARCII Technology

KEY FEATURES - SDX

Accuracy ± 0.25% of full scale*.

Torque sensor for auditing or tightening fasteners to a specified torque when mated with a torque analyzer.

Ergonomic rubber grip and stainless steel Female/Hex bit holder.

Features "ARCII" technology, an instant auto-recognition system of the SDX connected to the FTA-100, PTT or LTT.

Connect to a torque analyzer to monitor, test or audit a fastener.

Safe Overload: 125% of Rated Output.

Model	Item #	Torque Ranges American	Torque Ranges S.I.
SDX10i	**078000**	1 - 10 lbf.in	11.3 - 113 cN.m
SDX50i	**078001**	5 - 50 lbf.in	56.5 - 565 cN.m

Model	Drive Size	Length	Width	Weight
SDX10i	1/4" Female/Hex	6"	1 1/2"	0.5 lbs.
SDX50i	1/4" Female/Hex	6"	1 1/2"	0.5 lbs.

Connect With A:

LTT

Connect to a torque analyzer to monitor, test or audit a fastener.

See Page 01.3

CERTIFIED

Supplied with **Free** ISO 17025 Certification of Calibration.

PLUG & PLAY

NOTE!

*This is the "stand alone" accuracy for the torque sensor. When the sensor is coupled with a Mountz torque analyzer, there is a system accuracy. Review the system accuracy listed with each torque analyzer.

Mountz Torque Conversion Calculator
Quickly convert torque measurement from one type of unit measurement to another.
Visit www.mountztorque.com/calculator

Mountz Tool Selector
Easy to navigate, a guide that assists engineers in selecting the proper tool for the application.
Visit www.mountztorque.com/torque-tool-selector.

CABLE - SDX

Item #072004
For connecting to FTA-100, PTT or LTT

SDX CONNECTION

A = Signal (+)
B = Signal (-)
C = Excitation (-)
D = Excitation (+)
E/F = N/A

CABLE - ETX

Item #072006
For connecting to FTA-100, PTT or LTT

ETX CONNECTION

A = Signal (-)
B = Signal (+)
C = Excitation (-)
D = Excitation (+)
E = Memory Circuit Digital Clock
F = Memory Circuit Digital I/O

ETX

Torque Wrench Sensor with ARCII Technology

KEY FEATURES - ETX

Accuracy ±1% of full scale.

Designed for monitoring, testing, and auditing fasteners.

Can be used for "Just Move" and "Breakaway" torque tests.

Bi-directional.

Non-length dependent.

Robust design and fixed head.

Safe Overload: 125% of Rated Output.

Features "ARCII" technology, an instant auto-recognition system of the ETX connected to the FTA-100, PTT or LTT.

Model	Item #	Torque Ranges American	Torque Ranges S.I.
ETX10	**020176**	9 - 89 lbf.in	1 - 10 N.m
ETX30	**020177**	2.5 - 22 lbf.ft	3 - 30 N.m
ETX100	**020178**	8 - 75 lbf.ft	10 - 100 N.m
ETX300	**020179**	22 - 220 lbf.ft	30 - 300 N.m

Model	Square Drive	Length	Width	Weight
ETX10	1/4"	8 1/2"	1 1/4"	9 oz.
ETX30	1/4"	8 1/2"	1 1/4"	9 oz.
ETX100	3/8"	17 1/2"	1 5/8"	1.5 lbs.
ETX300	1/2"	26"	2"	2.4 lbs.

mountz
the torque tool specialists®
800.456.1828

Calibrated Dead Weights are the official means by which torque analyzers and transducers are traced to the National or International Standards such as NIST, ISO, and others. There are 3 components that compose of a Dead Weight Test Set: (1) Segment Arm or Wheel, (2) Hanger, and (3) Weights.

Step 1:
Select either:
Segment Arm
or Wheel

SEGMENT ARMS

Model	Item #	Max Wt.	Tolerance	Input Dr.	Length
S-10	**061106**	25 lbs.	±.005	1/4"	10"
S-10	**060094**	75 lbs.	±.005	3/8"	10"
S-10	**060056**	100 lbs.	±.005	1/2"	10"
S-12	**060052**	75 lbs.	±.006	3/8"	12"
S-12	**060093**	100 lbs.	±.006	1/2"	12"
S-24	**060091**	125 lbs.	±.012	1/2"	24"
S-24	**060053**	250 lbs.	±.012	3/4"	24"
S-48	**060090**	125 lbs.	±.024	3/4"	48"
S-48	**060054**	300 lbs.	±.024	1"	48"

WHEELS (pictured upper right photo)

Model	Item #	Max Wt.	Tolerance	Input Dr.	Radius
1.0*	**061587**	50 oz.	±.0005	1/4"	1"
2.0**	**060095**	20 lbs.	±.001	1/4" & 3/8"	2"
4.0**	**060064**	65 lbs.	±.002	1/4" & 3/8"	4"

*Shape: Circular **Shape: Butterfly

Calibration Test Equipment

For Torque Analyzers & Torque Sensors

Step 2: Select Hanger

Model	Item #	Weight	Stem
Stainless Steel (Class F)	**110044**	2 lbs.	9 1/4"
Stainless Steel (Class F)	**110043**	5 lbs.	16"

Step 3: Select Weights

Hook Weight

Slotted Weight

Hanger

Model	Item #	Weight
Stainless Steel Hook (Class 3)	**110050**	0.25 oz.
Stainless Steel Hook (Class 3)	**110051**	0.50 oz.
Stainless Steel Hook (Class 3)	**110052**	1 oz.
Stainless Steel Hook (Class 3)	**110053**	2 oz.
Stainless Steel Hook (Class 3)	**110054**	4 oz.
Stainless Steel Hook (Class 3)	**110055**	8 oz.
Stainless Steel Hook (Class 3)	**110056**	16 oz.
Stainless Steel Hook (Class 3)	**110057**	32 oz.
Stainless Steel Hook (Class 3)	**110058**	40 oz.
Stainless Steel Slotted (Class F)	**110047**	0.5 lbs.
Stainless Steel Slotted (Class F)	**110046**	1 lb.
Stainless Steel Slotted (Class F)	**110045**	2 lbs.
Stainless Steel Slotted (Class F)	**110041**	5 lbs.
Stainless Steel Slotted (Class F)	**110042**	10 lbs.
Stainless Steel Slotted (Class F)	**110070**	20 lbs.
Stainless Steel Slotted (Class F)	**110071**	50 lbs.

TOTAL WEIGHT

Weights are placed upon the Hanger, which is hung from the Segment Arm or Wheel. The amount of **total weight** needed is determined by the maximum torque range of the analyzer or sensor being calibrated and the length of the Segment Arm or Wheel.

NOTE!

Total weight includes both the Hanger and the Stainless Steel Weight(s).

Loading Bench

Calibrating Wrenches

LB750F
(BMX Torque Sensor not included)

KEY FEATURES

A calibration system designed to ensure accurate calibration of torque wrenches.

The laboratory grade instrument assures accurate torque calibration and pre-setting, independent of human influence or transducer side and end load factors.

The drive system assures the load application, eliminating the operator induced test error.

Built for durable use, the Loading Bench reduces the operator effort required to attain and sustain torque during the calibration process.

Large wheel for smooth manual loading.

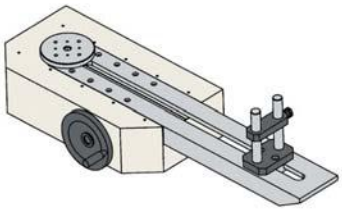
Operates in both clockwise and counterclockwise directions.

Models that range from 0 - 2000 lbf.ft

Use with a Mountz BMX torque sensor and torque analyzer.

Mountable for bench or a cabinet.

Adjustable to fit the size of wrench being tested. Load applied easily and slowly for accurate calibration.



LB250F

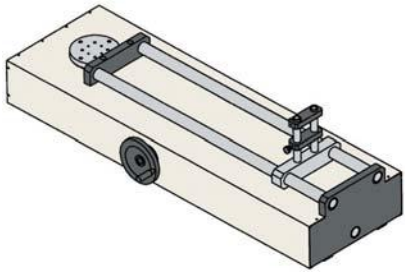
Torque Range: Max. 250 lbf.ft (3000 lbf.in).

Reaction Position:
Horizontally: 4" to 28" from the center of the turn-table.
Vertically: 1" to 4" from the turn-table base.

Weight: 53 lbs.

Size: 37.5" W x 12" H x 10.75" D

Item #063302



LB750F

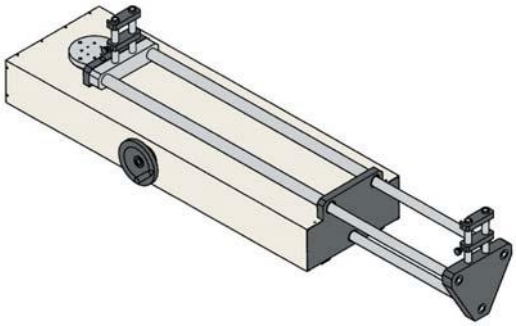
Torque Range: Max. 750 lbf.ft (9000 lbf.in).

Reaction Position:
Horizontally: 4.87" to 41.25" from the center of the turn-table.
Vertically: 1.87" to 5.4" from the turn-table base.

Weight: 130 lbs.

Size: 50" W x 15" H x 15.5" D

Item #063301



LB2000F

Torque Range: Max. 2000 lbf.ft (24000 lbf.in).

Reaction Position:
Horizontally: 4.87" to 75.5" from the center of the turn-table.
Vertically: 1.87" to 5.4" from the turn-table base.

Weight: 160 lbs.

Size: 84.75" W x 15" H x 15.5" D

Item #063300

NOTE!

It is recommended that the Loading Bench be fastened to a bench top.

BMX TORQUE SENSOR

For calibrating manual or power tools or special applications.
A wide torque range selection, from 2 ozf.in to 20,000 lbf.ft.
See Page 01.8

Run Down Adapters

Torque Analyzers and Sensors

AURA ADAPTER
(Auto Reversing Run Down Adapter)

Ideal for testing and recording the results of power tools with a torque analyzer or sensor. Not recommended for pulse tools.

Operates in clockwise direction only. Once the tool shuts off, the AURA automatically unwinds for the next run down. Eliminates the need to back it out.

Designed to provide consistent and reliable torque readings for use with power driven torque control tools.

Adapter is mounted in-line between tool drive and the torque sensor.

Compact size and lightweight.

Includes two springs to cover the torque range 1 - 50 lbf.in

Model	Item #	Torque Ranges		Drive Output	Drive Input
		Light Spring	Heavy Spring		
AURA	**063292**	1 - 25 lbf.in	25 - 50 lbf.in	17mm Hex	1/4" F/Sq.
AURA	**063293**	1 - 25 lbf.in	25 - 50 lbf.in	1/4 M/Sq.	1/4" F/Sq.

MINI RUN DOWN ADAPTERS

The mini RDA unit with fastener is designed for low torque sensors (BMX20z - BMX10i and MTX models).

Designed to provide consistent and reliable torque readings for use with low torque power tools.

The mini RDAs allow a close simulation of actual joints.

Adapter is mounted in-line between tool drive an the torque sensor.

Operates in clockwise direction only.

The kit includes 5 mini RDA units along with 10 fasteners.

Model	Item #	Screws
Mini RDA2	**061229-2**	PH Phil 2-56 x 1/4 SS
Mini RDA4	**061229-4**	PH Phil 2-56 x 1/4 SS
Mini RDA6	**061229-6**	PH Phil 2-56 x 1/4 SS

NOTE!

Change screws when thread wear occurs.
(Recommended - approximately every 25 run downs).

SPRING RUN DOWN ADAPTERS for EZ-TorQ

Designed to provide consistent and reliable torque readings for use with power driven torque control tools.

Adapter is mounted in-line between tool drive and a transducer.

Compact size and lightweight.

Operates in clockwise direction only.

Compatible with only the EZ-TorQ Analyzer.

Model	Item #	Torque Ranges		Drive Input	Drive Output
		lbf.in	cN.m		
RDA	**070600**	1 - 10	11.3 - 113	5mm Hex	17mm Hex
RDA	**070605**	5 - 50	56.5 - 565	6mm Hex	17mm Hex
RDA	**070610**	10 - 100	113 - 1130	6mm Hex	17mm Hex
RDA	**070615**	15 - 150	169.5 - 1695	6mm Hex	17mm Hex

RUN DOWN ADAPTERS

Designed to provide consistent and reliable torque readings for use with power driven torque control tools.

Adapter is mounted in-line between tool drive and the torque sensor.

Hardened thread components increase accuracy and life.

Square drives conform to ASME B107 standards for proper fit.

Non-rotating body for improved safety.

Compact size and lightweight.

Operates in clockwise direction only. After each run down, the RDA should be completely backed-up.

Model	Item #	Torque Ranges		Sq. Drive
		American	S.I.	
RDA-10i	**063970**	1 - 10 lbf.in	11.3 - 113 cN.m	1/4"
RDA-25i	**063971**	2 - 25 lbf.in	28 - 282.5 cN.m	1/4"
RDA-50i	**063972**	5 - 50 lbf.in	56.5 - 565 cN.m	1/4"
RDA-100i	**063973**	10 - 100 lbf.in	113 - 1130 cN.m	1/4"
RDA-250i	**063974**	25 - 250 lbf.in	282.5 - 2825 cN.m	1/4"
RDA-50F	**063978**	5 - 50 lbf.ft	6.8 - 67.8 N.m	3/8"
RDA-750i	**063977**	75 - 750 lbf.in	847 - 8473 cN.m	3/8"
RDA-100F	**063981**	10 - 100 lbf.ft	13.6 - 135.6 N.m	1/2"
RDA-250F	**063982**	25 - 250 lbf.ft	33.9 - 339 N.m	1/2"
RDA-500F	**063983**	50 - 500 lbf.ft	67.8 - 678 N.m	3/4"
RDA-1000F	**063991**	100 - 1000 lbf.ft	135.6 - 1355 N.m	1"
RDA-2500F	**063990**	250 - 2500 lbf.ft	339 - 3389 N.m	1 1/2"
RDA-5000F	**063992**	500 - 5000 lbf.ft	678 - 6779 N.m	1 1/2"

Accessories

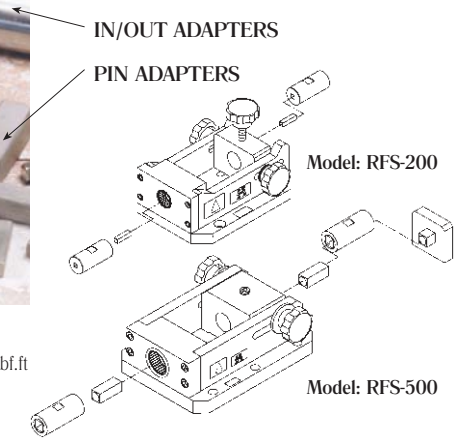
Torque Analyzers and Torque Sensors

ROTARY FIXTURE CALIBRATION STAND

The stand keeps the rotary sensor in a stable position for the calibration process.

Supplied with Pin Adapters and In/Out Adapters.

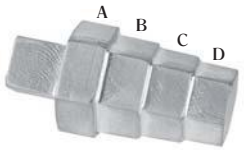
Calibration Wheel(s), Hanger(s), Weight(s), and a Torque Analyzer are required for calibration of a rotary sensor. See Page 01.14



Model: RFS-200
Torque Range: 1 - 200 lbf.in
Dimensions:
5 1/2" x 7 1/4" x 2 3/4"
Item #060234

Model: RFS-500
Torque Range: 5 - 500 lbf.ft
Dimensions:
8" x 11" x 4 1/4"
Item #062032

CALIBRATION HEX STEP ADAPTERS



1/4" SQUARE DR.

Model	Item #	Dimensions A	B	C	D
American	**061500**	3/4"	11/16"	5/8"	9/16"
American	**061501**	1/2"	7/16"	3/8"	5/16"
American	**061527**	1/2"	3/8"	1/4"	1/8"
American	**061502**	1/4"	7/32"	3/16"	1/8"
Metric	**061503**	19mm	17mm	16mm	14mm
Metric	**061504**	13mm	12mm	11mm	10mm
Metric	**061505**	9mm	8mm	7mm	6mm
Metric	**061529**	9mm	7mm	5mm	3mm
Metric	**061528**	8mm	6mm	4mm	2mm
Metric	**061506**	5.5mm	5mm	4.5mm	4mm

3/8" SQUARE DR.

Model	Item #	Dimensions A	B	C	D
American	**061537**	1"	7/8"	3/4"	5/8"
American	**061524**	3/4"	11/16"	5/8"	9/16"
American	**061531**	9/16"	7/16"	5/16"	3/16"
American	**061525**	1/2"	7/16"	3/8"	5/16"
American	**061530**	1/4"	7/32"	3/16"	1/8"
Metric	**061543**	19mm	17mm	16mm	14mm
Metric	**061542**	17mm	15mm	13mm	11mm
Metric	**061541**	16mm	14mm	12mm	10mm
Metric	**061540**	13mm	12mm	11mm	10mm
Metric	**061539**	9mm	8mm	7mm	6mm
Metric	**061538**	5.5mm	5mm	4.5mm	4mm

BAR CODE READER for LTT and PTT

Item #072997

Designed to scan Bar Codes on tools and start Tool Tests automatically.

Reduces operational time for users with a large number of Tool Tests stored in the analyzer.

The PTT or LTT are designed to work with this bar code reader.

MULTIPLEXER for LTT and PTT

Item #072998

Size (W x L x H):
6 3/4" x 6 3/4" x 1 3/8"
Weight: 1.3 lbs.

Connects 1-4 sensors to the Torque Analyzer and switches between the sensors manually or automatically.

Eliminates the need to plug and unplug sensors.

When the PTT or LTT is connected to the Multiplexer it reviews the Multiplexer (Mux) to determine what sensors are connected and downloads the identity and calibration data for each of the attached sensors.

MOUNTING BRACKETS for LTT Torque Analyzer

Item #072608
For LTT Model: 10i-50F

Item #072606
For All LTT Models

MOUNTING BRACKETS

Model: MB-1
Works with:
BMX20z - BMX500F
MTX 10z - 160z
All EZ-TorQ Models
Dimensions: 4" x 3" x 4"
Item #062109

Model: MB-3
Works with:
BMX1000F - BMX5000F
Dimensions: 8" x 7 7/8" x 8"
Item #062128

A BMX torque sensor is securely mounted for calibrating a torque wrench using a Mounting Bracket. Keeping the sensor in a stable position ensures the accuracy of the torque measurement during operation.

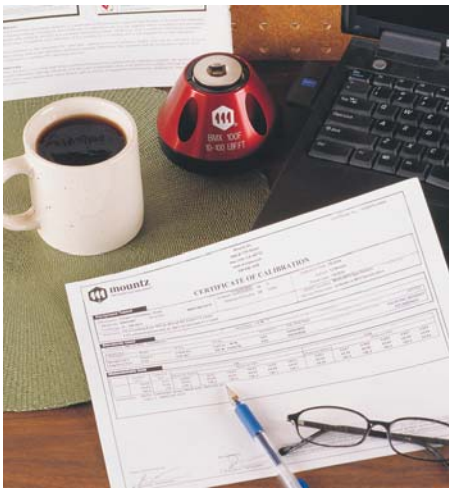
Torque Measurement and Calibration

TORQUE MEASUREMENT

Torque tools go out of calibration with use. To maintain consistent accuracy, torque tools must be checked periodically for wear or defective parts. A power or hand torque tool is a measuring tool that must be properly calibrated and maintained. Regular torque calibration and re-calibration guarantees repeatable accuracy and adherence to international standards. Torque testing also ensures torque equipment is operating to peak performance and can highlight potential tooling problems before they arise perhaps due to tool wear or broken components.

Controlling torque is essential for companies to ensure their product's quality, safety and reliability isn't compromised. The failure of a three-cent fastener that isn't properly tightened can lead to catastrophic or latent failures. Fasteners that are insufficiently torqued can vibrate loose and excessive torque can strip threaded fasteners. Torque measurement should occur in three facets of the assembly process: 1) Prior to Assembly 2) During Assembly 3) After Assembly.

A torque analyzer or a torque sensor are a finely tuned instrument designed for testing and monitoring torque applications. Designed for torque evaluation and verification, a torque analyzer and sensor are a laboratory grade instruments commonly used for quality control, R&D and calibration applications. These instruments can be used to calibrate or test hand screwdrivers, pneumatics screwdrivers, torque wrenches, electric screwdrivers, pulse tools, cordless screwdrivers, torque multipliers and other torque tools. Using a quality torque tester or sensor are key for many companies to ensure that the proper torque is being applied. Testing torque is literally a science and not something that can be left to chance.



CERTIFICATION

All Mountz torque analyzers and sensors are supplied with a **Free** ISO 17025 Certification of Calibration.

CERTIFICATE OF CALIBRATION

This symbol identifies the products that are supplied with a **Free** ISO 17025 Certification of Calibration.

CERTIFICATION EXPLANATION

Quality Standards

To meet customer requirements, we begin with compliance to stringent, world-class quality standards.
- Mountz is an ISO 9001 certified and ISO 17025 accredited company.
- Design and testing of all hand tools conforms to requirements of ISO 6789, as specified.
- Laboratory operations and calibrations meet the requirements of ANSI/NCSL Z540-1.

Calibration Services

Mountz Inc. features an experienced calibration and repair staff. Our trained technicians can calibrate and repair most any tool. Mountz provides rapid service with quality that you can trust as we offer two state-of-the-art calibration lab and repair facilities that can calibrate up to 20,000 lbf.ft. All calibrations are performed using NIST-Traceable standards, and meet the requirements of ANSI/NCSL Z540.

Header

Identifies name and location of laboratory issuing certificate, as well as certificate number.

Equipment Tested

Easy identification of tool type, maximum capacity, serial number, and accuracy. Also indicates arrival condition of tool, service performed, calibration date, interval, and due date.

Standards Used

Identifies procedure and equipment used to perform the calibration, as well as test accuracy ratio.

Certification

Section for approval of certificate content by authorized signatories. Also includes statement of compliance with relevant calibration standards and NIST-Traceability.

CALIBRATION INTERVALS

A tool must be properly calibrated and maintained on a preventative maintenance and calibration schedule. In order to maintain accuracy, it is crucial that a torque tool and measuring equipment be calibrated regularly. Some organizations may recommend six (6) month calibration intervals, while others may schedule it at twelve (12) months. However, it is the organization that owns the tool that must determine a suitable calibration frequency that meets their needs based upon many factors, such as history of equipment performance, application, degree of usage, and management objectives.

HAND TORQUE TOOL CATALOG

(40 Page - Available in Print or PDF format)
Torque Screwdrivers
Torque Wrenches
Accessories

POWER TORQUE TOOL CATALOG

(56 Page - Available in Print or PDF format)
Electric Torque Screwdrivers
Pneumatic Torque Screwdrivers
Cordless Torque Screwdrivers
Pulse Tools
Torque Arms
Screw Counters
Accessories

TORQUE MULTIPLIER CATALOG

(24 Page - Available in PDF format only)
Hand Torque Multipliers
Pneumatic Torque Multipliers
Electric Torque Multipliers
Accessories

mountz® the torque tool specialists®

mountzPRO® fastening made easy™

mr. metric®

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