

AUDITOR



TORQUE MEASUREMENT SOLUTIONS *2026*



For more than 50 years, AIMCO has been working with manufacturers around the world. We are the complete global source for all critical fastening and bolting solutions. AIMCO can effectively and swiftly meet your needs whether you're in Tennessee, USA fastening a 3 mm nut at 3 Nm, or in Denmark servicing wind-turbine bolts at 17,000 Nm. AIMCO provides the tools and solutions, on a global scale, that guarantee the success of your project. It is with great pride that AIMCO can say the products that we manufacture are **MADE IN THE USA.**

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TORQUE MEASUREMENT

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Torque Measurement: Overview

Torque measurement and the verification of torque tools and applied torque are an integral part of today's threaded assembly process. The method used to measure torque can affect the judgments made regarding tool performance, assembly processes and overall product quality.

DYNAMIC TORQUE

Dynamic torque is the torque produced during the actual tightening process, normally measured using rotary transducers and a torque analyzer.

Advantages:

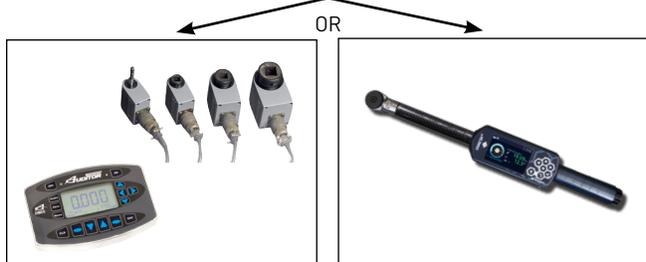
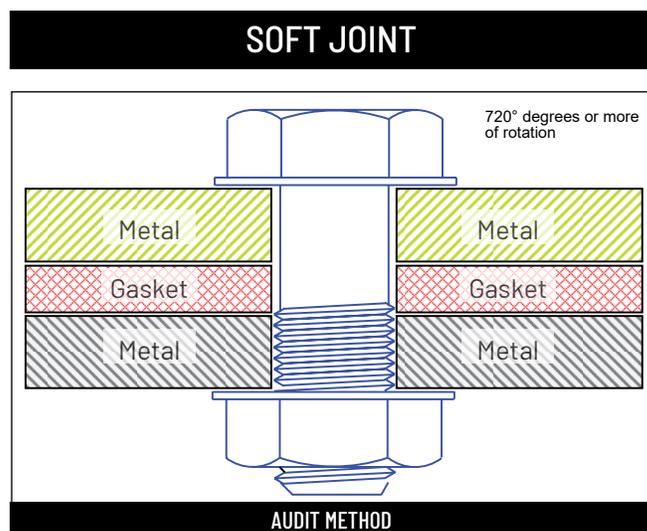
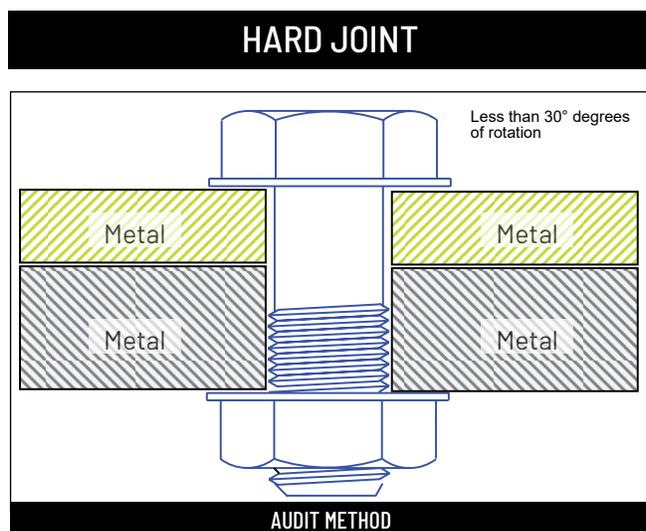
- Reduces operator influence
- Measures applied torque
- Can also include angle of rotation as error proofing parameter

RESIDUAL TORQUE

Residual torque is the torque measured by producing an incremental amount of movement of the fastener after the actual tightening process, normally measured using a dial or digital torque wrench.

Advantages:

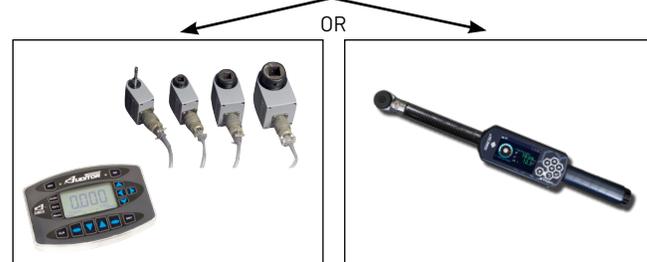
- Easy access to fastener
- Error proofing
- Can detect missed fasteners or joints with significant relaxation



Dynamic Torque: 15 Nm Residual Torque: 18 Nm

Values as examples only

A hard joint, one requiring a low degree of rotation during tightening, will normally show very little relaxation after tightening. Due to the high amount of remaining clamp load and friction within the joint members, additional movement of the fastener requires additional torque energy to be applied. Therefore, Residual Torque values will be higher than Dynamic Torque values.



Dynamic Torque: 15 Nm Residual Torque: 12 Nm

Values as examples only

A soft joint, one requiring a high degree of rotation during tightening, will normally show significant amounts of relaxation after tightening. Relaxation leads to a loss of clamp load and friction within the joint members. Due to this relaxation, additional movement of the fastener requires relatively small amounts of additional torque energy and Residual Torque values will be lower than Dynamic Torque values.

Torque Measurement: Overview

Checking torque measurement before, during, and after assembly ensures quality manufacturing. Proper torque measurement is critical in many assembly operations. AIMCO utilizes years of experience to design a process around your specific auditing requirements. From simple dial wrenches to electronic data collectors and joint analyzers for R&D, AIMCO is with you every step of the way.

BEFORE ASSEMBLY

Tool Capability



Is the tool working correctly?

Testing and verifying tools under controlled conditions helps you identify accuracy and repeatability before using them in production.

Equipment used:

- Desktop testers with internal transducers
- Auditor analyzers with either stationary or rotary transducers
- UFT hydraulic joint simulators and rotary transducers

DURING ASSEMBLY

Process Capability



How does the tool work with the product being assembled?

Testing the tools during the actual process helps ensure that the process is working correctly. Variables in the parts and influences from the operator can be accounted for.

Equipment used:

- Torque Data Collectors/ Analyzers
- Auditor Rotary Transducers

AFTER ASSEMBLY

Product Capability



Does the finished product meet expectations?

Checking the product after assembly is the final opportunity to verify that product quality is satisfactory before user delivery

Equipment used:

- Click/Dial wrenches
- Electronic wrenches with Auditor analyzers
- Rotary transducers and Auditor analyzers with hand driver to move fastener

The logo for AIMCO Auditor, featuring the word "AUDITOR" in a bold, italicized, sans-serif font. Above the letter "O" is a stylized graphic of a torque wrench handle with three horizontal lines extending to the right. A small "TM" trademark symbol is located to the right of the graphic.

Torque Measurement: Overview

MEASURING QUALITY – PROCESS CAPABILITY

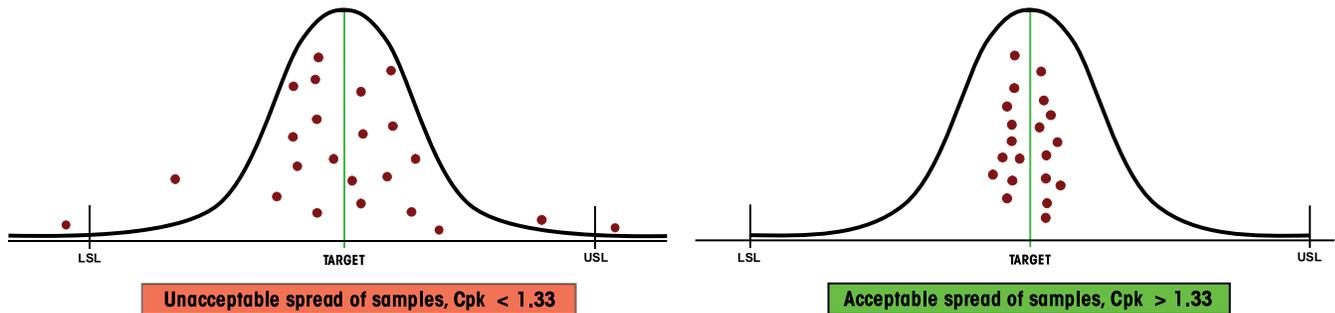
Statistical Analysis Is An Important Step In Any Quality Control Process

One of the most widely accepted statistical indicators of process quality, and therefore product quality, is Cpk, or the process capability for a centered process. This value indicates how capable a process is and whether the results of that process are properly centered near a specific target. A capable process is one that approaches, as a limit, 100% conformance to specifications.

Cpk is a statistical value that indicates how tightly grouped a series of samples is around the target value. Cpk is a function of the Upper Specification Limit (USL), the Lower Specification Limit (LSL), the mean of the samples and the standard deviation (σ) of the samples.

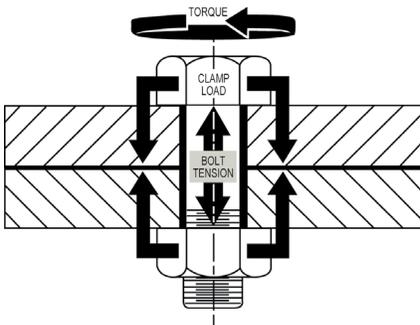
$$Cpk = \text{either } \frac{(USL - \text{Mean})}{(3 \times \sigma)} \text{ or } \frac{(\text{Mean} - LSL)}{(3 \times \sigma)}, \text{ whichever is smaller.}$$

An acceptable, or capable, process will normally have a Cpk value of at least 1.33.



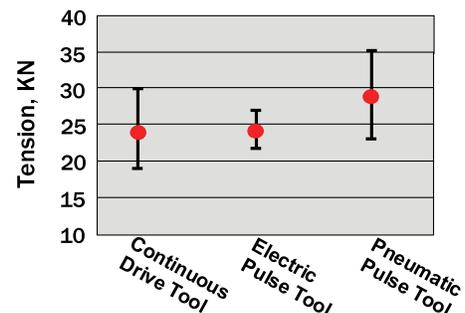
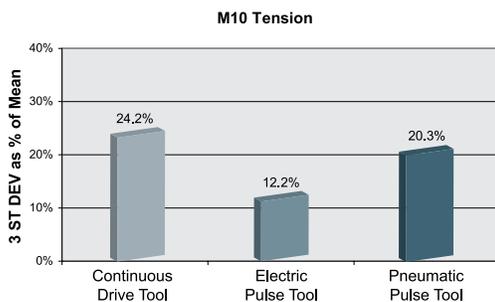
MEASURING QUALITY – CLAMP LOAD

The purpose of threaded fastening is to produce the correct amount of clamp load within the joint.



Due to the cost and difficulty of measuring clamp load during the actual assembly process, torque is used as the control parameter during tightening. Many manufacturers use torque values as the primary indicator of threaded assembly quality. However, achieving repeatable clamp load is a better indicator of joint quality.

Studies have shown that discontinuous drive tools can produce equal or better clamp load results when compared to continuous drive tools.



Torque Testers

AUDITOR™ Torque Testers

Precision and quality are critical in the assembly process. Depend on **Auditor Torque Testers** to calibrate and certify your tools. AIMCO utilizes years of experience to design a process around your specific auditing requirements. Whether you are assembling large complicated systems or small precise time pieces, AIMCO provides the best system for your application.

FEATURES AND BENEFITS

- Heavy industrial design
- Software included for ADTT Torque Tester
- Auditor Torque Testers are designed for intuitive and functional usability.
- Testers are designed to audit torque wrenches and power tools, including pulse tools



Auditor Torque Testers

	 <p>ATC Auditor Torque Cube Compact vertical or horizontal bench-mount tester with integrated transducer.</p>	 <p>ADTT Auditor Desktop Torque Tester Bench mount or line side tester utilizing integrated transducer. Also includes a port for the use of external ARTU and ASTU transducers.</p>
Integrated Transducer Range (values are in full scale)	0.13 - 1,017 Nm 1 in-lb - 750 ft-lb	0.4 - 30 Nm 35 - 265 in-lb
Accuracy	±1% of indicated reading, top 90% of range	± 0.25% of the rated maximum transducer capacity
Data Output to PC	X	X
Integrated Torque Transducer	1	1
External Transducer Port	—	1 Port Connect Auditor ARTU Rotary Transducers and ASTU Stationary Transducers
Number of Stored Readings	999	999
Adjustable Rundown Fixture Included *	X	X
Power	Rechargeable NiMH batteries	5V DC mains power. Two type 'C' cell non-rechargeable batteries (supplied as standard)
Measurement Modes	Track, Peak, First Peak (Click)	Track, Peak, Pulse, Click
Units of Measure Options	In-oz, In-lb, Ft-lb, Nm, CNm, Kg-cm, G-cm, Kg-m	In-oz, In-lb, Ft-lb, Nm, cNm, Kg-cm, Kg-m
Software Included		X
Compatible Cables	<ul style="list-style-type: none"> • ICBL-USB - USB Serial > PC 	<ul style="list-style-type: none"> • Cable integrated with ARTU and ASTU transducer
Compatible Transducers	<ul style="list-style-type: none"> • Integrated 	<ul style="list-style-type: none"> • Integrated • ARTU Rotary Transducers • ASTU Stationary Transducers

* Included with all testers and analyzers with a range up to 1000 in-lb

Auditor Torque Cube



Vertical Models



Horizontal Models



AUDITOR TORQUE CUBE

The Auditor Torque Cube (ATC) is a compact, versatile desktop tester that provides a multitude of capabilities. The ATC is designed to test hand or power tools with the following:

- Peak, first peak, and track modes
- Multiple engineering units
- Manual and auto clear function
- Multiple frequency response settings
- Can be positioned vertically or horizontally for the ergonomic testing of inline or pistol grip tools
- Accuracy is better than 1% of indicated reading top 90% of range

- Serial data output
- Memory: 999 data samples
- Battery and/or mains powered

Auditor Torque Cube is rugged enough to test and verify tools at “point of use” while still being accurate enough to calibrate hand and power tools.

Each tester is shipped with a mains/battery charger power cord, a hex to allen drive bit, and a bolting template. Models with max torque of 1,000 in-lb or less also include a joint rundown fixture. The ATC can be positioned vertically or horizontally for the ergonomic testing of inline or pistol grip tools.

ATC Auditor Torque Cube Models

Model	Recommended Torque Range		Weight		W x H x D		Square Drive
	NM	IN-LB/FT-LB	KG	LB	MM	IN	IN
Vertical Configuration							
ATC-10	0.13 - 1.13	1 - 10 in-lb	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/4
ATC-25	0.28 - 2.83	2.5 - 25 in-lb	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/4
ATC-100	1.13 - 11.3	10 - 100 in-lb	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/4
ATC-250	2.83 - 28.3	25 - 250 in-lb	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	3/8
ATC-500	5.65 - 56.5	50 - 500 in-lb	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	3/8
ATC-750	8.47 - 84.8	75 - 750 in-lb	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	3/8
ATC-1000	11.3 - 113	100 - 1000 in-lb	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	3/8
ATC-1800	21.2 - 203	188 - 1,800 in-lb	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/2
Horizontal Configuration							
ATC-150F	20 - 200	15 - 150 ft-lb	2.25	5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/2
ATC-250F	34 - 340	25 - 250 ft-lb	2.25	5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/2
ATC-500F	68 - 678	50 - 500 ft-lb	2.25	5	79 x 95 x 83	3.13 x 3.75 x 3.25	3/4
ATC-750F	102 - 1,017	75 - 750 ft-lb	2.25	5	79 x 95 x 83	3.13 x 3.75 x 3.25	3/4

Cable

The ICBL-USB cable connects the ATC display to a PC.



Auditor Bench-Mount Testers

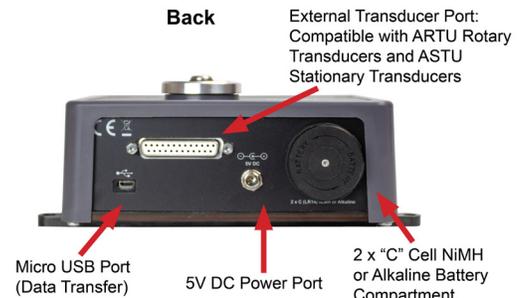
AUDITOR™ ADTT Desktop Torque Tester

Simple and easy to use torque tester ensures your assembly tools are performing as they should

Auditor's ADTT Torque Tester is ideal for concise measurement and collection of assembly tool torque data for testing and auditing.

FEATURES AND BENEFITS

- Includes a built-in torque transducer
- Choice of measurement modes including track, peak, pulse and click
- Can be used as either a portable device or fixed permanently using the mounting bars
- Large OLED screen displays readings and results
- Easy to use keypad with simple function keys to effortlessly switch between settings
- Download measurement readings to a PC using a USB 2.0 cable with free templated connectivity software for download at www.aimco-global.com/software
- Automatically switches to highest voltage power source (mains/batteries)
- Memory for 999 date- and time-stamped readings for complete traceability



Technical Specifications

Operating Temp Range	-20 to +50°C
Accuracy	± 0.25% of the rated maximum transducer capacity
Overload Capacity	125% of stated maximum transducer capacity
Zero Stability	± 0.01% per degree Celsius
Sealing	IP45
Humidity	10% to 75% non-condensing
Reading Storage	999 readings
Torque Measurement	Display up to 5 significant figures. Sample every 20 microseconds
Frequency Response	User selectable in 13 steps from 75 Hz to 4608 Hz
Power	5V DC mains power. Two type 'C' cell non-rechargeable batteries (supplied as standard)
Input/Output	Micro USB (2.0) connector for data output, 5V DC power port for use with mains power from DC power adapter (included)
Construction	High strength injection molding. Steel base with mounting bars

ADTT Torque Tester Models

Model	Torque Range		Drive Size			Weight		Dimensions
	NM	IN-LB	IN	MM	LB	KG		
ADTT-04-IET	0.4 - 4	3.4 - 35	3/8" Hex	10	3.8	1.74	166 mm (W) x 190 mm (D) x 77 mm (H) 6.5" (W) x 7.5" (D) x 3" (H)	
ADTT-12-IET	1.2 - 12	10.6 - 106	1/2" Hex	13	3.8	1.74	166 mm (W) x 190 mm (D) x 77 mm (H) 6.5" (W) x 7.5" (D) x 3" (H)	
ADTT-30-IET	3 - 30	26 - 265	11/16" Hex	17	3.8	1.74	166 mm (W) x 190 mm (D) x 77 mm (H) 6.5" (W) x 7.5" (D) x 3" (H)	



Rundown Adapter
Included with Tester



ARTU Rotary
Transducers



ASTU Stationary
Transducers

Accessories

Auditor's ADTT Torque Tester includes a standard rundown adapter. Also available from AIMCO are ARTU Rotary Transducers (see page 22 and ASTU Stationary Transducers (see page 23). Contact an AIMCO Customer Service Associate for more information, (800) 852-1368.

ADTT Software

MODEL	DESCRIPTION
AIMCO Data Management Software	Transfer data to a PC and export to a spreadsheet

See "Data Collection Software" on page 11 for more information.

Auditor Torque Data Analyzers



AIMCO provides expertise and measurement equipment for all three phases of the assembly process - before, during, and after. Designed to be portable or conveniently placed on a bench, the **Auditor Torque Data Analyzers (ATDA)** help ensure quality manufacturing by analyzing and evaluating fasteners, assembly tools, and the tightening of bolted joints.

FEATURES AND BENEFITS

- Designed for intuitive and functional usability. Easily portable
- Connect to AIMCO's rotary and stationary transducers
- Tool and torque data is stored in a SQL database and can be exported to Excel or any .csv spreadsheet

Torque Measurement: Analyzers		
Features and Benefits <ul style="list-style-type: none"> • Auditor Torque Analyzers are designed for intuitive and functional usability. • Connects to AIMCO's rotary and stationary transducers 	 <p>ATDA Auditor Torque Data Analyzer Portable analyzer that can be connected to various transducers</p>	 <p>ATDA-DC Auditor Torque Data Analyzer with Data Collection Portable analyzer to be connected to various transducers. Provides data collection capability with included software to interface with PC</p>
Bi-directional	X	X
Data Output to PC	X	X
External Transducer Port	1	1
Number of stored readings	999	999
Rechargeable NiMH Battery	X	X
Digital I/O for external devices	X	X
Measurement Modes	Peak, First Peak (Click), Pulse, Track	Peak, First Peak (Click), Pulse, Track
Measurement Units	8	8
Software Included		X
Compatible Torque Wrench	ATW	ATW
Switch Boxes for External Transducers	<ul style="list-style-type: none"> • AISWT-4L > 4 Way Intellect box • AISWT-6L > 6 Way Intellect box 	
Compatible Cables	<ul style="list-style-type: none"> • ICBL-USB - USB Serial > PC • ATDBLIS - IS Transducer (4 Pin) • ATDBRIS - IS Transducer w/ angle (10 Pin) • ICBL-10P - Intellect transducer cable. Identification chip in cable w/angle - 10 pin connector • ICBL-4P - Intellect transducer cable. Identification chip in cable - 4 pin connector • ICBL-5000L - Connect ATDA to Intellect Transducer, Analog AISI / AISF • ICBL-8000DIG - Connect AISI / AISF Digital Transducers to PC through digital module 	
Compatible Transducers	<ul style="list-style-type: none"> • AISI / AISF - Analog • ASTIS Stationary Transducers • ARTIS Rotary Transducers 	



Auditor Torque Data Analyzers

AUDITOR TORQUE DATA ANALYZERS

The Auditor Torque Data Analyzers (ATDA) are designed to be portable or conveniently placed on a bench. The testers can be connected to various transducers, as well as transducerized wrenches and rotary or stationary transducers. The user interface is common between the ATC (Torque Cube), ATDA, and ATDA-DC. All of these instruments have similar menus. Additionally, all data collector testers utilize Auditor Tool Manager for tool testing and data management.

The Auditor Torque Data Analyzer is available in two configurations:

- ATDA: A simple torque analyzer with sequential memory, 999 data samples, engineering limits, limited statistical processing average, range, Cp and CpK with serial output
- ATDA-DC: Contains all of the features of the ATDA and has additional file capability. It can associate data with file names and manage data collection with a computer and Auditor Tool Manager software

This is a great "starter" tool management system. It provides testing, archiving, and analysis of tools at single or multiple torque targets. The tool and torque data is stored in a SQL database and can be exported to Excel or any .csv spreadsheet.

ATDA Software

MODEL	DESCRIPTION
For ATDA	
SMD Tools Software	Use a PC as a torque tester/display
For ATDA-DC	
Auditor Tool Manager Software	Test, verify, and archive tools
Auditor Audit Manager Software	Comprehensive statistical analysis, data archiving, and data export

See "Data Collection Software" on page 11 for more information.



ATDA Auditor Torque Data Analyzer Models

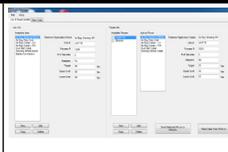
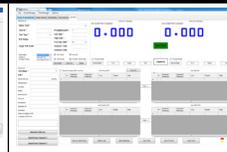
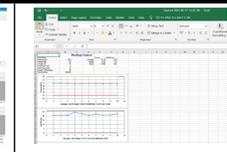
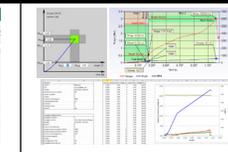
MODEL	DESCRIPTION
ATDA	Auditor Torque Data Analyzer
ATDA-DC	Auditor Torque Data Collector

ATDA Accessories

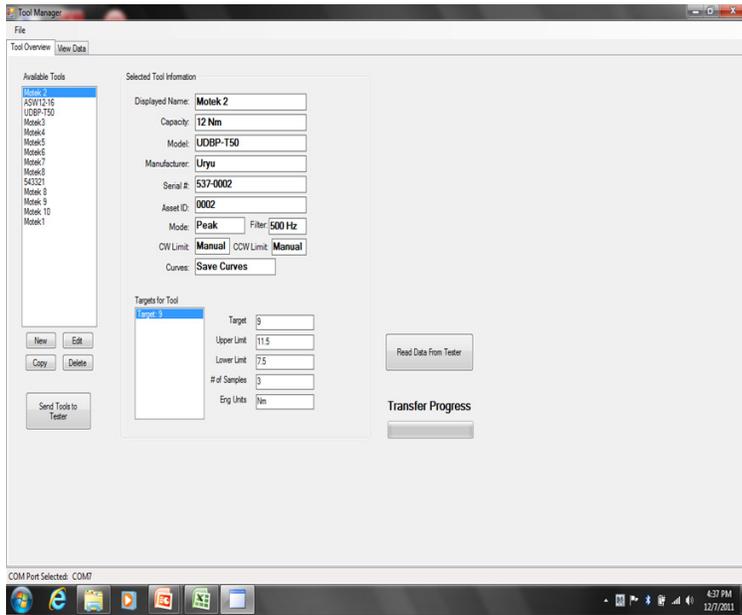
Cables	Model	Description	Compatible External Transducers
	ICBL-USB	Connects to PC	None
	ATDBLIS	Connects to Industry Standard Torque transducers	 ARTIS-T Rotary Torque Only
	ATDBRIS	Connects to Industry Standard Torque/Angle transducers	 ARTIS-TA Rotary Torque /Angle ASTIS
	ICBL-4P	Intellect Cable with transducer identification chip. Connects to Industry Standard Torque Transducers	 ARTIS-T Rotary Torque Only ASTIS
	ICBL-10P	Intellect Cable with transducer identification chip. Connects to Industry Standard Torque/Angle Transducers	 ARTIS-TA Rotary Torque /Angle
	ICBL-5000L	Connects to Industry Standard Analog AISI/AISF Transducers	 Analog AISI/AISF
	ICBL-8000DIG	Connects to Industry Standard Digital AISI/AISF Transducers	 Digital AISI/AISF

See "Torque Transducers" on page 22 and "Torque Measurement Cables" on page 26 for more information.

Auditor Data Collection Software

Data Collection Software						
						
Auditor Tool Manager Software	Auditor Audit Manager Software	SMD Tools Software	AIMCO Data Management Software for ADTT Torque Tester	Custom Software for Mobile Cart		
Test, verify, and archive tools	Comprehensive statistical analysis, data archiving, and data export	Use a PC as a torque tester/ display for testers and transducers	Transfer data to a PC and export to a spreadsheet	AIMCO will provide a custom torque software package tailored to your project		
Create a database of tools and store test results with easy-to-use software integrator to/from tester to PC	Facilitate residual auditing with digital wrenches and transducerized wrenches	Comprehensive, pre-configured, and guided testing of specific tools as well as manual testing with all testing parameters adjustable and set by the user	Transfer and export torque and angle results and readings to a PC. Convert data into a useful spreadsheet format.	Contact an AIMCO Customer Service Associate for more information, 1-503-254-6600, or toll free 1-800-852-1368.		

Compatibility					
Torque Tester/Analyzer					
ADTT				X	
ATDA			X		
ATDA-DC	X	X			
Mobile Torque Testing Station					X



Tool Manager Software, Tool Overview Screen

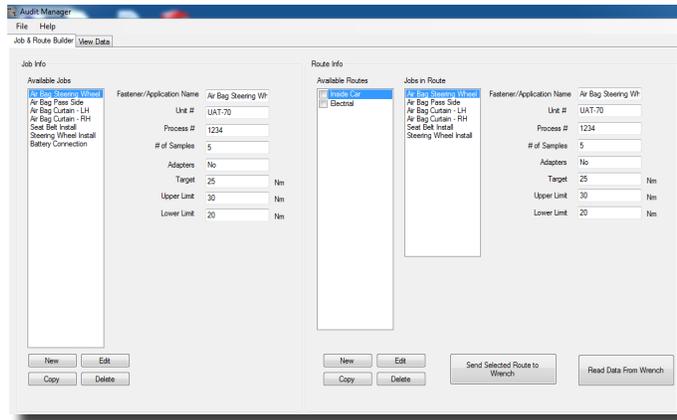
AUDITOR TOOL MANAGER SOFTWARE

Tool Manager Software is included with the purchase of ATDA-DC data-collecting torque testers. Create a database of tools and store test results with this easy-to-use software integrator to/from tester to PC.

Auditor Data Collection Software

AUDITOR AUDIT MANAGER SOFTWARE

Audit Manager Software is included with the purchase of ATDA-DC data collecting torque analyzers. The View Data tab allows you to look at the collected data and the trace file. This data can be exported to Excel as a .csv file and displayed by Excel charts. The trace file displays the data in a torque/time graph and allows the user to supersede the move-on reading selected by the wrench by visually discerning via the trace where the fastener started to rotate. When selecting a single job the average, range, sigma, Cp, and CpK values are listed.



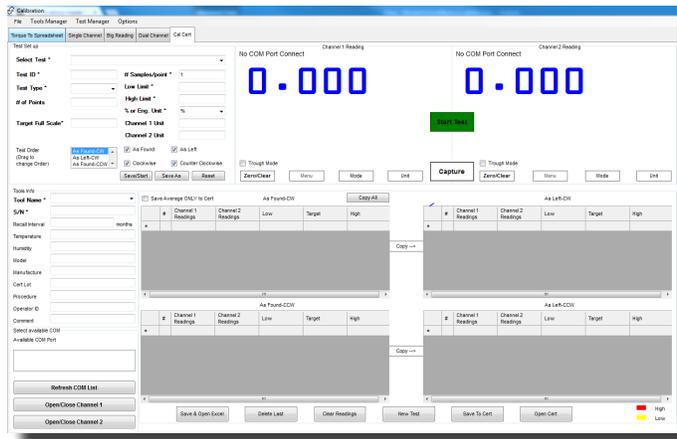
Audit Manager Software, Job and Route Builder Screen

SMD TOOLS SOFTWARE

A digital signal between a PC and a digital transducer allows SMD Tools software to operate independently of a tester or analyzer to collect and store data in Microsoft Excel.

Tool Manager and Test Manager databases within the software stores tool details and test processes for easy access in the Cert Manger platform

Auditor branded analyzers and testers can network with this software to produce and store real-time data

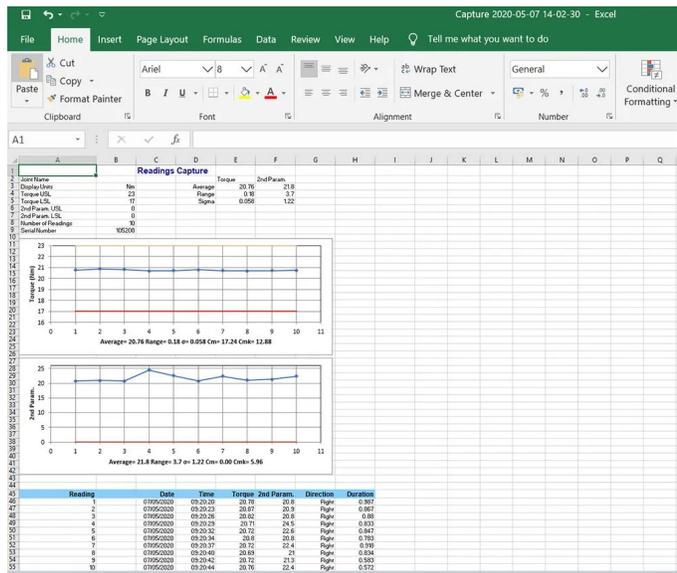


SMD Tools Software, Cal Cert Screen

DATA MANAGEMENT SOFTWARE FOR ADTT TORQUE TESTER

AIMCO's Data Management Software is a basic and easy to use software program that allows data transfer, including torque and angle results and readings, from the ADTT Torque Tester to a PC.

The transferred data can then be converted into a useful spreadsheet format.



Data Management Software Data Export

Auditor High-Capacity Test Stands

Torque Measurement: High Capacity Test Stands

Features and Benefits

- Advanced test stations for larger tools and higher torque output
- Configured to meet application requirements
- Durable industrial grade devices



	AHCTS	AHCTS-K	AHDTS	AIMTS
	Auditor High Capacity Test Stand	Auditor High Capacity Test Stand - Hydraulic	Auditor High Capacity Test Stand Dual Transducer	Auditor High Capacity Impact Test Stand
	Designed for testing tools with continuous rotating output spindles and pulse tools.	Specifically designed for hydraulic wrenches testing.	Two transducers, one for rotary tools and one for hydraulic tools. Includes rundown & reaction fixtures with a single display.	Ideal for testing impact wrenches and is recommended to utilize rundown fixtures when testing impacts.
Capacity	6,750 Nm	33,750 Nm	33,750 Nm	2,700 Nm

Accessories

Rundown fixtures	AHCTS	AHCTS-K	AHDTS	AIMTS
AHCTS-3/4RDF	X		X	
AHCTS-1RDF	X		X	
AHCTS-1.5RDF	X		X	

Adapters

	AHCTS	AHCTS-K	AHDTS	AIMTS		
Square to Square Drive Adapters*						
	CA1510	1-1/2" Male to 1" Female	X		X	
	CA1575	-1/2" Male to 3/4" Female	X		X	
Insert Adapters*						
	CA2510I	2-1/2" Male to 1" Female	X	X	X	
	CA2515I	2-1/2" Male to 1-1/2" Female	X	X	X	
	CA2575I	2-1/2" Male to 3/4" Female	X	X	X	
Square to Hex Drive Adapters*						
	CA150108DHD	1-1/2" Male to 1-1/2" Male Hex		X		

* Partial List. Contact An Aimco Customer Service Associate For More Options, 1-503-254-6600, Or Toll Free 1-800-852-1368.

Auditor High-Capacity Test Stands



AHCTS-5000



AHCTS-001K

AHCTS TEST STAND FOR ROTATING TOOLS

Designed for testing tools with continuous rotating output spindles. The test stand includes a rundown fixture, bushing for side load support, reaction post or reaction paddles, transducer and torque analyzer display.

AHCTS Test Stand Models

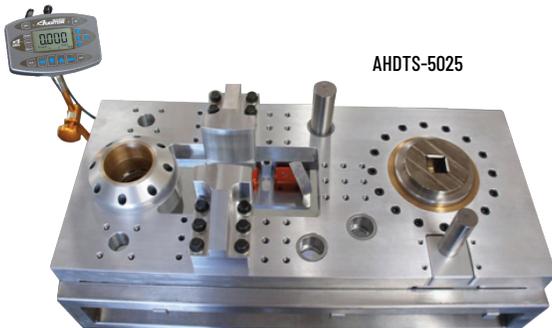
Model	Description
AHCTS-0500	3/4" Square Drive w/rundown fixture
AHCTS-2500	1.5" Square Drive w/rundown fixture
AHCTS-5000	1.5" Square Drive w/rundown fixture
AHCTS-7500	1.5" Square Drive w/rundown fixture

Please refer to Configuration Options on the following page for required ordering options.

AHCTS-K STAND FOR HYDRAULIC TOOLS

The AHCTS-K stands are specifically designed for hydraulic wrench testing. Hydraulic wrenches have very low profiles but very high torque output, therefore, working height must be minimized to prevent side loading which could lead to errors in data or damage to tool or reaction devices.

Either stand can be ordered with options such as extension legs, casters, embedded or attached torque analyzers with various rundown fixtures and reaction devices. Contact an AIMCO Customer Service Associate for additional information, 1-503-254-6600, or toll free 1-800-852-1368.



AHCTS-5025

AHCTS-K Test Stand Models

Model	Description	Capacity Ft-Lb
AHCTS-0.5K	3/4" Square Drive w/reaction device	500
AHCTS-001K	1" Square Drive w/reaction device	1,000
AHCTS-2.5K	1.5" Square Drive w/reaction device	2,500
AHCTS-005K	1.5" Square Drive w/reaction device	5,000
AHCTS-010K	1.5" Square Drive w/reaction device	10,000
AHCTS-025K	2" Square Drive w/reaction device	25,000

Please refer to Configuration Options on following page for required ordering options.

AHCTS DUAL TEST STAND FOR ROTATING AND HYDRAULIC TOOLS

This stand has two transducers embedded into the base, one for rotary tools and one for hydraulic tools. It comes with rundown and reaction fixtures and one display.

AHCTS Dual Test Stand Models

Model	Description
AHCTS-5025	1.5" Sq Dr dual station w/rundown fixture and reaction devices

Contact an AIMCO Customer Service Associate for ordering options, 1-503-254-6600, or toll free 1-800-852-1368.

Optional Pelican Case shown (ordered separately)



25503

Auditor High-Capacity Test Stands

AHCTS Series High Capacity Test Stands for Rotary and Hydraulic Tools Configuration Options

Base Model Number	Display	Legs	Base Size	Run-down Fixture Capacity (ft-lb)	Reaction Post	Casters	Articulated Arm and Mount	Digital Module
AHCTS-xxxx	1 = ATDA 2 = No Embedded Display 3 = ATDA-DC 6 = Standard Embedded Display (1, 3, 4, 5 include articulated arm)	1 = 6" 2 = No legs (Standard) 3 = 18" 4 = Custom	0 = 8 x 8" 1 = 12 x 12" 3 = 14 x 19" (Standard) 4 = 18 x 24" 5 = 18 x 36" 6 = NA	1 = 500 2 = No 3 = 1,000 4 = 2,500 5 = 5,000 6 = 7,500 7 = 1.5" Kit Max. capacity 7,500 Ft-Lb 8 = 2.5" Kit Max. capacity 7,500 Ft-Lb	1 = Single 6" Post and Paddles 2 = No 3 = Multiple Posts 6" 4 = Paddles 5 = Custom 6 = Single 9" Post and Paddles 7 = Multiple Posts 9"	1 = Yes 2 = No	1 = Yes 2 = No	1 = Yes (for Tablet or PC direct) 2 = No
Model Number Digits 1-10	Model # Digit 11	Model # Digit 12	Model # Digit 13	Model # Digit 14	Model # Digit 15	Model # Digit 16	Model # Digit 17	Model # Digit 18

Auditor High Capacity Test Stand for Rotary Tools

AHCTS-0500 680 Nm / 500 ft-lb			0, 1, or 3					
AHCTS-1000 1,360 Nm / 1,000 ft-lb			0, 1, or 3					
AHCTS-2500 3,400 Nm / 2,500 ft-lb			0, 1, or 3					
AHCTS-5000 6,800 Nm / 5,000 ft-lb			0, 1, or 3					
AHCTS-7500 10,200 Nm / 7,500 ft-lb			0, 1, or 3					

Auditor High Capacity Test Stand for Hydraulic Tools

AHCTS-0.5K 680 Nm / 500 ft-lb			0-5 (3-5 come with casters)	2				
AHCTS-001K 1,360 Nm / 1,000 ft-lb			0-5 (3-5 come with casters)	2				
AHCTS-2.5K 3,390 Nm / 2,500 ft-lb			0-5 (3-5 come with casters)	2				
AHCTS-005K 6,800 Nm / 5,000 ft-lb			0-5 (3-5 come with casters)	2				
AHCTS-010K 13,600 Nm / 10,000 ft-lb			0-5 (3-5 come with casters)	2				
AHCTS-025K 34,000 Nm / 25,000 ft-lb			0-5 (3-5 come with casters)	2				
AHCTS-050K 68,000 Nm / 50,000 ft-lb			0-5 (3-5 come with casters)	2				

Auditor High-Capacity Test Stands

AIMTS TEST STAND FOR IMPACT TOOLS

Obtain accurate test results with the AIMTS Series Impact Test Stand. When used with an Auditor ATDA Analyzer, the tool's performance data can be recorded and stored. Each Auditor Analyzer comes standard with PC-based software to store and organize data for use within a quality system. It is necessary to bolt the AIMTS to a bench. We also recommend that a rundown fixture always be used for testing impacts.

FEATURES AND BENEFITS

- Housing designed with mounting holes for bolting to bench
- Transducer designed with spline interface to rundown fixture for durability
- Rundown fixture is configurable from a "soft" joint rate to a "hard" joint rate



AIMTS-2000
Test stand for large impact tools



AIMTS-0500
Test stand for small impact tools. ATDA-DC Torque Data Analyzer sold separately.



AIMTS Test Stand Models

Model	Capacity		Weight		Dimensions (W x H x D)		
	FT-LB	Nm	LB	KG	IN	MM	Sq. Dr.
AIMTS-0050	5 - 50	7 - 70	10	4.5	8 x 10 x 4	203 x 254 x 102	3/4"
AIMTS-0250	25 - 250	34 - 340	10	4.5	8 x 10 x 4	203 x 254 x 102	3/4"
AIMTS-0500	50 - 500	68 - 680	10	4.5	8 x 10 x 4	203 x 254 x 102	3/4"
AIMTS-2000	200 - 2,000	271 - 2,710	16	7.3	10 x 12 x 8	254 x 305 x 203	1.5"
AIMTS-2500	250 - 2,500	340 - 3,400	16	7.3	10 x 12 x 8	254 x 305 x 203	1.5"
AIMTS-5000	500 - 5,000	678 - 6,780	16	7.3	10 x 12 x 8	254 x 305 x 203	1.5"

Refer to Configuration Options below for required ordering options.

AIMTS Series High Capacity Impact Test Stand Configuration Options

Base Model #	Display	Legs	Base Size	Rundown Fixture Capacity (ft-lb)*		Options	Digital Module
AIMTS-xxxx	1 = ATDA 2 = No Embedded Display 3 = ATDA-DC	1 = 6" 2 = No legs (Standard) 3 = 18" 4 = Custom	6 = Bench Stand	1 = 500 2 = No 3 = 2,000 4 = 50 5 = 5,000	6 = 10,000 7 = 20,000 8 = 250 9 = 2,500	Not available for AIMTS test stands. Enter 222 for model # digits 15-17	1 = Yes (for Tablet or PC direct) 2 = No
Model Number Digits 1-10	Model Number Digit 11	Model Number Digit 12	Model Number Digit 13	Model Number Digit 14		Model Number Digits 15-17	Model Number Digit 18
AIMTS-0050 68 Nm / 50 ft-lb		2	6	4		222	
AIMTS-0250 340 Nm / 250 ft-lb		2	6	8		222	
AIMTS-0500 680 Nm / 500 ft-lb		2	6	1		222	
AIMTS-2000 2,720 Nm / 2,000 ft-lb		2	6	3		222	
AIMTS-2500 3,390 Nm / 2,500 ft-lb		2	6	9		222	
AIMTS-5000 6,780 Nm / 5,000 ft-lb		2	6	5		222	

* Ordering more than one rundown fixture is highly recommended if you're doing a lot of testing. Having multiple rundown fixtures ensures that you have spares when dealing with heat issues. AIMTS test stands are available in capacities of up to 20,000 ft-lb. Capacities other than what is shown here are quoted separately. Contact an AIMCO Customer Service Associate at 1-503-254-6600, or toll free 1-800-852-1368.

Torque Wrenches

Torque Measurement: Torque Wrenches			
Features and Benefits <ul style="list-style-type: none"> Options from Simple to Sophisticated <ul style="list-style-type: none"> Residual or Dynamic Measuring Tactile (Click) or Digital Connectivity <ul style="list-style-type: none"> Auditor Devices (ATW) Broad Range of Protocols (Phoenix III) Durable <ul style="list-style-type: none"> Designed for Factory Floor Environments Used in Production Applications or Quality Checks 			
	APTW	ATW	Phoenix III
	Auditor Preset Torque Wrench	Auditor Electronic Torque Wrench	Phoenix III Digital Torque Wrench
Torque Range	5 - 340 Nm 4 - 250 ft-lb	5 - 200 Nm 4 - 148 ft-lb	1.5 - 1,200 Nm 1.1 - 885 ft-lb
	Interchangeable FACOM type heads. Preset uses proprietary adjustment tool to guard against unauthorized setting changes	Aka "Transducer on a Stick." Connectivity to Auditor™ ADTT torque testers and ATDA (DC) data analyzers	Transducerized digital torque wrench with Production and Quality functionality. Integrated WiFi technology for wireless communication over Open Protocol. Software included
Bi-Directional accuracy of +/- X of indicated reading within the top 90% of the tester's capacity	3%	0.50%	0.1%

ATWL Torque Wrench Loaders

Auditor's torque wrench loaders are used for calibration of all types of torque wrenches, eliminating human variables for more accurate measurement.

FEATURES AND BENEFITS

- Solid machined aluminum base for stability
- Lead screw moves wrench handle to load transducer
- Two position handle for faster/slower movement
- Wrench reaction slide for ease of adjustment for torque wrench handle length



ATWL Torque Wrench Loaders

Model	Max Capacity		Size	
	FT-LB	NM	IN	CM
ATWL-250	250	340	12" (H) x 12" (D) x 30" (L)	30.5 cm (H) x 30.5 cm (D) x 76.2 cm (L)
ATWL-750	750	1,020	12" (H) x 16" (D) x 66" (L)	30.5 cm (H) x 40.6 cm (D) x 167.6 cm (L)
ATWL-1000	1,000	1,360	12" (H) x 24" (D) x 72" (L)	30.5 cm (H) x 61 cm (D) x 183 cm (L)

Auditor Preset Torque Wrenches

APTW Preset Torque Wrenches

Auditor's APTW preset wrenches provide a flexible, easy way to audit fastener torque. A wide range of interchangeable heads provide flexibility and convenience.

FEATURES AND BENEFITS

- Easy-to-use preset wrenches for fastener torque auditing
- Torque ranges from 5 – 340 Nm
- User friendly, sleek, ergonomic design
- Tactile feedback on achievement of preset torque
- Proprietary adjustment tool guards against unauthorized setting changes
- Wide range of interchangeable heads provide flexibility and convenience
- +/- 3% accuracy when used in clockwise or counterclockwise directions



APTW Torque Wrench Models

WRENCH MODEL	TORQUE RANGE	INSERT ACCEPTED
APTW-25	5 – 25 Nm	12 mm
APTW-50	10 – 50 Nm	12 mm
APTW-100	20 – 100 Nm	12 mm
APTW-150	30 – 150 Nm	12 mm
APTW-200	40 – 200 Nm	14 mm
APTW-340	60 – 340 Nm	14 mm

TORQUE WRENCH INSERTS

Adapters	Description
 APTH-12ADP	9 x 12 M to 14 x 18 F
 APTH-14ADP	14 x 18 M to 9 x 12 F

Ring End Inserts	Description
 APTH-12RE50	1/2" Ring End, 12 mm
 APTH-14RE32	32 mm Ring End, 14 mm

Square Drive Inserts	Description	
	9 x 12	
	APTH-12SD25	1/4" Sq. Dr.
	APTH-12SD38	3/8" Sq. Dr.
	APTH-12SD50	1/2" Sq. Dr.
	14 x 18	
	APTH-14SD50	1/2" Sq. Dr.

Blank End Inserts	Description
 APTH-12BLANK	12 mm
 APTH-14BLANK	14 mm

Ratchet Heads	Description	
	9 x 12	
	APTH-12RT25	1/4" Sq. Dr.
	APTH-12RT38	3/8" Sq. Dr.
	APTH-12RT50	1/2" Sq. Dr.
	14 x 18	
	APTH-14RT50	1/2" Sq. Dr.
	APTH-14RT34	3/4" Sq. Dr.

Open End Head Inserts							
	Model	Description	14 x 18				
		9 x 12					
	APTH-120E7	7 mm OE	APTH-140E1	1" OE	APTH-140E25	25 mm OE	
	APTH-120E8	8 mm OE	APTH-140E13	13 mm OE	APTH-140E27	27 mm OE	
	APTH-120E9	9 mm OE	APTH-140E14	14 mm OE	APTH-140E30	30 mm OE	
	APTH-120E10	10 mm OE	APTH-140E15	15 mm OE	APTH-140E32	32 mm OE	
	APTH-120E11	11 mm OE	APTH-140E16	16 mm OE	APTH-140E34	34 mm OE	
	APTH-120E12	12 mm OE	APTH-140E17	17 mm OE	APTH-140E36	36 mm OE	
	APTH-120E13	13 mm OE	APTH-140E18	18 mm OE	APTH-140E38	38 mm OE	
	APTH-120E14	14 mm OE	APTH-140E19	19 mm OE	APTH-140E41	41 mm OE	
	APTH-120E15	15 mm OE	APTH-140E21	21 mm OE	APTH-140E118	1-1/8" OE	
	APTH-120E16	16 mm OE	APTH-140E22	22 mm OE	APTH-140E138	1-3/8" OE	
	APTH-120E17	17 mm OE	APTH-140E24	24 mm OE			
APTH-120E18	18 mm OE						
APTH-120E19	19 mm OE						
APTH-120E20	20 mm OE						
APTH-120E50	1/2" OE						

Auditor Electronic Torque Wrenches

ATW Electronic Torque Wrenches

Precise Tightening and Auditing of Your Assembly Applications

"TRANSDUCERS ON A STICK"

- Non-Length Dependent – Where the operator's hand is positioned during use has no effect on torque readings
- Available in Industry Standard (IS) or Intelligent (Intellect) Configurations – Transducer is compatible with a wide variety of IS style instruments or Auditor Intellect instruments that self recognize the transducer
- Durable – Steel, Aluminum and Carbon Fiber construction provide optimal strength and weight. Transducer supplied with overload capacity of 150% of full scale
- Accurate – Torque readings are accurate to 1% of indicated reading in top 95% of full scale



ATW Torque Wrench Models

Model	Torque Range		Square Drive
	NM	FT-LB	IN
ATW-0100F	14 - 136	10 - 100	3/8
ATW-0200F	27 - 272	20 - 200	1/2
ATW-0500F	68 - 680	50 - 500	3/4
ATW-1000F	136 - 1,360	100 - 1,000	1

Required Accessory: ATDBRIS IS cable to connect Auditor ATDA instrument.

The Auditor logo features the word "AUDITOR" in a bold, italicized, sans-serif font. Above the letter "O" is a stylized graphic of a torque wrench head with three horizontal lines extending to the right. A small "TM" trademark symbol is located to the right of the graphic.

Phoenix III Digital Torque Wrenches

Phoenix III Transducerized Digital Torque Wrench

Quality Assurance Moves to the Next Level

The Phoenix III transducerized digital torque wrench sets a new standard for quality in Production or Auditing with a hand-held wrench. With Ranges from 1.5 - 600 Nm and available options up to 1,200 Nm, the Phoenix III covers a wide range of application demands and joint analysis requirements. Integrated Wi-fi technology expands the possibilities of reporting in Industry 4.0 methodologies.

FEATURES AND BENEFITS

- **Ultimate Flexibility:** Multiple Tightening Modes/Strategies
 - Free Test Mode: Track and Peak for testing without logging results.
 - Two Wrenches in One: Production/QA Functionality with multiple strategies
 - ▶ Torque Control (TC)
 - ▶ Torque Control + Angle Monitor (TC+AM)
 - ▶ Torque Control + Angle Control (TC+AC)
 - ▶ Breakaway
- **Easy Programming:** Configure Wrench through hassle-free TW Config software that is provided free of charge. Entries can be made using onboard wrench touchscreen or through connected PC
- **Industry 4.0:** Integrated 2.4Ghz Wi-fi module enables wireless communication over Open Protocol
- **Clear Results:** A 2.8" color display provides clear visualization of results with intuitive icons.
- Integrated barcode scanner module
- Wrench provides backup and restore of file settings. Data exportable in most industry-standard formats. Collected data can be reported to MSqnet software for production (MSqnet STA, TPC) and quality (MSqnet QA) applications
- 16 GB internal memory allows you to store up to 1,000,000 rundowns and traces, as well as 4,000 pscts
- Li-ion 3.7V, 3,500 mAh battery provides 10 hours of continuous operation



Carbon fiber construction lowers mass and reduces tool weight for better ergonomics.

4 LEDs on both sides of the tool vary in intensity and color, making it easy to see torque progress.

Ergonomic handle provides vibration and visual alerts.

2.8" color touch-screen display with intuitive icons



Phoenix III Electronic Torque Wrench

Model*	Torque Range		End Connector	Length (minus insert)		Weight	
	Nm	Ft-Lb		mm	in	kg	lb
Phoenix III-15nm	1.5 - 15	1.1 - 11	9x12	426	16.8	0.95	2.1
Phoenix III-30nm	3 - 30	2.2 - 22	9x12	426	16.8	0.95	2.1
Phoenix III-70nm	7 - 70	5.2 - 52	9x12	488	19.2	1.00	2.2
Phoenix III-100nm	10 - 100	7.4 - 74	9x12	488	19.2	1.03	2.3
Phoenix III-200nm	20 - 200	14.8 - 148	14x18	615	24.2	1.57	3.5
Phoenix III-300nm	30 - 300	22 - 220	14x18	765	30.1	1.69	3.7
Phoenix III-400nm	40 - 400	29.5 - 295	14x18	866	34.1	1.89	4.2
Phoenix III-600nm	60 - 600	44.3 - 443	14x18	1,050	41.3	2.02	4.5

* Common models shown. Models with capacity up to 1,200 Nm (885 ft-lb) available by request



Mobile Torque Testing Station

Mobile Torque Testing Stations

AIMCO's Mobile Torque Testing Stations are portable devices employed to verify torque tools and torque auditing devices. These stations allow for movement of the testing systems to the line or flexibility within space-constrained tool cribs.



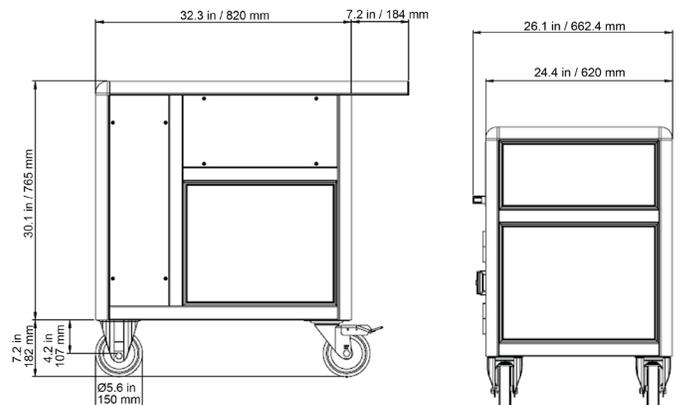
FEATURES AND BENEFITS

- Compatible with complete range of AIMCO's torque measurement and auditing equipment, including rotary and stationary transducers, torque testers, data collectors, and multiple joint kits, which facilitate tests on hard to soft joints
- Custom configured to the user's specific needs
- Ideal for measurement of continuous drive, impulse, and hand torque tools
- Flexible design, light and easy to maneuver. Durable and robust wheels for portable line-side tool testing
- Solutions for various torque ranges from 0.2 Nm to 500 Nm. Additional larger ranges possible by request
- Optional built-in battery system allows users to power and charge equipment on the go
- Can be configured to communicate with your system or our OMS management software
- Loaders for precise testing of manual torque wrenches can be specified



Mobile Torque Testing Station

Model	Weight		Dimensions H x W x D	Max Load	
	LB	KG		LB	KG
Mobile Torque Testing Station	220	100	37.3 x 39.5 x 24.4 in 947 x 1004 x 620 mm	1,984	900



Transducers

Torque Measurement: Transducers

Features and Benefits

Superior:

- Accuracy
- Compatibility
- Durability

Auditor offers multiple styles of transducers in various configurations. Industry standard transducers (2mv/v) and intellect transducers for Auditor instruments that reduce configuration set up time.

	Rotary			Stationary	
					
	ARTU	ARTIS	ASTU	ASTIS	AISI - AISF*
	Auditor Rotary Transducer (Smart)	Auditor Rotary Transducer Industry Standard	Auditor Stationary Transducer (Smart)	Auditor Stationary Transducer Industry Standard	Auditor Stationary Transducer Industry Standard

Used in Conjunction with Analyzer

ADTT	X		X		
ATDA		X		X	X

Please contact an AIMCO Customer Service Associate for additional information, 1-503-254-6600, or toll free 1-800-852-1368.

AUDITOR ROTARY TRANSDUCERS

Suitable for use with all continuous drive tools, impulse tools, and torque wrenches.



ARTU Smart Rotary Transducers

ARTU Transducers have a small, compact design, that allows use in limited access areas. Incorporates a "smart chip" for plug-n-play operation.



ARTIS Industry Standard Rotary Transducers

Small compact design, that allows use in limited access areas. Rugged aluminum alloy housing. Can be used with multiple brands of analyzers.

ARTU Smart Rotary Transducers

For use with ADTT Torque Testers

Rotary Smart Model*	Drive IN	Max Torque		Weight LB
		NM	IN-LB/FT-LB	
ARTU-25H-2T(A)	1/4 Hex	2	18 in-lb	1.0
ARTU-25H-5T(A)	1/4 Hex	5	44 in-lb	1.0
ARTU-25H-10T(A)	1/4 Hex	10	88 in-lb	1.0
ARTU-25H-20T(A)	1/4 Hex	20	180 in-lb	1.0
ARTU-25S-10T(A)	1/4 Sq.	10	88 in-lb	1.0
ARTU-25S-20T(A)	1/4 Sq.	20	180 in-lb	1.0
ARTU-38S-25T(A)	3/8 Sq.	25	225 in-lb	1.2
ARTU-38S-75T(A)	3/8 Sq.	75	50 ft-lb	1.2
ARTU-50S-180T(A)	1/2 Sq.	180	130 ft-lb	1.5
ARTU-75S-250T(A)	3/4 Sq.	250	180 ft-lb	2.2
ARTU-75S-500T(A)	3/4 Sq.	500	370 ft-lb	2.2
ARTU-100S-750T(A)	1 Sq.	750	553 ft-lb	4.0
ARTU-100S-1400T(A)	1 Sq.	1400	1,025 ft-lb	4.0

*Models ending with T measure Torque only transducers. Models ending with TA measure Torque and Angle.

ARTIS Industry Standard Rotary Transducers

For use with ATDA Torque Analyzers

Industry Standard Model*	Drive IN	Max Torque		Weight LB
		NM	IN-LB/FT-LB	
ARTIS-25H-2T(A)	1/4 Hex	2	18 in-lb	1.0
ARTIS-25H-5T(A)	1/4 Hex	5	44 in-lb	1.0
ARTIS-25H-10T(A)	1/4 Hex	10	88 in-lb	1.0
ARTIS-25H-20T(A)	1/4 Hex	20	180 in-lb	1.0
ARTIS-25S-10T(A)	1/4 Sq.	10	88 in-lb	1.0
ARTIS-25S-20T(A)	1/4 Sq.	20	180 in-lb	1.0
ARTIS-38S-25T(A)	3/8 Sq.	25	225 in-lb	1.2
ARTIS-38S-75T(A)	3/8 Sq.	75	50 ft-lb	1.2
ARTIS-50S-180T(A)	1/2 Sq.	180	130 ft-lb	1.5
ARTIS-75S-250T(A)	3/4 Sq.	250	180 ft-lb	2.2
ARTIS-75S-500T(A)	3/4 Sq.	500	370 ft-lb	2.2
ARTIS-100S-750T(A)	1 Sq.	750	553 ft-lb	4.0
ARTIS-100S-1400T(A)	1 Sq.	1400	1,025 ft-lb	4.0

*Models ending with T measure Torque only transducers. Models ending with TA measure Torque and Angle.

Transducers

AUDITOR STATIONARY TRANSDUCERS

Stationary Transducers with joint rundown fixtures and, where applicable, bench stands.



ASTU Smart Stationary Transducers

Connect to ADTT Torque Testers and mount directly to a benchtop. Incorporates a "smart chip" for plug-n-play operation.

ASTU Smart Transducers

For use with ADTT Torque Testers

Model*	NM	Max Torque		Drive IN
		IN-LB/FT-LB		
ASTU-25D-6	5.6	50 in-lb		1/4
ASTU-25D-11	11	100 in-lb		1/4
ASTU-25D-28	28	250 in-lb		1/4
ASTU-38D-67	67	50 ft-lb		3/8
ASTU-38D-135	135	100 ft-lb		3/8
ASTU-50D-270	270	200 ft-lb		1/2
ASTU-75D-540	540	400 ft-lb		3/4
ASTU-75D-1000	1,017	750 ft-lb		3/4
ASTU-100D-1700	1,695	1,250 ft-lb		1

*For configuration options, contact an AIMCO Customer Service Associate, 1-503-254-6600, or toll free 1-800-852-1368.



ASTIS Industry Standard Stationary Transducers

Industrial transducers constructed of heavy-duty stainless steel and used in tool crib and production applications for hand & power tools. Can be used with multiple brands of analyzers.

ASTIS Industry Standard Transducers

For use with ATDA Torque Analyzers

Model*	NM	Max Torque		Drive IN
		IN-LB/FT-LB		
ASTIS-25D-11	11	100 in-lb		1/4
ASTIS-25D-28	28	250 in-lb		1/4
ASTIS-38D-135	135	100 ft-lb		3/8
ASTIS-50D-270	270	200 ft-lb		1/2
ASTIS-75D-1000	1017	750 ft-lb		3/4
ASTIS-100D-1700	1,695 Nm	1,250 ft-lb		1

* For configuration options, contact an AIMCO Customer Service Associate, 1-503-254-6600, or toll free 1-800-852-1368.



AISI / AISF Industry Standard Stationary Transducers

Connect to ATDA analyzers and mount directly to a benchtop. Can be used with multiple brands of analyzers.
AISI = Torque in in-lb
AISF - Torque in ft-lb

AISI & AISF Industry Standard Transducers

For use with ATDA Torque Analyzers

Model*	Max Torque		Weight		W X H X D		Drive IN
	NM	IN-LB/FT-LB	KG	LB	MM	IN	
AISI-200025	2.8	25 in-lb	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/4
AISI-200100	11.3	100 in-lb	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/4
AISI-200500	56.5	500 in-lb	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	3/8
AISF-200100	136	100 ft-lb	2.25	5	100 x 65	4 x 3	1/2
AISF-200250	339	250 ft-lb	2.25	5	100 x 65	4 x 3	1/2
AISF-201000	1,350	1,000 ft-lb	2.8	6	100 x 65	4 x 3	1

*For configuration options, contact an AIMCO Customer Service Associate, 1-503-254-6600, or toll free 1-800-852-1368.

Auditor AISI / AISF Industry Standard Transducers Configuration Options

Base Model #	Angle	Capacity	Configuration	Expanded Range*	Digital	Drive Size	Wireless
Model # Digits 1-5	Model # Digit 6	Model # Digits 7-11	Model # Digit 12	Model # Digit 13	Model # Digit 14	Model # Digit 15	Model # Digit 16
Stationary							
AISI- (in-lb capacities)	2						2
AISF- (ft-lb capacities)	2						2

*Standard range is 10%-100% of maximum capacity. Expanded range is 5%-100% of maximum capacity.

Transducers are available in capacities of up to 10,000 Ft-Lb. Contact an AIMCO Customer Service Associate at 1-503-254-6600, or toll free 1-800-852-1368.

Rundown Fixtures

Torque Measurement: Rundown Fixtures

Features and Benefits

- Enables accurate and repeatable testing of pneumatic or electric power tools
- Mechanical Belleville system of bolt, nut or nut body, Belleville washers and main housing, 1/4" - 3/4" drive sizes, 10 in-lb - 1,200 ft-lb
- Fixtures can be ordered to simulate hard, med., or soft joints



ARDFA-XXXXHD
ARDIA-XXXXHD

ARDFA-XXXXHDS
ARDIA-XXXXHDS

ARDFA-XXXXHDE
ARDIA-XXXXHDE

ARDFA-XXX
ARDIA-XXX

Wear-Resistant Heavy Duty	X			
Heavy Duty, Fully Encapsulated		X		
Heavy Duty, Encapsulated Washers			X	
Standard (Included w/analyzer)				X
Spline Drive				
Used in Conjunction with External Transducer				
ASTIS	X	X	X	X
AISI / AISF	X	X	X	X
ARTIS	X	X	X	X

*Spline drive feature provides rundown control when testing pulse tools.

AUDITOR RUNDOWN FIXTURES

To test power tools, pneumatic or electric, consistent rotational speed must be achieved. The joint rundown fixture/simulator provides the means by which the tool motor and spindle rotates freely at the start of the test cycle and then develops torque as rotation resistance increases as fastener/joint load increases. The linearity and consistency of the joint rundown fixtures/simulators vary greatly and the tool test data is a product of the variations in these rundown fixtures. Higher quality joint rundown fixtures produce torque data with less scatter.



ARDIA Models

Model*	Recommended Torque Range		Square Drive
	NM	IN-LB	
ARDIA-10(HD)(HDE)(HDS)	.13 - 1.13	1.0 - 10	1/4"
ARDIA-25(HD)(HDE)(HDS)	.28 - 2.8	2.5 - 25	1/4"
ARDIA-50(HD)(HDE)(HDS)	.56 - 5.6	5 - 50	1/4"
ARDIA-100(HD)(HDE)(HDS)	1.3 - 11.3	10 - 100	1/4"
ARDIA-150(HD)(HDE)(HDS)	1.7 - 16.9	15 - 150	1/4"
ARDIA-250(HD)(HDE)(HDS)	2.8 - 28.3	25 - 250	3/8"
ARDIA-350(HD)(HDE)(HDS)	4 - 40	35 - 350	3/8"
ARDIA-500(HD)(HDE)(HDS)	5.6 - 56.5	50 - 500	3/8"
ARDIA-750(HD)(HDE)(HDS)	8.5 - 84.7	75 - 750	3/8"
ARDIA-1000(HD)(HDE)(HDS)	11.3 - 113	100 - 1,000	3/8"

*Add "HD" to part numbers for wear resistant models. Add "HDS" to part numbers for fully encapsulated wear resistant models.

*Add "HDE" to part numbers for partial encapsulated wear resistant models.

ARDFA Models

Model*	Recommended Torque Range		Square Drive
	NM	FT-LB	
ARDFA-100(HD)(HDE)(HDS)	13.6 - 136	10 - 100	1/2"
ARDFA-150(HD)(HDE)(HDS)	20.4 - 204	15 - 150	1/2"
ARDFA-250(HD)(HDE)(HDS)	34 - 340	25 - 250	1/2"
ARDFA-350(HD)(HDE)(HDS)	48 - 475	35 - 350	1/2"
ARDFA-500(HD)(HDE)(HDS)	67.8 - 678	50 - 500	3/4"
ARDFA-600(HD)(HDE)(HDS)	81.6 - 816	60 - 600	3/4"
ARDFA-750(HD)(HDE)(HDS)	101.7 - 1,017	75 - 750	3/4"

* Add "HD" to part numbers for wear resistant models. Add "HDS" to part numbers for encapsulated wear resistant models.

* Add "HDE" to part numbers for partial encapsulated wear resistant models.

Joint Kits / Joint Simulators

JOINT KITS

Joint kits are an essential accessory for accurate off-line testing of powered assembly tools.

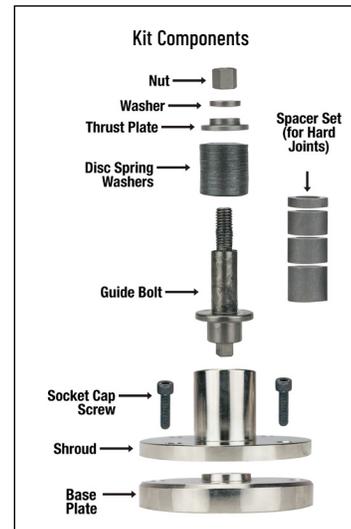
- Represent production joint conditions off the production line
- Can be adjusted to include joint conditions specified by ISO 5393
- Allows free running of bolt before torque gradient
- Provide linear response. Repeatability 1/4" - 1" drive sizes, 28 - 1,695 Nm.

AJKR & AJKS Joint Kits

Rotary Kit*	Model	Drive Size - IN
	AJKR-28	1/4
	AJKR-135	3/8
	AJKR-271	1/2
	AJKR-1017	3/4
	AJKR-1695	1
Stationary Kit**	Model	Drive Size - IN
	AJKS-25D	1/4
	AJKS-38D	3/8
	AJKS-50D	1/2
	AJKS-75D	3/4
	AJKS-100D	1

* AJKR for use with ARTIS external transducers..

**AJKS for use with ASTIS or ARTIS external transducers.



UFT SERIES HYDRAULIC MECHANICAL JOINT SIMULATORS



UFT-6

UFT-10

UFT-16



UFT-S10

UFT-S16



UFT-24

- Designed for pulse tool and continuous drive tool certification and testing, UFT Joint Simulators offer the most repeatable and linear joint rate simulation on the market
- For use with ARTIS external transducers
- Bolt tightening body and hydraulic pressure loading mechanism are connected by a hydraulic pressure circuit. Ideal for ISO 5393 test procedures
- Quickly and easily simulate three joint rates by opening or closing two external valves
- Specially coated testing bolt produces over 100,000 cycles without variation or deformation

UFT Joint Simulators

Model	Bolt Size	Torque Range		Weight	
		NM	FT-LB	LB	KG
UFT-6	M5	3.2 - 5.4	2 - 4	8	3.6
	M6	5.4 - 14.7	4 - 11		
	M8	14.7 - 31.4	11 - 23		
UFT-10 / UFT-S10	M6	5.4 - 14.7	5 - 11	43	19.5
	M8	14.7 - 31.4	11 - 23		
	M10	31.4 - 53.9	23 - 40		
UFT-16 / UFT-S16	M12	53.9 - 88.2	40 - 65	88	40
	M14	88.2 - 149	65 - 110		
	M16	149 - 190	110 - 140		
UFT-24*	M18	190 - 294	140 - 217	108	49.1
	M20	294 - 441	217 - 325		
	M24	441 - 686	325 - 506		

* UFT-24 medium hard/soft joints only

Reaction fixture for continuous drive tools not included. Sockets included.

Torque Measurement Cables



Torque Measurement Cables

Model	Description	Serial Cable	Transducer Cable	Rotary	Rotary W/Angle	Stationary	Ind Std	Intellect
ICBL-USB*	Connects between COM port of display to PC	X						
ATDBLIS*	Connect to IS transducer w/ angle - 10 pin		X		X		X	
ATDBRIS*	Connect to IS transducer - 4 pin		X	X		X	X	
ICBL-10P*	Intellect transducer cable. Identification chip in cable - 10 pin connector		X		X			X
ICBL-4P*	Intellect transducer cable. Identification chip in cable - 4 pin connector		X	X		X		X
ICBL-5000L	Connect from AUET/MTM & ATDA to Intellect Transducers, Analog AISI / AISF		X			X		X
ICBL-8000DIG	Connect PC to digital transducers through digital module		X					

* Compatible with ATDA, AUET products

Tester / Analyzer Compatibility

Model	ATC	AUET	AUET/MTM	AUET-DC	AUET/MTM-DC	ATDA	ATDA-DC	AISWT Switchbox	AIMTS Test Stand
ICBL-USB	X	X	X	X	X	X	X		
ATDBLIS		X	X	X	X	X	X		
ATDBRIS		X	X	X	X	X	X		
ICBL-10P		X	X	X	X	X	X		
ICBL-4P		X	X	X	X	X	X		
ICBL-5000L			X		X	X	X	X	X
ICBL-8000DIG									X

Transducer Compatibility

Model	Stationary			Rotary
	ASTIS	Analog AISI/AISF	Digital AISI/AISF	ARTIS
ATDBLIS				X
ATDBRIS	X			X
ICBL-10P				X
ICBL-4P				X
ICBL-5000L		X		
ICBL-8000DIG			X	





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