



TORQUE MEASUREMENT SOLUTIONS 2025

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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 **DESIGNED AND ASSEMBLED IN THE USA.**

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TORQUE MEASUREMENT

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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:

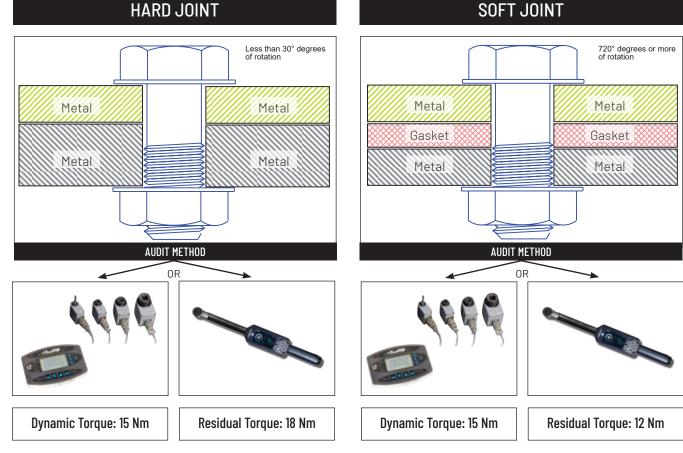
- Reduces operator influence
- Measures applied torque
- Can also include angle of rotation as error proofing parameter

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



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.

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.



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



MEASURING QUALITY - PROCESS CAPABILITY

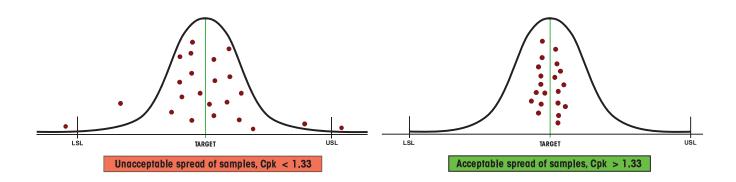
Statistical Analysis Is An Important Step In Any Quality Control Process

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.

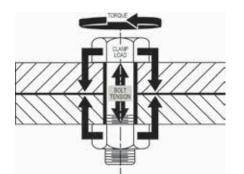
Cpk = either (USL - Mean) or (Mean - LSL), whichever is smaller. (3 x σ) (3 x σ)

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



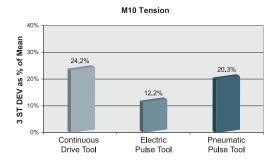
MEASURING QUALITY - CLAMP LOAD

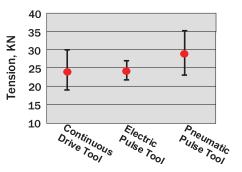
The purpose of threaded fastening is to produce the correct amount of clamp load within the joint.



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 Measurement: Overview



Torque Measure	ement Systems									
Devices	Model Series	Data Collector	Integrated Transducer	Torque Wrench	Torque Wrench Loader	External Transducer Port	Stationary Transducers -Smart	Stationary Transducers -Ind Std	Rotary Transducer -Smart	Rotary Transducer - Ind Std
Testers	ATC		Х							
	AUET		Х							
	AUET-DC	Х	Х	L						
	AUET/MTM		Х			Х				
	AUET/MTM-DC	Х	Х		L	Х			ļ	
Analyzers	ATDA					Х				
	ATDA-DC	Х				Х				
Test Stands	AHCTS*	Х*	Х*	Х*			Х*	Х*	Χ*	Χ*
	AHCTS-K*	Χ*	Χ*	Χ*			Χ*	Χ*	Χ*	Χ*
	AHDTS*	Х*	χ*	Χ*			Χ*	Χ*	χ*	Х*
	AIMTS*	χ*	χ*	Χ*			Χ*	χ*	χ*	Х*
Wrenches	APTW			Х						
	ATW			Х						
	Phoenix III	Х	Х	Х						
	ATWL				Х					
Torque Testing Cart	Mobile Torque Testing Station	Х*	Х*	Х*	Х*	Х*	Χ*	Х*	Х*	Х*
Transducers	ARTIS									Х
	ASTIS							Х		
	AISI						Х			
	AISF						Х			
Rundown	ARDFA									
Fixtures	ARDIA									
Joint	AJKR									
Kits	AJKS									
Joint Simulator	UFT									

*configured to customer specifications

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Torque Measurement: Testers

Features and Benefits

- Heavy industrial design
- •
- •

 Heavy industrial design 	de		ST SA		1 NO
All software included	Tables		Sugar Contraction	100	
Auditor Torque Testers are designed for intuitive and functional usability. AUET/MTM models are					
available with our unique dual integrated torque transducer package.	ATC	AUET	AUET/MTM	AUET-DC	AUET/MTM-DC
Testers are designed to audit torque wrenches and power tools, including pulse tools	Auditor Torque Cube	Auditor Universal Electronic Tester	Auditor Universal Electronic Tester - Multiple Transducer Module	Auditor Universal Electronic Tester - Data Collector	Auditor Universal Electronic Tester/Multiple transducer Module - Data Collector
	Compact vertical or horizontal bench- mount tester.	Bench mount or line side tester utilizing integrated transducer.	Bench mount or line side tester with dual integrated transducer and external transducer capacity.	Bench mount or line side tester utilizing integrated transducer. Provides data collection capability with included software to interface with PC.	Bench mount or line side tester with dual integrated transducer and external transducer capacity. Data collection capability with included software to interface with PC.
Integrated Transducer Range (values are in full scale)	1 - 1,350 Nm 100 in-oz - 1,000 ft-lb	1 - 1,000 Nm 100 in-oz - 750 ft-lb	1 - 1,000 Nm 100 in-oz - 750 ft-lb	1 - 1,000 Nm 100 in-oz - 750 ft-lb	1 - 1,000 Nm 100 in-oz - 750 ft-lb
External Transducer Capacity (Transducer sizes exceeding this range may be special ordered)			up to 5,000 ft-Ib		up to 5,000 ft-lb
Vertical / Horizontal Mount	Х				
Bi-directional accuracy of +/- X of indicated reading within the top 90% of the tester's capacity	1%	0.50%	0.50%	0.50%	0.50%
Data Output to PC	Х	Х	Х	Х	Х
Integrated Torque Transducer	1	1	2	1	2
External Transducer Port			Х		Х
Number of Stored Readings	999	999	999	999	999
Adjustable Rundown Fixture Included *	1	1	2	1	2
Rechargeable NiMH Battery	Х	Х	Х	Х	Х
Measurement Modes					
Peak	Х	Х	Х	Х	Х
First Peak (Click)	Х	Х	Х	Х	Х
Pulse	Х	Х	Х	Х	Х
Track	Х	Х	Х	Х	Х
Units of Measure Options	8	8	8	8	8
Tool Manager Software Included				Х	Х

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

Torque Measurement Testers Used In Conjunct	ion With				
External Transducers					
ASTIS - Stationary			Х		Х
AISI / AISF - Stationary - Analog			Х		Х
ARTIS - Rotary			Х		Х
Switch box for External Transducer					
AISWT-4L > 4 Way Intellect box			Х		Х
AISWT-6L > 6 Way Intellect box			Х		Х
Cables			-	-	
ICBL-USB - USB Serial > PC	Х	Х	Х	Х	Х
ATDBLIS - IS Transducer w/angle (10 Pin)			Х		Х
ATDBRIS - IS Transducer (4 Pin)			Х		Х
ICBL-10P - Intellect transducer cable Identification chip in cable - 10 pin connector			Х		Х
ICBL-4P - Intellect transducer cable. Identification chip in cable - 4 pin connector			Х		Х
ICBL-5000L - Connect from AUET/MTM & ATDA to Intellect Transducers, Analog AISI / AISF			Х		Х

Auditor Torque Cube





ATC-150F ATC-250F ATC-500F ATC-750F

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
- Bi-directional use and accuracy
- Accuracy is better than 1% of indicated reading top 90% of range
- Serial data output
- Memory: 999 data samples
- Battery and/or mains powered

ATC Auditor Torque Cube Models

Because precision and quality are critical, you can depend on Auditor testers to calibrate and certify your tools. Whether you are assembling large complicated systems or small precise time pieces, AIMCO provides the best system for your application. Our instruments have been judged "best in class" by independent National Standards laboratories. 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.

Model	Recommende NM	ed Torque Range IN-LB/FT-LB	KG	Weight LB	W x MM	H x D IN	Square Drive IN
Vertical Configuration							
ATC-10	0.13 - 1.13	1 - 10 in-Ib	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-Ib	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-Ib	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-Ib	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-Ib	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-Ib	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-Ib	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/2
Horizontal Configurat	ion						
ATC-150F	20 - 200	15 - 150 ft-Ib	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-Ib	2.25	5	79 x 95 x 83	3.13 x 3.75 x 3.25	3/4

Auditor Bench-Mount Testers



AUDITOR UNIVERSAL ELECTRONIC TESTERS

Auditor Universal Electronic Testers (AUET) have a broad range of features to accommodate most requirements. They are designed to be bench-top mounted and are available in several configurations and various single or multiple torque ranges. Onboard memory allows you to capture 999 torque event readings. The testers are also available in file capability (DC) models that require PC software Auditor Tool Manager (ATM). Instruments up to 1,000 in-lb are supplied with rundown adapters/joint kits. Rundown kits for larger instruments can be ordered separately. AUET/MTM units are supplied with an external transducer port and selector switch for connecting additional transducers.

AUET testers utilize the same transducers as the ATC instruments, providing the same high quality accuracy and durability. The common interface makes the Auditor tester extremely user friendly.



AUET Single Transducer Models

	Recommended	I Torque Range
Model*	KGF-CM/NM	IN-0Z/IN-LB
AUET-050(-DC)	0.4 - 3.6 kgf-cm	5 - 50 in-oz
AUET-0100(-DC)	0.7 - 7.2 kgf-cm	10 - 100 in-oz
AUET-10(-DC)	1.1 - 11.5 kgf-cm	1 - 10 in-Ib
AUET-50(-DC)	0.5 - 5.6 Nm	5 - 50 in-Ib
AUET-100(-DC)	1.1 - 11.3 Nm	10 - 100 in-Ib
AUET-250(-DC)	2.8 - 28.3 Nm	25 - 250 in-Ib
AUET-500(-DC)	5.7 - 56.5 Nm	50 - 500 in-Ib
AUET-1000(-DC)	11.3 - 113 Nm	100 - 1,000 in-lb
AUET-1200(-DC)	13.6 - 135.6 Nm	120 - 1,200 in-Ib
AUET-1800(-DC)	20.3 - 203.4 Nm	180 - 1,800 in-Ib

* Add "-DC" to part numbers for data collecting models.

Data collecting models allow multiple files/tools/applications to be associated with torque data. Requires Tool Manager software.

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

AUET/MTM Dual Transducer Models

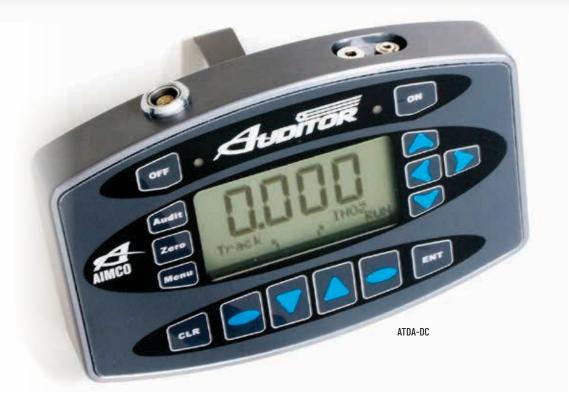
		Recommended	I Torque Range	
Model**	Transducer 1	Transducer 2	Transducer 1	Transducer 2
AUET/MTM-050-25	0.04 - 0.4 Nm	0.3 - 2.8 Nm	5 - 50 in-oz	2.5 - 25 in-Ib
AUET/MTM-050-600	0.04 - 0.4 Nm	6.8 - 67.8 Nm	5 - 50 in-oz	60 - 600 in-lb
AUET/MTM-0100-050	0.07 - 0.71 Nm	0.04 - 0.4 Nm	10 - 100 in-oz	5 - 50 in-oz
AUET/MTM-10-100	0.11 - 1.12 Nm	1.3 - 11.3 Nm	1.0 - 10 in-lb	10 - 100 in-Ib
AUET/MTM-50-250	0.56 - 5.65 Nm	2.8 - 28.3 Nm	5.0 - 50 in-lb	25 - 250 in-Ib
AUET/MTM-50-500(-DC)	0.56 - 5.65 Nm	5.7 - 56.5 Nm	5.0 - 50 in-lb	50 - 500 in-lb
AUET/MTM-50-1000(-DC)	0.56 - 5.65 Nm	11.3 - 113 Nm	5.0 - 50 in-lb	100 - 1,000 in-Ib
AUET/MTM-100-500	1.13 - 11.3 Nm	5.7 - 56.5 Nm	10 - 100 in-Ib	50 - 500 in-Ib
AUET/MTM-100-1000	1.13 - 11.3 Nm	11.3 - 113 Nm	10 - 100 in-Ib	100 - 1,000 in-Ib
AUET/MTM-100-1200	1.13 - 11.3 Nm	13.6 - 135.6 Nm	10 - 100 in-Ib	120 - 1,200 in-Ib
AUET/MTM-100-1600(-DC)	1.13 - 11.3 Nm	18.1 - 180.8 Nm	10 - 100 in-Ib	160 - 1,600 in-Ib
AUET/MTM-100-2000	1.13 - 11.3 Nm	22.6 - 226 Nm	10 - 100 in-Ib	200 - 2,000 in-lb
AUET/MTM-250-1600	2.82 - 28.2 Nm	18.1 - 180.8 Nm	25 - 250 in-Ib	160 - 1,600 in-Ib
AUET/MTM-250-1800	2.82 - 28.2 Nm	20.3 - 203.4 Nm	25 - 250 in-lb	180 - 1,800 in-Ib
AUET/MTM-250-2500	2.82 - 28.2 Nm	28.2 - 282.5 Nm	25 - 250 in-Ib	250 - 2,500 in-Ib
AUET/MTM-500-1200	5.7 - 56.5 Nm	13.6 - 135.6 Nm	50 - 500 in-lb	120 - 1,200 in-Ib
AUET/MTM-500-2500(-DC)	5.7 - 56.5 Nm	28.2 - 282.5 Nm	50 - 500 in-Ib	250 - 2,500 in-Ib

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

Auditor Torque Measurement Analyzers

Torque Measurement: Analyzers	t.	
Features and Benefits		C THE
 Auditor Torque Analyzers share similar features across all products and are designed for intuitive and functional usability. 	A COLOR	
Connects to AIMCO's line of rotary and stationary transducare	ΑΤDΑ	ATDA-DC
stationary transducers	Auditor Torque Data Analyzer	Auditor Torque Data Analyzer with Data Collection
	Portable analyzer to be connected to various transducers	Portable analyzer to be connected to various transducers. Provides data collection capability with included software to interface with PC
Bi-directional	Х	X
Data Output to PC	Х	Х
External Transducer Port	1	1
Number of stored readings	999	999
Rechargeable NiMH Battery	Х	Х
Digital I/O for external devices	Х	Х
Measurement Modes	Х	Х
Peak	Х	Х
First Peak (Click)	Х	Х
Pulse	Х	Х
Track	Х	Х
Measurement Units	8	8
Software Included		Х
Used In Conjunction With Transducers		
AISI / AISF - Analog	X	Х
AISI / AISF - Digital	Λ.	Λ
ASTIS - Stationary	X	Х
ARTIS - Rotary	X	X
Wrenches	Λ	Λ
ATW	Х	Х
Switch boxes for External Transducers	17	Л
AISWT-4L > 4 Way Intellect box	Х	Х
AlSWT-6L > 6 Way Intellect box	X	X
Cables	Λ	Λ
ICBL-USB - USB Serial > PC	X	Х
ATDBLIS - IS Transducer w/ angle (10 Pin)	X	X
ATDBRIS - IS Transducer (4 Pin)	X	х Х
ICBL-10P - Intellect transducer cable. Identification chip in cable - 10 pin connector	X	X
ICBL-4P - Intellect transducer cable. Identification chip in cable – 4 pin connector	X	Х
ICBL-5000L - Connect from AUET/MTM & ATDA to Intellect Transducer, Analog AISI / AISF	X	Х

Auditor Torque Data Analyzers



AUDITOR TORQUE DATA ANALYZERS

The Auditor Torque Data Analyzer (ATDA) DC is designed to be portable or conveniently placed on a bench. The tester can be connected to various transducers, as well as transducerized wrenches and rotary or stationary transducers. The user interface is common between the ATC (Cube), AUET, AUET-DC, AUET/MTM, AUET/MTM-DC, 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 Auditor Torque Data Analyzer Models

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



Auditor Data Collection Software

Data Collection Software		interior intor interior interior intor		
Auditor Tool Manage	er Software	Auditor Audit Manager Software	SMD Tools Software	Custom Software for Mobile Cart
Test, verify, and archive tool		Comprehensive statistical analysis, data archiving, and data export	Use a PC as a torque tester/display for testers and transducers	AIMCO will provide a custom torque software package tailored to your project
Create a database of tools a results with easy-to-use sof 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	Contact an AIMCO Customer Service Associate for more information, 1-503-254-6600, or toll free 1-800-852-1368.
Compatibility				
Desktop or PC			Х	
ATC			Х	
ATDA			Х	
	V	V		

ATDA-DC	Х	Х		
AUET			Х	
AUET-DC	Х	Х		
AUET/MTM			Х	
AUET/MTM-DC	Х	Х		
ARTIS				
ARTIS-DIG			Х	
AISI/AISF				
AISI/AISF (Digital)			Х	
Mobile Torque Testing Station				Х

Seconflores Mode 2 Capacity U New House UD0P 750 Newtowne Urge Seconf Strategy Mode Vack Tele 500 (c) Christel Manual Christel Manual Carses Sec Cares			
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Aust D. 2002 Rode Pack Film 500 Hp Office Matual COlfum, Matual			
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AUDITOR TOOL MANAGER SOFTWARE

Tool Manager Software is included with the purchase of AUET-DC and AUET/ MTM-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.

Tool Manager Software, Tool Overview Screen

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.

lob Info				Poute Info				
Available Jobs				Available Routes	Jobs in Route			
Ar Bag Pasa Sde	Fastener/Application Name	Ar Bag Steering Vit-		Bectral	Ar Bag Pate Scle	Fastener/Application Name		
Ar Bag Curtain - LH Ar Bag Curtain - RH	Une #	UAT-70		C. Contra	Ar Bag Cutain - LH Ar Bag Cutain - RH	Unit #	UAT-70	
Seat Belt Install Stoomy Wheel Install	Process #	1234			Seat Bet Initial Steering Wheel Initial	Process #	1234	
Sattery Connection	# of Samples	5			TO VIOLATION	# of Samples	3	
	Adapters	No				Adapters	No	
	Tarpet	25	Ne			Tarpet	25	284
	Upper Limit	30	No.			Upper Limit	30	Net
	Lower Lost	20	Net			Lower Lint	20	Net
New Er					Edit Send	Selected Route to Wrench	Fleed Data From 1	Wreers

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

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SMD Tools Software, Cal Cert Screen

 • Advanced test stations for larger tools and 	NO. SA		11. Q	
higher torque output	55			
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 recommende to utilize rundown fixtures when testing impacts.
Capacity	6,750 Nm	33,750 Nm	33,750 Nm	2,700 Nm
Accessories				
Rundown fixtures				
AHCTS-3/4RDF	Х		Х	
AHCTS-1RDF	Х		Х	
AHCTS-1.5RDF	Х		Х	

Adapters

		AHCTS	AHCTS-K	AHDTS	AIMTS
pters*					
CA1510	1-1/2" Male to 1" Female	Х		Х	
CA1550	1-1/2" Male to 1/2" Female	Х		Х	
CA1575	-1/2" Male to 3/4" Female	Х		Х	
CA2510I	2-1/2" Male to 1" Female	Х	Х	Х	
CA25151	2-1/2" Male to 1-1/2" Female	Х	Х	Х	
CA25751	2-1/2" Male to 3/4" Female	Х	Х	Х	
rs*					
CA150108	DHD 1-1/2" Male to 1-1/2" Male Hex		Х		
	CA1550 CA1575 CA25101 CA25151 CA25751 rs*	CA1510 1-1/2" Male to 1" Female CA1550 1-1/2" Male to 1/2" Female CA1575 -1/2" Male to 3/4" Female CA25101 2-1/2" Male to 1" Female CA25151 2-1/2" Male to 1-1/2" Female CA25751 2-1/2" Male to 3/4" Female rs*	pters* CA1510 1-1/2" Male to 1" Female X CA1550 1-1/2" Male to 1/2" Female X CA1575 -1/2" Male to 3/4" Female X CA25101 2-1/2" Male to 1" Female X CA25151 2-1/2" Male to 1" Female X CA25751 2-1/2" Male to 1-1/2" Female X rs*	pters* CA1510 1-1/2" Male to 1" Female X CA1550 1-1/2" Male to 1/2" Female X CA1575 -1/2" Male to 3/4" Female X CA25101 2-1/2" Male to 1" Female X CA25151 2-1/2" Male to 1-1/2" Female X CA25751 2-1/2" Male to 3/4" Female X rs* Image: State Stat	pters* X X CA1510 1-1/2" Male to 1" Female X X CA1550 1-1/2" Male to 1/2" Female X X CA1575 -1/2" Male to 3/4" Female X X CA1575 -1/2" Male to 3/4" Female X X CA25101 2-1/2" Male to 1" Female X X CA25151 2-1/2" Male to 1-1/2" Female X X CA25751 2-1/2" Male to 3/4" Female X X rs* Image: State Stat

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



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	¾" 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.



AHDTS 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.

AHDTS Dual Test Stand Models

Model	Description				
AHDTS-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.



AHCTS-001K

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-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 Series High C	apacity Test Stands	for Rotary and I	Hydraulic Tools Config	uration Options				
Base Model Number	Display	Legs	Base Size	Rundown 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 T	est Stand for Rotary To	ols						
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-Ib			0, 1, or 3					
AHCTS-5000 6,800 Nm / 5,000 ft-Ib			0, 1, or 3					
AHCTS-7500 10,200 Nm / 7,500 ft-Ib			0, 1, or 3					
Auditor High Capacity T	est 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-Ib			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-Ib			0–5 (3–5 come with casters)	2				

AIMTS TEST STAND FOR IMPACT TOOLS

Obtain accurate test results with the AIMTS Series Impact Test Stand. When used with an Auditor ATDA Analyzer or AUET/MTM Desktop Torque Tester, 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 Test Stand Models

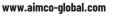
	Сар	acity	Wei	ight	Dimensio	ons(WxHxD)	
Model	FT-LB	Nm	LB	KG	IN	ММ	Sq. Dr.
AIMTS-0050	5 - 50	7 - 70	10	4.5	8 x 10 x 4	203 x 254 x 102	3/4″
AIMTS-0250	25 - 250	34 - 340	10	4.5	8 x 10 x 4	203 x 254 x 102	3/4″
AIMTS-0500	50 - 500	68 - 680	10	4.5	8 x 10 x 4	203 x 254 x 102	3/4″
AIMTS-2000	200 - 2,000	271 - 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		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-Ib		2	6	4	222	
AIMTS-0250 340 Nm / 250 ft-lb		2	6	8	222	
AIMTS-0500 680 Nm / 500 ft-Ib		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-Ib		2	6	9	222	
AIMTS-5000 6,780 Nm / 5,000 ft-Ib		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.





AIMTS-2000 Test stand for large impact tools









Torque Wrenches

Torque Measurement: Torque Wrenches			
Features and Benefits	44.5		10 mg
 Options from Simple to Sophisticated Residual or Dynamic Measuring Tactile (Click) or Digital 			
Connectivity	APTW	ATW	Phoenix III
– Auditor Devices (ATW) – Broad Range of Protocols (Phoenix III)	Auditor Preset Torque Wrench	Auditor Electronic Torque Wrench	Phoenix III Digital Torque Wrench
 Durable Designed for Factory Floor Environments Used in Production Applications or Quality Checks 			
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
	Interchangable FACOM type heads. Preset uses proprietary adjustment tool to guard against unauthorized setting changes	Aka "Transducer on a Stick." Connectivity to Auditor™ testers and data analyzers	Transducerized digital torque wrench with Production and Quality functionality. Integrated WiFi technology for wireless communication over Open Protocol
Bi-Directional accuracy of +/- X of indicated reading within the top 90% of the tester's capacity	3%	0.50%	0.1%
Software Included	Х	Х	Х
Used In Conjunction With			
ATDA (DC) Data Analyzer		Х	
AUET (DC) Tester		Х	

Torque	Wrench	Loaders

AUET/MTM (DC) Tester



For calibration of all types of torque wrenches, eliminating human variables for more accurate measurement.

Х

ATWL-250	Torque range up to 340 Nm / 250 ft-lb
ATWL-750	Torque range up to 1,020 Nm / 750 ft-lb
ATWL-1000	Torque range up to 1,360 Nm / 1,000 ft-lb

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

Ring End Inserts		Description		Square Drive Inserts		Description	
		1/0″ Dia a Faul			9 x 12		
	APTH-12RE50	APTH-12RE50 1/2" Ring End, 12 mm		APTH-12SD25	1/4″ Sq. Dr.		
		2	APTH-12SD38	3/8″ Sq. Dr.			
APTH-14RE32		32 mm Ring End, 14 mm			APTH-12SD50	1/2″ Sq. Dr.	
	APTH-14RE32			14 x 18			
					APTH-14SD50	1/2″ Sq. Dr.	

Open End Head Inserts								
Model	Description		Model	Description	Model	Description		
() x 12	\mathbb{N}		14	x 18			
APTH-120E7	7 mm OE	\mathbb{N}	APTH-140E1	1″ OE	APTH-140E25	25 mm OE		
APTH-120E8	8 mm OE	\square	APTH-140E13	13 mm OE	APTH-140E27	27 mm 0E		
APTH-120E9	9 mm OE	\mathbb{N}	APTH-140E14	14 mm OE	APTH-140E30	30 mm 0E		
APTH-120E10	10 mm 0E	\square	APTH-140E15	15 mm OE	APTH-140E32	32 mm OE		
APTH-120E11	11 mm OE	\mathbb{N}	APTH-140E16	16 mm OE	APTH-140E34	34 mm OE		
APTH-120E12	12 mm 0E	\mathbb{N}	APTH-140E17	17 mm OE	APTH-140E36	36 mm 0E		
APTH-120E13	13 mm 0E	\square	APTH-140E18	18 mm OE	APTH-140E38	38 mm 0E		
APTH-120E14	14 mm OE	\square	APTH-140E19	19 mm OE	APTH-140E41	41 mm OE		
APTH-120E15	15 mm 0E	\mathbb{N}	APTH-140E21	21 mm 0E	APTH-140E118	1-1/8″ OE		
APTH-120E16	16 mm OE	Ν	APTH-140E22	22 mm 0E	APTH-140E138	1-3/8″ OE		
APTH-120E17	17 mm OE	Ν	APTH-140E24	24 mm 0E				
APTH-120E18	18 mm OE	`						
APTH-120E19	19 mm OE							
APTH-120E20	20 mm 0E							
APTH-120E50	1/2″ OE							

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

Blank End Inse	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			
- C	APTH-14RT50	1/2″ Sq. Dr.		
	APTH-14RT34	3/4″ Sq. Dr.		

20

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

	Torque	Range	Square Drive
Model	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.



Phoenix III Transducerized Digital Torgue Wrench

Quality Assurance Moves to the Next Level



Phoenix III Electronic Torque Wrench

	Torque	e Range	End Connector	Length (mi	nus insert)	Wei	ght
Model*	Nm	Ft-Lb	mm	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



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Mobile Torque Testing Stations

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

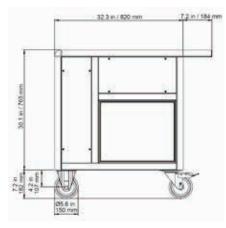
- Compatible with complete range of AIMCO's torque measurement and auditing equipment, including rotary and stationary transducers, torque testers, data collectors, and multiple joint kits, which facilitate tests on hard to soft joints
- Custom configured to the user's specific needs
- Ideal for measurement 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

	Weight		Dimensions	Max Load	
Model	LB	KG	H x W x D	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



MTTS





Transducers

Torque Measurement: Transducers				
Features and Benefits	Rotary	Stationary		
Superior: • Accuracy • Compatibility • Durability Auditor offers multiple styles of transducers in various				
configurations. Industry standard transducers (2mv/v)	ARTIS	ASTIS	AISI - AISF*	
and intellect transducers for Auditor instruments that reduce configuration set up time.	Auditor Rotary Transducer Industry Standard	Auditor Stationary Transducer Industry Standard	Auditor Industry Standard Stationary	
Used in Conjunction with Analyzer				
AUET	Х			
AUET/MTM	Х	Х	Х	

ADEI/MIM
ATDA X X X

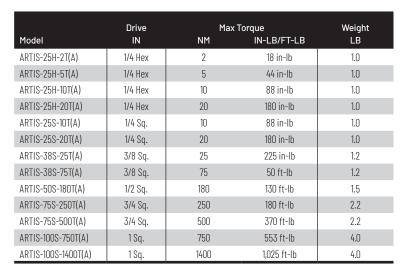
* See Configuration Options on following page to configure complete part number for AISI / AISF models. Please contact an AIMCO Customer Service Associate for additional information, 1-503-254-6600, or toll free 1-800-852-1368.

AUDITOR ROTARY TRANSDUCERS

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



ARTIS Series



*Add "A" to the end of the part number to indicate torque/angle transducer.



Transducers

AUDITOR STATIONARY TRANSDUCERS

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



ASTIS

ASTIS industry standard transducers can be used with multiple analyzers.

ASTIS Transducers

Model	Max NM	Torque IN-LB/FT-LB	Drive IN
ASTIS-25D-11	11	100 in-Ib	1/4
ASTIS-25D-28	28	250 in-Ib	1/4
ASTIS-38D-135	135	100 ft-Ib	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



AISI

AISI / AISF Transducers connect to the AUET/MTM and ATDA analyzers and mount directly to a benchtop.

AISI & AISF Transducers

	Ma	x Torque	Wei	ight	WX	HXD	Drive
Model*	NM	IN-LB/FT-LB	KG	LB	MM	IN	IN
AISI-200025	2.8	25 in-Ib	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-Ib	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-Ib	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	3/8
AISF-200100	135.6	100 ft-lb	2.25	5	100 x 65	4 x 3	1/2
AISF-200250	339	250 ft-Ib	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

* See Configuration Options below to configure complete part number for AISI / AISF models.

Auditor AISI / A	ISF Indust	ry Standard Transducers Config	uration Options				
Base Model #	Angle	Capacity	Configuration	Expanded Range*	Digital	Drive Size	Wireless
	2 = No	00025 = 25 In-Lb / 25 Ft-Lb 00050 = 50 In-Lb / 50 Ft-Lb 00100 = 100 In-Lb / 100 Ft-Lb 00250 = 250 In-Lb / 250 Ft-Lb 00350 = 350 In-Lb / 350 Ft-Lb 00600 = 600 In-Lb / 500 Ft-Lb 00750 = 750 In-Lb / 750 Ft-Lb 01000 = 1,000 In-Lb / 1,000 Ft-Lb	1= Bench Stand 2 = Inline 3 = Loader (1000 Series Only)	1= Yes 2 = No	1 = Yes 2 = No	$ \begin{array}{l} 1 = 1/4'' \ \mbox{Hex} & (up to 100 \ \mbox{In-Lb} / 8.3 \ \mbox{Ft-Lb}) \\ 2 = 1/4'' \ \mbox{Sq.} & (up to 100 \ \mbox{In-Lb} / 8.3 \ \mbox{Ft-Lb}) \\ 3 = 3/8'' \ \mbox{Sq.} & (150-500 \ \mbox{In-Lb} / 12.5-41.7 \ \mbox{Ft-Lb}) \\ 4 = 1/2'' \ \mbox{Sq.} & (1800-3,000 \ \mbox{In-Lb} / 150-250 \ \mbox{Ft-Lb}) \\ 5 = 3/4'' \ \mbox{Sq.} & (3,000-12,000 \ \mbox{In-Lb} / 250-1,000 \ \mbox{Ft-Lb}) \\ 5 = 1'' \ \ \mbox{Sq.} & (12,000-24,000 \ \mbox{In-Lb} / 1,000-2,000 \ \mbox{Ft-Lb}) \\ 7 = 1-1/2''' \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	2 = No
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, Deliver is a series of activity beneficient and the series of activity of the series of activity				
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-XXXHD	ARDFA-XXXHDS ARDIA-XXXHDS	ARDFA-XXXHDE ARDIA-XXXHDE	ARDFA-XXX ARDIA-XXX
Wear-Resistant Heavy Duty	Х			
Heavy Duty, Fully Encapsulated		Х		
Heavy Duty, Encapsulated Washers			Х	
Standard (Included w/analyzer)				Х
Spline Drive				
Used in Conjunction with External Transducer				
ASTIS	Х	Х	Х	Х
AISI / AISF	Х	Х	Х	Х
ARTIS	Х	Х	Х	Х

*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

HDE Series

Model*	Recommende NM	d Torque Range IN-LB	Square Drive
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*	Recommend NM	ed Torque Range FT-LB	Square Drive
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-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.

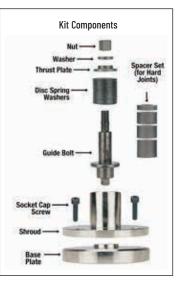
JOINT KITS

Joint 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.
 Repeatable 1/4" 1" drive sizes, 28 – 1,695 Nm.

AJKR & AJKS Joint Kits





* AJKR for use with ARTIS external transducers..

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

UFT SERIES HYDRAULIC MECHANICAL JOINT SIMULATORS





UFT-S10

UFT-S16



- 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

		Torque	Range	We	ight
Model	Bolt Size	NM	FT-LB	LB	KG
UFT-6	M5	3.2 - 5.4	2 - 4	8	3.6
	M6	5.4 - 14.7	4 - 11		
UFT-10 / UFT-S10	M6	6.7 - 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	Х						
ATDBLIS*	Connect to IS transducer w/ angle - 10 pin		Х		Х		Х	
ATDBRIS*	Connect to IS transducer - 4 pin		Х	Х		Х	Х	
ICBL-10P*	Intellect transducer cable. Identification chip in cable - 10 pin connector		Х		Х			Х
ICBL-4P*	Intellect transducer cable. Identification chip in cable - 4 pin connector		Х	Х		Х		Х
ICBL-5000L	Connect from AUET/MTM & ATDA to Intellect Transducers, Analog AISI / AISF		Х			Х		Х
ICBL-8000DIG	Connect PC to digital transducers through digital module		Х					

* 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	Х	Х	Х	Х	Х	Х	Х		
ATDBLIS		Х	Х	Х	Х	Х	Х		
ATDBRIS		Х	Х	Х	Х	Х	Х		
ICBL-10P		Х	Х	Х	Х	Х	Х		
ICBL-4P		Х	Х	Х	Х	Х	Х		
ICBL-5000L			Х		Х	Х	Х	Х	Х
ICBL-8000DIG									Х

Transducer Compatibility

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



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AJKS-25D. APTH-140E30 ARTIS-25S-20T(A). A UET/MTM-50-500(-DC). 10 AJKS-38D. APTH-140E32 ARTIS-38D.200 ARTIS-38D.255 (A). AUET/MTM-50-1000(-DC). 10 AJKS-50D. APTH-140E34 ARTIS-100S-750T(A). AUET/MTM-50-1000(-DC). 10 AJKS-57D. APTH-140E34 ARTIS-100S-750T(A). AUET/MTM-50-1000(-DC). 10 AJKS-75D. APTH-140E36 ASTIS-25D-11 SUET/MTM-1010-050 10 AJKS-100D. APTH-140E38 ASTIS-25D-28 AUET/MTM-100-1000 10 APTH-12ADP. APTH-140E41 ASTIS-35D-270 AUET/MTM-100-1000 10 APTH-120E7. APTH-140E138 ASTIS-5D-270 AUET/MTM-100-1600(-DC) 10 APTH-120E8. APTH-140E138 ASTIS-5D-1000 25 AUET/MTM-100-1600(-DC) 10 APTH-120E9. APTH-14RE32 ASTIS-10D-1700 25 AUET/MTM-100-1600(-DC) 10 APTH-120E9. APTH-14RE32 ATC-10 AUET/MTM-100-1600 10 APTH-120E10 APTH-14RE32 ATC-10 AUET/MTM-250-1800 10 APTH-120E11 APTH-14SDSO ATC-100 AUET/M	AJKR-1695	APTH-140E27	ARTIS-25H-10T(A)	AUET/MTM-50-250 10	
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	APTH-120E14 20	APTW-100	ATC-250F		

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