



TORQUE MEASUREMENT SOLUTIONS 2017/18

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For over 40 years AIMCO has been working with manufacturers around the world, we are the complete global source for all assembly, fastening, and critical bolting needs. AIMCO can effectively and swiftly meet your needs whether you're in Thailand fastening a 3 mm nut at 3 Nm, or in Tennessee, USA torquing the last lug nut. 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**.

ISO 9001: 2015 Certified

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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:

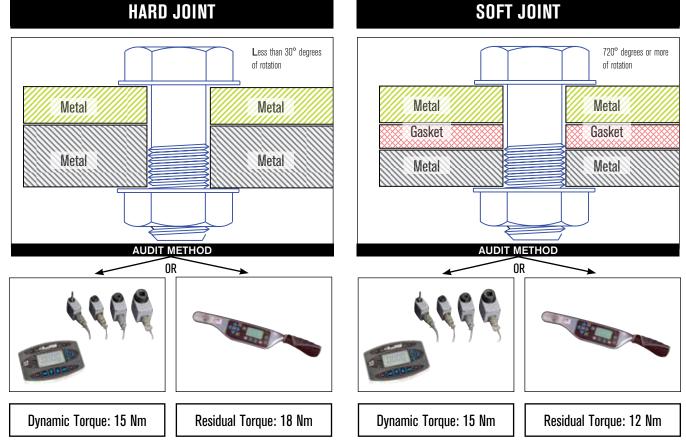
- Reduces operator influence
- Measures applied torque
- Can also include angle of rotation as error proofing parameter

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



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

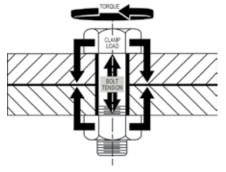
An acceptable, or capable, process will normally have a Cpk value of at least 1.33.

MEASURING QUALITY – CLAMP LOAD

TARGET

Unacceptable spread of samples, Cpk < 1.33

THE PURPOSE OF THREADED FASTENING IS TO PRODUCE THE CORRECT AMOUNT OF CLAMP LOAD WITHIN THE JOINT.



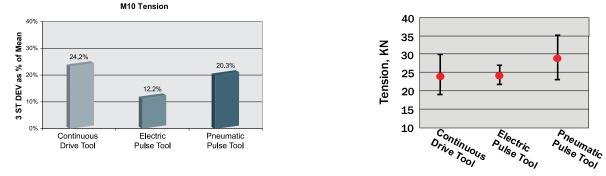
LSI

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.

TARGET

Acceptable spread of samples, Cpk > 1.33

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



TORQUE MEASUREMENT SYSTEMS



TORQUE N	IEASUREMENT SY	STEMS								
DEVICES	MODEL SERIES	DATA COLLECTOR	INTEGRATED TRANSDUCER			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							
	AUET/MTM		Х			Х				
	AUET/MTM-DC	Х	Х			Х				
Analyzers	ATDA					Х				
	ATDA-DC	Х				Х				
	ATDA-8000-10- DCA(-TA)(-TP)	Х				X				
Test Stands	AHCTS*	χ*	χ*	Х*			Χ*	Х*	Χ*	Χ*
	AHCTS-K*	χ*	Χ*	Х*			Х*	Х*	Х*	Х*
	AHDTS*	χ*	Χ*	Х*			Χ*	Х*	Χ*	Х*
	AHBTS*	Х*	Х*	Х*			Χ*	Х*	Х*	Х*
	AIMTS*	Х*	Х*	Х*			Χ*	Χ*	Χ*	Х*
Wrenches	ADW			Х						
	ADW-DC	Х								
	APTW			Х						
	ATW			Х						
	ATWL				Х					
	Moment Alpha	Х		Х						
Torque Cart	iTVC*	Х*	Х*	Χ*			Χ*	Χ*	χ*	Х*
Transducers	ARTIS									Х
	ASTIS							Х		
	AISI						Х			
	AISF						Х			
Rundown	AJKR									
Fixtures	AJKS									
	ARDFA									
	ARDIA									
	ARDA (Spline Drive)									
Joint Simulator	UFT									

*configured to customer specifications

TORQUE MEASUREMENT TESTERS

TORQUE MEASUREMENT: TESTERS

Features and Benefits

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- •
- •

 Features and Benefits Heavy industrial design All software included Auditor Torque Testers are designed for intuitive and functional usability. AUET/MTM models are 		· ()****		· Contraction	
available with our unique dual integrated torque	ATC	AUET	AUET/MTM	AUET-DC	AUET/MTM-DC
transducer package.	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
Testers are designed to audit torque wrenches and power tools, including pulse tools	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 capac- ity. Data collection capabil- ity 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-lb		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
<u>Measurement Modes</u>	1	1			
Peak	Х	Х	Х	Х	Х
First Peak (Click)	Х	Х	Х	Х	Х
Pulse	Х	Х	X	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 CONJUNCTION W	/ITH			
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-10 ATC-25 ATC-100 ATC-250 ATC-500 ATC-750 ATC-1800



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

Because precision and quality are critical, you can depend on our 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 ft-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	DEL RECOMMENDED TORQUE RANGE		WEI	GHT	W X	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-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 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

AUDITOR BENCH-MOUNT TESTERS



AUET



AUET/MTM



AUET/MTM-DC

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.

SINGLE TRANSDUCER MODELS

MODEL*	RECOMMENDED	TORQUE RANGE
	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-lb
AUET-50(-DC)	0.5 - 5.6 Nm	5 - 50 in-lb
AUET-100(-DC)	1.1 - 11.3 Nm	10 - 100 in-lb
AUET-250(-DC)	2.8 - 28.3 Nm	25 - 250 in-lb
AUET-500(-DC)	5.7 - 56.5 Nm	50 - 500 in-lb
AUET-1000(-DC)	11.3 - 113 Nm	100 - 1,000 in-lb
AUET-1200(-DC)	13.6 - 135.6 Nm	120 - 1,200 in-lb
AUET-1800(-DC)	20.3 - 203.4 Nm	180 - 1,800 in-lb

* 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.

DUAL TRANSDUCER MODELS

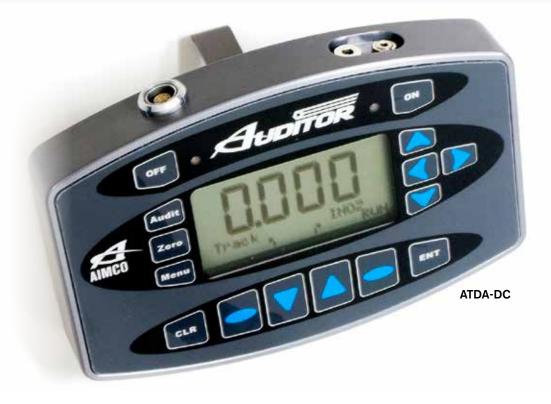
		RECOMMENDED	TORQUE RANGE	
MODEL**	TRANSDUCER 1	TRANSDUCER 2	TRANSDUCER 1	TRANSDUCER 2
AUET/MTM-050-25	0.04 - 0.4 Nm	0.3 - 2.8 Nm	5 - 50 in-oz	2.5 - 25 in-lb
AUET/MTM-050-600(-DC)	0.04 - 0.4 Nm	6.8 - 67.8 Nm	5 - 50 in-oz	60 - 600 in-lb
AUET/MTM-0100-050(-DC)	0.07 - 0.71 Nm	0.04 - 0.4 Nm	10 - 100 in-oz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

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: ANA	LYZERS			
	1	100		
Features and Benefits	and and a second	Carrier Con		
 Auditor Torque Analyzers share similar features across all products and are designed for intuitive and functional usability. 	a contract			558
• Connects to AIMCO's line of rotary	ATDA	ATDA-DC	ATDA-8000	ATDA-8000-10-DCA(-TA)(-TP)
and stationary transducers	Auditor Torque Data Analyzer	Auditor Torque Data Analyzer with Data Collection	Auditor Torque Data Analyzer with 7" screen	Auditor Torque Data Analyzer 10" display with Data Collection. TA = Torque & Angle, TP = Torque & Pressure
	Portable analyzer to be con- nected to various transducers	Portable analyzer to be connected to various transducers. Provides data collection capability with included software to interface with PC	7" screen with high resolution display and intuitive user interface	10" touch screen with high resolution display and intuitive user interface with multiplexer
Bi-directional	Х	Х	Х	Х
Data Output to PC	Х	Х	Х	Х
External Transducer Port	1	1	1	4
Number of stored readings	999	999	999	999
Rechargeable NiMH Battery	Х	Х	Х	Х
Digital I/O for external devices	Х	Х	Х	Х
<u>Measurement Modes</u>	Х	Х	Х	Х
Peak	Х	Х	Х	Х
First Peak (Click)'	Х	Х	Х	Х
Pulse	Х	Х	Х	Х
Track	Х	Х	Х	Х
Measurement Units	8	8	8	8
Software Included		Х	Х	Х
Barcode Reader Capable			Х	Х
USED IN CONJUNCTION WITH				
AISI / AISF - Analog	Х	X		
AISI / AISF - Digital			Х	Х
ASTIS - Stationary	Х	X		
ARTIS - Rotary	X	X		
Wrenches		I		
ATW	Х	Х		
Switch boxes for External Transducers		I		
AISWT-4L > 4 Way Intellect box	Х	Х		
AISWT-6L > 6 Way Intellect box	Х	Х		
Cables		I		I
ICBL-USB - USB Serial $>$ PC	Х	Х		
ATDBLIS - IS Transducer w/ angle (10 Pin)	Х	X		
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 Transducer, Analog AISI / AISF	Х	Х		
ICBL-8000DIG - Connect from ATDA-8000 series analyzer to Digital AISI / AIFI transducer			X	X

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.

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



AUDITOR TORQUE DATA ANALYZERS



TOUCH SCREEN AUDITOR TORQUE DATA ANALYZERS

Auditor offers the ATDA-8000 and the ATDA-8000-10-DCA(-TA)(-TP). The ATDA-8000 is a touch screen instrument with a high resolution display and user interface that facilitates "point of use" tool validation. The user interface is intuitive and the display provides clear easy to read data. Features and parameter settings are password protected to ensure parameters cannot be inadvertently changed. After initial setup, the instrument provides semi-automatic tool validation and judgment. The ATDA-8000 is a single channel instrument. The ATDA-8000-10-DCA(-TA)(-TP) is a larger instrument that includes a multiplexor for connection to multiple transducers allowing a wide range of tools to be tested with one instrument. The (-TA) model is designed for torque and angle analysis and the (-TP) model is designed for torque and pressure analysis.

Both the ADTA-8000 and the ATDA-8000-10-DCA(-TA)(-TP) systems work with AIMCO's line of digital transducers.

MODEL	DESCRIPTION
ATDA-8000	Auditor Torque Analyzer Single channel 7" touch screen point of use validation system
ATDA-8000-10-DCA(-TA)(-TP)	Auditor Torque Analyzer Multiple transducer 10" touch screen point of use validation system



AUDITOR TOOL MANAGER SOFTWARE

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

	Vactories (Replace)	Secolar House		
Tool Manager Software	Anna Anna Anna Anna Anna Anna Anna Anna	Impleventives Market 2 Generic 12 Man Marketsee Urge Sanato Sci20002 Market Sci20002 Market Office Market Office Market Office Market Office Market Sci2002		
	in in in in its	Separate field Total Lines Li	Real as for here	
	CDM fur leasted CDMP	1 2 2 -		- 2 - 1 2 4 6 100

AUDITOR AUDIT MANAGER SOFTWARE

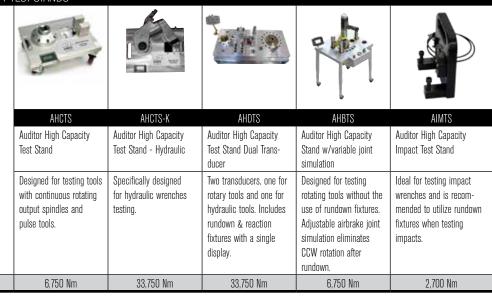
Audit Manager Software is included with the purchase of ATDA-DC data collecting torque analyzers. The View Data tab allows you to look at the collected data and the trace file. This data can be exported to Excel as a .csv file and displayed by Excel charts. The trace file displays the data in a torque/time 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 1 Route Builder Job Info Arshible Jobs Continue Terminal Meet Ar Big Cartain - LH Ar Big Cartain - LH Ar Big Cartain - LH Sear Det Install Solering Wheel Install Battery Connection		Ar llag Steering Wh UAT-70 1234 5 No 25 30 20	Ne Ne	Rode trie Avalatie Rodes Inde Car Dector	Jobs in Route Ar Dag Pass Sol Ar Dag Pass Sol Ar Dag Custon - UH Ar Dag Custon - UH See fink Instal Steering Wheel Install	Upper Linit	Ar Bag Steering Wit UAT 70 1224 5 No 25 30 20	Nes Nes Nes
	and an	di etta			New Copy 1	Edit Serd	Selected Route to Whench	Flead Data From 1	Nrench

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



ACCESSORIES			
Rundown fixtures			
AHCTS-3/4RDF	Х	Х	
AHCTS-1RDF	Х	Х	
AHCTS-1.5RDF	Х	Х	

ADAPTERS

Capacity

			AHCTS	AHCTS-K	AHDTS	AHBTS	AIMTS
Square to Square Drive Adap	iters*						
	CA1510	1-1/2" Male to 1" Female	Х		Х	Х	
E MAN	CA1550	1-1/2" Male to 1/2" Female	Х		Х	Х	
	CA1575	-1/2" Male to 3/4" Female	Х		Х	Х	
Insert Adapters*				·			
174	CA2510I	2-1/2" Male to 1" Female	Х		Х	Х	
	CA2515I	2-1/2" Male to 1-1/2" Female	Х		Х	Х	
	CA25751	2-1/2" Male to 3/4" Female	Х		Х	Х	
Square to Hex Drive Adapter	S*			•			
	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.

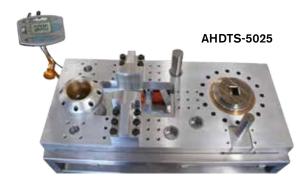


AHCTS TEST STAND FOR ROTATING TOOLS

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.

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 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.

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.

MODEL	DESCRIPTION	CAPACITY Ft-Lb
AHCTS-0.5K	¾" 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 Capacity	Test Stands	for Rotary a	and Hydraulic 1	Tools Configurati	on Optio	ns	
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 4 = ATDA-8000 Digital (7") 5 = ATDA-8000-10 Digital 6 = Standard Embedded Display (1, 3, 4, 5 include articulated arm)	1 = 6" 2 = No legs (Standard) 3 = 18" 4 = Custom	$\begin{array}{c} 0 = 8 \times 8"\\ 1 = 12 \times 12"\\ 3 = 14 \times 19"\\ (Standard)\\ 4 = 18 \times 24"\\ 5 = 18 \times 36"\\ 6 = NA \end{array}$	$\begin{split} 1 &= 500 \\ 2 &= N_0 \\ 3 &= 1,000 \\ 4 &= 2,500 \\ 5 &= 5,000 \\ 6 &= 7,500 \\ 7 &= 1.5^{\circ} \text{ Kit} \\ \text{Max. capacity} \\ 7,500 \text{ Ft-Lb} \\ 8 &= 2.5^{\circ} \text{ Kit} \\ \text{Max. capacity} \\ 7,500 \text{ Ft-Lb} \end{split}$	1 = Single Post 2 = No 3 = Multiple Posts 6" 4 = Paddles 5 = Custom 6 = Single Post 9" (Standard for Hy- draulic Models) 7 = Multiple Posts 9" 8 = 9" Post and Paddles (Stan- dard for Rotary Models)	1 = Yes 2 = No	1 = Yes 2 = No	1 = Yes (for Tab- let 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 Too	ls						
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				

AIMTS-2000

Test stand for large impact tools

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.







AIMTS-0500 Test stand for small impact tools

MODEL	DESCRIPTION
AIMTS-0500	³ ⁄4" square drive impact test stand
AIMTS-2000	1.5" square drive impact test stand

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 4 = ATDA-8000 Digital (7") 5 = ATDA-8000-10 Digital	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-lb		2	6		222			
AIMTS-0250 340 Nm / 250 ft-lb		2	6		222			
AIMTS-0500 680 Nm / 500 ft-lb		2	6		222			
AIMTS-2000 2,720 Nm / 2,000 ft-lb		2	6		222			
AIMTS-2500 3,390 Nm / 2,500 ft-lb		2	6		222			
AIMTS-5000 6,780 Nm / 5,000 ft-lb		2	6		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.



AHBTS-2500 Auto Release test stand for quickly testing large rotating tools

AHBTS TEST STAND WITH BRAKING SYSTEM FOR ROTATING TOOLS

These test stands are for testing rotating tools without requiring the use of rundown fixtures. We utilize an airbrake for testing tools that cannot or should not be used in reverse. These test stands are compatible with any Auditor Torque Analyzer.

MODEL	DESCRIPTION
AHBTS-2500	1.5" square drive, brake system w/reaction device, rotary transducer and display
AHBTS-5000	1.5" square drive, brake system w/reaction device, rotary transducer and display

Refer to Configuration Options below for required ordering options.

AHBTS Series High Capacity Test Stand with Brake System Configuration Options

Base Model Number	Display	Legs	Base Size	Rundown Fixture Capacity (ft-lb)	Reaction Post	Casters	Articulated Arm and Mount	Digital Module
AHBTS-xxxx	4 = ATDA-8000 Digital (7") 5 = ATDA-8000-10 Digital	1 = 6" 2 = No legs (Standard) 3 = 18"	$0 = 8 \times 8"$ $1 = 12 \times 12"$ $3 = 14 \times 19"$ (Standard)	2 = No	1 = Single Post 2 = No 3 = Multiple Posts 6"	1 = Yes 2 = No	1 = Yes 2 = No	1 = Yes 2 = No
	(Requires Display Controller)	4 = Custom	4 = 18 x 24" 5 = 18 x 36" 6 = NA		5 = Custom 6 = Single Post 9" 7 = Multiple Posts 9"			(For Tablet or PC Direct)
Model # 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
AHBTS-2500 3,400 Nm / 2,500 ft-Ib				2				
AHBTS-5000 6,800 Nm / 5,000 ft-Ib				2				

AUDITOR TORQUE WRENCHES

Fatures and Benefits Multiple Options from Simple to Sophisticated Image: Control optimization optimizatio optimizatio optimization optimization optimizatio opti	TORQUE MEASUREMEN	T: TORQUE WRENCH				
Additor Digital Wrench* Auditor Digital Wrench* Auditor Digital WrenchAuditor Digital WrenchAuditor Digital WrenchDigital Torque WrenchDigital Torque WrenchTorque Range10 - 500 Nm 7 - 370 ft-lb10 - 500 Nm 7 - 370 ft-lb5 - 340 Nm 7 - 370 ft-lb5 - 200 Nm 4 - 250 ft-lb5 - 200 Nm 4 - 148 ft-lbScrewdriver: 0.5 - 5 Nm 0.4 - 3.7 ft-lbDigital wrenchDigital wrench with multiple head options for line side testing/auditingData-collecting digital wrench with multiple head options for line side testing/auditingInterchangeable heads. Preset uses proprietary adjustment tool to guard against unauthorized setting changesTransducer on a stick. Communicates with data collecting testers and analyzersEnsure accuracy in quality DR production applications. Wifi// Bluetooth deliveryBi-Directional accuracy of +/- X of indicated reading within the top 90% of the tester's capacity1%1%3%0.50%±4%	 Multiple Options from Simple to Sophisticated Similar Interface with other Auditor Products 	and the second second	a Galas	1000 4.4.4.		
ImageData CollectionTorque Wrenchwith AngleTorque Range10 - 500 Nm 7 - 370 ft-lb10 - 500 Nm 7 - 370 ft-lb5 - 340 Nm 4 - 250 ft-lb5 - 200 Nm 4 - 148 ft-lbScrewdriver: 0.5 - 5 Nm 0.4 - 3.7 ft-lb Wrench: 4 - 1,000 Nm 3.0 - 738 ft-lbDigital wrench with multiple head options for line side testing/auditingData-collecting digital wrench 	• Durable	ADW	ADW-DC	APTW	ATW	MOMENT ALPHA
New Name7 - 370 ft-lb7 - 370 ft-lb7 - 370 ft-lb4 - 250 ft-lb4 - 148 ft-lb0.4 - 3.7 ft-lbDigital wrench with multiple head options for line side testing/auditingData-collecting digital wrench with multiple head options for line side testing/auditingInterchangeable heads. Preset uses proprietary adjustment tool to guard against unauthorized setting changesTransducer on a stick. Communicates with data collecting testers and analyzersEnsure accuracy in quality <u>DR</u> production applications. Wifi/ Bluetooth deliveryBi-Directional accuracy of +/- X of indicated reading within the top 90% of the tester's capacity1%1%3%0.50%±4%		* Auditor Digital Wrench	-		Auditor Torque Wrench	
head options for line side testing/auditingwith multiple head options for line side testing/auditinguses proprietary adjustment tool to guard against unauthorized setting changesCommunicates with data collecting testers and analyzersproduction applications. Wifi/ Bluetooth deliveryBi-Directional accuracy of +/- X of indicated reading within the top 90% of the tester's capacity1%1%3%0.50%±4%	Torque Range				0 200 1111	0.4 - 3.7 ft-lb Wrench: 4 - 1,000 Nm
X of indicated reading within the top 90% of the tester's capacity 1% 1% 3% 0.50% ±4%		head options for line side	with multiple head options for	uses proprietary adjustment tool to guard against	Communicates with data collecting testers and	production applications. Wifi/
Potture Induded V V V	X of indicated reading within the top 90% of the tester's	1%	1%	3%	0.50%	±4%
Souware included Y Y Y	Software Included	Х	Х			

USED IN CONJUNCTION WITH			
ATDA(DC) Data Analyzer		Х	
AUET(DC) Tester		Х	
AUET/MTM(DC) Tester		Х	

TORQUE WRENCH LOADERS



For Calibration of all types of torque wrenches eliminating human variable for more accurate measurement - digital transducer used with ATDA-8000-10-DCA $\,$

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

AUDITOR DIGITAL WRENCH SERIES







ADW DATA COLLECTING TORQUE WRENCH

- Large memory capacity
- Every torque value has associated trace file
- "Pick a Point" and "Move On" feature
- Barcode scanner
- Alpha Numeric screen for entering text
- Field replaceable batteries
- Docking station connection
- Serial connection
- Battery charger connection
- Ergonomic handle

- Switch between measure and data collection modes at any time
- Multiple files and route capability
- Data memory and simple statistics "On Board"
- Complete statistical analysis, data archiving and exporting in Audit Manager software
- Five models standard ranges 10 500 Nm full scale
- Torsion transducer not length dependent
- Transducer is replaceable
- 1,400 Nm model uses different handle design

	TORQUE	TORQUE RANGE		WEIGHT		OVERALL LENGTH	
MODEL	NM	FT-LB	LB	KG	IN	MM	IN
ADW-0010K	1 - 10	0.7 - 7.4	2.2	1	18	457.2	1/4
ADW-0075K	7.5 - 75	5.5 - 55	3.1	1.4	23.5	596.9	3/8
ADW-0180K	18 - 180	13 - 130	3.6	1.6	30.1	765.2	1/2
ADW-0270K	27 - 270	20 - 198	3.6	1.6	30.1	765.2	3/4
ADW-0500K	50 - 500	37 - 369	4	1.8	36	914	1
ADW-1400F	140 - 1,400	103 - 1,033	4.8	2.2	60	1,524	1

Unit accuracy is \pm 1.0% FSD of indicated reading for the top 95% of full scale as indicated above.

Each model includes a case, a battery charger, and a standard square-drive head. Other heads are available at additional cost.

*Part numbers with K, D or F followed by a 1 designate models with file and route capability. K followed by 2 indicate sequential memory but no file capability.

Part numbers with K, D or F followed by a 1,1 indicate file and route with bar code and docking station capability. K, D or F followed by a 1,2 indicate file and route capability with serial port only. Please refer to the Configuration Options table on following page for required ordering options.



DOCKING STATION

- Nest for accepting all wrench sizes
- Charger and serial communication accomplished through docking station
- Bench mountable

AUDITOR DIGITAL WRENCH SERIES

ADW Series Dig	ital Torque Wre	nches Configu	ration Options				
Base Model Number	Style	Data Collector	Bar Code and Docking Station	Square Drive Size	Type of Transducer	Engineering Unit	Future Options
ADW-xxxx	K = Katana D = Katana with Dovetail Transducer F = Straight Stick	1 = Yes 2 = No	1 = Yes 2 = No (Serial Port Only)	1 = 1/4" 2 = 3/8" 3 = 1/2" 4 = 3/4" 5 = 1" 6 = N/A	1 = Intellect 2 = Industrial Standard 3 = N/A	1 = Nm 2 = Ft-lb 3 = In-lb	Not yet available. Enter 2222 for model # digits 15–18
Model # Digits 1-8	Model # Digit 9	Model # Digit 10	Model # Digit 11	Model # Digit 12	Model # Digit 13	Model # Digit 14	Model # Digits 15–18
Non Data-Collecting (Sequen	tial Memory)						
ADW-0010K2 10 Nm / 7.4 ft-lb	K or D	2	2	1 or 2	3	1	2222
ADW-0075K2 75 Nm / 55 ft-lb	K or D	2	2	2	3	1	2222
ADW-0180K2 180 Nm / 130 ft-lb	K or D	2	2	3	3	1	2222
ADW-0270K2 270 Nm / 198 ft-Ib	K or D	2	2	3	3	1	2222
ADW-0500K2 500 Nm / 369 ft-lb	K or D	2	2	4	3	1	2222
ADW-1000K2 1,000 Nm / 738 ft-1b	F	2	2	4 or 5	3	1	2222
ADW-1200K2 1,200 Nm / 885 ft-Ib	F	2	2	5	3	1	2222
ADW-1000K2 1,400 Nm / 1,033 ft-lb	F	2	2	5	3	1	2222
ADW-1200K2 2,000 Nm / 1,475 ft-lb	F	2	2	5	3	1	2222
Data Collecting (File and Rou	ite Capability)			1			
ADW-0010K1 10 Nm / 7.4 ft-Ib		1		1 or 2	3	1	2222
ADW-0075K1 75 Nm / 55 ft-lb		1		2	3	1	2222
ADW-0180K1 180 Nm / 130 ft-lb		1		3	3	1	2222
ADW-0270K1 270 Nm / 198 ft-Ib		1		3	3	1	2222
ADW-0500K1 500 Nm / 369 ft-lb		1		4	3	1	2222
ADW-1000K2 1,000 Nm / 738 ft-Ib	F			4 or 5	3	1	2222
ADW-1200K2 1,200 Nm / 885 ft-lb	F			5	3	1	2222
ADW-1000K2 1,400 Nm / 1,033 ft-lb	F			5	3	1	2222
ADW-1200K2 2,000 Nm / 1,475 ft-lb	F			5	3	1	2222

Standard capacities shown. Additional capacities available on request. Contact an AIMCO Customer Service Associate at 1-503-254-6600, or toll free 1-800-852-1368.

ALLOW 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
- of indicated
- Accurate Torque readings are accurate to 1% of indicated reading in top 95% of full scale

	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

Unit accuracy is \pm 0.5% of indicated reading for the top 90% of full scale as indicated above. Required Accessory; ATDBRIS IS cable to connect Auditor ATDA instrument.



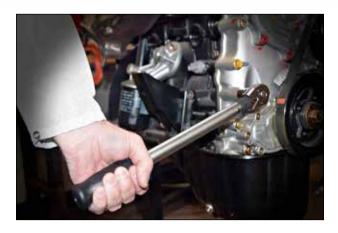
FEATURES AND BENEFITS

- 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

PRESET WRENCHES	DESCRIPTION
APTW-25	Auditor Preset Torque Wrench, 5 - 25 Nm, Accepts 12 mm Inserts
APTW-50	Auditor Preset Torque Wrench, 10 - 50 Nm, Accepts 12 mm Inserts
APTW-100	Auditor Preset Torque Wrench, 20 - 100 Nm, Accepts 12 mm Inserts
APTW-150	Auditor Preset Torque Wrench, 30 - 150 Nm, Accepts 12 mm Inserts
APTW-200	Auditor Preset Torque Wrench, 40 - 200 Nm, Accepts 14 mm Inserts
APTW-340	Auditor Preset Torque Wrench, 60 - 340 Nm, Accepts 14 mm Inserts

RATCHET AND SQUARE DRIVE HEADS	DESCRIPTION
9 x 12	
APTH-12RT25	Auditor Preset Torque Wrench Ratchet Insert, 1/4 SQ DR, 12 mm
APTH-12RT38	Auditor Preset Torque Wrench Ratchet Insert, 3/8 SQ DR, 12 mm
APTH-12RT50	Auditor Preset Torque Wrench Ratchet Insert, 1/2 SQ DR, 12 mm
APTH-12SD25	Auditor Preset Torque Wrench SQ DR Insert, 1/4 SQ DR, 12 mm
APTH-12SD38	Auditor Preset Torque Wrench SD DR Insert, 3/8 SQ DR, 12 mm
APTH-12SD50	Auditor Preset Torque Wrench SQ DR Insert, 1/2 SQ DR, 12 mm
14 x 18	
APTH-14RT50	Auditor Preset Torque Wrench Ratchet Insert, 1/2 SQ DR, 14 mm
APTH-14RT34	Auditor Preset Torque Wrench Ratchet Insert, 3/4 SQ DR, 14 mm
APTH-14SD50	Auditor Preset Torque Wrench SQ DR Insert, 1/2 SQ DR, 14 mm





OPEN END HEADS DESCRIPTION

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

ENSURE ACCURACY IN QUALITY OR PRODUCTION APPLICATIONS

FEATURES

- Torque and angle measurement
- Modular system with self-identifying accessories
- Wireless delivery WiFi/Bluetooth
- One wrench/tablet analyzer to perform audits in full torque range from 0.5 – 1,000 Nm (with optional accessories)
 - Screwdriver mode from 0.5 - 5 Nm
 - Flexion mode (wrench) from
 4 1,000 Nm
- Works in both clockwise and counter-clockwise operation
- Uses standard drive adapters (see page 24)
- Tactile feedback to operator
- Rechargeable battery pack (wrench handle)



KIT MODEL*	PARTS INCLUDED
Production	
CPSKSOO	Includes (1) Wrench, (1) Wrench Battery, (1) Battery Charger, (1) 40 Nm Adapter, (1) Production Controller, Production Premium Software, (1) 200 Nm Extension, (1) 600 Nm Extension, and (1) 14 x 18 Ratchet Head (see p. 24)
CPSMHOO	Includes (1) Wrench, (1) Wrench Battery, (1) Battery Charger, (1) 40 Nm adapter, (1) Production Controller, and Production Premium Software
Quality	
CPSKUOO	Includes (1) Wrench, (1) Wrench Battery, (1) Battery Charger, (1) 40 Nm Adapter, (1) Quality Controller, Quality Premium Software, (1) 200 Nm Extension, (1) 600 Nm Extension, and (1) 14 x 18 Ratchet Head (see p. 24)
CPSMJOO	Includes (1) Wrench, (1) Wrench Battery, (1) Battery Charger, (1) 40 Nm Adapter, (1) Quality Controller, Quality Premium Software

* Additional kits available. Contact an AIMCO Customer Service Associate, 1-503-254-6600, or toll free 1-800-852-1368.

WRENCH HANDLE	TORQUE RANGE	LENGTH	WEIGHT	TORQUE TRANSDUCER ACCURACY	TIGHTENING ACCURACY	ANGLE TRANSDUCER ACCURACY
CPSKVOO	Screwdriver Mode: 0.5 - 5 Nm Wrench Mode: 4 - 40 Nm (requires CPSJP81 adapter) 4 - 1,000 Nm (with appropriate extension*)	7.9" 200 mm	0.82 lb 0.37 kg	ISO 6789 < 1%	< <u>+</u> 4%	±1%

* Wrench handle supplied with battery. Specific extensions for specific torques available separately (see page 26).

MOMENT ALPHA DIGITAL TORQUE WRENCH

REMOTE DISPLAY

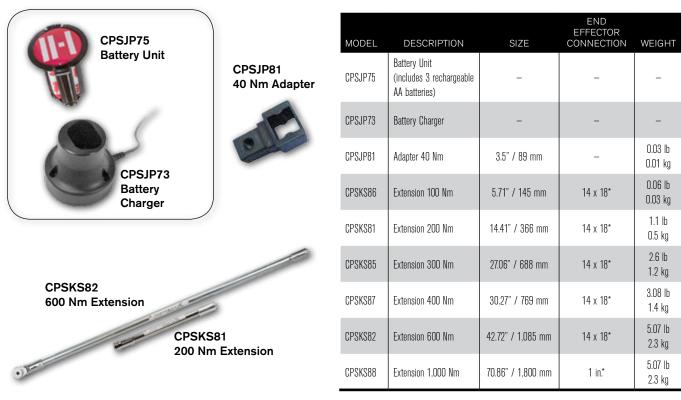


FEATURES

- Pre-set tightening settings
- Audible alarm
- Four tightening modes: Torque, Angle, Torque and Angle, Angle and Torque
- 2.4" color display touchscreen
- International units: Nm, kg/m, kp/m, ft-lb, in-lb, ft-oz, in-oz
- Sturdy and suited to industrial environments

MODEL	DESCRIPTION	SIZE	WEIGHT
CPSKR81	Production Controller w/out software	7.1" x 13.8" x 5.9" 180 x 350 x 150 mm	7.05 lb 3.2 kg
CPSKR82	Quality Controller w/out software	8.7" x 5.4" x 1.3" 221 x 138 x 32 mm	1.05 lb 0.5 kg
CPSKS50	Production Premium Software	-	-
CPSKU50	Quality Premium Software	-	-

ACCESSORIES



End Effectors sold separately. See page 24.

TORQUE CARTS

TOROUE MEASUREMENT: TOROUE CARTS Features and Benefits • Test on repeatable joint simulators or production joints • Simple to sophisticated options • Manual or self-propelled • Mobile test carts can be configured for testing continuous and discontinuous drive tools that include DC electric, clutch, battery, impulse, and torque wrenches	
 Each cart is customizable to meet testing needs from 1 - 1,356 Nm Contact your AIMCO representative for a quote or more information Hydraulic Braking Technology Dry braking with multiple hydraulic cylinders where thrust is generated equally to allow better linear control of the braking ramp Programmable joint characteristics for use with continuous drive tools - no unwinding required 	iTVC
 after testing UFT Repeatable Joint Simulator Mechanically adjustable hydraulic pressure circuits allow the bolt tightening body to be configured to simulate various joint characteristics Ideal for repeatable, linear joint rate simulation while testing all tools including impulse tools 	X
DataPro Software	Х
Torque Wrench Loader Option	Х

* Optional equipment - extension added to cart

AUDITOR TORQUE CART



AIMCO offers torque carts for "lineside" or "point of use" tool validation and calibration. Our torque carts allow testing of tools on repeatable joint simulators and "in process" use on production joints, allowing users to identify process capability. There are multiple torque cart options:

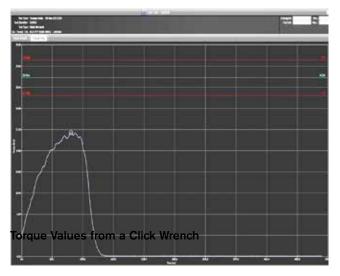
- Manual push carts equipped with simple torque testers
- Manual push carts equipped with data collectors and database application software
- Self propelled cart with computer and relational database application
- Driven cart with computer and relational database application

Each cart can be equipped to specific customer requirements. Maximum torque range on board torque cart is 1,356 Nm or 1,000 ft-lb. Ancillary test stands up to 50,000 ft-lb available.

DATA COLLECTION SOFTWARE

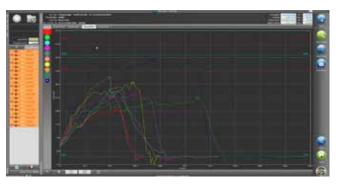
DATAPRO SOFTWARE + SQNET SOFTWARE - TORQUE CART DATA MANAGEMENT

As the data management system for the AIMCO Torque Cart line, DataPro and SQnet software provide tool management, verification, and calibration. Users can manage complete tool inventory, create jobs/routes, and store collected data. Calibration sequencing can be scheduled by time or number of rundowns.



TORQUE VERIFICATION

DataPro displays sample values of torque, angle, and pulse count. It calculates statistics: average, Cp, Cpk, Six Sigma, and Mean variation. As values are measured, they are graphically plotted on a X-bar range chart scaled to specification limits.



TRACES

The axis of the trace can be torque/time, torque/angle, angle/time. Save a trace, retrieve it, and overlay a new trace for comparison. Trace details are displayed at the bottom of the graph: max. values, plot time (ms), number of data points, filter frequency, and sample rate.

SQNET - QUALITY CONTROL & PRODUCTION LINE

SQnet is designed to manage quality control of the production line, manage all the tools (supplier, models, technical specifications), and manage related quality-control tests (Cm, Cmk, and XR charts).

Quality: manage tools, operation locations, and quality-control of production lines.

Production: check residual torque or perform joint analysis in order to test bench settings and to set accurate tightening parameters.

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LK SE CAR REVERADET BRACKET	1(1)16mm	Int (7/28/2015 5/09-13 P	P94		100708708383	100	38.0612/17	M 15/75	34/1	
LK KD STRENDS BACK	ALCO MANNESS	hell 7/26/2015 h/th/60 P	Pet .		5057687089682		3403/45	16.815/125	364	
UNITE STOCKOPS MACK FOR	4(4) 60m h	ex 1/20/2015 4:54:26 P	(91)		MINTER PROPERTY	11100	20.00000/32	08/050/120	34.0	
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LA RESISTANCE RACETS	400 8000 50	In 27/24/2413-102/24 P	PR 1		\$49.79%/\$80.8A		20.00000/32	#5.#35/125	3.0	
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LE GE STEERING BACKTEF	 (a) (a) Alarma has 		191		100.108/100382	×	30.75(36/32	5438/125	1/1	
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LE GO STEERING BACK FOR	······································	IN 17972005553330 P			000/108/102042	100	36.4838/32	11,216/125	34,18	
LE GA ETTERADE, BACK TTE	4(x) times in	4/07/0445 5.5000 P			5057087181043		× 10.1010/30	5.639/128	201	1
LE ISS STREAMING RACK FUT	4 (C down by	International Control of Contr	191		9499/108/3/8588	×	\$4,400,64,42	6.839/125	34/1	
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TA ST CAR RESTRATE MANCET	1010 Meaning	APROPERTY AND A PROPERTY AND A PROPE			MARING FURNER.	100	ALTERNAL SALTAN	N 85,(15/25	3/1	
LE 25 CAR REVERAINT MANAGET	EDC Mener				NORTHER DOUBLE		34,34012/17	16.413/75	34/8	

DATABASE INFORMATION

View operation lists and associated tools along with historic test or quality data. From the historic data screen, launch statistical graphs to view and analyze archived data. Graphs include X-bar range, histogram, Six Sigma, Cp, and Cpk graphs.

TRANSDUCERS

Features and Benefits	Rotary	Rotary Stationary			
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	ARTIS	ASTIS	AISI - AISF*		
configuration set up time.	Auditor Rotary Transducer Industry Standard	Auditor Stationary Transducer Industry Standard	Auditor Industry Standard Stationary		
Used in Conjunction with Analyzer			·		
ATC	Х	Х			
AUET	Х	X			
AUET AUET/MTM	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

ATDA-8000

	DRIVE	MAX 1	WEIGHT	
MODEL	IN	NM	IN-LB/FT-LB	LB
ARTIS-25H-2T(A)	1/4 Hex	2	18 in-Ib	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-Ib	1.0
ARTIS-25S-10T(A)	1/4 Sq.	10	88 in-Ib	1.0
ARTIS-25S-20T(A)	1/4 Sq.	20	180 in-Ib	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

*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.

MODEL



ASTIS

ASTIS industry
standard
transducers
can be used
with multiple
analyzers.

AISI / AISF Transducers connect to the ATDA-8000 analyzer and mount directly to a benchtop.

ansducers	ASTIS-25D-11
an be used	ASTIS-25D-28
vith multiple	ASTIS-38D-135
	ASTIS-50D-270
nalyzers.	ASTIS-75D-1000
	ASTIS-100D-1700
	ASTIS-100S-3000

1	
-	

AISI

	MAX	TORQUE	WEIGHT		WX	DRIVE	
MODEL*	NM	IN-LB/FT-LB	KG	LB	MM	IN	IN
AISI-200025	2.8	25	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/4
AISI-200100	11.3	100	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/4
AISI-200500	56.5	500	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	3/8
AISF-200100	135.6	1,200/100	2.25	5	100 x 65	4 x 3	1/2
AISF-200250	339	3,000/250	2.25	5	100 x 65	4 x 3	1/2
AISF-201000	1.350	12.000/1.000	2.8	6	100 x 65	4 x 3	1

MAX TORQUE

NM

11

28

135

270

1017

1,695 Nm

4,100 Nm

IN-LB/FT-LB

100 in-lb

250 in-lb

100 ft-lb

200 ft-lb

750 ft-lb

750 ft-lb

3,000 ft-lb

DRIVE

1/4

1/4

3/8

1/2

3/4

1

1

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

Auditor AISI / AISF Industry Standard Transducers Configuration Options

Base Model #	Angle	Capacity	Configuration	Expanded Range*	Digital	Drive Size	Wireless
	1 = Yes 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 00500 = 500 In-Lb / 500 Ft-Lb 00600 = 600 In-Lb / 600 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	$\begin{array}{l} 1 = 1/4" \text{Hex} \\ (\text{up to 100 ln-Lb / 8.3 Ft-Lb}) \\ \underline{2 = 1/4"Sq.} \\ (\text{up to 100 ln-Lb / 8.3 Ft-Lb}) \\ \underline{3 = 3/8"Sq.} \\ (150-500 \text{ln-Lb / 12.5-41.7 Ft-Lb}) \\ \underline{4 = 1/2"Sq.} \\ (1.800-3,000 \text{ln-Lb / 150-250 Ft-Lb}) \\ \underline{5 = 3/4"Sq.} \\ (3,000-12,000 \text{ln-Lb / 250-1,000 Ft-Lb}) \\ \underline{6 = 1"Sq.} \\ (12,000-24,000 \text{ln-Lb / 1,000-2,000 Ft-Lb}) \\ \underline{7 = 1-1/2"Sq.} \\ (24,000+ \text{ln-Lb / 2,000+ Ft-Lb}) \end{array}$	1 = Yes 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, 					1
 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	ARDA-XXX
Wear-Resistant Heavy Duty	Х				Х
Heavy Duty, Fully Encapsulated		Х			Х
Heavy Duty, Encapsulated Washers			Х		
Standard (Included w/analyzer)				Х	
Spline Drive					Х*
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*	RECOMMENDEI 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"

HD Series

*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 NM	D 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.

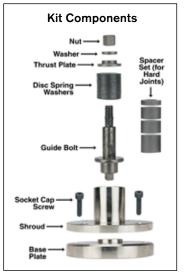
JOINT KITS / JOINT SIMULATORS

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





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

UFT SERIES HYDRAULIC MECHANICAL JOINT SIMULATORS



UFT-10

UFT-6

UFT-16



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
- Ouickly 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

	BOLT	TORQUE RANGE		WEI	GHT
MODEL	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 from ATDA-8000 series analyzer to AISI / AIFI transducer		Х					

* Compatible with ATDA, AUET, ADW products

TESTER / ANALYZER COMPATIBILITY

MODEL	ATC	AUET	AUET/ MTM	AUET- DC	AUET/ MTM-DC	ATDA	ATDA- DC	ATDA- 8000	ATDA-8000-10- DCA(-TA)(-TP)	AISWT SWITCHBOX	ADW	ADW- DC	AIMTS TEST STAND
ICBL-USB	Х	Х	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	Х			Х
ICBL-8000DIG								Х	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	



INDEX

MODEL # PAGE	MODEL # PAGE	MODEL # PAGE	MODEL # PAGE	MODEL # PAGE
A - B	APTH-12OE10	ARDFA-100(HD)(HDE)(HDS)31 ARDFA-150(HD)(HDE)(HDS)31	ATDA	CPSJP73
ADW-0010K21	APTH-120E12	ARDFA-250(HD)(HDE)(HDS)31	ATDA-8000-10-DCA(-TA)(-TP)13	CPSJP81
ADW-0075K	APTH-120E13	ARDFA-500(HD)(HDE)(HDS)31	ATDA-0000-10-DCA(-1A)(-11)13	CPSKR81
ADW-0180K	APTH-120E14	ARDFA-600(HD)(HDE)(HDS)31	ATDBLIS	CPSKR82
ADW-0270K	APTH-120E15	ARDFA-750(HD)(HDE)(HDS)31	ATDBRIS	CPSKS00
ADW-0500K	APTH-12OE16	ARDIA-10(HD)(HDE)(HDS) 31	ATW-0100F	CPSKS50
ADW-1400F	APTH-120E17	ARDIA-25(HD)(HDE)(HDS) 31	ATW-0200F	CPSKS81
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AHBTS-5000	APTH-12OE20	ARDIA-150(HD)(HDE)(HDS) 31	ATWL-250	CPSKS86
AHCTS-0.5K	APTH-12RT25	ARDIA-250(HD)(HDE)(HDS) 31	ATWL-750	CPSKS87
AHCTS-1.5RDF	APTH-12RT38	ARDIA-350(HD)(HDE)(HDS) 31	ATWL-1000	CPSKS88
AHCTS-001K	APTH-12RT50	ARDIA-500(HD)(HDE)(HDS) 31	Audit Manager Software 14	CPSKU00
AHCTS-1RDF	APTH-12SD25	ARDIA-750(HD)(HDE)(HDS) 31	AUET-10(-DC)	CPSKU50
AHCTS-2.5K	APTH-12SD38	ARDIA-1000(HD)(HDE)(HDS)31	AUET-50(-DC)	CPSKV00
AHCTS-3/4RDF	APTH-12SD50	ARTIS-25H-2T(A)	AUET-0100(-DC) 10	CPSMH00
AHCTS-005K	APTH-14OE1	ARTIS-25H-5T(A)	AUET-250(-DC)	CPSMJ0025
AHCTS-010K	APTH-14OE13	ARTIS-25H-20T(A)	AUET-500(-DC)	
AHCTS-025K	APTH-14OE14	ARTIS-25S-10T(A)	AUET-1000(-DC) 10	D - H
AHCTS-0500	APTH-14OE15	ARTIS-38S-75T(A)	AUET-1200(-DC)	DATAPRO + SQNET Software . 28
AHCTS-2500	APTH-14OE16	ARTIS-50S-180T(A)	AUET-1800(-DC)	I - L
AHCTS-500016 AHCTS-750016	APTH-14OE17	ARTIS-75S-250T(A)	AUET/MTM-10-100(-DC) 10	ICBL-4P33
AHCTS-750016	APTH-14OE18	ARTIS-75S-500T(A) 29	AUET/MTM-050-25 10	ICBL-10P
AIMTS-0500	APTH-14OE19	ARTIS-100S-1400T(A) 29	AUET/MTM-50-250(-DC) 10	ICBL-5000L
AIMTS-2000	APTH-14OE21	ARTIS-25H-10T(A)	AUET/MTM-50-500(-DC) 10	ICBL-8000DIG
AINT3-2000	APTH-14OE22	ARTIS-25S-20T(A)	AUET/MTM-050-600(-DC) 10	ICBL-USB
AISF-200250	APTH-14OE24	ARTIS-38S-25T(A)	AUET/MTM-50-1000(-DC) 10	iTVC
AISF-201000	APTH-14OE25	ARTIS-100S-750T(A)29	AUET/MTM-0100-050(-DC) 10	
AISI-200025	APTH-14OE27	ASTIS-25D-11	AUET/MTM-100-500(-DC) 10	<u>M</u> - S
AISI-200100	APTH-14OE30	ASTIS-25D-28	AUET/MTM-100-1000(-DC) 10	Moment Alpha
AISI-200500	APTH-14OE32	ASTIS-38D-135	AUET/MTM-100-1200(-DC) 10	Т
AISWT-4L	APTH-14OE34	ASTIS-50D-270	AUET/MTM-100-1600(-DC) 10	Tool Manager Software 14
AISWT-6L	APTH-14OE36	ASTIS-75D-1000	AUET/MTM-100-2000(-DC) 10	
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AJKR-135	APTH-14OE41	ASTIS-100S-3000	AUET/MTM-250-1800(-DC) 10	UFT-6
AJKR-271	APTH-14OE118	ATC-10	AUET/MTM-250-2500(-DC) 10	UFT-10
AJKR-1017	APTH-14OE138	ATC-25	AUET/MTM-500-2500(-DC) 10	UFT-16
AJKR-1695	APTH-14RT34	ATC-1009	С	UFT-24
AJKS-25D	APTH-14RT50	ATC-150F9		UFT-S10
AJKS-38D	APTH-14SD50	ATC-2509	CA150108DHD	UFT-S16
AJKS-50D	APTW-2524	ATC-250F9	CA151015 CA155015	
AJKS-75D32	APTW-5024	ATC-5009	CA157515	
AJKS-100D32	APTW-100	ATC-500F9	CA157515	
APTH-12OE7	APTW-150	ATC-7509	CA2515I	
APTH-12OE8	APTW-200	ATC-750F9	CA2575I	
APTH-12OE924	APTW-340	ATC-1800		

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