

# AUDITOR™

## MODULAR SYSTEM ULTIMATE FLEXIBILITY



### Moment Alpha Precision Digital Torque Wrench

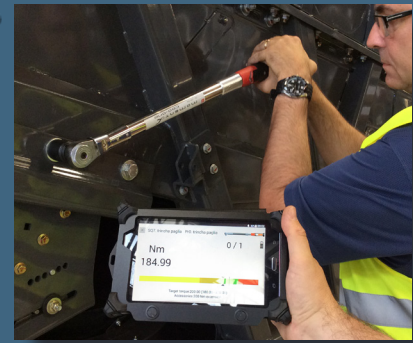
**AIMCO** **CRITICAL  
FASTENING  
SOLUTIONS**

# ULTIMATE FLEXIBILITY

## ENSURE ACCURACY IN QUALITY OR PRODUCTION APPLICATIONS

Moment Alpha is a modular digital wrench/torque system that ensures accurate, measurable tightening every time. Designed for both torque and angle measurement, the system can be used in both quality and production applications.

The Moment Alpha wrench is now available with Open Protocol, which allows instant data transfer to the plant network. Production and Quality audit results can be sent on the network after each event, and PLC logic can be developed to communicate signals to I/Os.



With the introduction of the new Mechanical Click system, Moment Alpha offers increased functionality. Quick and easy torque validation with data collection to ensure accurate rundowns on critical joints.

### FEATURES

- Torque *and* angle measurement
- Modular system with automatic detection of accessories
- Bluetooth communication between wrench and controller
- Now available with Open Protocol
- 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
- Click wrench option provides tactile and audible feedback, as well as double hit and overshoot detection
- Uses standard drive adapters
- Data collection with Data storage of 50,000 readings and 1,000 traces
- Rechargeable battery pack for wrench handle

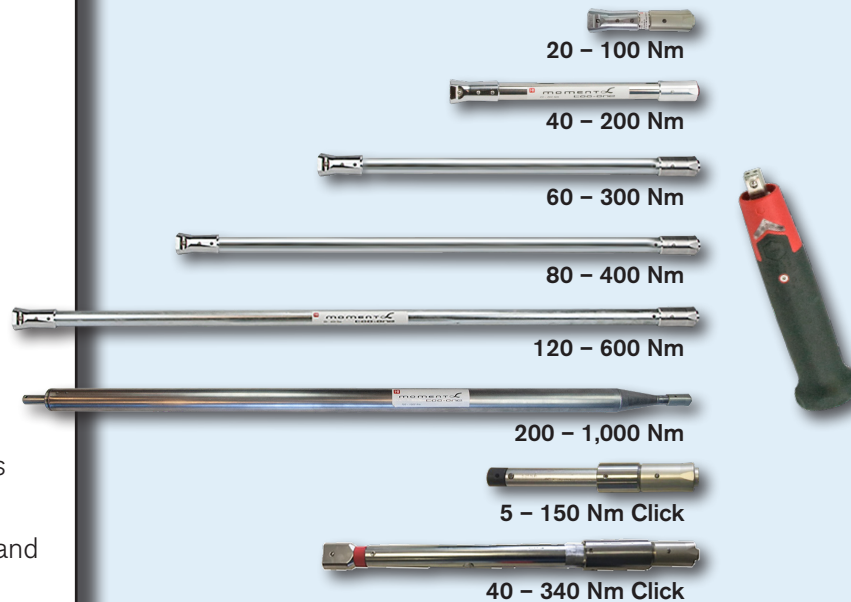


Portable Controller



Bench-Mount Controller  
AC Power

### Extensions



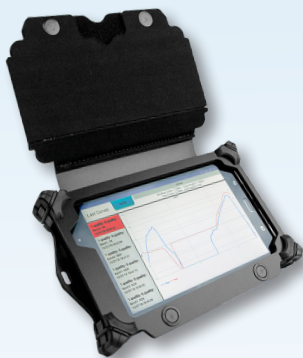
## WRENCH HANDLE



WRENCH HANDLE	TORQUE RANGE	LENGTH	WEIGHT	TORQUE TRANSDUCER ACCURACY	TIGHTENING ACCURACY	ANGLE TRANSDUCER ACCURACY
CPSKV00	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%	< ±4%	±1%

\* Wrench handle supplied with one battery. Specific extensions for specific torques available separately. Contact an AIMCO Customer Service Associate, 1-800-852-1368.

## CONTROLLERS



Portable Controller



Bench-Mount Controller  
AC Power

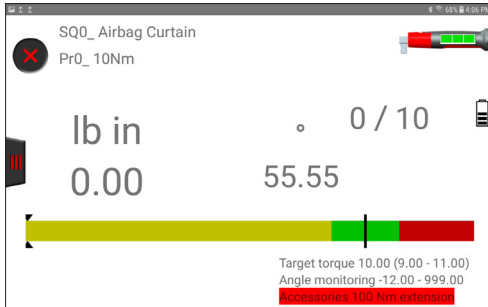
DESCRIPTION	SIZE	WEIGHT
Portable Controller	7.1" x 13.8" x 5.9" 180 x 350 x 150 mm	7.05 lbs 3.2 kg
Bench-Mount Controller	8.7" x 5.4" x 1.3" 221 x 138 x 32 mm	1.05 lbs 0.5 kg

### FEATURES

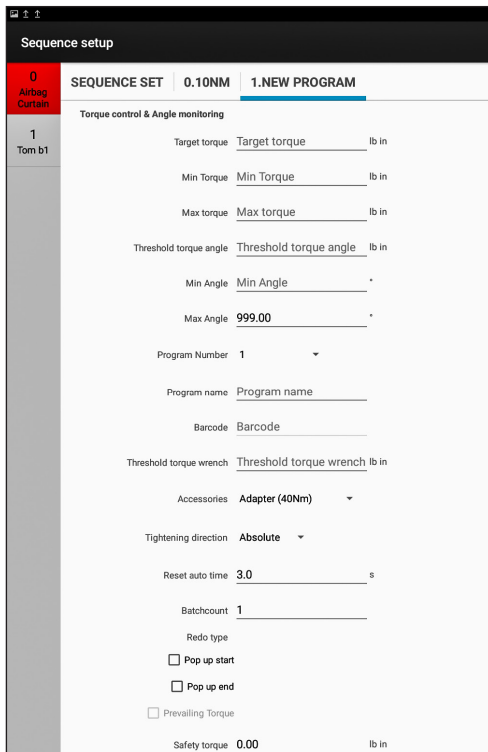
- Preset tightening settings
- Audible alarm
- Four tightening modes: Torque, Angle, Torque and Angle Monitoring, Angle and Torque Monitoring
- 7" color display touchscreen
- International units: Nm, kg/m, kp/m, ft-lb, in-lb, ft-oz, in-oz
- Sturdy and suited to industrial environments
- For greater flexibility, software is interchangeable between bench-mount and portable models
- Portable controller comes with a protective screen, rugged case, and carrying strap

# SOFTWARE

The Moment Alpha system allows you to select from four software versions to meet all your Production and Quality requirements. Any of the software versions can be installed on either of the controllers.



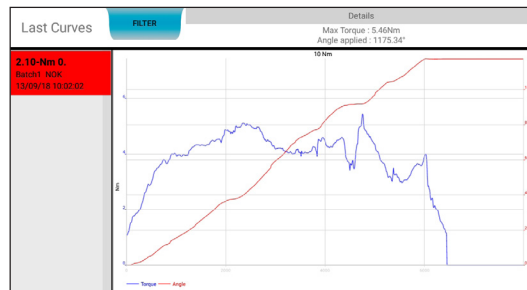
Easy-to-read touchscreen interface



Simple, straightforward sequence and program setup

	PRODUCTION SOFTWARE		QUALITY SOFTWARE	
	START	PREMIUM	START	PREMIUM
<b>TIGHTENING AND QUALITY STRATEGY</b>				
Re-Tight Mode			X	X
Angle Control/Peak Torque			X	X
Residual Torque			X	X
Torque Control/Angle Monitoring	X	X	X	X
Angle Control/Torque Monitoring	X	X	X	X
Prevailing Torque		X		X
<b>SETTING BOX / CONNECTION</b>				
USB: Backup, Restore, Download	X	X	X	X
Serial Port (Bar Code/Printer)	X	X		
WiFi		X	X	X
Ethernet RJ45		X		
OneToo Protocol		X		X
<b>SETTING SEQUENCE</b>				
Sequence number	10	1,000	10	1,000
Sequence name	X	X	X	X
Auto sequence	X	X	X	X
Auto reset	X	X		X
Jump		X		X
Retry		X		X
<b>SETTING PROGRAM</b>				
Program number	10	99	10	99
Barcode		X		X
Tightening direction		X		X
Batch count	999	999	999	999
<b>Data Viewer</b>				
Result Ok/NOK	X	X	X	X
Data	X	X	X	X
Trace	X	X	X	X
<b>Export Data</b>				
USB	X	X	X	X
<b>OPERATING SYSTEM</b>				
Trace Memory	3	1,000	3	1,000
Data Memory	1,000	50,000	1,000	50,000
<b>ACCESSORIES MANAGEMENT</b>				
Up to 15 Accessories	X	X	X	X
Extension	X	X	X	X
Electro-Mechanical Cutout	X	X	X	X

Last results							
Date	Time	Sq	Pg	Screw	Torque	Angle	Rp
24/08/18	10:39:07	1. Tom b1	4 Pg.	-	-	-	NOK
24/08/18	10:39:07	1. Tom b1	0. program0	6	-	-	NOK
24/08/18	10:38:46	1. Tom b1	0. program0	3/6	101.77	0.17	OK
24/08/18	10:38:32	1. Tom b1	0. program0	2/6	101.65	0.33	OK
24/08/18	10:38:16	1. Tom b1	0. program0	1/6	2.86	0.00	NOK



Easily view results and curves

## CLICK WRENCH

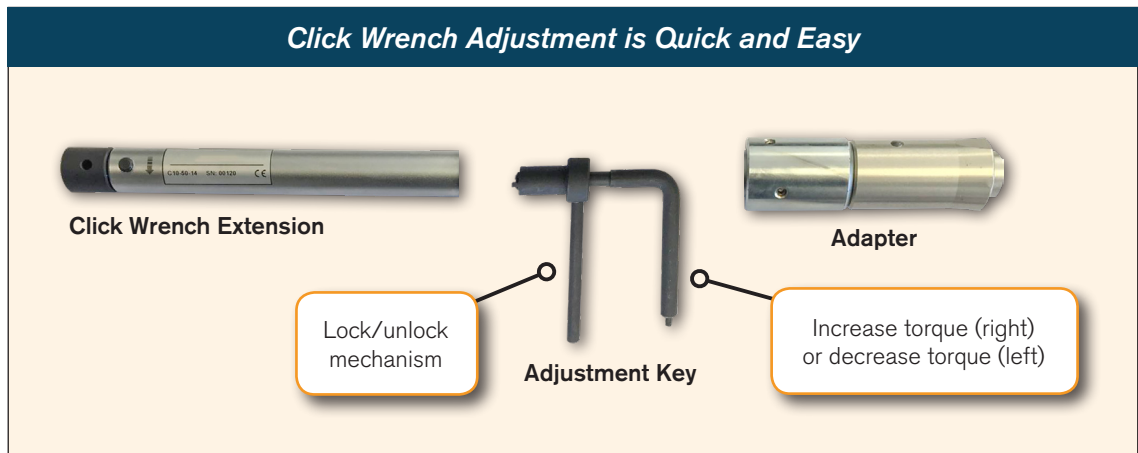
The Moment Alpha Smart Click Wrench setup improves the torque validation process by offering Torque and Angle measurement, which can be used to error proof your process by detecting double hit and overshoot (thread stripping). The controller stores 100,000 data points and 1,000 traces. The wrench provides tactile operator feedback with visual and audible queues.

### FEATURES AND BENEFITS

- Collect and store rundowns
- Range: 5 – 340 Nm, five sizes
- Tactile operator feedback with visual and audible queues
- Simple Torque & Angle Strategies
- When using an angle window, the system will detect
  - Double hit (already tightened fastener)
  - Overshoot (stripped fastener)



### Click Wrench Adjustment is Quick and Easy



# AUDITOR

## CHOOSE YOUR SYSTEM

### 1) Start with the Basics

All Moment Alpha systems start with a basic kit.

#### CPSKV00-KIT Basic Kit

MODEL	DESCRIPTION
CPSKV00	Wrench Handle
CPSJP75	Battery Unit for Handle (includes 3 rechargeable AA batteries)
CPSJP73	Battery Charger
CPSJP81	Adapter 4 - 40 Nm

Parts also available separately.



### 2) Choose Your Controller and Software

Either the portable or bench-mount controller type can be selected for either the Production or Quality systems.

#### Bench-Mount Controller



MODEL	INSTALLED SOFTWARE
CPSKMA-B.PS	Production Start Software
CPSKMA-B.QS	Quality Start Software
CPSKMA-B.QP	Quality Premium Software
CPSKMA-B.PPOP	Production Premium Software with Open Protocol
CPSKMA-B.QPOP	Quality Premium Software with Open Protocol

#### Portable Controller



MODEL	INSTALLED SOFTWARE
CPSKMA-P.PS	Production Start Software
CPSKMA-P.QS	Quality Start Software
CPSKMA-P.QP	Quality Premium Software
CPSKMA-P.PPOP	Production Premium Software with Open Protocol
CPSKMA-P.QPOP	Quality Premium Software with Open Protocol

### 3) Choose Your Extensions

AIMCO offers a variety of extensions to meet all of your application needs.



**CPSKS93**  
40 Nm  
Mini Adapter

**CPSKS90**  
60 Nm Adapter

Extensions				
MODEL	DESCRIPTION	LENGTH	END EFFECTOR CONNECTION	WEIGHT
CPSKS86	Extension 20 - 100 Nm	5.71" / 145 mm	14 x 18*	0.06 lb / 0.03 kg
CPSKS81	Extension 40 - 200 Nm	14.41" / 366 mm	14 x 18*	1.1 lb / 0.5 kg
CPSKS85	Extension 60 - 300 Nm	27.06" / 688 mm	14 x 18*	2.6 lb / 1.2 kg
CPSKS87	Extension 80 - 400 Nm	30.27" / 769 mm	14 x 18*	3.08 lb / 1.4 kg
CPSKS82	Extension 120 - 600 Nm	42.72" / 1,085 mm	14 x 18*	5.07 lb / 2.3 kg
CPSKS98	Extension 200 - 1,000 Nm	70.86" / 1,800 mm	1"	5.07 lb / 2.3 kg
CLICK EXTENSIONS				
CPSPH05	Extension 5 - 25 Nm	6.85" / 174 mm	9 x 12*	1.15 lb / 0.5 kg
CPSPH10	Extension 10 - 50 Nm	9.21" / 234 mm	9 x 12*	1.4 lb / 0.6 kg
CPSPH20	Extension 20 - 100 Nm	12.09" / 307 mm	9 x 12*	1.65 lb / 0.7 kg
CPSPH30	Extension 30 - 150 Nm	15.59" / 396 mm	9 x 12*	1.85 lb / 0.8 kg
CPSPH40	Extension 40 - 200 Nm	17.83" / 453 mm	14 x 18*	3.5 lb / 1.6 kg
CPSPH60	Extension 60 - 340 Nm	21.30" / 541 mm	14 x 18*	4.3 lb / 2.0 kg
END EFFECTOR ADAPTERS				
CPSKS93	Mini Adapter 4 - 40 Nm + Detection	1.9" / 49 mm	Adapts 14 x 18 to 9 x 12	-
CPSKS90	Adapter 6 - 60 Nm + Detection	3.8" / 96 mm	Adapts 14 x 18 to 9 x 12	-

\* End Effectors sold separately. Contact an AIMCO Customer Service Associate, 1-800-852-1368.

## KIT EXAMPLES

Because of its modularity, the Moment Alpha system has multiple options for building a customized kit. Following are examples of kits that you can build to suit your application needs.

### Example: Quality Premium Kit with Extensions



**CPSKV00-KIT**

- (1) Wrench
- (1) Wrench Battery
- (1) Battery Charger
- (1) 40 Nm Adapter

**PLUS**

- (1) Additional Battery (CPSJP75)
- (1) Portable Controller with Quality Premium Software (CPSKMA-P.QP)
- (1) 40 - 200 Nm Extension (CPSKS81)
- (1) 120 - 600 Nm Extension (CPSKS82)
- (1) 14 x 18 Ratchet Head (APTH-14RT50)
- (1) Portable Kit Carrying Case (30988)

### Example: Production Premium Kit with Click Extensions



**CPSKV00-KIT**

- (1) Wrench
- (1) Wrench Battery
- (1) Battery Charger
- (1) 40 Nm Adapter

**PLUS**

- (1) Additional Battery (CPSJP75)
- (1) Bench-Mount Controller with Production Premium Software, Open Protocol (CPSKMA-B.PPOP)
- (1) 10 - 50 Nm Click Extension (CPSPH10)
- (1) 40 - 200 Nm Click Extension (CPSPH40)
- (1) 14 x 18 Ratchet Head (APTH-14RT50)
- (1) 9 x 12 Ratchet Head (APTH-12RT38)

## ACCESSORIES

### WRENCH HEADS

AIMCO's wide range of interchangeable heads provide flexibility and convenience.

MODEL	DESCRIPTION
9 x 12	
APTH-12RT25	Ratchet Insert, 1/4 SQ DR, 12 mm
APTH-12RT38	Ratchet Insert, 3/8 SQ DR, 12 mm
APTH-12RT50	Ratchet Insert, 1/2 SQ DR, 12 mm
APTH-12SD25	SQ DR Insert, 1/4 SQ DR, 12 mm
APTH-12SD38	SD DR Insert, 3/8 SQ DR, 12 mm
APTH-12SD50	SQ DR Insert, 1/2 SQ DR, 12 mm
14 x 18	
APTH-14RT50	Ratchet Insert, 1/2 SQ DR, 14 mm
APTH-14RT34	Ratchet Insert, 3/4 SQ DR, 14 mm
APTH-14SD50	SQ DR Insert, 1/2 SQ DR, 14 mm

Open-end heads also available. Contact an AIMCO Customer Service Associate, 1-800-852-1368.



### PORTABLE KIT CARRYING CASE

This rugged, weather-resistant carrying case protects the portable controller and kit components.



**30988**  
Portable Kit Carrying Case  
(items shown in case sold separately)



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