









# WHAT IS IMPORTANT IN YOUR ASSEMBLY PROCESS?

Using AIMCO's industry standard PERQ formula guarantees that we will provide the best solution to fit your needs



## PRODUCTIVITY

Speed and efficiency of the assembly process

Whether a large automotive manufacturer building several hundred vehicles daily, or an electronics company producing individual, custom-made components, AIMCO provides products and services that allow each company to work at their ideal pace in order to keep its processes running efficiently.



## ERGONOMICS

Relationship between the worker and the assembly process

AIMCO focuses on providing products that are lightweight, quiet, and easy to operate, with minimal torque reaction and low vibration. These features allow assemblers to do their job in the safest possible manner and help manufacturers avoid the often hidden costs of workplace injuries.



## RELIABILITY

Reduced cost of repairing and maintaining the tools in the assembly process

AIMCO helps manufacturers face the challenges of maintenance, repair, and lost labor time by offering products with superior workmanship and durability. By combining high-quality products with a detailed and flexible service-training program, AIMCO ensures its tools will meet the customer's expectations of reliability.



## QUALITY

The ability of the tool to meet engineering requirements of the assembly process

AIMCO's assembly tools are tested and proven to meet the most stringent engineering specifications. AIMCO backs those tools up with its innovative Auditor torque measurement products. This allows manufacturers to focus on their most important goal – creating a quality product.



AIMCO and its distributors evaluate each manufacturer based on the PERQ formula to determine that company's unique blend of the PERQ elements – productivity, ergonomics, reliability, and quality. We then provide tooling options that enhance that mix. The end result is a manufacturing process that runs efficiently, produces high quality products and does so at the lowest possible cost. Combining PERQ with AIMCO's vast experience and unequalled service will enable any manufacturer to succeed in the global marketplace.

## Power Source

### ELECTRIC



- Clean and quiet
- Excellent torque repeatability because of slower speeds
- Greater flexibility at low torque ranges (<3 Nm)

### PNEUMATIC



- Fast operation
- Good power-to-weight ratio
- Long overall service life
- Allow more coverage at higher torque ranges (>200 Nm)

### CORDLESS



- Most flexibility for a broad range of applications
- No air hoses or cords to interfere with operator

## Drive Type

### DISCONTINUOUS



- Fast operation
- Virtually no torque reaction
- Frees up one hand for other, simultaneous tasks
- Superior clamp load repeatability

### CONTINUOUS



- Effective on a wide range of joint types from very hard to extremely soft
- Minimal maintenance
- Excellent torque repeatability because of slower speeds

## Orientation & Fixturing

### PISTOL



- Generally the quickest operation due to "point-and-tighten" familiarity

### INLINE



- Continuous drive inline tools normally require a reaction device for applications >2.5 Nm (20 in-lb)

### RIGHT ANGLE



- Good for low-clearance applications
- Continuous drive right angle tools allows highest possible torque ranges before reaction devices are required

### HANDHELD



- Normally the fastest to use on individual applications

### FIXTURED



- Can be fully automated, allowing operator to conduct other tasks as system operates

### MULTI-SPINDLE



- High productivity rates, but speed and cost may not be justified

## Correct Tool Choice



# Customer Commitment

## Tool University

AIMCO's commitment doesn't end with your tool purchase. Our goal is to educate you and your team on the most effective and efficient ways to utilize our tools; therefore, consistently producing a quality product.



All customers have the opportunity to attend our Tool University (Tool-U) training at our corporate headquarters in Portland, Oregon. Always free of charge to customers, your team will receive technical and practical training, learning how to effectively troubleshoot, test, and properly use the tool, which will reduce down time and help you achieve maximum tool performance.

AIMCO utilizes a team of experts to cover all elements influencing the fastening process, exploring the synergy between the joint, power tool, torque measurement, and operator handling. This knowledge can be applied to almost any assembly process regardless of the tool brand.

## Service



### Cutting-Edge Knowledge Base

Our skilled technicians work closely with our Technical Services group as well as our expert team of engineers, to share knowledge, keep up with new technologies, and improve processes.



### Service Guarantee

When AIMCO receives tools and equipment for servicing, they are pre-tested and inspected to identify issues. We provide precise repair estimates and feedback so that the customer ensures they are getting the most out of their tool investment. Repairs are completed using factory standards, parts, and processes. Once a repair is complete, it is tested, and/or calibrated, using N.I.S.T. certified measuring equipment, and guaranteed to perform to factory specifications.



### Complete Support

AIMCO helps manufacturers face the challenges of maintenance, repair, and lost labor time by offering products with superior workmanship and durability. By combining high-quality products with a detailed and flexible service-training program, AIMCO ensures its tools will meet the expectations of reliability. AIMCO backs those tools with its innovative Auditor torque measurement products. This allows manufacturers to focus on their most important goal – satisfied customers.

# AcraDyne Gen IV ACE Controller Platform



AcraDyne's Gen IV ACE Controller platform is a single platform that commands all transducerized tools in the AIMCO portfolio

AIR | CORDLESS | ELECTRIC



The same, simple programming for all tool types, including:

#### AcraDyne

- DC Tools
- Cordless Battery Tools

#### Uryu

- Air Powered Tools
- Electric Tools
- Pulse Tools

No additional controller training needed for different platforms (tool type specific knowledge is required).

One common communication for global data collection, line controls, and Field Bus platforms.



# AcraDyne Gen IV ACE Controller Platform

The AcraDyne Gen IV ACE controller platform is the culmination of more than 50 years of serving our industrial fastening customers with 20 years of manufacturing DC tools that are MADE IN THE USA. It is filled with countless advanced capabilities and features. The Gen IV ACE Controller is the core of the modular AcraDyne DC system. One controller will command any tool in the AcraDyne line from 1 Nm to 17,000 Nm, all with one cable.



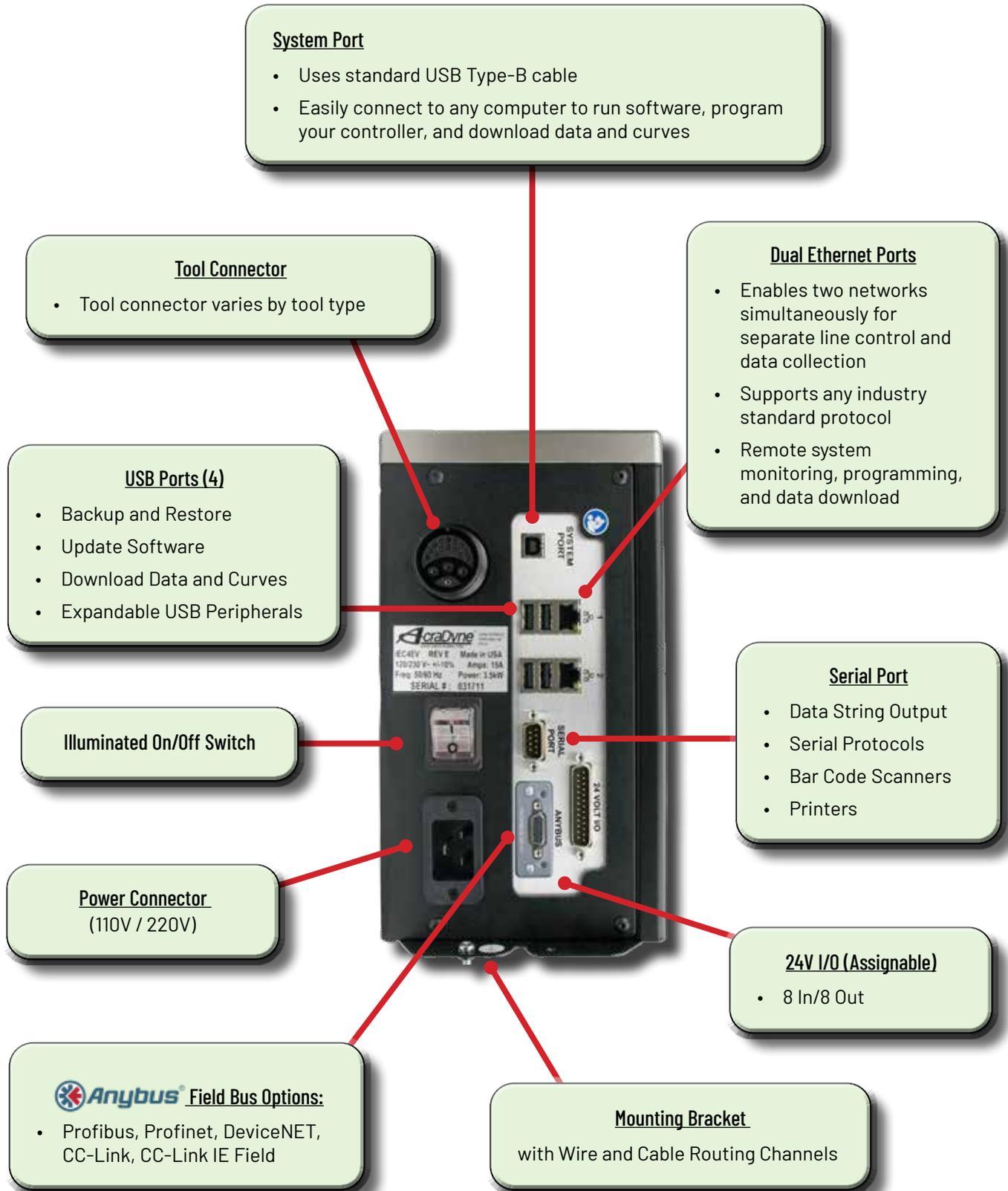
## FEATURES AND BENEFITS

- Web browser based programming. Receive data on your PC, tablet, smartphone, or any other web-capable device. You can use more than one device at a time: Be in program mode on one device while reviewing real-time curves on another, while watching tool diagnostics on a third
- Multiple fastening strategies - Program up to 256 parameters with as many as 20 steps
- Jobs capability - 99. Event log - 5,000
- Backup & restore through USB or Ethernet
- Assignable I/O (8 X 8)
- Rundown storage - 1,000,000
- Real-time curve viewing. Curve storage - 20,000

## NETWORKING CAPABILITIES

- Ethernet Protocols supported: Open Protocol, ToolsNet, Ethernet/IP, Modbus TCP, PFCS, XML, FTP Client
-  Anybus® Field Bus connectivity: Profibus, Profinet, DeviceNet, CC-Link, CC-Link IE Field
- Data collection
- Serial protocols and string output
- Bar code scanning & printing
- Multi-spindle synchronization

# AcraDyne Gen IV ACE Controller Platform



# AcraDyne Gen IV ACE Controller Platform

The Gen IV ACE Controller Platform provides ultimate FLEXIBILITY and FREEDOM to command tools for every application  
One common communication for your global data collection, line controls, and Field Bus platforms.



# AcraDyne Gen IV ACE Controller Platform



GEN IV ACE iEC Controller for all AcraDyne DC Tools



U.S. Patents  
0968491  
11,229,993

Model*	System Port & Removable Memory	Lights (L) LED Display (D) Graph (G)	24V I/O Assignable 8 X 8"	Serial Port with Protocols	Backup & Restore (USB)	Ethernet** Two Ports
<b>Bottom Exit Cable</b>						
iEC4EGV(P)(N)(D)(C)(M)	X	L/D/G	X	X	X	X
<b>Top Exit Cable</b>						
iEC4EGV(-T)(P-T)(N-T)(D-T)(C-T)(M-T)	X	L/D/G	X	X	X	X

\* Field bus options: P = Profibus N = Profinet D = DeviceNet C = CC Link M = CC-Link IE Field Other Field bus options available upon request.

\*\* Ethernet channel supports Open Protocol, ToolsNet, EtherNet/IP, Modbus TCP, PFCS, XML, and FTP Client.



GEN IV ACE iAC Controller for Transducerized Uryu Air Tools



Model*	System Port & Removable Memory	Lights (L) LED Display (D) Graph (G)	24V I/O Assignable 8 X 8"	Serial Port With Protocols	Backup & Restore (USB)	Solenoid Shut Off On Board	Programmable Regulator On Board	Ethernet** Two Ports
<b>Bottom Exit Cable</b>								
iAC4EGV(P)(N)(D)(C)(M)	X	L/D/G	X	X	X			X
iAC4ESRGV(P)(N)(D)(C)	X	L/D/G	X	X	X	X	X	X
<b>Top Exit Cable</b>								
iAC4EV(P-T)	X	L/D	X	X	X			X
iAC4EGV(-T)(P-T)(N-T)(D-T)(C-T)	X	L/D/G	X	X	X			X
iAC4ESRGV(-T)(P-T)(N-T)(D-T)(C-T)	X	L/D/G	X	X	X	X	X	X

\* Field bus options: P = Profibus N = Profinet D = DeviceNet C = CC Link M = CC-Link IE Field Other Field bus options available upon request.

\*\* Ethernet channel supports Open Protocol, ToolsNet, EtherNet/IP, Modbus TCP, PFCS, XML, and FTP Client.

# AcraDyne Gen IV ACE Controller Platform



## GEN IV ACE iPC Controller for Uryu UDP Transducerized DC Pulse Tools



Model*	System Port & Removable Memory	Lights (L) LED Display (D) Graph (G)	24V I/O Assignable 8 X 8"	Serial Port with Protocols	Backup & Restore (USB)	Ethernet** Two Ports
<b>Bottom Exit Cable</b>						
<b>110V Operation</b> iPC4EGV(P1)(N1)(D1)(C1)(M1)	X	L/D/G	X	X	X	X
<b>220V Operation</b> iPC4EGV(P2)(N2)(D2)(C2)	X	L/D/G	X	X	X	X
<b>Top Exit Cable</b>						
<b>110V Operation</b> iPC4EGV(1-T)(P1-T)(N1-T)(D1-T)(C1-T)(M1-T)	X	L/D/G	X	X	X	X
<b>220V Operation</b> iPC4EGV(2-T)(P2-T)(N2-T)(D2-T)(C2-T)	X	L/D/G	X	X	X	X

\* Field bus options: P = Profibus N = Profinet D = DeviceNet C = CC Link M = CC-Link IE Field Other Field bus options available upon request.  
\*\* Ethernet channel supports Open Protocol, ToolsNet, EtherNet/IP, Modbus TCP, PFCS, XML, and FTP Client.



## GEN IV ACE iBC Controller for all AcraDyne Transducerized Battery Tools



Model*	System Port & Removable Memory	Lights (L) LED Display (D) Graph (G)	24V I/O Assignable 8 X 8"	Serial Port with Protocols	Backup & Restore (USB)	Ethernet** Two Ports
<b>Connects through External WiFi Access Point (User Supplied)</b>						
iBC4E(N)	X	L/D		X	X	X
iBC4EGV(P)(N)(D)(C)	X	L/D	X	X	X	X

\* Field bus options: P = Profibus N = Profinet D = DeviceNet C = CC Link M = CC-Link IE Field Other Field bus options available upon request.  
\*\* Ethernet channel supports Open Protocol, ToolsNet, EtherNet/IP, Modbus TCP, PFCS, XML, and FTP Client.



## GEN IV ACE iBC-Z Controller for Uryu UBX-AF Transducerized Battery Oil Pulse Tools



Model*	System Port & Removable Memory	Lights (L) LED Display (D) Graph (G)	24v I/O Assignable 8 X 8"	Serial Port With Protocols	Backup & Restore (USB)	Ethernet** Two Ports
<b>Connectivity through embedded Zigbee access point</b>						
iBC4EGV(P-Z)(N-Z)(D-Z)(C-Z)(M-Z)	X	L/D/G	X	X	X	X

\* Field bus options: P = Profibus N = Profinet D = DeviceNet C = CC Link M = CC-Link IE Field Other Field bus options available upon request.  
\*\* Ethernet channel supports Open Protocol, ToolsNet, EtherNet/IP, Modbus TCP, PFCS, XML, and FTP Client.

# AcraDyne Gen IV ACE Controller Platform

## NETWORK CONNECTIVITY



## POKA-YOKE ERROR PROOFING

AcraDyne's Gen IV ACE Platform supports any third-party accessory to poka-yoke your process.

### FEATURES AND BENEFITS

- 24V I/O inputs support the outputs of the receiver units
- Connect click wrenches, crimpers, or any poka-yoked device to your network data collection and line controls with all of the Ethernet protocols and Field Buses offered in the ACE Platform

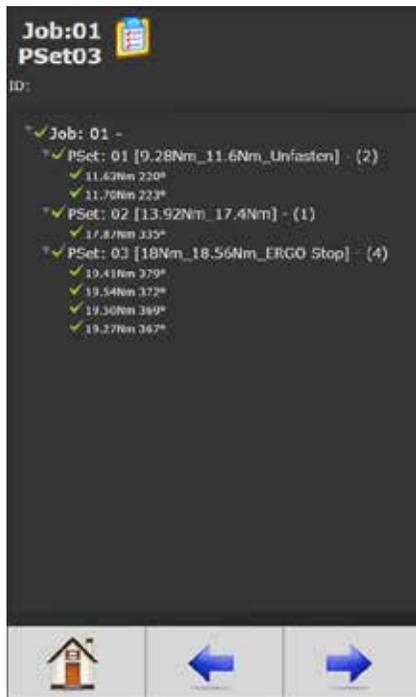


# AcraDyne Controller Software

## SOFTWARE

AcraDyne's software package is on-board every AcraDyne controller and is provided FREE of charge. This comprehensive, user-friendly program allows programming, analysis, and diagnostics.

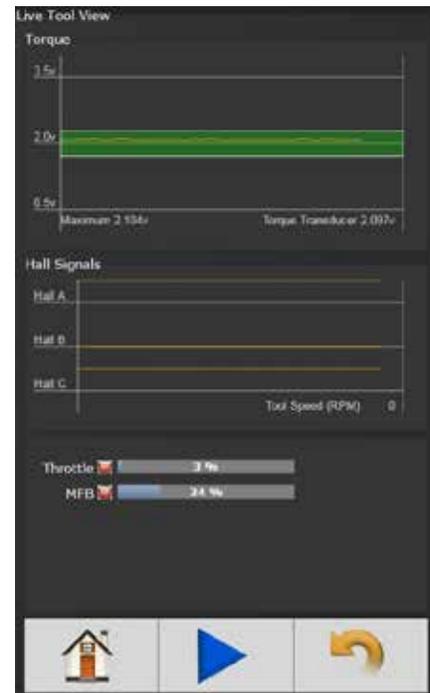
The software is based on a standard web browser, allowing you to connect the AcraDyne controller with any computer, tablet, or smart device. Connect through Ethernet, USB, or wirelessly via a network connected to both devices.



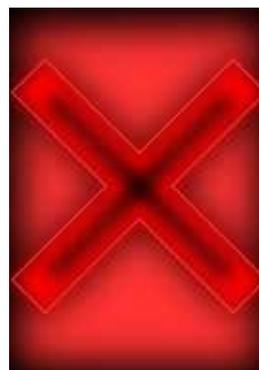
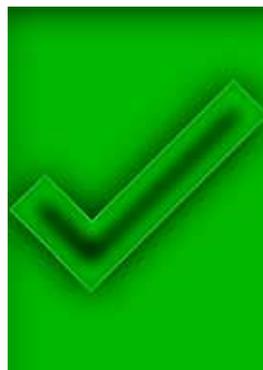
Adding and editing Parameter Sets (256) and Jobs (99) is easy and intuitive in the parameter set up function.



View curve results in real time or view stored results. As many as 20,000 curve results can be stored in memory.



Tool programming and diagnostics for repair, calibration and advanced troubleshooting.



Choose from several run screens that display easy to view, large screen indicators.

# Gen IV Smart Arm System With Process Visualization

## Gen IV Controller with On-Board Smart Arm Capability and Process Visualization

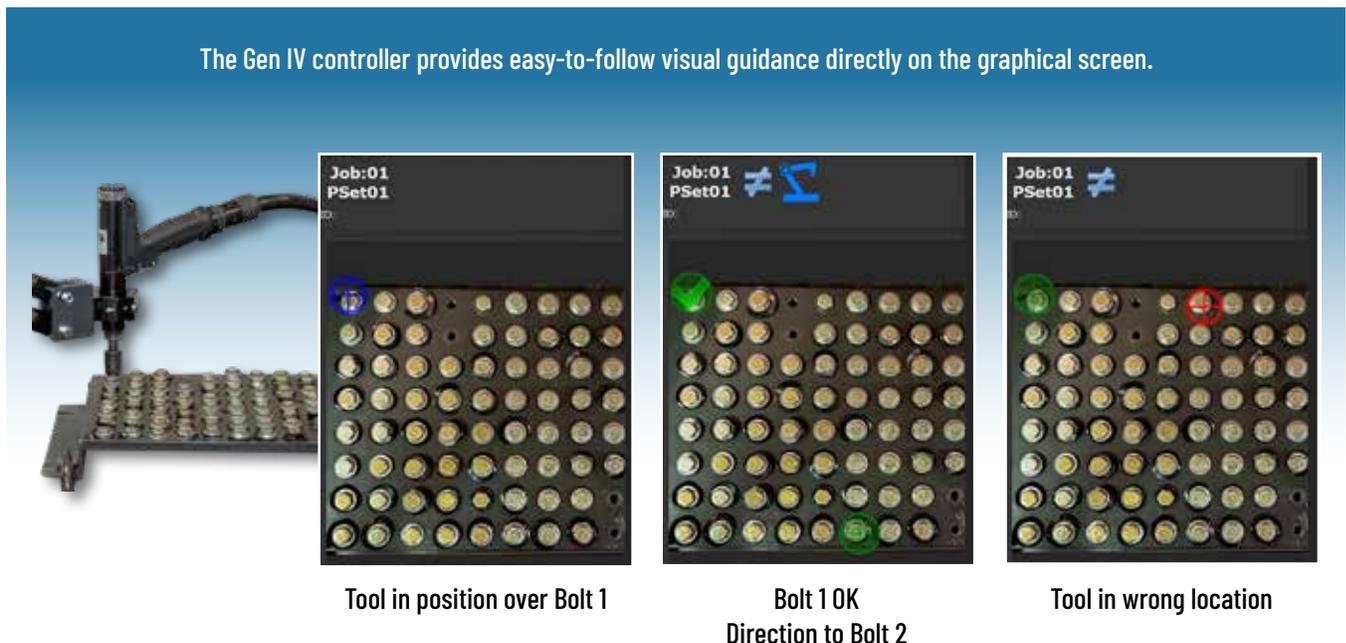
AcraDyne Gen IV Controller's smart arm capability provides an advanced error-proofing solution to ensure the quality of your fastening operation. The process requires no external PC or software – the capability is on-board every Gen IV controller.

### FEATURES AND BENEFITS

- Easy-to-follow visual guidance on the Gen IV controller graphical screen
- Easy setup – programming takes only minutes
- Once fastener locations are programmed into the Gen IV controller, the system can perform specific actions on specific fasteners
- No external PC or third-party software needed. Control the process using AcraDyne's Gen IV Controller and its integrated software, which is provided free of charge
- Low-cost solution vs. competitive offerings that require third-party PC-based control
- Modular – can be added at any time to an existing AcraDyne system using the Gen IV controller
- No guesswork! Powerful Gen IV data collection enables diagnostics and analysis
- Works with both continuous and discontinuous drive tools



The Gen IV controller provides easy-to-follow visual guidance directly on the graphical screen.



# Gen IV Smart Arm System With Process Visualization



## Gen IV Smart Arm System with Process Visualization

### Smart Arm Accessory:

- Requires no external PC or third-party software for operation
- Gen IV Controller Software integrates with plant manufacturing execution software or allows custom programming

Smart Arm guides operator in the specified torque pattern and counts fasteners required for correct assembly.

Encoders located at each joint of the arm.

### Gen IV Controller captures fastening-process data:

- Data captured and reported in real time with torque and graphing capabilities
- Curve results presented in real time or from stored results
- 20,000 curve results can be stored in memory
- Monitor, control, and report torque, angle, engineering units, fastener count, job/job sequence
- Multiple fastening strategies: 256 parameter sets with 20 stages
- Jobs capabilities - 99



Smart Arm Accessory

Gen IV Controller with Large 7" Touch Screen

Custom image of run screen with preprogrammed fastener locations/specifications. Updates in real time.

Tool operates only when it is at the correct specified fastener location.

# 1000 SERIES

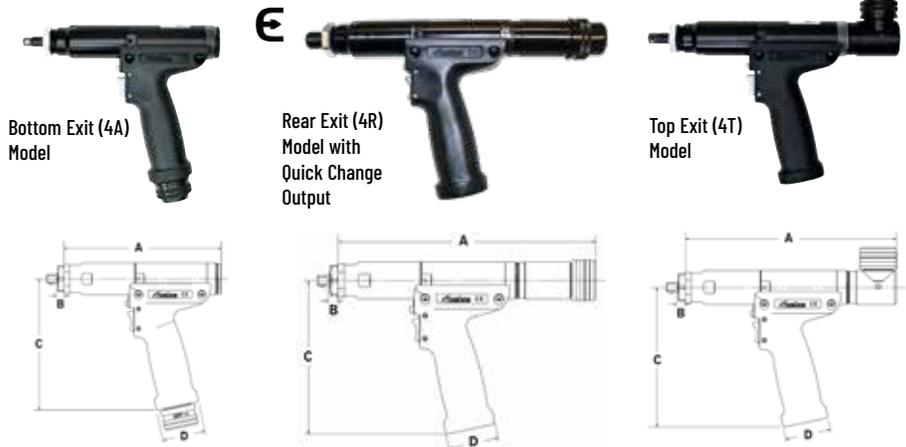
## 1 – 22 Nm

- Superior size, speed, and duty cycle compared to competitors' tools
- Durable Nylon motor and handle housing
- Onboard lights and audible signal for operator feedback



### 1000 Series Pistol Tools

- Bottom, top, rear exit and push-to-start models available
- Standard Square Drive or extended Ergo Drive output available on all models
- 1/4" Quick Change output available on 3 – 14 Nm models
- Programmable Multi-Function Button: One single button facilitates several distinctly different tasks



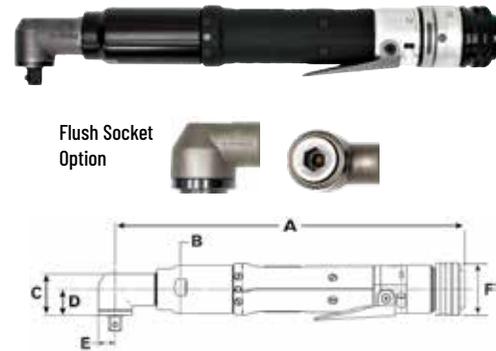
### 1000 Series Pistol Tools

Model	Max Torque		Torque Range		Free Speed RPM	Weight (-) Socket		Output Drive SQ DR	A		B		C		D	
	NM	FT-LB	NM	FT-LB		LB	KG		IN	MM	IN	MM	IN	MM	IN	MM
Pistol 4A Models = Bottom Exit 4R Models = Rear Exit 4T Models = Top Exit (V) = Extended Ergo-Drive Output (Q) = 1/4" Quick Change Output																
AEP4(A)(R)(T)12003B(V)(Q)	3	2.2	0.8 - 3	0.6 - 2.2	2,625	2.2	1.00	3/8"	A = 6.5 R = 9.3 T = 8.3	165.1 236 210.9	0.38	9.6	6.01	152.6	1.96	49.7
AEP4(A)(R)(T)12006B(V)(Q)	6	4.4	1.5 - 6	1.1 - 4.4	2,625	2.2	1.00	3/8"	A = 6.5 R = 9.3 T = 8.3	165.1 236 210.9	0.38	9.6	6.01	152.6	1.96	49.7
AEP4(A)(R)(T)12011B(V)(Q)	11	8.1	2.8 - 11	2 - 8.1	1,313	2.3	1.04	3/8"	A = 7.17 R = 10.34 T = 8.97	182.2 262.7 228	0.38	9.6	6.01	152.6	1.96	49.7
AEP4(A)(R)(T)12014B(V)(Q)	14	10	3.5 - 14	2.6 - 10	1,037	2.3	1.04	3/8"	A = 7.17 R = 10.34 T = 8.97	182.2 262.7 228	0.38	9.6	6.01	152.6	1.96	49.7
AEP4(A)(R)(T)12018BV	18	13	4.5 - 18	3.3 - 13	840	2.3	1.04	3/8"	A = 7.17 R = 10.34 T = 8.97	182.2 262.7 228	0.38	9.6	6.01	152.6	1.96	49.7
AEP4(A)(R)(T)12022BV	22	16	5.5 - 22	4.1 - 16	656	2.3	1.04	3/8"	A = 7.17 R = 10.34 T = 8.97	182.2 262.7 228	0.38	9.6	6.01	152.6	1.96	49.7
Pistol Push-to-Start																
AEP4T12003BL	3	2.2	0.8 - 3	0.6 - 2.2	2,625	2.2	1.00	3/8"	8.88	225.5	0.25	6.3	6.01	152.6	1.96	49.7
AEP4T12006BL	6	4.4	1.5 - 6	1.1 - 4.4	2,625	2.2	1.00	3/8"	8.88	225.5	0.25	6.3	6.01	152.6	1.96	49.7
AEP4T12011BL	11	8.1	2.8 - 11	2 - 8.1	1,313	2.3	1.04	3/8"	8.97	228	0.25	6.3	6.01	152.6	1.96	49.7
AEP4T12014BL	14	10	3.5 - 14	2.6 - 10	1,037	2.3	1.04	3/8"	8.97	228	0.25	6.3	6.01	152.6	1.96	49.7

\* E logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

## 1000 Series Angle Tools

- Compact, durable head houses a precision right-angle gearset that fits into the tightest spaces
- Integrated transducer for accurate delivery or monitoring of Torque and Angle
- Lightweight materials and uniform body diameter provide a comfortable grip
- Ergonomically placed start lever for ease of operation
- Available in regular or flush socket options



### 1000 Series Angle Tools

Model	Max Torque		Torque Range		Free Speed RPM	Weight (-)Socket		Output Drive SQ DR	A		B		C		D		E		F	
	NM	FT-LB	NM	FT-LB		LB	KG		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
Angle Add "F" to Part Numbers for Flush Socket																				
AEN4C12004B	4	3	1 - 4	0.7 - 3	3,111	2.0	0.91	3/8"	11.04	280.4	1.47	37.3	1.29	32.8	0.82	20.9	.52	13.1	1.56	39.6
AEN4C12009B	9	6.6	2.3 - 9	1.7 - 6.6	1,750	2.2	1.00	3/8"	11.01	279.6	1.47	37.3	1.29	32.8	0.82	20.9	.52	13.1	1.56	39.6
AEN4C12014B	14	10	3.5 - 14	2.6 - 10	875	2.2	1.00	3/8"	11.65	295.9	1.47	37.3	1.29	32.8	0.82	20.9	.52	13.1	1.56	39.6
AEN4C12018B	18	13	4.5 - 18	3.3 - 13	691	2.2	1.00	3/8"	11.65	295.9	1.47	37.3	1.29	32.8	0.82	20.9	.52	13.1	1.56	39.6
AEN4C12022B	22	16	5.5 - 22	4.1 - 16	560	2.2	1.00	3/8"	11.65	295.9	1.47	37.3	1.29	32.8	0.82	20.9	.52	13.1	1.56	39.6

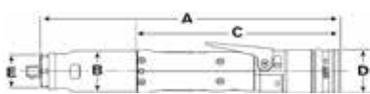
## 1000 Series Inline Tools

- Square drive or Ergo drive available on all inline models
- Quick change output available on 3 - 14 Nm inline and push-to-start models
- User modifiable reaction bar included with in-line tools for use in handheld applications

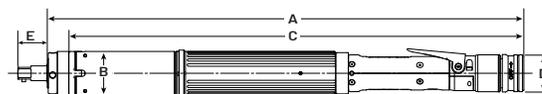


### 1000 Series Inline Tools

Model	Max Torque		Torque Range		Free Speed RPM	Weight (-)Socket		Output Drive SQ DR	A		B		C		D		E	
	NM	FT-LB	NM	FT-LB		LB	KG		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
Inline V = Extended Ergo-Drive Output Q = 1/4" Quick Change Output																		
AES4A12003B(V)(Q)	3	2.2	0.8 - 3	0.6 - 2.2	2,625	2.0	0.91	3/8"	11	279.4	1.47	37.3	7.43	188.6	1.56	39.6	1.31	33.4
AES4A12006B(V)(Q)	6	4.4	1.5 - 6	1.1 - 4.4	2,625	2.0	0.91	3/8"	11	279.4	1.47	37.3	7.43	188.6	1.56	39.6	1.31	33.4
AES4A12011B(V)(Q)	11	8.1	2.8 - 11	2 - 8.1	1,313	2.2	1.00	3/8"	11	279.4	1.47	37.3	7.43	188.6	1.56	39.6	1.31	33.4
AES4A12014B(V)(Q)	14	10	3.5 - 14	2.6 - 10	1,037	2.2	1.00	3/8"	11	279.4	1.56	39.6	7.43	188.6	1.56	39.6	1.31	33.4
AES4A12018BV	18	13	4.5 - 18	3.3 - 13	840	2.2	1.00	3/8"	11	279.4	1.47	37.3	7.43	188.6	1.56	39.6	1.31	33.4
AES4A12022BV	22	16	5.5 - 22	4.1 - 16	656	2.2	1.00	3/8"	11	279.4	1.47	37.3	7.43	188.6	1.56	39.6	1.31	33.4
Inline Push-to-Start (Q) = 1/4" Quick Change Output																		
AEL4A12003B(Q)	3	2.2	0.8 - 3	0.6 - 2.2	2,625	2.0	0.91	3/8"	10.69	271.6	1.56	39.6	7.38	187.4	0.21	5.3	1.56	39.6
AEL4A12006B(Q)	6	4.4	1.5 - 6	1.1 - 4.4	2,625	2.0	0.91	3/8"	10.69	271.6	1.56	39.6	7.38	187.4	0.21	5.3	1.56	39.6
AEL4A12011B(Q)	11	8.1	2.8 - 11	2 - 8.1	1,313	2.2	1.00	3/8"	11.26	286.1	1.56	39.6	7.38	187.4	0.21	5.3	1.56	39.6
AEL4A12014B(Q)	14	10	3.5 - 14	2.6 - 10	1,037	2.2	1.00	3/8"	11.26	286.1	1.56	39.6	7.38	187.4	0.21	5.3	1.56	39.6
AEL4A12018B	18	13	4.5 - 18	3.3 - 13	840	2.2	1.00	3/8"	11.26	286.1	1.56	39.6	7.38	187.4	0.21	5.3	1.56	39.6
AEL4A12022B	22	16	5.5 - 22	4.1 - 16	656	2.2	1.00	3/8"	11.26	286.1	1.56	39.6	7.38	187.4	0.21	5.3	1.56	39.6



Inline Tool, 3 - 22 Nm



Inline Tool, 100 Nm

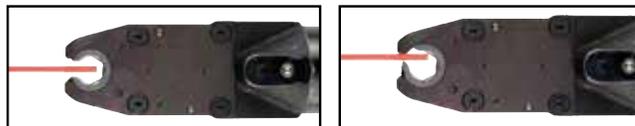


Push-to-Start Tool

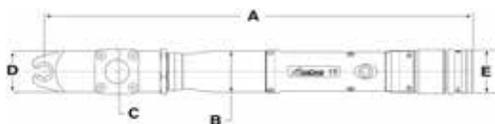
\* **E** logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

## 1000 Series Tubenut Tools

- Durable tubenut head design
- Simple, one-touch back to open operation for maximum productivity
- Innovative Sensor Technology: Transducer senses resistance in the initial 90 degrees of rotation and returns to open upon resistance encountered



INNOVATIVE SAFETY SENSOR TECHNOLOGY: Tool returns to open upon resistance encountered in initial 90° of rotation.



### 1000 Series Tubenut Tools

1000 Series Tubenut	Max Torque		Torque Range		Free Speed RPM	Weight (-)Socket		Output Drive		A		B		C		D		E	
	NM	FT-LB	NM	FT-LB		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
Tubenut Wide variety of socket sizes available																			
AET4AA12018B	14	13	3.6 - 14	2.7 - 11	516	3.1	1.41	1/4 - 7/16	7 - 12	15.4	391.5	1.47	37.3	1.57	40	1.46	37	1.56	39.6
AET4AB12025B	20	18	5 - 20	3.7 - 15	387	3.1	1.41	3/8 - 5/8	10 - 17	15.9	404.9	1.47	37.3	1.57	40	1.56	39.5	1.56	39.6
AET4A12025B-KD	25	18	5 - 25	3.7 - 18	387	3.1	1.41	3/8 - 5/8	10 - 17	15.9	403.2	1.47	37.3	1.64	41.6	1.64	41.6	1.56	39.6
AET4A12030B-KD	30	22	6 - 30	4.4 - 22	285	3.1	1.41	3/8 - 5/8	10 - 17	15.9	403.2	1.47	37.3	1.64	41.6	1.64	41.6	1.56	39.6

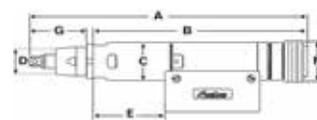
## 1000 Series Fixtured Tools

- Rear & bottom exit available
- Standard Square Drive, Extended Ergo Drive, or 1/4" Quick Change outputs available in most models
- Integrated Sliding Spindles offered in varying lengths of travel to suit specific application needs

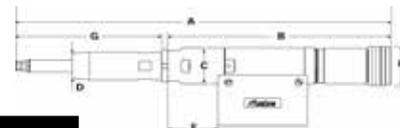


### 1000 Series Fixtured Tools

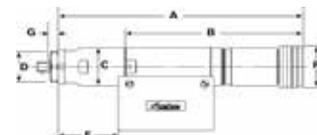
Model	Max Torque		Torque Range		Free Speed RPM	Weight (-)Socket		Output Drive SQ DR
	NM	FT-LB	NM	FT-LB		LB	KG	
Fixtured 4A models = 1/2" sliding spindle 4C Models = 1-3/4" Sliding Spindle 4X Models = Fixed 3/8" Sq. Dr. (B) = Bottom Exit Cable (Q) = 1/4" Quick Change Output								
AEF4(A)(C)(X)12003B(B)(Q)	3	2.2	0.8 - 3	0.6 - 2.2	2,625	2.0	0.91	3/8"
AEF4(A)(C)(X)12006B(B)(Q)	6	4.4	1.5 - 6	1.1 - 4.4	2,625	2.0	0.91	3/8"
AEF4(A)(C)(X)12011B(B)(Q)	11	8.1	2.8 - 11	2 - 8.1	1,313	2.2	1.00	3/8"
AEF4(A)(C)(X)12014B(B)(Q)	14	10	3.5 - 14	2.6 - 10	1,037	2.2	1.00	3/8"
AEF4(A)(C)(X)12018B(B)	18	13	4.5 - 18	3.3 - 13	840	2.2	1.00	3/8"
AEF4(A)(C)(X)12022B(B)	22	16	5.5 - 22	4.1 - 16	656	2.2	1.00	3/8"



AEF4A 1/2" Sliding Spindle Model



AEF4C 1-3/4" Sliding Spindle Model



AEF4X Fixed 3/8" Sq. Dr. Model

### 1000 Series Fixtured Tool Dimensions

Fixtured	A		B		C		D		E		F		G	
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
AEF4A12003B / AEF4A12006B	11.57	294	9.14	231.1	1.47	37.3	1.12	28.6	2.05	52.2	1.59	40.4	2.18	55.5
AEF4A12011B / AEF4A12014B / AEF4A12018B / AEF4A12022B	12.20	309.8	9.14	231.1	1.47	37.3	1.12	28.6	2.72	69.2	1.59	40.4	2.18	55.5
AEF4C12003B / AEF4C12006B	15.36	390.3	9.14	231.1	1.47	37.3	1.12	28.6	2.05	52.2	1.59	40.4	5.98	151.8
AEF4C12011B / AEF4C12014B / AEF4C12018B / AEF4C12022B	15.99	406.1	9.14	231.1	1.47	37.3	1.12	28.6	2.72	69.2	1.59	40.4	5.98	151.8
AEF4X12003B / AEF4X12006B	9.35	237.5	6.82	173.2	1.47	37.3	1.31	33.4	2.06	52.2	1.59	40.4	0.38	9.7
AEF4X12011B / AEF4X12014B / AEF4X12018B / AEF4X12022B	10.02	254.4	6.82	173.2	1.47	37.3	1.31	33.4	2.72	69.1	1.59	40.4	0.38	9.7

\*E logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

# 2000 SERIES

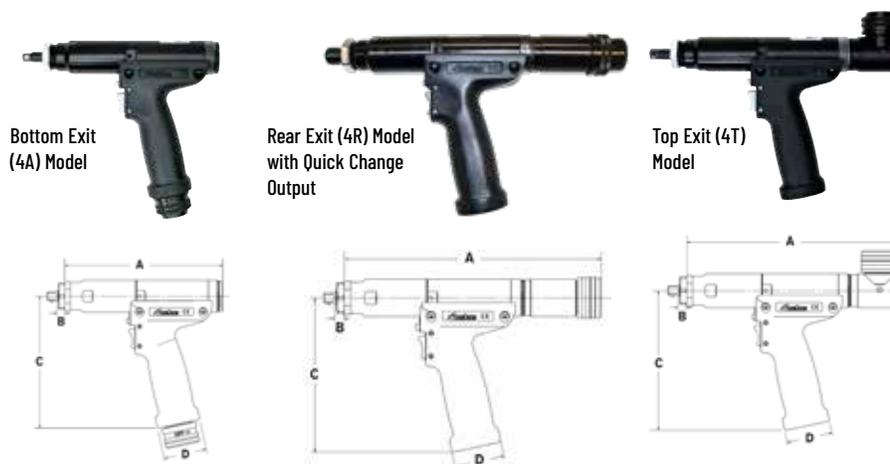
3 – 55 Nm

- Superior size, speed, and duty cycle compared to competitors' tools
- Durable Nylon motor and handle housing
- Aluminum motor and gear housing
- Onboard lights and audible signal for operator feedback



## 2000 Series Pistol Tools

- Bottom, top, rear exit and push-to-start model available
- Standard Square Drive or extended Ergo Drive output available on all models
- Programmable Multi-Function Button: One single button facilitates several distinctly different tasks



## 2000 Series Pistol Tools

Model	Max Torque		Torque Range		Free Speed Rpm	Weight (-) Socket		Output Sq Dr	(A)		(B)		(C)		(D)	
	Nm	Ft-Lb	Nm	Ft-Lb		Lb	Kg		In	Mm	In	Mm	In	Mm	In	Mm
AEP4(A)(R)(T)22020B(V)	20	14	5 - 20	3.7 - 14	1,837	2.4	1.09	3/8"	A = 7.82 R = 10.65 T = 9.71	198.7 270.6 246.5	0.38 9.7	A = 6.94 R = 6.01 T = 6.01	176.2 152.6 152.6	1.96	49.7	
AEP4(A)(R)(T)22025B(V)	25	18	6.3 - 25	4.6 - 18	1,452	2.4	1.09	3/8"	A = 7.82 R = 10.65 T = 9.71	198.7 270.6 246.5	0.38 9.7	A = 6.94 R = 6.01 T = 6.01	176.2 152.6 152.6	1.96	49.7	
AEP4(A)(R)(T)22030B(V)	30	22	7.5 - 30	5.5 - 22	1,176	2.4	1.09	3/8"	A = 7.82 R = 10.65 T = 9.71	198.7 270.6 246.5	0.38 9.7	A = 6.94 R = 6.01 T = 6.01	176.2 152.6 152.6	1.96	49.7	
AEP4(A)(R)(T)22035B(V)	35	25	8.8 - 35	6.5 - 25	1,045	2.4	1.09	3/8"	A = 7.82 R = 10.65 T = 9.71	198.7 270.6 246.5	0.38 9.7	A = 6.94 R = 6.01 T = 6.01	176.2 152.6 152.6	1.96	49.7	
AEP4(A)(R)(T)22040B(V)	40	29	10 - 40	7.4 - 29	919	2.4	1.09	3/8"	A = 7.82 R = 10.65 T = 9.71	198.7 270.6 246.5	0.38 9.7	A = 6.94 R = 6.01 T = 6.01	176.2 152.6 152.6	1.96	49.7	

\*Ergo logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

## 2000 Series Angle and Inline Tools

### Gen IV Series Angle and Inline Nutrunners

Smart, Rugged, and Cost-Effective: The New Leader in Accurate Fastening



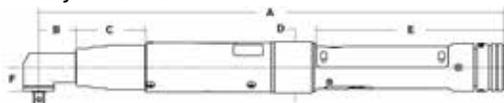
#### FEATURES AND BENEFITS

- New robust design is lighter, slimmer, and more ergonomic than previous Gen III nutrunners
- One of the lowest total cost of ownership in the industry
- Ergonomic updated trigger design integrates trigger to tool body, requiring a shorter activation stroke
- Indexable head optimizes trigger position
- Smooth-grip handle
- Short length means easier tool positioning
- Backward compatible with all Gen III and Gen IV AcraDyne controllers

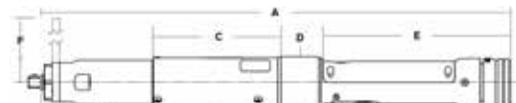
### 2000 Series Angle & Inline Tools

Model	Torque Range		Free Speed RPM	Weight (-) Socket		Output SQ DR	(A)		(B)		(C)		(D)		(E)		(F)		
	NM	FT-LB		LB	KG		MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	
Angle Tools		(V)= Extended Ergo-Drive Output			(DL)= Dual Lever														
AEN4C22014C	3.5 - 14	2.6 - 10.3	2,450	2.7	1.2	3/8	397	15.6	32	1.3	59.4	2.3	43.3	1.7	160	6.3	20.9	0.8	
AEN4C22024C	6 - 24	4.4 - 17.7	1,225	2.7	1.2	3/8	397	15.6	32	1.3	59.4	2.3	43.3	1.7	160	6.3	20.9	0.8	
AEN4F22029C	7.3 - 29	5.4 - 21.4	1,102	3.2	1.5	3/8	419	16.5	33.4	1.3	79.8	3.1	43.3	1.7	160	6.3	29.4	1.16	
AEN4F22036C	9 - 36	6.6 - 26.6	871	3.2	1.5	3/8	419	16.5	33.4	1.3	79.8	3.1	43.3	1.7	160	6.3	29.4	1.16	
AEN4F22043C(VDL)	10.8 - 43	8 - 31.7	705	3.2	1.5	3/8	419	16.5	33.4	1.3	79.8	3.1	43.3	1.7	160	6.3	29.4	1.16	
AEN4F22055C(V)	13.8 - 55	10.2 - 40.6	551	3.2	1.5	3/8	419	16.5	33.4	1.3	79.8	3.1	43.3	1.7	160	6.3	29.4	1.16	
Inline Tools (Includes Reaction Bar and Fixture Nut)																			
AES4A22020CV	5 - 20	3.7 - 14.8	1,837	2.8	1.3	3/8	401	15.8	95.9	3.8	109.5	4.3	43.3	1.7	160	6.3	381	15	
AES4A22025CV	6.3 - 25	4.6 - 18.4	1,452	2.8	1.3	3/8	401	15.8	95.9	3.8	109.5	4.3	43.3	1.7	160	6.3	381	15	
AES4A22030CV	7.5 - 30	5.5 - 22.1	1,176	2.8	1.3	3/8	401	15.8	95.9	3.8	109.5	4.3	43.3	1.7	160	6.3	381	15	
AES4A22035CV	8.8 - 35	6.5 - 25.8	1,045	2.8	1.3	3/8	401	15.8	95.9	3.8	109.5	4.3	43.3	1.7	160	6.3	381	15	
AES4A22040CV	10 - 40	7.4 - 29.5	919	2.8	1.3	3/8	401	15.8	95.9	3.8	109.5	4.3	43.3	1.7	160	6.3	381	15	

Angle Tool Dimensions

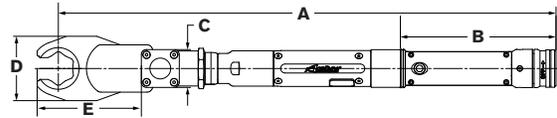


Inline Tool Dimensions



## 2000 Series Tubenut Tools

- Durable tubenut head design
- Simple, one-touch back to open operation for maximum productivity
- Innovative Sensor Technology: Transducer senses resistance in the initial 90 degrees of rotation and returns to open upon resistance encountered



### 2000 Series Tubenut Tools

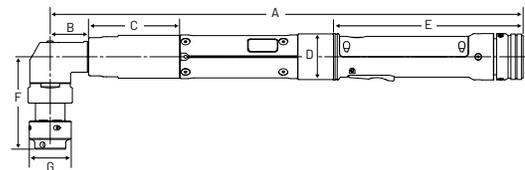
1000 Series	Torque Range		Free Speed RPM	Weight (-) Socket		Output Drive		A		B		C		D		E	
	NM	FT-LB		LB	KG	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
Tubenut	Wide variety of socket sizes available		(DL) = Dual Lever														
AET4AA22016C(DL)	4 - 16	3 - 11.8	1,828	4.1	1.86	1/4 - 7/16	7 - 12	19.1	484.3	6.5	164.4	1.6	40	1.5	37	2.2	56
AET4AB22021C(DL)	5.3 - 21	4 - 15.5	1,371	5.0	2.27	3/8 - 5/8	10 - 17	19.6	498.7	6.5	164.4	1.6	40	1.6	40	2.9	74
AET4AC22028C(DL)	7 - 28	5 - 20.7	1,020	5.5	2.49	1/2 - 7/8	13 - 24	20	508.4	6.5	164.4	1.6	40	2.2	56	3.5	88
AET4AD22038CDL	9.5 - 38	7 - 28	756	6.6	2.99	5/8 - 1-3/16	17 - 32	20.7	525.9	6.5	164.4	1.6	40	2.7	68	4.3	110

## 2000 Series Hold and Drive Tools

Hold-and-drive tools deliver accurate, repeatable torque by securely holding the fastener in place during tightening.

- Eliminates unwanted rotation and spin-out – no slipping, no misalignment, no rework
- 1" & 2" travel models available
- Sockets and holders are custom

1" Travel (C-1) Model



### 2000 Series Hold and Drive Tools

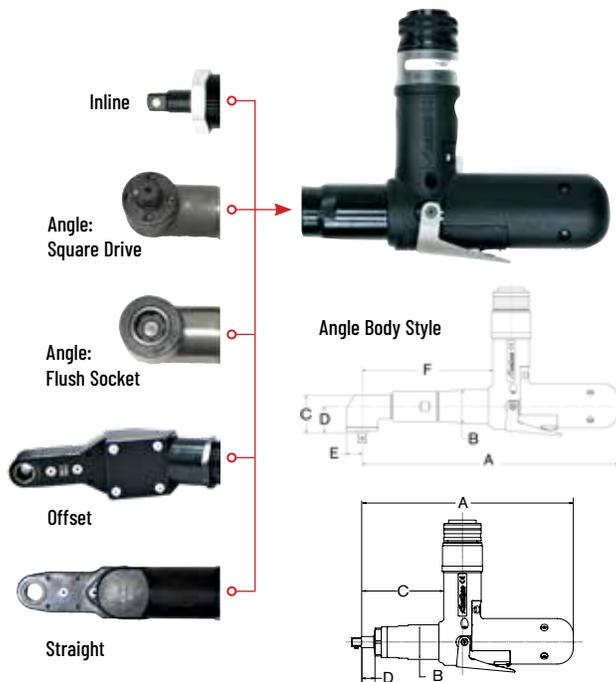
Model	Max Torque		Torque Range		Free Speed RPM	Weight (LB)	Min Socket Max Socket	(A) IN MM	(B) IN MM	(C) IN MM	(D) IN MM	(E) IN MM	(F)		(G) IN MM						
	NM	FT-LB	NM	FT-LB									IN	MM							
AEH4F22036C(-1)	36	27	7 - 36	5 - 27	871	-1 = 1.5 kg / 3.4 lb	9/16 (14 mm) 13/16 (21 mm)	16.2	412	1.3	33.4	3.2	80	1.6	40	6.5	165	-1 = 3.2	80.6	1.4	36.5
AEH4F22043C(-1)(-2)	43	32	9 - 43	7 - 32	705	-1 = 1.5 kg / 3.4 lb -2 = 1.7 kg / 3.7 lb	9/16 (14 mm) 13/16 (21 mm)	16.2	412	1.3	33.4	3.2	80	1.6	40	6.5	165	-1 = 3.2 -2 = 4.2	-1 = 80.6 -2 = 106	1.4	36.5
AEH4F22055C(-1)	55	41	11 - 55	8 - 41	551	-1 = 1.5 kg / 3.4 lb	9/16 (14 mm) 13/16 (21 mm)	16.2	412	1.3	33.4	3.2	80	1.6	40	6.5	165	-1 = 3.2	80.6	1.4	36.5

Hold & Drive (-1) = 1" Travel (-2) = 2" Travel

## 2000 Series Mid-Exit Tools

### FEATURES AND BENEFITS

- Length
  - Reduced tool length due to cable exiting in front of grip surface
- Ergonomics
  - Reduced torque reaction compared to pistol-style tools
  - The inline handle, coupled with the ergonomic hand positioning, allows for increased leverage and decreased strain on the wrist
- Cable management
  - If used with a spring balancer, the tool hangs naturally near its center of gravity, the cable is controlled by the balancer
  - Front positioning of cable provides for easy cable management



Inline, Straight, and Offset Body Style

### 2000 Series Mid-Exit Cable Tools

Model	Max Torque		Torque Range		Free Speed RPM	Weight (-)Socket		Output SQ. DR.	A		B		C		D		E		F	
	NM	FT-LB	NM	FT-LB		LB	KG		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
Mid-Exit Models: Angle Body Style    Add "F" to Part Numbers for Flush Socket																				
AEN4C22015BM(F)	15	11	3.75 - 15	2.77 - 11	700	2.6	1.18	3/8"	9.02	229.1	1.47	37.3	1.29	32.8	.82	20.9	.52	13.1	3.51	89.3
AEN4F22030BM(F)	30	22	7.5 - 30	5.53 - 22	675	3.3	1.50	3/8"	11.24	285.6	1.47	37.3	1.66	42.1	1.17	29.7	.70	17.8	5.73	145.6
AEN4F22037BM(F)	37	29	9.25 - 37	6.82 - 29	533	3.3	1.50	3/8"	11.24	285.6	1.47	37.3	1.66	42.1	1.17	29.7	.70	17.8	5.73	145.6
AEN4F22044BM(F)	44	32	11 - 40	8.11 - 29	432	3.3	1.50	3/8"	11.24	285.6	1.47	37.3	1.66	42.1	1.17	29.7	.70	17.8	5.73	145.6
Mid-Exit Models: Inline, Straight, and Offset Body Style																				
AES4A22020BVM	20	15	5 - 20	3.7 - 15	1050	2.4	1.09	3/8"	9.0	228.5	1.47	37.3	3.49	88.6	.56	14.2	—	—	—	—
AES4A22025BVM	25	18	6.3 - 25	4.6 - 18	830	2.4	1.09	3/8"	9.0	228.5	1.47	37.3	3.49	88.6	.56	14.2	—	—	—	—
AES4A22030BVM	30	22	7.5 - 30	5.5 - 22	672	2.4	1.09	3/8"	9.0	228.5	1.47	37.3	3.49	88.6	.56	14.2	—	—	—	—
AES4A22040BVM	40	30	10 - 40	7.4 - 30	525	2.4	1.09	3/8"	9.0	228.5	1.47	37.3	3.49	88.6	.56	14.2	—	—	—	—

# AcraDrive Discontinuous Drive Tools

**ONE TOOL**  
**TWO WAYS TO DRIVE**  
**THREE TIGHTENING STRATEGIES**  
**MULTIPLE HANDLE CONFIGURATIONS**

Providing amazing flexibility in one tool, the AcraDyne Discontinuous Drive Nutrunner adds choice, speed, accuracy, and virtually reaction-free tightening to the user-friendly GEN IV Ecosystem



## TIGHTENING STRATEGIES

- Continuous Mode
  - Tool can be programmed to run in Continuous Mode like traditional DC nutrunners (within ergonomically acceptable limits)
- Discontinuous Mode
  - Virtually reaction-free performance with great accuracy and controllability
- Continuous Mode & Discontinuous Mode
  - Unique capability in a single tool delivers torque to the fastener in both Continuous and Discontinuous modes when programmed in a multistage parameter

## DISCONTINUOUS DRIVE ADVANTAGES

- High torque accuracy
- High tool speeds
- Minimal torque reaction
- Low vibration & noise
- One-handed operation
- Durable motor and gearing for long lifespan between preventative maintenance





Offering the greatest flexibility in one tool. The AcraDrive Discontinuous nutrunner offers three modes that are programmable in the Gen IV Controller. The ability to operate in Continuous Mode, Discontinuous Mode, or Continuous & Discontinuous Mode with one tool means ultimate cost savings with multiple features. No more need to sacrifice ergonomics for reduced cost of ownership, or forfeit high tool speeds in order to achieve traceable data.

**FEATURES AND BENEFITS**

**Safe & Ergonomic Operation**

- Optimal balance for less operator fatigue
- Minimal torque reaction properties in Discontinuous mode
- Proprietary motor control algorithm for optimizing to application demands
- Multiple handle configurations allow for greater access to the application

**Low Maintenance**

- Precision gearing tested to greater than 500,000 cycle reliability
- Sealed brushless optimized motors with zero maintenance requirements

**Flexibility & Cost Savings**

- Connects to the industry’s most intuitive control platform – AcraDyne’s iEC Gen IV Controller
- One tool capable of Continuous and Discontinuous drive means that one tool can cover more applications
- No software add-ons required and no-cost updates available at [www.aimco-global.com](http://www.aimco-global.com)



Pistol Model, Bottom Exit



Inverted Pistol Model

**Speed & Accuracy**

- Combines fast tool speeds with Discontinuous drive and advanced data tracing
- Torque is measured by an industry standard Strain Gauge traceable transducer

**2000 Series Discontinuous Drive Tools**

Model	Torque Range		Max Speed RPM	Joints		Length		Weight		Output Sq. Drive
	NM	FT-LB		Hard	Medium	IN	MM	LB	KG	
Pistol Tools P = Pistol Tools with Bottom Exit PR = Pistol Tools with Rear Exit U = Inverted Pistol Tool										
AEP4(P PR)22030AV	18 - 30	13.3 - 22	1,579	20 - 80°	80 - 150°	P = 10.7 PR = 14.7	P = 271 PR = 373	4.05	1.84	3/8"
AEP4P22030AVU	18 - 30	13.3 - 22	1,579	20 - 80°	80 - 150°	10.7	271	4.05	1.84	3/8"
AEP4(P PR)22050AV	28 - 50	20.7 - 37	1,579	20 - 80°	80 - 150°	P = 10.8 PR = 14.8	P = 274 PR = 376	4.05	1.84	1/2"
AEP4P22050AVU	28 - 50	20.7 - 37	1,579	20 - 80°	80 - 150°	10.8	274	4.05	1.84	1/2"



# 3000 SERIES

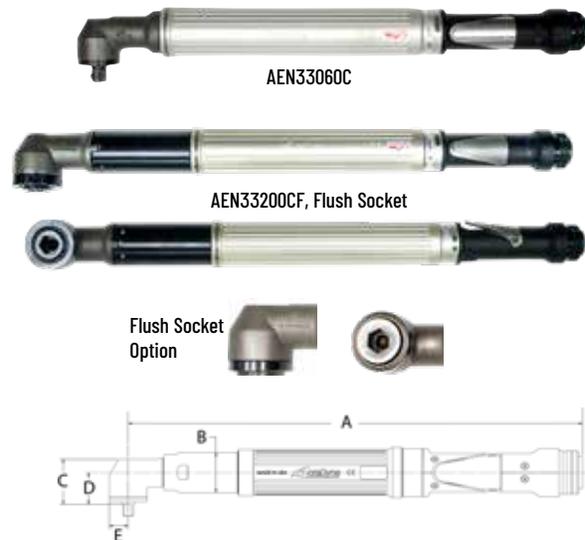
10 – 600 Nm

- Superior size, speed, and duty cycle compared to competitors' tools
- Aluminum gear and motor housing
- Onboard lights and audible signal for operator feedback



## 3000 Series Angle Tools

- Provides the perfect solution for space-limited applications
- Compact, durable head houses a precision right-angle gearset that fits into the tightest spaces
- Integrated transducer for accurate delivery or monitoring of Torque and Angle
- Lightweight materials and uniform body diameter provide a comfortable grip
- Ergonomically placed start lever for ease of operation
- Available in regular or flush socket options
- Dual-Lever available on 60 – 375 Nm models

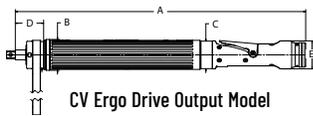


## 3000 Series Angle Tools

Model	Max Torque		Torque Range		Free Speed RPM	Weight (-) Socket		Output SQ. DR	(A)		(B)		(C)		(D)		(E)	
	NM	FT-LB	NM	FT-LB		LB	KG		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
3000 Series Add "F" to Part Numbers for Flush Socket DL = Dual Lever (V) = Extended Ergo-Drive Output W = Wobble Output Spindle																		
AEN33060C(F)(DL)(V)	60	44	12 - 60	9 - 44	845	6.6	2.99	1/2.	19.14	486.14	1.85	47	1.91	48.36	1.38	35.2	.83	21
AEN33090C(F)(DL)(V)(W)	90	66	18 - 90	13 - 66	568	6.6	2.99	1/2.	19.14	486.14	1.85	47	1.91	48.36	1.38	35.2	.83	21
AEN33120C(F)(DL)	120	89	24 - 120	18 - 88	442	9.3	4.22	1/2	21.22	539	1.85	47	2.78	71	2.08	53	1.05	27
AEN33200C(F)(DL)	200	148	40 - 200	29 - 147	245	9.4	4.26	3/4	23.43	595	1.85	47	2.54	65	1.84	47	1.05	27
AEN33210C(DL)	210	155	50 - 210	37 - 155	234	10.0	4.54	3/4	23.8	604.5	1.85	47	2.97	75	2.04	52	1.25	32
AEN33300C(DL)	300	221	60 - 300	42 - 221	151	10.0	4.54	3/4	23.72	602	1.85	47	2.97	75	2.04	52	1.25	32
AEN33375C(DL)	375	277	75 - 375	55 - 276	151	10.0	4.54	3/4	23.72	602	1.85	47	2.97	75	2.04	52	1.25	32

### 3000 Series Inline Tools

- Compact and durable, AcraDyne 3000 Series inline nutrunners are the ideal choice for fixtured fastening applications
- A uniform body diameter and a hex-shaped mounting point allow for simple installation into fixtured plates
- User modifiable reaction bar included with in-line tools for use in handheld applications
- Standard Square Drive or extended Ergo Drive output available on all models



### 3000 Series Inline Tools

Model	Max Torque		Torque Range		Free Speed RPM	Weight (-) Socket		Output SQ. DR	(A)		(B)		(C)		(D)		(E)	
	NM	FT-LB	NM	FT-LB		LB	KG		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
3000 Series (V) = Extended Ergo-Drive Output -2 = 2" sliding spindle																		
AES33040C(V)(-2)	40	30	8 - 40	5.9 - 30	1,314	6.4	2.90	1/2"	V = 18.46 -2 = 23.89	469 606.8	1.96	49.8	V = 1.75 -2 = 1.85	44.5 47	V = 1.8 -2 = 4.3	45.7 109.5	1.78	45.2
AES33060C(V)(-2)	60	44	12 - 60	8.9 - 44	883	6.4	2.90	1/2"	V = 18.46 -2 = 23.89	469 606.8	1.96	49.8	V = 1.75 -2 = 1.85	44.5 47	V = 1.8 -2 = 4.3	45.7 109.5	1.78	45.2
AES33100C(V)(-2)	100	74	20 - 100	15 - 74	489	8.1	3.67	1/2"	V = 22.78 -2 = 27.71	578.6 703.8	1.96	49.8	V = 1.75 -2 = 1.85	44.5 47	V = 6.11 -2 = 3.96	155.3 100.5	1.78	45.2
AES33150C(V)(-2)	150	111	30 - 150	22 - 111	329	8.1	3.67	1/2"	V = 22.78 -2 = 27.71	578.6 703.8	1.96	49.8	V = 1.75 -2 = 1.85	44.5 47	V = 6.11 -2 = 3.96	155.3 100.5	1.78	45.2
AES33230C(V)(-2)	185	137	46 - 185	34 - 137	221	8.1	3.67	1/2"	V = 22.78 -2 = 27.71	578.6 703.8	1.96	49.8	V = 1.75 -2 = 1.85	44.5 47	V = 6.11 -2 = 3.96	155.3 100.5	1.78	45.2
AES33400C	400	295	80 - 400	59 - 295	122	13.0*	5.90*	3/4"			2.64	67.1	1.85	47	1.19	30.12	1.78	45.2
AES33600C	600	443	120 - 600	89 - 443	82	13.0*	5.90*	3/4"			2.64	67.1	1.85	47	1.19	30.12	1.78	45.2

\* Includes reaction bar and fixture nut

### 3000 Series Hold and Drive Tools

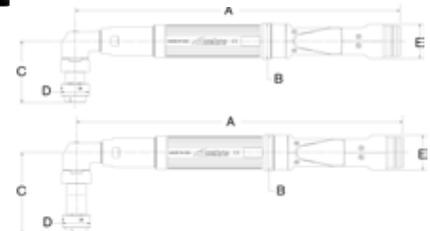
Hold-and-drive tools deliver accurate, repeatable torque by securely holding the fastener in place during tightening.

- Eliminates unwanted rotation and spin-out – no slipping, no misalignment, no rework
- 1" & 2" travel models available
- Sockets and holders are custom



1" Travel (C-1) Model

2" Travel (C-2) Model



### 3000 Series Hold and Drive Tools

Model*	Max Torque		Torque Range		Free Speed RPM	Weight (LB)	Min Socket Max Socket	(A)		(B)		(C)		(D)		(E)	
	NM	FT-LB	NM	FT-LB				IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
Hold & Drive (-1) = 1" Travel (-2) = 2" Travel																	
AEH33060C(-1)(-2)	60	44	12 - 60	9 - 44	845	-1 = 7.3 -2 = 7.5	9/16 (14 mm) 1-1/4 (32 mm)	19.1	485.1	1.85	47	-1 = 3.36 -2 = 4.37	85.3 111.1	1.88	47.6	1.78	45.2
AEH33090C(-1)(-2)	90	66	18 - 90	13 - 66	568	-1 = 7.3 -2 = 7.6	9/16 (14 mm) 1-1/4 (32 mm)	16.79	426.5	1.85	47	-1 = 3.36 -2 = 4.37	85.3 111.1	1.88	47.6	1.78	45.2
AEH33120C(-1)(-2)	120	89	24 - 120	18 - 89	442	-1 = 10.0 -2 = 10.3	5/8 (15 mm) 1-1/4 (32 mm)	21.22	539.1	1.85	47	-1 = 4.09 -2 = 5.09	103.8 129.2	2.25	57.2	1.78	45.2

\* E logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

# 5000 SERIES

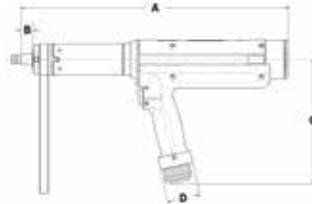
## 20 – 635 Nm

- Superior size, speed, and duty cycle compared to competitors' tools
- High duty cycle
- Durable Nylon motor and handle housing
- Onboard lights and audible signal for operator feedback

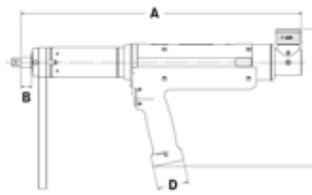


### 5000 Series Pistol Tools

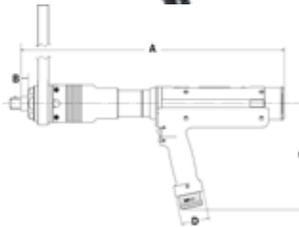
- Bottom and top exit models, as well as push-to start models available
- Ergo drive available on 75 – 170 Nm models
- Programmable Multi-Function Button: One single button facilitates several distinctly different tasks



Extended Ergo Drive  
Bottom Exit (AV) Model



Extended Ergo Drive  
Top Exit (AVT) Model



Standard Square Drive  
Bottom Exit (A) Model

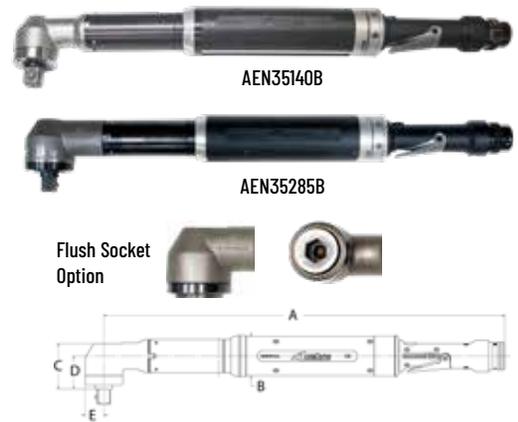
### 5000 Series Pistol Tools

Model	Max Torque		Torque Range		Free Speed RPM	Weight (-) Socket		Output SQ DR	(A)		(B)		(C)		(D)	
	NM	FT-LB	NM	FT-LB		LB	KG		IN	MM	IN	MM	IN	MM	IN	MM
5000 Series	V = Extended Ergo-Drive Output    T = Top Exit Models															
AEP35075AV(T)	75	55	19 - 75	14 - 55	944	9.2	4.17	1/2	AV = 15.95 AVT = 16.83	405.2 427.4	.68	17.4	AV = 7.44 AVT = 8.63	188.9 219	1.96	49.7
AEP35090AV(T)	90	66	23 - 90	17 - 66	767	9.2	4.17	1/2	AV = 15.95 AVT = 16.83	405.2 427.4	.68	17.4	AV = 7.44 AVT = 8.63	188.9 219	1.96	49.7
AEP35110AV(T)	110	81	28 - 110	21 - 81	634	9.2	4.17	1/2	AV = 15.95 AVT = 16.83	405.2 427.4	.68	17.4	AV = 7.44 AVT = 8.63	188.9 219	1.96	49.7
AEP35135AV(T)	135	99	34 - 135	25 - 99	515	9.2	4.17	1/2	AV = 15.95 AVT = 16.83	405.2 427.4	.68	17.4	AV = 7.44 AVT = 8.63	188.9 219	1.96	49.7
AEP35170AV(T)	170	125	43 - 170	32 - 125	418	9.2	4.17	1/2	AV = 15.95 AVT = 16.83	405.2 427.4	.68	17.4	AV = 7.44 AVT = 8.63	188.9 219	1.96	49.7
AEP35280A(T)	280	206	70 - 280	52 - 207	236	13.6	6.17	3/4	A = 18.51 AT = 19.41	470.3 493.1	.52	13.1	A = 7.44 AT = 8.59	188.9 217.9	1.96	49.7
AEP35350A(T)	350	258	88 - 350	65 - 258	192	13.6	6.17	3/4	A = 18.51 AT = 19.41	470.3 493.1	.52	13.1	A = 7.44 AT = 8.59	188.9 217.9	1.96	49.7
AEP35420A(T)	420	310	105 - 420	78 - 310	159	13.6	6.17	3/4	A = 18.51 AT = 19.41	470.3 493.1	.52	13.1	A = 7.44 AT = 8.59	188.9 217.9	1.96	49.7
AEP35515A(T)	515	380	128 - 515	95 - 380	129	13.6	6.17	3/4	A = 18.51 AT = 19.41	470.3 493.1	.52	13.1	A = 7.44 AT = 8.59	188.9 217.9	1.96	49.7
AEP35635A(T)(R)	635	468	159 - 635	117 - 469	104	13.6	6.17	3/4	A = 18.51 AT = 19.41	470.3 493.1	.52	13.1	A = 7.44 AT = 8.59	188.9 217.9	1.96	49.7

\* E logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

### 5000 Series Angle Tools

- Provides the perfect solution for space-limited applications. Compact, durable head houses a precision right-angle gearset that fits into the tightest spaces
- Integrated transducer for accurate delivery or monitoring of Torque and Angle
- Lightweight materials and uniform body diameter provide a comfortable grip
- Ergonomically placed start lever for ease of operation
- Available in regular or flush socket options



#### 5000 Series Angle Tools

Model	Max Torque		Torque Range		Free Speed RPM	Weight (-) Socket		Output SQ. DR	(A)		(B)		(C)		(D)		(E) B models only		
	NM	FT-LB	NM	FT-LB		LB	KG		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	
5000 Series	Add "F" to Part Numbers for Flush Socket																		
AEN35090B(F)	90	66	23 - 90	17 - 66	607	6.9	3.13	1/2	22.63	574.8	2.31	58.7	1.91	48.6	1.38	35.2	.81	20.6	
AEN35140B(F)	140	103	35 - 140	26 - 103	472	10.4	4.72	3/4	22.56	573	2.31	58.7	2.54	64.6	1.84	46.8	1.05	26.7	
AEN35175B(F)	175	129	44 - 175	33 - 129	384	10.5	4.76	3/4	22.56	573	2.31	58.7	2.54	64.6	1.84	46.8	1.05	26.7	
AEN35210BF	210	155	52 - 210	38 - 155	317	12.3	5.58	3/4	22.56	573	2.31	58.7	2.4	61	1.7	43.2	-	-	
AEN35225B(F)	225	166	56 - 225	41 - 166	291	12.3	5.58	3/4	22.92	582.2	2.31	58.7	2.86	72.6	1.94	49.1	1.25	31.8	
AEN35285B(F)	285	210	71 - 285	52 - 210	236	12.3	5.58	3/4	22.92	582.2	2.31	58.7	2.86	72.6	1.94	49.1	1.25	31.8	
AEN35350B(F)	350	258	88 - 350	65 - 258	191	12.3	5.58	3/4	22.92	582.2	2.31	58.7	2.86	72.6	1.94	49.1	1.25	31.8	

### 5000 Series Inline Tools

- Compact and durable, AcraDyne 5000 Series inline nutrunners are the ideal choice for fixtured fastening applications
- A uniform body diameter and a hex-shaped mounting point allow for simple installation into fixtured plates
- User modifiable reaction bar included with in-line tools for use in handheld applications
- Standard Square Drive or extended Ergo Drive output available on all models



#### 5000 Series Inline Tools

Model	Max Torque		Torque Range		Free Speed RPM	Weight (-)Socket		Output Sq. Dr	(A)		(B)		(C)		(D)		(E)		
	NM	FT-LB	NM	FT-LB		LB	KG		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	
5000 Series	V = Extended Ergo-Drive Output																		
AES35075AV	75	55	19 - 75	14 - 55	944	9.2	4.17	1/2	21.9	556.3	1.85	47	2.31	58.7	.68	17.4	1.78	45.2	
AES35090AV	90	66	23 - 90	17 - 66	767	9.2	4.17	1/2	21.9	556.3	1.85	47	2.31	58.7	.68	17.4	1.78	45.2	
AES35110AV	110	81	28 - 110	21 - 81	634	9.2	4.17	1/2	21.9	556.3	1.85	47	2.31	58.7	.68	17.4	1.78	45.2	
AES35135AV	135	100	34 - 135	25 - 100	515	9.2	4.17	1/2	21.9	556.3	1.85	47	2.31	58.7	.68	17.4	1.78	45.2	
AES35170AV	170	126	43 - 170	32 - 126	418	9.2	4.17	1/2	21.9	556.3	1.85	47	2.31	58.7	.68	17.4	1.78	45.2	
AES35280A	280	207	70 - 280	52 - 207	236	12.8	5.81	3/4	24.33	618.2	2.31	58.7	2.64	67.1	.52	13.1	1.78	45.2	
AES35350A	350	258	88 - 350	65 - 258	192	12.8	5.81	3/4	24.33	618.2	2.31	58.7	2.64	67.1	.52	13.1	1.78	45.2	
AES35420A	420	310	105 - 420	78 - 310	159	12.8	5.81	3/4	24.33	618.2	2.31	58.7	2.64	67.1	.52	13.1	1.78	45.2	
AES35515A	515	380	128 - 515	95 - 380	129	12.8	5.81	3/4	24.33	618.2	2.31	58.7	2.64	67.1	.52	13.1	1.78	45.2	
AES35635A	635	469	159 - 635	117 - 469	104	12.8	5.81	3/4	24.33	618.2	2.31	58.7	2.64	67.1	.52	13.1	1.78	45.2	

\*E logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

## 5000 Series Fixtured Tools

- Rear & bottom exit available
- Standard Square Drive, Extended Ergo Drive, or 1/4" Quick Change outputs available in most models
- Models available with 1/2" fixed sq. dr., 3/4" fixed sq. dr., and 2" sliding spindle



AEF35135AV  
Extended Ergo Drive, Rear Exit Model



AEF35350A  
Standard Spindle, Rear Exit Model



AEF35135AVB  
Extended Ergo Drive, Bottom Exit Model

### 5000 Series Fixtured Tools

Model	Max Torque		Torque Range		Free Speed RPM	Weight (-) Socket		Output SO. DR.
	NM	FT-LB	NM	FT-LB		LB	KG	
<b>5000 Series</b>								
(V) = Extended Ergo Drive Output (VB) = Extended Output with Bottom Exit Cable (B) = Bottom Exit Cable (-2) = 2" Sliding Spindle with Rear Exit Cable (B-2) = 2" Sliding Spindle with Bottom Exit Cable								
AEF35075A(V)(VB)(-2)(B-2)	75	55	19 - 75	14 - 55	944	9.6	4.35	1/2"
AEF35090A(V)(VB)(-2)(B-2)	90	66	23 - 90	17 - 66	767	9.6	4.35	1/2"
AEF35110A(V)(VB)(-2)(B-2)	110	81	28 - 110	21 - 81	634	9.6	4.35	1/2"
AEF35135A(V)(VB)(-2)(B-2)	135	100	34 - 135	25 - 100	515	9.6	4.35	1/2"
AEF35170A(V)(VB)	170	125	43 - 170	32 - 125	418	9.6	4.35	1/2"
AEF35170A(-2)(B-2)	170	125	43 - 170	32 - 125	418	9.6	4.35	3/4"
AEF35280A*	280	207	70 - 280	52 - 207	236	13.6	6.17	3/4"
AEF35350A*	350	258	88 - 350	65 - 258	192	13.6	6.17	3/4"
AEF35420A*	420	310	105 - 420	77 - 310	159	13.6	6.17	3/4"
AEF35515A*	515	380	128 - 515	95 - 380	129	13.6	6.17	3/4"
AEF35635A*	635	469	159 - 635	117 - 469	104	13.6	6.17	3/4"

\* Item 28843 is a panel mount 2" sliding spindle for 280 - 635 Nm models.



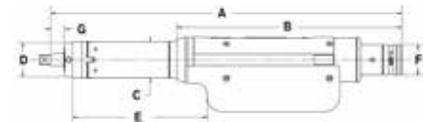
AEF35135A-2  
2" Sliding Spindle, Rear Exit Model



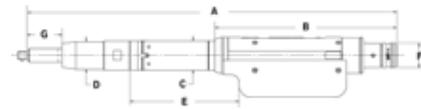
AEF35135AB-2  
2" Sliding Spindle, Bottom Exit Model

### 5000 Series Fixtured Tool Dimensions

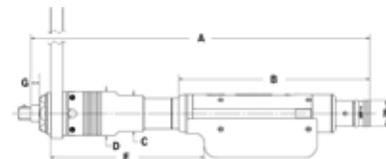
MODEL	(A)		(B)		(C)		(D)		(E)		(F)		(G)	
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
<b>Standard Spindle Models</b>														
AEF35280A	20.5	520	11.6	293	2.1	54	2.6	67	9.3	236	1.6	40	.5	13
AEF35350A	20.5	520	11.6	293	2.1	54	2.6	67	9.3	236	1.6	40	.5	13
AEF35420A	20.5	520	11.6	293	2.1	54	2.6	67	9.3	236	1.6	40	.5	13
AEF35515A	20.5	520	11.6	293	2.1	54	2.6	67	9.3	236	1.6	40	.5	13
AEF35635A	20.5	520	11.6	293	2.1	54	2.6	67	9.3	236	1.6	40	.5	13
<b>Extended Ergo Drive Output Models</b>														
AEF35075AV	18	458	11.6	293	1.9	47	1.8	44	6.9	176	1.6	40	.7	18
AEF35090AV	18	458	11.6	293	1.9	47	1.8	44	6.9	176	1.6	40	.7	18
AEF35110AV	18	458	11.6	293	1.9	47	1.8	44	6.9	176	1.6	40	.7	18
AEF35135AV	18	458	11.6	293	1.9	47	1.8	44	6.9	176	1.6	40	.7	18
AEF35170AV	18	458	11.6	293	1.9	47	1.8	44	6.9	176	1.6	40	.7	18
<b>2" Sliding Spindle with Rear Exit Cable Models</b>														
AEF35075A-2	23.5	596	11.6	293	1.9	47	1.8	44	6.9	176	1.6	40	2.2	57
AEF35090A-2	23.5	596	11.6	293	1.9	47	1.8	44	6.9	176	1.6	40	2.2	57
AEF35110A-2	23.5	596	11.6	293	1.9	47	1.8	44	6.9	176	1.6	40	2.2	57
AEF35135A-2	23.5	596	11.6	293	1.9	47	1.8	44	6.9	176	1.6	40	2.2	57
AEF35170A-2	23.5	596	11.6	293	1.9	47	1.8	44	6.9	176	1.6	40	2.2	57



Extended Ergo Drive Output (AV) Models



2" Sliding Spindle (A-2) Models



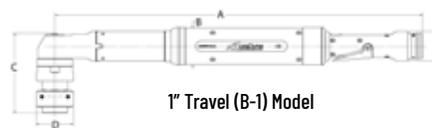
Standard Spindle (A) Models

\*E logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

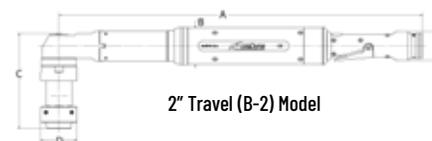
## 5000 Series Hold-and-Drive Tools

Hold-and-drive tools deliver accurate, repeatable torque by securely holding the fastener in place during tightening.

- Eliminates unwanted rotation and spin-out – no slipping, no misalignment, no rework
- 1" & 2" travel models available
- Sockets and holders are custom Torques ranging from 90 Nm – 350 Nm
- 1" and 2" travel models available
- Sockets and holders are custom



1" Travel (B-1) Model



2" Travel (B-2) Model

### 5000 Series Hold and Drive Tools

Model*	Max Torque		Torque Range		Free Speed RPM	Weight (LB)	Min Socket	Max Socket	(A)		(B)		(C)		(D)		(E)	
	NM	FT-LB	Nm	FT-LB					IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
Hold & Drive (-1) = 1" Travel (-2) = 2" Travel																		
AEH35090B(-1)(-2)	90	66	23 - 90	17 - 66	607	-1 = 7.6 -2 = 7.9	9/16 (14 mm) 1-1/4 (32 mm)	22.63	574.8	2.31	58.7	-1 = 4.02 -2 = 4.96	102.1 126	1.88	47.6	1.78	45.2	
AEH35140B(-1)(-2)	140	103	35 - 140	26 - 103	472	-1 = 10.6 -2 = 11.0	5/8 (15 mm) 1-1/4 (32 mm)	22.56	572.9	2.31	58.7	-1 = 4.87 -2 = 5.87	123.7 149.1	2.25	57.15	1.78	45.2	
AEH35175B(-1)(-2)	175	129	44 - 175	33 - 129	384	-1 = 10.6 -2 = 11.1	5/8 (15 mm) 1-1/4 (32 mm)	22.52	571.9	2.31	58.7	-1 = 4.87 -2 = 5.87	123.7 149.1	2.25	57.15	1.78	45.2	
AEH35225B(-1)(-2)	225	166	56 - 225	41 - 166	291	-1 = 12.9 -2 = 13.3	3/4 (19 mm) 1-1/4 (32 mm)	22.92	582.2	2.31	58.7	-1 = 5.52 -2 = 6.52	140.1 165.5	2.63	66.7	1.78	45.2	
AEH35285B(-1)(-2)	285	210	71 - 285	52 - 210	236	-1 = 12.9 -2 = 13.3	3/4 (19 mm) 1-1/4 (32 mm)	22.92	582.2	2.31	58.7	-1 = 5.52 -2 = 6.52	140.1 165.5	2.63	66.7	1.78	45.2	
AEH35350B(-1)(-2)	350	258	88 - 350	65 - 258	191	-1 = 12.9 -2 = 13.3	3/4 (19 mm) 1-1/4 (32 mm)	22.92	582.2	2.31	58.7	-1 = 5.52 -2 = 6.52	140.1 165.5	2.63	66.7	1.78	45.2	



# Tool Customization Accessories

## SPECIALTY GEARHEADS

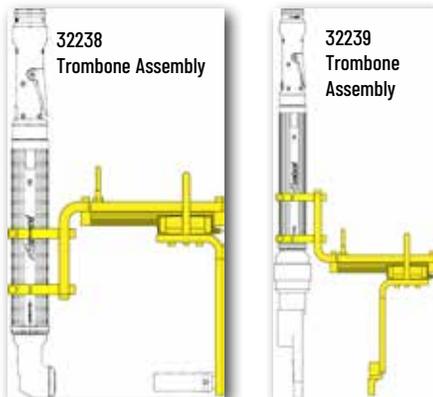
AIMCO can provide specialized heads for most any application. Tubenut, Hold and Drive, Crow Foot, Offsets, and Sliding Spindles are just a few of the head styles available. Whatever the requirements, AIMCO will recommend the head configuration that will get the job done successfully.

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



## CUSTOM TOOL HOLDERS

AIMCO works closely with customers to design the best customized fit for their application. Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368.



# AcraDyne Riv-Nut Tools

## AcraDyne Riv-Nut Tools

Offering the same size, speed, and duty cycle benefits of 1000 and 2000 series tools, AcraDyne's Riv-Nut tools have a simple, quick mandrel change design and are suitable for a wide range of material thicknesses – limited only by rivet nut size.

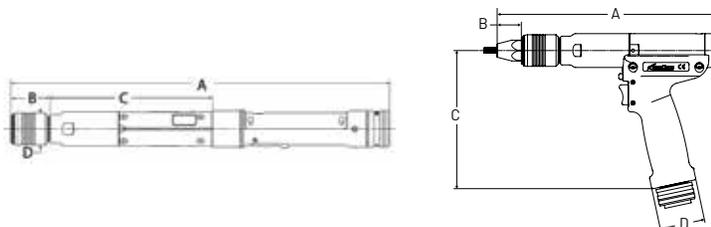
### FEATURES AND BENEFITS

- Pull-to-torque tool/controller system ensures accurate, repeatable, and measurable tightening every time
- 1000 & 2000 series tools available with bottom exit, rear exit, or top exit cable configurations. Fixtured, and Push-to-Start models are available by request. Contact AIMCO at 1-503-254-6600, or toll free 1-800-852-1368
- Low-friction coating on mandrel for extended life
- Precise control of rivet compression with Torque and Angle detection capability
- Data collection and networking capabilities to capture and utilize result data for QMS systems and line controls
- Multi-function button (MFB) provides increased flexibility
- On-board lights and audible signal for operator feedback
- Works with rivet sizes M4 – M10 or 8-32 – 3/8-16



### 1000 & 2000 Series Riv-Nut Tools

Model*	Torque Range		Free Speed RPM	Weight (-) Socket		Thread Size	Dimensions								
	NM	FT-LB		LB	KG		(A) IN	(A) MM	(B) IN	(B) MM	(C) IN	(C) MM	(D) IN	(D) MM	
<b>Pistol</b>															
1000 Series	4A Models = Bottom Exit		4R Models = Rear Exit		4T Models = Top Exit										
AEP4(A)(R)2006BR	1.5 - 6	1.1 - 4.4	2,625	2.2	1.00	M4 x 0.7 mm M5 x 0.8 mm	8-32 UNC 10-24 UNC	9.68	245.9	1.05	26.7	6.01	152.6	1.96	49.8
AEP4(A)(R)2014BR	3.5 - 14	2.6 - 10	1,037	2.3	1.04	M6 x 1.0 mm M8 x 1.25 mm	10-32 UNF 1/4-20 UNC	9.68	245.9	1.05	26.7	6.87	174.5	1.96	49.8
AEP4(A)(R)2022BR	5.5 - 22	4.1 - 16	656	2.3	1.04	M10 x 1.5 mm	5/16-18 UNC 3/8-16 UNC	9.68	245.9	1.05	26.7	6.87	174.5	1.96	49.8
2000 Series	4A Models = Bottom Exit		4R Models = Rear Exit		4T Models = Top Exit										
AEP4(A)(R)(T)22020BR	5 - 20	3.7 - 15	1,837	2.4	1.09	M4 x 0.7 mm M5 x 0.8 mm	8-32 UNC 10-24 UNC	10.18	258.6	1.05	26.7	6.87	174.5	1.96	49.8
AEP4(A)(R)(T)22030BR	7.5 - 30	5.5 - 22	1,176	2.4	1.09	M6 x 1.0 mm M8 x 1.25 mm	10-32 UNF 1/4-20 UNC	10.18	258.6	1.05	26.7	6.87	174.5	1.96	49.8
AEP4(A)(R)(T)22040BR	10 - 40	7.4 - 30	919	2.4	1.09	M10 x 1.5 mm	5/16-18 UNC 3/8-16 UNC	10.18	258.6	1.05	26.7	6.87	174.5	1.96	49.8
<b>Straight</b>															
2000 Series															
AES4A22020CR	5 - 20	3.7 - 14.8	1,837	2.8	1.3	M4 x 0.7 mm M5 x 0.8 mm	8-32 UNC 10-24 UNC	16.4	417.3	1.7	43.2	7.04	178.7	1.38	34.9
AES4A22040CR	10 - 40	7.4 - 29.5	919	2.8	1.3	M6 x 1.0 mm M8 x 1.25 mm	10-32 UNF 1/4-20 UNC	16.4	417.3	1.7	43.2	7.04	178.7	1.38	40.4



# AcraDyne High Torque DC Tools

Critical bolting demands tools that deliver high torque with superior performance. Couple with AcraDyne's Controller, the HT Series tools combine these features in an electric, high-torque bolting system that beats the competition in accuracy, speed, and safety.

## FEATURES AND BENEFITS

- Built-in integral transducer for optimal monitoring and control
- One of the most accurate high-torque tools in the world
- 250 Nm – 17,000 Nm torque range
- Ergonomic, robust design with five handle configurations that are also available in dual-lever models
- The world's most advanced traceable system at the output
- Three tightening strategies:
  - *Torque Control*: Drive the tool to a pre-set Target Torque
  - *Angle Control*: Drive the tool to or measure a pre-set Degree of Angle
  - *Yield Control*: Drive the tool to the Fastener Yield Point to achieve maximum clamp load
- Data retrieval
- Optional rugged carrying/storage case available
- Optional tool fan available in models 8,100 NM and above
- **MADE IN THE USA**



Pistol Type (AEP)



Axial Type (AEJ)



Straight Lever Type (AES)

## HT Fixed Gearcase Tools

Model	Approx. Torque		Approx. Speed	Weight		Total Length (incl sq. dr)		Dia.		Drive	Sound Level
	NM	FT-LB	RPM	KG	LB	MM	IN	MM	IN	IN	dB(A)
<b>HT Series Fixed Gearcase Models (R) = Pistol Tool with Rear Exit Cable (B) = Fixtured Model with Bottom Exit Cable</b>											
<b>6000 Series</b>											
AE (P)4A66250B(R) AE (D)(S)(J)(F)4A66250B	250	185	315	4.6	10.5	P = 289 P(R) = 331 D = 388 S = 440	11.4 13 15.3 17.3	66	2.6	0.75	66
AE (P)4A66425B(R) AE (D)(S)(J)4A66425B AE (F)4A66425B(B)	425	315	165	4.6	10.5						
AE (P)A66625B(R) AE (D)(S)(J)4A66625B AE (F)4A66625B(B)	625	460	106	4.8	10.5						
AE (P)4A66925B(R) AE (D)(S)(J)(F)4A66925B	925	682	72	4.8	10.5	J = 331 F = 331 F(B) = 353	13 13 13.9	66	2.6	0.75	66
<b>7000 Series</b>											
AE (F)4A76200BB	200	148	432	5.2	11.5	313	12.3	67.3	2.7	0.75	66
AE (P)(D)(S)(J)(F)4A771000B	1,000	738	65	6.6	14.5	P = 302 D = 397 S = 453 J = 343 F = 343	11.9 15.6 17.8 13.5 13.5	77.5	3.1	1	66
AE (P)(D)(S)(J)4A772500B AE (F)4A772500B(B)	2,500	1,844	25	7.5	16.5	P = 337 D = 433 S = 488 J = 379 F = 379	13.3 17.0 19.2 14.9 14.9	77.5	3.1	1	66
<b>8000 Series</b>											
AE (F)4A872800B	2,800	2,065	8.7	10.4	23	407	16	77.5	3.1	1	66
AE (P)(D)(J)(F)4A884200B1 AE (P)(D)(S)(J)(F)4A884200B	4,200	3,100	12	11.1	24.5	P = 384 D = 480 S = 546 J = 410 F = 410	15.1 18.9 21.5 16.1 16.1	91.2	3.6	B1 = 1 B = 1.5	66
AE (P)(D)(J)(F)4A885000B	5,000	3,700	9.3	11.1	24.5	P = 438 D = 533 S = 599 J = 463 F = 462	17.2 21 23.6 18.2 18.2			1.5	66
AE (P)(D)(S)(J)(F)4A898100B	8,100	6,000	5	15.7	34.5			103.8	4.1	1.5	66



Rear Mounted Pistol (AED)



Fixtured Type (AEF)

\* 8,100 Nm - 17,000 Nm models are not supported by the Gen III controller platform. The Gen IV controller platform is required.

# AcraDyne High Torque DC Tools

## 360° Swivel Gearcase Nutrunners

### FEATURES AND BENEFITS

- Same features and benefits of fixed gearcase models
- Ergonomic, robust design with two handle configurations



2,800 Nm Torque  
AEP4W872800B



8,100 Nm Torque  
AEJ4B898100B



8,100 Nm Torque  
AEP4B898100B

### HT 360° Swivel Gearcase Tools

Model	Approx. Torque NM	Approx. Torque FT-LB	Approx. Speed RPM	Weight KG	Weight LB	Length (incl sq. dr) MM	Length (incl sq. dr) IN	Dia. MM	Dia. IN	Drive IN	Sound Level dB(A)
<b>HT Series 360° Swivel Gearcase Models (R) = Pistol Tool with Rear Exit Cable</b>											
<b>6000 Series</b>											
AE (P) 4B66250B(R) AE (D)(J) 4B66250B	250	185	315	5.3	12	P = 327 12.9 P(R) = 368 14.5 D = 429 16.9 J = 369 14.5		67.3	2.7	0.75	66
AE (P) 4B66425B(R) AE (D)(J) 4B66425B	425	315	165	5.3	12					0.75	66
AE (P) 4B66625B(R) AE (D)(J) 4B66625B	625	460	106	5.5	12					0.75	66
AE (P) 4B66925B(R) AE (D)(J) 4B66925B	925	682	72	5.5	12					0.75	66
<b>7000 Series</b>											
AE (P)(J) 4B771000B	1,000	738	65	7.3	16	P = 339 13.4 J = 381 15	77.5	3.1	1	66	
AE (P)(J) 4B772500B	2,500	1,844	25	8.2	18	P = 377 14.8 J = 418 16.5					
<b>8000 Series</b>											
AE (P)(D)(J) 4B884200B1 AE (P)(D)(J) 4B884200B	4,200	3,100	12	11.8	26	P = 422 16.6 D = 518 20.4 J = 446 17.6	91.2	3.6	B1 = 1 B = 1.5	66	
AE (P)(J) 4B896500B	6,500	4,800	7	16.4	36	P = 475 18.7 J = 499 19.7	103.8	4.1	1.5	66	
AE (P)(D)(J) 4B898100B*	8,100	6,000	5	16.4	36	P = 475 18.7 D = 571 22.5 J = 499 19.7	103.8	4.1	1.5	66	
AE (P) 4B998100B*	8,100	6,000	5	21.8	48	532 20.9	112	4.4	1.5	66	
<b>Models for Extreme Duty / Low Power Environments</b>											
<b>Wind Series</b>											
AE (P)(J) 4W872800B	2,800	2,065	9	10.0	22	P = 406 16 J = 430 17	76	3.0	1	66	
AE (P)(D)(J) 4W885000B1* AE (P)(D)(J) 4W885000B*	5,000	3,700	4.5	11.8	26	P = 422 16.6 D = 518 20.4 J = 446 17.6	91.2	3.6	B1 = 1 B = 1.5	66	

\* 8,100 Nm - 17,000 Nm models are not supported by the Gen III controller platform. The Gen IV controller platform is required.

AIMCO can provide customized tooling solutions for even the most unique applications. Let us propose a solution tailored to your needs. Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368.

# AcraDyne High Torque DC Angle Tools



Application designs today present difficult to access bolting locations that until now, could not be reached with precision tooling. AcraDyne® HT Series tools have long featured the measurement sensor directly at the output of the tool, which means the torque reported is the torque delivered. This makes the AcraDyne HT Angle tool one of the most accurate high-torque right-angle tools in the world

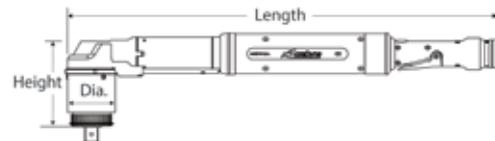
The AcraDyne® HT Swivel GearCase Angle Nutrunners represent industry leading technology and innovative tool form. These nutrunners enable tight tolerance bolting on fasteners that were very difficult to reach before.

What began as a 3000NM version for performing work on Wind Turbine Blade servicing jobs, has now evolved into a broad range of tools at torques starting at 50 Nm and reaching up to 5000 Nm. Available in 5000, 6000, 7000, and now 8000 series models, there is an AcraDyne® HT Swivel GearCase tool available to solve your tough challenge.

## FEATURES AND BENEFITS

- Transducerized closed loop control at the output like all AcraDyne HT-Series tools
- These low-profile head, small-diameter, lever-operated tools, with the torque measured at the output, offer a unique solution
- The torque reported is the torque delivered
- One of the most accurate high-torque right-angle tools in the world
- Same durable, high-cycle gearing as all HT-series tools
- 5000 series tools are fixed gearcase models
- 6000 series tools available in fixed gearcase and 360° swivel gearcase models
- 7000 & 8000 series tools available in 360° swivel gearcase models

## 5000 Series Models



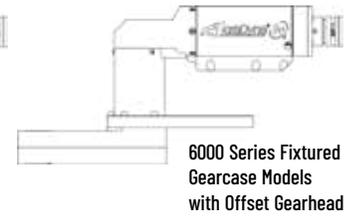
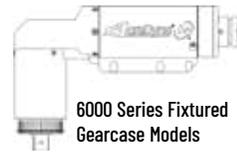
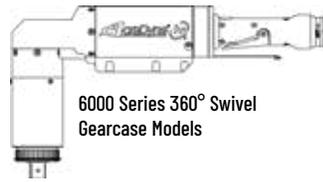
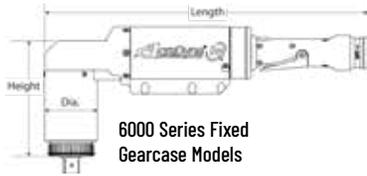
## 5000 Series HT DC Angle Tools

Model	Series	Torque Range		Free Speed RPM	Weight *		Length (Minus Reaction Bar)		Height (Minus Sq. Dr)		Dia.		Drive IN	Sound Level dB(A)
		NM	FT-LB		KG	LB	MM	IN	MM	IN	MM	IN		
5000 Series		135 - 2,600 Nm / 100 - 1,917 Ft-Lb												
Fixed Gearcase														
AEN356540A	5000	135 - 540	100 - 398	109	5.95	13.1	607	23.9	120.6	4.75	67.4	2.7	3/4	66
AEN356910AG	5000	225 - 900	166 - 664	27.9	5.5	12.2	496	19.5	150.6	5.93	65.8	2.6	3/4	66
AEN3571000A	5000	250 - 1,000	184 - 737	61	7.39	16.3	621	24.5	136.1	5.36	77.4	3.1	1	66
AEN3571600A	5000	400 - 1,600	295 - 1,180	33	7.57	16.7	612	24.1	136.1	5.36	71.4	3.1	1	66
AEN3572600A	5000	650 - 2,600	479 - 1,917	21	8.40	18.5	621	24.5	171.9	6.77	77.4	3.1	1	66

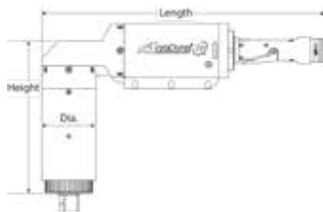
\* Weight is tool only w/o Socket and Reaction Bar

# AcraDyne High Torque DC Angle Tools

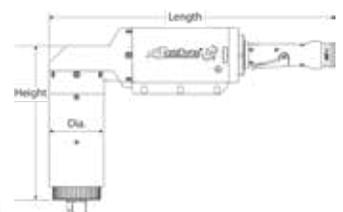
## 6000 Series Models



## 7000 Series Models



## 8000 Series Models



## 6000, 7000, and 8000 Series HT DC Angle Tools

Model	Series	Torque Range		Free Speed RPM	Weight *		Length (Minus Reaction Bar)		Height (Minus Sq. Dr)		Dia.		Drive IN	Sound Level dB(A)
		NM	FT-LB		KG	LB	MM	IN	MM	IN	MM	IN		
<b>6000 Series 50 - 925 Nm / 37 - 682 Ft-Lb</b>														
<b>Fixed Gearcase</b>														
AEN4A66250B	6000	50 - 250	37 - 184	188	5.6	12.4	417	16.4	150	5.9	67.3	2.7	3/4	66
AEN4A66425B	6000	85 - 425	63 - 313	97	5.6	12.4	417	16.4	150	5.9	67.3	2.7	3/4	66
AEN4A66625B	6000	125 - 625	92 - 461	64	5.6	12.4	417	16.4	150	5.9	67.3	2.7	3/4	66
AEN4A66925B	6000	185 - 925	136 - 682	43.2	5.6	12.4	417	16.4	150	5.9	67.3	2.7	3/4	66
<b>360° Swivel Gearcase</b>														
AEN4B66250B	6000	50 - 250	37 - 184	188	6.3	13.9	417	16.4	188	7.4	67.3	2.7	3/4	66
AEN4B66425B	6000	85 - 425	63 - 313	97	6.3	13.9	417	16.4	188	7.4	67.3	2.7	3/4	66
AEN4B66625B	6000	125 - 625	92 - 461	64	6.3	13.9	417	16.4	188	7.4	67.3	2.7	3/4	66
AEN4B66925B	6000	185 - 925	136 - 682	43.2	6.3	13.9	417	16.4	188	7.4	67.3	2.7	3/4	66
<b>Fixtured</b>														
Add -NP to a model number for offset gearhead. Dimensions vary depending on gearhead. Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368														
AEF4N66250B(-NP)	6000	50 - 250	37 - 184	188	5.6	12.4	307	12.1	150	5.9	67.3	2.7	3/4	66
AEF4N66425B(-NP)	6000	85 - 425	63 - 313	97	5.6	12.4	307	12.1	150	5.9	67.3	2.7	3/4	66
AEF4N66625B(-NP)	6000	125 - 625	92 - 461	64	5.6	12.4	307	12.1	150	5.9	67.3	2.7	3/4	66
AEF4N66925B	6000	185 - 925	136 - 682	43.2	5.6	12.4	307	12.1	150	5.9	67.3	2.7	3/4	66
<b>7000 Series 240 - 3,000 Nm / 177 - 2,200 Ft-Lb</b>														
<b>360° Swivel Gearcase</b>														
AEN4B771200B(DL)	7000	240 - 1,200	177 - 885	38	8.1	17.9	422	16.6	229	9	77.5	3.1	1"	66
AEN4B773000B(DL)	7000	600 - 3,000	443 - 2,200	15	9.3	20.4	422	16.6	229	9	77.5	3.1	1"	66
<b>8000 Series 1,000 - 5,000 Nm / 740 - 3,700 Ft-Lb</b>														
<b>360° Swivel Gearcase</b>														
AEN4B885000B1	8000	1,000 - 5,000	740 - 3,700	6	15.9	35	476	18.7	258	10.1	91.2	3.6	1	66
AEN4B885000B	8000	1,000 - 5,000	740 - 3,700	6	15.9	35	476	18.7	258	10.1	91.2	3.6	1.5	66

\* Weight is tool only w/o Socket and Reaction Bar



## Gen IV iEC4W Field Controller: High Torque with High Tech

The Gen IV Field Controller (see page 42) is the core of the modular AcraDyne DC system. One controller will command any tool in the AcraDyne line – including the HT DC Angle Tool – from 1 Nm to 17,000 Nm, all with the same modular standard cable design.

# AcraDyne High Torque DC Dual-Lever Tools

## HIGH TORQUE DUAL-LEVER/DUAL-TRIGGER TOOLS

Provides Additional Safety by Avoiding Accidental Tool Start

### FEATURES AND BENEFITS

- Built-in integral transducer for optimal monitoring and control
- One of the most accurate high-torque tools in the world
- 250 Nm - 17,000 Nm
- Two-Hand No Tie Down Operation
  - No Tie Down Control: Operator must have both hands on and activating the dual-starting mechanisms simultaneously. Both hands must remain in position, activating the dual controls, at all times in order for the tool to operate.
- Additional safety when using a tool with a reaction bar or nose extension. Operator's hands remain on the controls and not in a position where they could be impacted by reaction devices
- Hands stay clear of application
- Helps avoid accidental starting of the tool
- Available in five handle types: "Handle Bar" (F) style, Straight (S) style with side handle, Pistol (P) style, Rear-Mounted Pistol (D) style, and J-Handle (J) style
- MADE IN THE USA



AEJ Type



AEP Type



AED Type



AES Type



AEF Type

HT Dual-Lever/Dual-Trigger Nutrunners: **SAFETY** is **VITAL** in Critical Bolting

AcraDyne's Nutrunners are designed with ultimate operator safety in mind. The optional dual-lever/dual trigger design helps prevent:



#### Injuries from Accidental Tool Start

Two-hand operation with no tie-down feature requires the operator to use both hands on the trigger simultaneously. This eliminates the possibility of accidental tool start and keeps both of the operator's hands out of harm's way.



#### Strain Caused by Awkward Tool Operation

Multiple handle styles ensure the safest, most ergonomic tool for your specific application.



#### Hand and Finger Trauma

Significantly reduce the risk of crushed or mutilated fingers from unintended tool start.

**Protect your most valuable asset – your tool operator.**

# AcraDyne High Torque DC Dual-Lever Tools

## HT Fixed Gearcase Dual-Lever/Dual Trigger Tools

Dual Lever Model	Approx. Torque		Approx. Speed RPM	Weight		Length (incl sq. dr)		Dia.		Drive IN	Sound Level dB(A)
	NM	FT-LB		KG	LB	MM	IN	MM	IN		
<b>HT Series Fixed Gearcase: Dual-Lever/Dual Trigger Models</b> For Straight Type Tools Only: (L) = Left-Side Handle (R) = Right-Side Handle											
<b>6000 Series</b>											
AE(P)(F)4A66250BDL AE(S)4A66250BDL(L)(R)	250	185	315	3.9	9	P = 314 12.4 F = 331 13 S = 440 17.3	67.3	2.7	0.75	66	
AE(P)(F)4A66425BDL AE(S)4A66425BDL(L)(R)	425	315	165	3.9	9						
AE(P)(F)4A66625BDL AE(S)4A66625BDL(L)(R)	625	460	106	4.1	9						
AE(P)(F)4A66925BDL AE(S)4A66925BDL(L)(R)	925	682	72	4.1	9						
<b>7000 Series</b>											
AE(P)(F)4A771000BDL AE(S)4A771000BDL(L)(R)	1,000	738	65	5.9	13	P = 324 12.7 F = 343 13.5 S = 453 17.8	77.5	3.1	1	66	
AE(P)(F)4A772500BDL AE(S)4A772500BDL(L)(R)	2,500	1,844	25	6.8	15	P = 359 14.1 F = 379 14.9 S = 488 19.2	77.5	3.1	1	66	
<b>8000 Series</b>											
AE(F)4A884200B1DL AE(F)4A884200BDL	4,200	3,100	12	10.4	23	410 16.1	91.2	3.6	B1 = 1 B = 1.5	66	
AE(F)4A885000BDL	5,000	3,700	9.3	10.4	23	410 16.1	91.2	3.6	1	66	
AE(P)(F)4A896500BDL	6,500	4,800	7	15.0	33	P = 438 17.2 F = 462 18.2	102.4	4	1.5	66	
AE(F)(J)4A898100BDL*	8,100	6,000	5	15.0	33	F = 462 18.2 J = 462 18.2	102.4	4	1.5	66	

\* 8,100 Nm - 17,000 Nm models are not supported by the Gen III controller platform. The Gen IV controller platform is required.

## HT 360° Swivel Gearcase Dual-Lever/Dual-Trigger Tools

Dual Lever Model	Approx. Torque		Approx. Speed RPM	Weight		Length (incl sq. dr)		Dia.		Drive IN	Sound Level dB(A)
	NM	FT-LB		KG	LB	MM	IN	MM	IN		
<b>HT Series 360° Swivel Gearcase: Dual-Lever/Dual Trigger Models</b> For Straight Type Tools Only: (L) = Left-Side Handle (R) = Right-Side Handle											
<b>6000 Series</b>											
AE(P)(F)4B66250BDL AE(S)4B66250BDL(L)(R)	250	185	315	4.6	10.5	P = 353 13.9 F = 369 14.5 S = 630 24.8	67.3	2.7	0.75	66	
AE(F)4B66425BDL AE(S)4B66425BDL(L)(R)	425	315	165	4.6	10.5						
AE(F)4B66625BDL AE(S)4B66625BDL(L)(R)	625	460	106	4.8	10.5						
AE(F)4B66925BDL AE(S)4B66925BDL(L)(R)	925	682	72	4.8	10.5						
<b>7000 Series</b>											
AE(P)(F)4B771000BDL AE(D)4B771000BDL(L) AE(S)4B771000BDL(L)(R)	1,000	738	65	6.6	14.5	P = 361 14.2 F = 343 13.5 D = 438 17.2 S = 492 19.4	77.5	3.1	1	66	
AE(D)4B771800BDL(L)	1,800	1,328	28	7.5	16.5	475 18.7	77.5	3.1	1	66	
AE(P)(F)4B772500BDL AE(D)4B772500BDL(L) AE(S)4B772500BDL(L)(R)	2,500	1,844	25	7.5	16.5	P = 398 15.7 F = 379 14.9 D = 475 18.7 S = 528 20.8	77.5	3.1	1	66	
<b>8000 Series</b>											
AE(J)4B884200B1DL AE(J)4B884200BDL	4,200	3,100	12	12.7	28	B1 = 446 B = 451 B1 = 17.6 B = 17.8	91.2	3.6	B1 = 1 B = 1.5	66	
AE(J)4B885000B1DL AE(J)4B885000BDL	5,000	3,700	9	12.7	28	B1 = 446 B = 451 B1 = 17.6 B = 17.8	91.2	3.6	B1 = 1 B = 1.5	66	
AE(J)4W885000B1DL AE(J)4W885000BDL	5,000	3,700	4.5	12.7	28	B1 = 446 B = 451 B1 = 17.6 B = 17.8	91.2	3.6	B1 = 1 B = 1.5	66	
AE(J)4U885000B1DL.001 AE(J)4U885000BDL.001	5,000	3,700	5	21.8	48	345 13.6	91.2	3.6	B1 = 1 B = 1.5	66	
AE(P)(F)4B896500BDL	6,500	4,800	5	16.4	36	P = 475 F = 499 P = 18.7 F = 19.7	104	4.1	1.5	66	
AE(J)4B898100BDL*	8,100	6,000	5	16.4	36	499 19.7	104	4.1	1.5	66	

\* 8,100 Nm - 17,000 Nm models are not supported by the Gen III controller platform. The Gen IV controller platform is required.

AIMCO can provide customized tooling solutions for even the most unique applications. Let us propose a solution tailored to your needs. Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368.

# AcraDyne HTXD Extreme Duty High Torque Tools



## EXTREME DUTY

### Full-Strength Tools for Big Jobs

AcraDyne's HTXD Nutrunner/Gen IV Controller System is one of the Most Accurate High-Torque Bolting Systems in the World

- Measures traceable, dynamic torque directly at the square drive, and the built-in transducer ensures accurate torque values. The torque reported is the torque delivered
- Accuracy not affected by gearing efficiency
- Available in J handle, Pistol handle, and Angle configurations
- Extreme Duty engineering with motors rated for bolting applications near continuous duty
- Patented dual J-Handle models have additional safety features: Operators must use both hands on the trigger simultaneously, eliminating the possibility of accidental tool start and keeping both of the operator's hands out of harm's way
- Wide range of tightening strategies available including Torque Control, Torque plus Angle, Angle Control, and Yield Control



Pistol Model  
12,000 Nm



Fixtured Model  
6,500 Nm

Dual J-Handle Models



12,000 Nm



17,000 Nm  
U.S. Patents  
D968491  
11,229,993



Fixtured Angle Model  
12,000 Nm



J-Handle Model  
12,000 Nm

### HT Bolting Tools for Extreme Duty

Model	Series	Approx. Torque		Approx. Speed	Weight *		Length (incl sq. dr)		Dia.	Drive	Sound Level	
		NM	FT-LB	RPM	KG	LB	MM	IN	MM	IN	dB(A)	
AEJ = J Handle/Axial Type    AEP = Pistol Type    AEF = Fixtured Type Single-Handle Models Standard. Add "DL" to Model Numbers for Dual Lever (AEJ models only)												
<b>Fixtured Gearcase</b>												
AEF4A996500B	9000	6,500	4,800	5.8	19	42	494	19.5	104	4.1	1.5	66
<b>360° Swivel Gearcase</b>												
AEP4W998100B	9000	8,100	6,000	2.3	21.8	48	544	21.4	104	4.1	1.5	66
AEJ4W998100B	9000	8,100	6,000	2.3	21.8	48	544	21.4	104	4.1	1.5	66
AEJ4U998100BDL	9000	8,100	6,000	2.3	21.8	48	427	16.8	104	4.1	1.5	66
AEP4W9X12000B	9X	12,000	8,850	2	31.8	70	572	22.5	131	5.2	1.5	66
AEJ4W9X12000B	9X	12,000	8,850	2	31.8	70	572	22.5	131	5.2	1.5	66
AEJ4U9X12000BDL	9X	12,000	8,850	2	31.8	70	441	17.4	131	5.2	1.5	66
AEP4W9Y17000B	9Y	17,000	12,500	1	42.6	94	381	15	153	6.0	2.5	66
AEJ4U9Y17000BDL	9Y	17,000	12,500	1	42.6	94	458	18	153	6.0	2.5	66
<b>Angle Tools</b>												
<b>Fixtured Gearcase</b>												
AEF4N9X10000B	9X	10,000	7,375	3	28.2	62.2	422	16.6	131	5.2	1.5	66
AEF4N9X12000B	9X	12,000	8,850	1.65	28.1	61.9	422	16.6	131	5.2	1.5	66

\* Weight is tool only w/o Socket and Reaction Bar



iEC4WF Field Controller

# AcraDyne HTXD Extreme Duty High Torque Tools



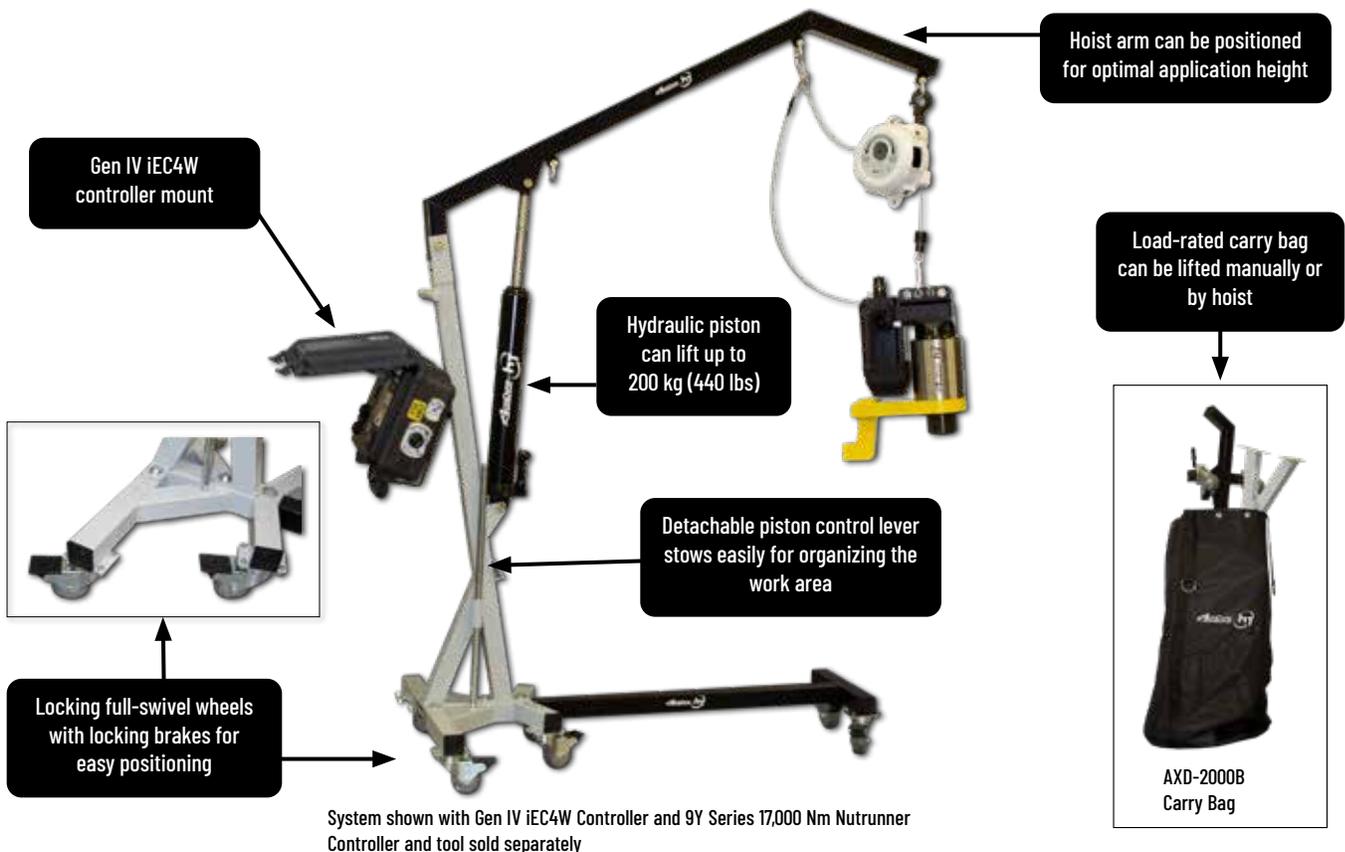
# EXTREME DUTY

## Ultimate Operator Safety for Lifting Larger Bolting Tools

AcraDyne's XD Lift Assist device for tool suspension and use allows for easy handling of equipment that otherwise would need two operators to position.

### FEATURES AND BENEFITS

- Lift can be assembled/disassembled in less than 15 minutes
- Can be used inside wind turbines at deck platforms
- Designed for a wide variety of applications including narrow tower platforms and ladder spaces
- Lift Assist weighs 30 kg / 67 lbs
- Weight of unit is below the weight allowed to be lifted by personnel inside or outside the tower
- Disassembled Lift Assist is transported in a load-rated bag that can be lifted manually or by hoist within the tower
- Device is rated for loads up to 200 kg / 440 lbs
- Full-swivel wheels with locking brakes make movement and repositioning easy



# AcraDyne Gen IV Field Controller

Improved design of AcraDyne's powerful Gen IV Field Controller means increased durability, lighter weight, and quick and easy setup



iEC4WF Field Controller



Rugged, Lightweight Case

## FEATURES AND BENEFITS

- Optimized for extreme duty applications >5,000 Nm
- The Gen IV Controller utilizes three tightening strategies:
  - Torque Control: Drive the tool to a pre-set Target Torque
  - Angle Control: Drive the tool to or measure a pre-set Degree of Angle
  - Yield Control: Drive the tool to the Fastener Yield Point to achieve maximum clamp load
- Multiple fastening strategies – Program up to 256 parameters with as many as 20 steps
- Jobs capability – 99
- Real-time curve viewing. Curve storage – 20,000
- Rundown storage – 1,000,000
- Event log – 5,000
- Backup & restore through USB
- Weatherproof, rugged case protects from the toughest environments
- Compact design weighs less than 20 lbs
- Ground clamp is quick and easy to set up and eliminates additional parts that are substantially heavy
- Optional tool fan kit helps prevents tool overheating
- Capable of interface with the AcraDyne series Dual-Lever tools that offer two-hand, no tie down functionality
- 110V – 220V compatible
- Single Ethernet port increases speed of connectivity, signal stability, and signal consistency
- Commands any tool in the AcraDyne line from 1 Nm to 17,000 Nm, all with one cable

## PERQ Advantages

### PRODUCTIVITY



- Replace multiple conventional tools with one flexible controlled system
- Quick and easy setup
- Fan kit reduces downtime due to tool overheating

### ERGONOMICS



- Compact, rugged case with easy carry handle makes field use easy and convenient
- Lightweight for operator comfort

### RELIABILITY



- Weatherproof rugged case
- Industrial touch screen

### QUALITY



- Controlled tightening and consistent torque control improves quality
- Process controls reduce human error, and ensure no missed fasteners, stripped threads, rehits, or damaged threads
- No premature shut-off

Model	Description	Dimensions W x D x H	Weight	
			LB	KG
iEC4WF	Field use controller for use with 110V or 220V service	16.1" x 12.8" x 6.9" 408 mm x 326 mm x 175 mm	18.5	8.4



## NOSE EXTENSIONS

### FEATURES AND BENEFITS

- Ideal for hard-to-reach applications when a torque tube, or arm, is not desirable
- A cost-effective, more flexible option compared to a multiple spindle system
- Common applications:
  - Wheel install and repair stations
  - Large flange assembly
  - Mining vehicle shovel bolts
  - Railway equipment maintenance
  - Oil and gas industry well fixtures



28050



28480

## HT GEARHEAD TOOLS

### FEATURES AND BENEFITS

- Application-specific, custom made tools fit virtually any application
- Same durable gearing as found on AcraDyne's standard HT series tools
- Model types available:
  - HT Offset Gearhead tools
  - HT Right Angle with Offset Gearhead tools
  - HT Right Angle Air tools with Offset Gearhead

Custom accessories are available for your application. Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368.



# AcraDyne High Torque Accessories

## ACCESSORIES

Custom accessories are available for your application; contact an AIMCO Customer Service Associate for details, 1-503-254-6600, or toll free 1-800-852-1368.



Model	Description
26477	Swivel Bail, 6000 Series
26327	Swivel Bail, 7000 Series
25287	Swivel Bail, 8000 Series
26630	Swivel Bail, 8000/9000 Series Tools
26478	Swivel D-Handle, 6000 Series
26328	Swivel D-Handle, 7000 Series
25291	Swivel D-Handle, 8000 Series
26479	Stationary Bail, 6000 series (26336 handle not included)
26332	Stationary Bail, 7000 series (26336 handle not included)
25289	Stationary Bail, 8000 series (26336 handle not included)
26336	Fixed Handle (for use with 26479, 26332, 25289)
26337	Rear Fixed Hoist Ring, 6000/7000/8000 Series Pistols
28514	Rear Folding Hoist Ring Kit for 8000 Series Pistols
28549	Sliding Spindle, 6000 Series
27045	Sliding Spindle, 7000 Series
30300	Sliding Spindle, 8000 Series

## REACTION BARS



HT tool includes a standard, spline attachment reaction device. Custom reaction devices are available. Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368.

	Model	Description
 Single Ended Flat	26810	6000 Series
	26800	7000 Series
	25277	8000 Series
	27255	9000 Series
	30303	X Series
 Single Ended Offset	26815	2.375" Offset, 6000 Series
	26885	4.00" Offset, 6000 Series
	27200	3.10" Offset, 7000 Series
	26890	4.00" Offset, 7000 Series
	25274	3.35" Offset, 8000 Series
	25275	4.00" Offset, 8000 Series
	26840	3.35" Offset, 9000 Series
	30306	5.00" Offset, X Series
31273	5.00" Offset, Y Series	
 T-Shaped Offset	27335	3.2" Offset, 8000 Series
 Double Ended Flat	26830	6000 Series
	26820	7000 Series
	25278	8000 Series
 Double Ended Offset	25276	3.35" Offset, 8000 Series

## PROTECTIVE COVERS

Durable protective covers prevent marring and damage.



Model	Description
BJ10078	Protective Cover, 6000 Series
BJ10077	Protective Cover, 7000 Series
BJ10076	Protective Cover, 8000 Series

## HEAVY DUTY WATER-RESISTANT CASE FOR HT TOOLS



Made of ultra high-strength polypropylene copolymer resin, this water resistant utility case protects AcraDyne HT tools.

- Molded-in hinge, trigger-release latch system, and snap-down cushion grip handle
- Resistance to UV, solvents, corrosion, and impact damage

Model	Compatible Tools	Description
CC-6000-FIP	6000 series	Case with foam in place
CC-7000-FIP	7000 series	Case with foam in place
CC-8000-FIP	8000 series	Case with foam in place

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

# DC Tools: Tool/Spindle Selection Guide

Model	RPM**	Length		Weight		Torque, Nm																						
		IN	MM	LB	KG	5	10	15	20	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	
<b>Angle</b>																												
AEN4C12004B	3,111	11.65	295.9	2.0	0.91	█																						
AEN4C12009B	1,750	11.00	279.5	2.2	1.00	█	█																					
AEN4C12014B	875	11.66	296.4	2.2	1.00	█	█	█																				
AEN4C12018B	691	11.66	296.4	2.2	1.00	█	█	█	█																			
AEN4C12022B	560	11.66	296.4	2.2	1.00	█	█	█	█	█																		
AEN32015C	1,481	14.6	371.0	2.7	1.22		█	█																				
AEN32025C	833	14.6	371.0	2.7	1.22		█	█	█																			
AEN32030C	803	14.4	366.2	2.8	1.27		█	█	█	█																		
AEN32040C	574	14.4	366.2	2.8	1.27		█	█	█	█	█																	
AEN33042C	1,095	16.6	422.3	4.4	2.00		█	█	█	█	█																	
AEN33053C	1,095	16.6	422.3	4.4	2.00		█	█	█	█	█																	
AEN33060C	845	18.9	480.5	6.6	2.99		█	█	█	█	█	█																
AEN33090C	568	18.9	480.5	6.6	2.99		█	█	█	█	█	█	█															
AEN33120C	442	21.0	533.5	9.3	4.22		█	█	█	█	█	█	█	█														
AEN33200C	245	23.2	589.6	9.4	4.26		█	█	█	█	█	█	█	█	█													
AEN33210C	234	23.6	599.9	10.0	4.54		█	█	█	█	█	█	█	█	█	█												
AEN33300C	151	23.6	599.0	10.0	4.54		█	█	█	█	█	█	█	█	█	█	█											
AEN33375C	151	23.6	599.0	10.0	4.54		█	█	█	█	█	█	█	█	█	█	█	█										
AEN35090B	607	22.6	573.7	6.9	3.13		█	█	█	█	█	█	█	█	█	█	█	█	█									
AEN35140B	472	22.5	571.9	10.4	4.72		█	█	█	█	█	█	█	█	█	█	█	█	█	█								
AEN35175B	384	22.5	571.9	10.5	4.76		█	█	█	█	█	█	█	█	█	█	█	█	█	█	█							
AEN35225B	291	22.9	581.1	12.3	5.58		█	█	█	█	█	█	█	█	█	█	█	█	█	█	█							
AEN35285B	236	22.9	581.1	12.3	5.58		█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█						
AEN35350B	191	22.9	581.1	12.3	5.58		█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█					
<b>Inline</b>																												
AES4A12003BQ	2,625	11.12	282.7	2.0	0.91	█																						
AES4A12006BQ	2,625	11.12	282.7	2.0	0.91	█	█																					
AES4A12011BV	1,313	11.44	290.5	2.2	1.00	█	█	█																				
AES4A12014BV	1,037	11.44	290.5	2.2	1.00	█	█	█	█																			
AES4A12018BV	840	11.44	290.5	2.2	1.00	█	█	█	█	█																		
AES4A12022BV	656	11.44	290.5	2.2	1.00	█	█	█	█	█	█																	
AES32010CV	2,222	13.9	351.7	2.5	1.13	█	█																					
AES32020CV	1,250	13.9	351.7	2.5	1.13	█	█	█																				
AES32025CV	893	13.9	351.7	3.2	1.45	█	█	█	█																			
AES32038CV	595	16.7	424.0	4.2	1.91	█	█	█	█	█																		
AES33040CV	1,314	18.2	463.4	6.4	2.90	█	█	█	█	█																		
AES33060CV	883	18.2	463.4	6.4	2.90	█	█	█	█	█	█																	
AES33100CV	489	22.6	573.0	8.1	3.67	█	█	█	█	█	█																	
AES33150CV	329	22.6	573.0	8.1	3.67	█	█	█	█	█	█	█																
AES33230CV	221	22.6	573.0	8.1	3.67	█	█	█	█	█	█	█	█															
AES33230C-2	221	22.6	573.0	8.1	3.67	█	█	█	█	█	█	█	█	█														
AES33400CV	122	24.9	632.5	13.0*	5.90*	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
AES33600CV**	82	24.9	632.5	13.0*	5.90*	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
AES35075AV	944	21.9	555.2	9.2	4.17		█	█	█	█	█	█																
AES35090AV	767	21.9	555.2	9.2	4.17		█	█	█	█	█	█	█															
AES35110AV	634	21.9	555.2	9.2	4.17		█	█	█	█	█	█	█	█														
AES35135AV	515	21.9	555.2	9.2	4.17		█	█	█	█	█	█	█	█	█													
AES35170AV	418	21.9	555.2	9.2	4.17		█	█	█	█	█	█	█	█	█	█												
AES35280A	236	24.2	615.1	12.8	5.81		█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
AES35350A	192	24.2	615.1	12.8	5.81		█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
AES35420A	159	24.2	615.1	12.8	5.81		█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
AES35515A****	129	24.2	615.1	12.8	5.81		█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
AES35635A****	104	24.2	615.1	12.8	5.81		█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

\* Includes reaction bar and fixture nut.  
 \*\* Torque Range: 120-480 Nm Max Torque: 600 Nm  
 \*\*\* Torque Range: 128-515 Nm  
 \*\*\*\* Torque Range: 159-635 Nm

Recommended Torque Range

Continued on next page

# DC Tools: Tool/Spindle Selection Guide

Model	RPM**	Length		Weight		Torque, Nm																							
		IN	MM	LB	KG	5	10	15	20	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450		
<b>Pistol</b>																													
AEP4_12003B_	2,625	7.3	186.3	2.2	1.00	█																							
AEP4_12006B_	2,625	7.3	186.3	2.2	1.00	█	█																						
AEP4_12011BV	1,313	8.0	203.3	2.3	1.04	█	█	█																					
AEP4_12014BV	1,037	8.0	203.3	2.3	1.04	█	█	█	█																				
AEP4_12018BV	840	8.0	203.3	2.3	1.04	█	█	█	█	█																			
AEP4_12022BV	656	8.0	203.3	2.3	1.04	█	█	█	█	█	█																		
AEP4_22020BV	1,313	8.7	219.9	2.4	1.09	█	█	█	█	█	█																		
AEP4_22025BV	1,037	8.7	219.9	2.4	1.09	█	█	█	█	█	█	█																	
AEP4_22030BV	840	8.7	219.9	2.4	1.09	█	█	█	█	█	█	█	█																
AEP4_22035BV	747	8.7	219.9	2.4	1.09	█	█	█	█	█	█	█	█	█															
AEP4_22040BV	656	8.7	219.9	2.4	1.09	█	█	█	█	█	█	█	█	█	█														
AEP35075AV	944	16.0	405.2	9.2	4.17																								
AEP35090AV	767	16.0	405.2	9.2	4.17																								
AEP35110AV	634	16.0	405.2	9.2	4.17																								
AEP35135AV	515	16.0	405.2	9.2	4.17																								
AEP35170AV	418	16.0	405.2	9.2	4.17																								
AEP35280A	236	18.4	468.2	13.6	6.17																								
AEP35350A	192	18.4	468.2	13.6	6.17																								
AEP35420A	159	18.4	468.2	13.6	6.17																								
AEP35515A*	129	18.4	468.2	13.6	6.17																								
AEP35635A**	104	18.4	468.2	13.6	6.17																								
<b>Tubenut</b>																													
AET4A12018B	516	15.41	288.1	3.1	1.41	█	█																						
AET4A12025B	387	15.41	288.1	3.1	1.41	█	█	█																					
AET4A12025B-KD	387	15.9	404.9	3.1	1.41	█	█	█																					
AET32020C	622	17.2	436.4	3.1	1.41	█	█	█																					
AET32025C	466	17.8	450.9	4.0	1.81	█	█	█	█																				
AET32035C	347	18.1	460.5	4.5	2.04	█	█	█	█	█																			
AET32050C	257	18.8	478.0	5.6	2.54	█	█	█	█	█	█																		

\* Torque Range: 128 - 515 Nm  
 \*\* Torque Range: 159 - 635 Nm

Recommended Torque Range



## High Torque Series

Model Number Ending In	RPM**	Length		Weight		Torque, Nm																						
		IN	MM	LB	KG	50	100	200	300	400	500	600	850	1100	1300	1500	2000	2500	3000	4000	5000	6500	8100	12000	17000			
66250B (DL)	315	12.4 - 24.8	314 - 630	9 - 12	3.9 - 5.3	█	█																					
66425B (DL)	165	12.4 - 24.8	314 - 630	9 - 12	3.9 - 5.3	█	█	█																				
66625B (DL)	106	12.4 - 24.8	314 - 630	9 - 12	4.1 - 5.5	█	█	█	█																			
66925B (DL)	72	12.4 - 24.8	314 - 630	9 - 12	4.1 - 5.5	█	█	█	█	█																		
771000B (DL)	65	12.7 - 19.4	324 - 492	13 - 16	5.9 - 7.3	█	█	█	█	█																		
771800BDL	28	18.7	475	7.5	16.5	█	█	█	█	█	█																	
772500B (DL)	25	14.1 - 20.8	359 - 528	15 - 18	6.8 - 8.2	█	█	█	█	█	█	█																
872800B	9	16 - 17	406 - 430	22	10	█	█	█	█	█	█	█	█															
884200B1 (DL)	12	410 - 446	16.1 - 17.6	23 - 26	10.4 - 11.8	█	█	█	█	█	█	█	█	█														
884200B (DL)	12	410 - 446	16.1 - 17.6	24.5	11.1	█	█	█	█	█	█	█	█	█	█													
885000B1	4.5	16.6 - 17.6	422 - 446	26	11.8	█	█	█	█	█	█	█	█	█	█													
885000B	4.5	16.6 - 17.6	422 - 446	26	11.8	█	█	█	█	█	█	█	█	█	█	█												
885000BDL	9.3	16.1	410	23	10.4	█	█	█	█	█	█	█	█	█	█	█												
896500B (DL)	5 - 7	17.2 - 19.7	438 - 499	33 - 36	15 - 16.4	█	█	█	█	█	█	█	█	█	█	█	█											
898100B (DL)	5	18.2 - 20.9	462 - 532	33 - 36	15 - 16.4	█	█	█	█	█	█	█	█	█	█	█	█	█										
996500B	5.8	19.5	494	42	19	█	█	█	█	█	█	█	█	█	█	█	█	█	█									
998100B (DL)	2.3	21.4	544	48	21.8	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█								
9X12000B (DL)	2	17.4 - 22.5	441 - 572	70	31.8	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█							
9Y17000B (DL)	1	15 - 18	381 - 458	94	42.6	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█						

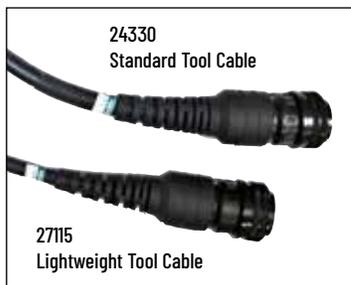
Recommended Torque Range

# AcraDyne Accessories

## CABLE ASSEMBLIES

The AcraDyne DC electric nutrunner tool system uses a single cable to carry all necessary conductors for superior ergonomics and durability.

- Flexible polyurethane cover for maximum durability, abrasion and transmission fluid resistant
- Quick disconnects at both ends facilitate tool changeover and troubleshooting
- The CAN data/signal is via RJ45 for products such as the KDM socket tray or computer



Model	Description	Length	
		M	Ft
<b>Tool Cables</b>			
24330	G3/G4 Tool Cable 3M	3	9.8
25350	G3/G4 Tool Cable 5M	5	16.4
24320	G3/G4 Tool Cable 10M	10	32.8
27110	G3/G4 Tool Cable 3M Lightweight*	3	9.8
27115	G3/G4 Tool Cable 5M Lightweight*	5	16.4
27122	G3/G4 Tool Cable 10M Lightweight*	10	32.8
<b>Extensions</b>			
24320	Extension cable 10M	10	32.8
25518	Extension cable 20M	20	65.6

\*Lightweight cables are for use only with 1000 & 2000 Series tools.

## CABLE ADAPTERS AND CONNECTORS

	Model	Description
Adapters and Connectors		
	26364	G3/G4 Right Angle Cable Adapter
	25491	G3/G4 Breakaway Cable Connector - Ensures disconnect of cable should stress in excess of 40 lbs. occur (see below)
	30355	Y Cable Harness connects G4 iAC controller and controller's I/O to tool's EC/MCCBL cable. Compatible with UA-40S(D)MC, UA-50S(D)MC, UA-60S(D)MC, UA-70SMC, and UA-150MC tools.

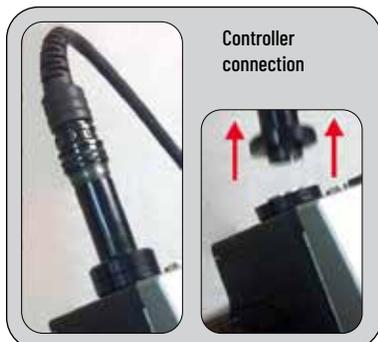
## DATA INTERFACE OPTION

	Model	Description
Data Interface Options		
	27348	I/O Wiring Connector - Simple module to facilitate connections to I/O on iEC Controllers
	28292	System Port Cable, USB 2.0 Cable, A Male to B Male, 3M

## BREAKAWAY CABLE CONNECTOR

Innovative Quick Disconnect Device reduces cable damage from dropping tools or pulling cables when in use.

- Easily snaps into place, using magnetic force, at either the tool or the controller
- Adjust holding force by removing or adding magnets. Max holding force is 40 lbs / 18 kg



## GEN IV CONTROLLER CHOKE ASSEMBLY

	Model	Description
	32400	Choke filter for the Gen IV Controller Power Cable reduces trip occurrences of sensitive GFCI breakers

## LIGHT TOWER



23730

Cost- and energy-efficient LED light tower is visible from any direction, angle, and distance

- Two built-in alarms (FB Type) with selectable sound patterns
- Adjustable Volume (Max. 85 dB at 1 m)
- Tower includes red, yellow, green, blue, and clear lenses

# AcraDyne Accessories

## FRL ASSEMBLY KIT

For use with the iAC controller, AcraDyne's FRL assembly kit includes a regulator and solenoid. The kit attaches to the controller or can operate as a stand-alone unit.



Top view



30850 FRL Assembly Kit

## ANGLE TOOL BODY JACKETS

Keep tools protected with AIMCO's tool Body Jackets.



Model	Description
BJ10051	For 1000 series angle tools
BJ10052	For 2015, 2025 series angle tools
BJ10053	For 2030, 2040, 2055 series angle tools
BJ10054	For 3060, 3090 series angle tools
BJ10055	For 3120, 3200 series angle tools

## SOCKET TRAYS

Socket trays, for use with iEC and UEC Controllers, are supplied with blank socket pucks machined to fit specific sockets for the application. AIMCO provides this machining as an additional service. When ordering, please specify the outer dimensions of the sockets you plan to use, and whether you would like a quote for the machining service.

- Simply remove the assigned socket to select the application to be run
- Quick and easy set up. Parameters assigned to socket position automatically
- Optional self-illuminating socket receptacles
- Delrin® blanks may be easily machined by the customer to accommodate custom socket profiling
- Nothing to break, wear out, or maintain
- Proximity sensors detect presence of socket



Model	Description
AMPST-2-I	2-Position Socket Tray for iEC Controllers, 2 x 1, 1.25" Socket
AMPST-2-U	2-Position Socket Tray for UEC Controllers, 2 x 1, 1.25" Socket
AMPST-4-I	4-Position Socket Tray for iEC Controllers, 2 x 2, 1.25" Socket
AMPST-4-U	4-Position Socket Tray for UEC Controllers, 2 x 2, 1.25" Socket
AMPST-6S-I	6-Position Socket Tray for iEC Controllers, 6 x 1, 1.25" Socket
AMPST-6S-U	6-Position Socket Tray for UEC Controllers, 6 x 1, 1.25" Socket
AMPST-6-I	6-Position Socket Tray for iEC Controllers, 3 x 2, 1.25" Socket
AMPST-6-U	6-Position Socket Tray for UEC Controllers, 3 x 2, 1.25" Socket
AMPST-8-I	8-Position Socket Tray for iEC Controllers, 4 x 2, 1.25" Socket
AMPST-8-IL	8-Position Socket Tray for iEC Controllers, 4 x 2, 2.0" Socket
AMPST-8-U	8-Position Socket Tray for UEC Controllers, 4 x 2, 1.25" Socket

Socket trays with 6 - 8 positions are available in varied configurations to suit workspace requirements (straight or double rows). Tell your AIMCO representative your specific requirements when inquiring.

## BAR CODE SCANNER

Sturdy bar code scanners allow you to easily scan small, stacked, or poorly printed, one-dimensional bar codes. Kit includes a cradle, power supply, and USB/Ethernet cable.



28859  
Bluetooth®-Enabled  
Scanner Kit

- Scratch proof, tempered glass exit window
- Single-circuit board construction eliminates common interconnection failures
- Industrial long-life charging contacts can withstand 250,000+ insertions into cradle
- Wireless scanner enables users to hold scanner at any angle

Model	Description
20400	RS232 Barcode Reader Kit
28859	RS232 Wireless Barcode Reader Kit

# AcraDyne Accessories

## CONTROLLER BRACKETS



20853



27816

Model	Description
20853	Table stand free standing platform
27816	Mounting bracket with internal wireways

## TOOL BAILS

- AcraDyne's spring bails are designed for use with any of the AcraDyne 1000, 2000, or 3000 Series tools
- Spring bails snap on quickly and firmly at any place on the body of the tool for perfect balance and secure suspension

	Model	Description
	27791	Rotating Bail Assembly for 1000 Series Tools
	26568	Cable Bail to Hang Tool Vertically for Gen III Cables
	21208	Spring Bail for 2000 Series Tools
	23662	Rotating Bail for 2000 Series Tools
	23575	Rotating Bail for 3000 Series Tools

## MOUNTING BRACKETS

	Model	Description
	25717	Mounting Bracket for 1000 Series Angle Tools
	25843	Mounting Bracket for 1000 Series Push-To-Start Tools
	26443	Mounting Bracket for 1000/2000 Series Straight and Pistol Tools
	24824	Mounting Flange for 1000/2000 Series Straight and Pistol Tools
	28622	Mounting Flange for 2000 Series Inline Tools
	30351	Mounting Bracket, Drive End for 2000 Series Inline Tools
	25718	Mounting Bracket for 3000/5000 Series Angle Tools
	26570	Mounting Bracket for 3000/5000 Series Straight Tools
	26394	Mounting Flange for 5000 Series

## TOOL STORAGE

Tool baskets and tool hangers are a great way to keep a tool in place when not being used.

### UNIVERSAL TOOL BASKET

Interchangeable among angle head and pistol grip tool models throughout the industry.



21226

### VERTICAL TOOL HANGER

Designed for AcraDyne Gen 1/Gen 2 tools.



21159

# AcraDyne Cordless AB Series

## AcraDyne Cordless AB Series INNOVATIVE TOOLS IN A POWERFUL PACKAGE

AcraDyne's high-performance cordless tools deliver precise torque and/or angle to the fastener. Innovative technology guarantees repeatable torque results every time, ensuring you meet your most important goal – creating quality products. The tools are available in two model types:

**1** **AB-MTA**  
Clutch  
Shut-Off  
Tool

*Measures  
Torque and  
Reports Angle*

**2** **AB-CTA**  
Transducer  
Shut-Off  
Tool

*Controls Torque  
and Angle*



### FEATURES AND BENEFITS OF ALL AB TOOLS

- Self-Controlling Tools  
Can run stand alone or in conjunction with an iBC ACE Platform controller as a line interface (see page 12)
- Tool programming done with no-cost AcraDyne Tool Manager software using USB cable interface to PC
- Selectable vibration alarm provides tactile feedback
- 99 programs with 6 steps per program available
- Job functionality for sequencing and/or bolt counting
- Programmable
  - Torque
  - Angle
  - RPM
  - Time
  - Fastening direction
- Multicolor LED status screen
- 150,000 results stored on-board

### TORQUE RANGES

#### AB-MTA

- Pistol Tool: 1.0 – 12 Nm
- Straight Tool: 1.0 – 12 Nm
- Angle Tool: 2.5 – 85 Nm

#### AB-CTA

- Pistol Tool: 1.5 – 5,000 Nm\*
- Straight Tool: 1.5 – 12 Nm
- Angle Tool: 1.5 – 120 Nm\*

*\* Torque ranges for pistol & angle tools include Ultra Torque models on page 52*

# AcraDyne Cordless AB Series

## AB-MTA Series Clutch Shut-Off Tool

Measures Torque and Reports Angle

The AB-MTA Series controls torque to the fastener with a precision Clutch Shut-Off mechanism. This technology increases productivity by allowing the tool to run at higher speeds and with minimal overshoot. The highly accurate clutch reduces torque reaction transmitted to the operator through its speed of shut-off at the moment reaction forces are generated.



### AcraDyne Cordless AB-MTA Series Tools

Model	Torque Range		Max Speed RPM	Drive Type	Weight W/O Battery		Tool Dimensions							
	NM	FT-LB			KG	LB	A		B		C		D	
							IN	MM	IN	MM	IN	MM	IN	MM
<b>Pistol</b>														
ABP-MTA06(O)(WQ)(BQ)(WBQ)	1.0 - 6	0.8 - 4.4	1,100	1/4" QC	1.25	2.75	9.1	230	1.02	26	8.56	218	4.5	115
ABP-MTA12(O)(WQ)(BQ)(WBQ)	2.3 - 12	1.7 - 8.9	629	1/4" QC	1.25	2.75	9.1	230	1.02	26	8.56	218	4.5	115
<b>Straight</b>														
ABS-MTA06(O)(WQ)(BQ)(WBQ)	1.0 - 6	0.8 - 4.4	1,100	1/4" QC	1.0	2.2	17.2	437	3.19	81	0.79	20	4.5	115
ABS-MTA12(O)(WQ)(BQ)(WBQ)	2.3 - 12	1.7 - 8.9	629	1/4" QC	1.1	2.4	17.2	437	3.19	81	0.79	20	4.5	115
<b>Angle</b>														
ABN-MTA10(W)(B)(WB)	2.5 - 10	1.9 - 7.4	629	3/8" Sq.	1.35	3.0	17.9	455	3.94	100	1.12	29	4.5	115
ABN-MTA55(W)(WB)	13 - 55	9.6 - 40.6	94	3/8" Sq.	2.7	6.0	22.5	572	7.7	196	1.65	42	4.5	115
ABN-MTA85(W)(B)(WB)	23 - 85	17 - 63	70	3/8" Sq.	2.9	6.4	25.9	658	10.2	259	1.8	46	4.5	115

W = WiFi option    B = Barcode option    Q = Quick Change



For simple adjustment, the MTA series provides easy clutch access.

## CTA Series Transducer Shut-Off Tool

Controls Torque and Angle

The AB-CTA Series provides the most sophisticated option in the AcraDyne cordless tool line. The Transducer Shut-Off means precise torque measurement with high accuracy and traceable results. Transducer shut-off allows speed adjustment and provides the ability to reject conditions such as cross threads and double hits on a fastener.

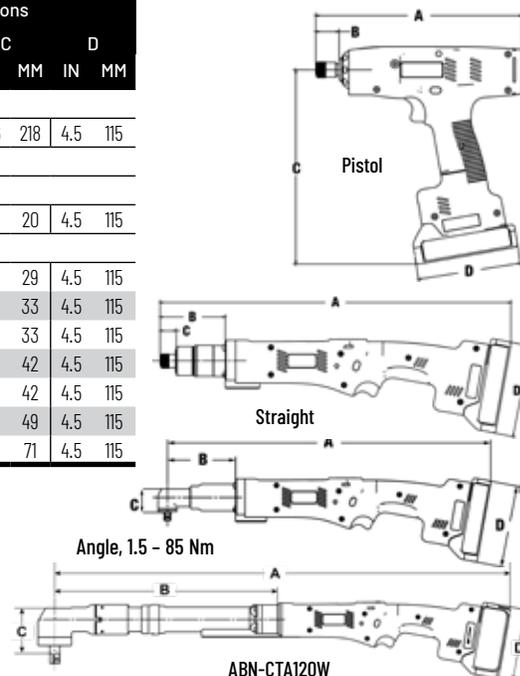


### AcraDyne Cordless AB-CTA Series Tools

Model	Torque Range		Max Speed RPM	Sq. Dr. IN	Weight W/O Battery		Tool Dimensions							
	NM	FT-LB			KG	LB	A		B		C		D	
							IN	MM	IN	MM	IN	MM	IN	MM
<b>Pistol</b>														
ABP-CTA12(O)(WQ)(WBQ)	1.5 - 12	1.1 - 8.9	629	1/4" QC	1.15	2.5	9.1	230	1.02	26	8.56	218	4.5	115
For 120 - 5,000 Nm Pistol Tools, see Ultra Torque models on page 52														
<b>Straight</b>														
ABS-CTA12(WQ)	1.5 - 12	1.1 - 8.9	570	1/4" QC	0.95	2.1	17.2	437	3.19	81	0.79	20	4.5	115
<b>Angle</b>														
ABN-CTA10(W)(B)(WB)	1.5 - 10	1.1 - 7.4	570	1/4" Sq.	1.35	3.0	17.9	455	3.94	100	1.12	29	4.5	115
ABN-CTA12(W)(B)(WB)	2.5 - 12	1.8 - 8.9	420	3/8" Sq.	1.4	3.1	18.1	461	4.14	105	1.29	33	4.5	115
ABN-CTA20(W)(B)(WB)	5 - 20	3.7 - 14.8	300	3/8" Sq.	1.2	2.6	18.1	461	4.14	105	1.29	33	4.5	115
ABN-CTA30(W)(B)(WB)	8 - 30	5.9 - 22.1	170	3/8" Sq.	1.2	2.6	21.6	547	7	179	1.65	42	4.5	115
ABN-CTA55(W)(B)(WB)	15 - 55	11.1 - 40.6	90	3/8" Sq.	1.4	3.1	23.1	587	8.61	219	1.65	42	4.5	115
ABN-CTA85(W)(B)(WB)	20 - 85	14.8 - 62.7	60	1/2" Sq.	2.9	6.4	25.9	658	11.4	290	1.91	49	4.5	115
ABN-CTA120(W)(B)(WB)	35 - 120	25.8 - 88.5	50	1/2" Sq.	3.1	6.8	28.4	720	13.9	352	2.81	71	4.5	115

W = WiFi option    B = Barcode option    Q = Quick Change

Tubenut models also available. Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368.



# AcraDyne Cordless Ultra Torque AB -CTA Nutrunners

## Ultra Torque AB-CTA Series

Unmatched Accuracy for Higher-Torque Applications



### FEATURES AND BENEFITS

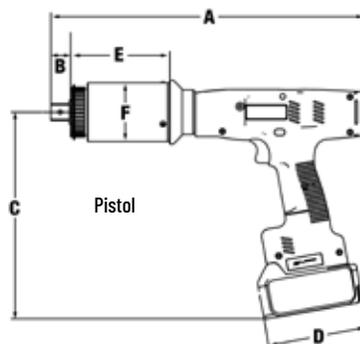
- Transducerized for precise delivery of torque and angle to the fastener
- Usable stand-alone or with AcraDyne iBC series Controller for line controls and/or data integration with QMS systems
- Sophisticated control set with AcraDyne Tool Manager program with 99 PSETS available
- Operator feedback with OLED screen, audible and tactile feedback
- Wide variety of strategies, including:
  - Torque, Angle, Torque Plus Turn, Torque Minus Turn
- Standard Offset, Deep Offset, and Flat Reaction Bars available. Custom reaction bars available by request
- Tool supplied with one battery (P/N AB-B1850LI), see page 53 and standard reaction bar. Charger (see page 53) is purchased separately:
  - AB-C18110 (120VAC) Charger or
  - AB-C18220 (220VAC) Charger



## AcraDyne Cordless ABP-CTA Ultra Torque Series Tools

Model	Max Torque		Max Speed	Sq. Dr. IN	Weight W/O Battery		Tool Dimensions											
	NM	FT-LB	RPM		KG	LB	A		B		C		D		E		F	
							IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
Pistol																		
ABP-CTA120W	120	89	68	3/4"	3.7	8.04	14.1	358	0.89	23	9.3	236	4.5	115	4.5	113	2.65	67
ABP-CTA250W	250	185	27	3/4"	3.7	8.04	14.1	358	0.89	23	9.3	236	4.5	115	4.5	113	2.65	67
ABP-CTA450W	450	332	14	3/4"	3.7	8.04	14.1	358	0.89	23	9.3	236	4.5	115	4.5	113	2.65	67
ABP-CTA650W	650	480	9.4	3/4"	3.7	8.04	14.1	358	0.89	23	9.3	236	4.5	115	4.5	113	2.65	67
ABP-CTA950(W)	950	700	6.4	3/4"	3.7	8.04	14.1	358	0.89	23	9.3	236	4.5	115	4.5	113	2.65	67
ABP-CTA1400W	1,400	1,000	4	1"	4	8.85	14.5	369	1.19	30	9.3	236	4.5	115	4.6	117	3.05	78
ABP-CTA3000W	3,000	2,200	2.1	1"	5.6	12.31	16.0	406	1.19	30	9.3	236	4.5	115	6.0	153	3.05	78
ABP-CTA5000(W)	5,000	3,688	1.3	1"	7.9	17.4	17.7	449	1.19	30	9.3	236	4.5	115	7.1	181	3.59	91

W = WiFi option    B = Barcode option    Q = Quick Change





## Batteries & Chargers

### BATTERIES

- Li-Ion for best energy density
- Deep-discharge protection prevents battery failure
- All AB models utilize the same battery connection and chargers
- Batteries available in 2.5 Ah or 5.5 Ah



AB-B1825LI



AB-B1850LI

Battery Model #	Voltage	Type	Capacity	Weight
AB-B1825LI	18V	Li-Ion	2.5 Ah	.8 Lb/.35 kg
AB-B1850LI	18V	Li-Ion	5.0 Ah	1.3 Lb/.6 kg



AB-C18110

### BATTERY CHARGERS

- Battery defect detection
- Microprocessor-controlled charging: Charging time is dependent on the capacity of the battery
- Reverse polarity protection
- Automatic battery voltage detection
- Multi-bay charger includes battery adapters
- All AB models use the same batteries and chargers

Model	Description	Output	Input	Charging Time	Dimensions (W/O Battery)	Weight
AB-C18110	Quick-charge unit for 110V	14.4V - 18V, 3.0A	110VAC, 50-60Hz	Max 55 min for 2.5 Ah battery	3.39" (W) x 4.21" (H) x 6.02" (D) 86 mm (W) x 107 mm (H) x 153 mm (D)	1.2 Lb/.55 kg
AB-C18220	Quick-charge unit for 220V	14.4V - 18V, 3.0A	220-240VAC, 50-60Hz	Max 55 min for 2.5 Ah battery	3.39" (W) x 4.21" (H) x 6.02" (D) 86 mm (W) x 107 mm (H) x 153 mm (D)	1.2 Lb/.55 kg



AB-PCOLRING

### COLOR INDEX RINGS

Colored rings on AB Series tools make it easy to determine tool torque with a quick glance. Set comes with four colors: blue, yellow, red, and silver.

### SUSPENSION BAIL

Bails attach to tool body for perfect balance and secure suspension.



AB-PBAIL



## MULTIPLE NUTRUNNING SYSTEMS

AIMCO can integrate the AcraDyne tool spindle into a customized Multiple Nutrunner system. From simple systems vertically suspended above the part, to assembly stations that integrate with your line, AIMCO can effectively accommodate your project.

**LET US KNOW YOUR REQUIREMENTS AND WE WILL PROPOSE A SOLUTION TAILORED TO YOUR NEEDS.**



## FEATURES AND BENEFITS

- Nutrunner sequencing - Allows nutrunners to be sequenced at each phase of the tightening process, providing even distribution of torque and load to each fastener. This prevents part damage and distortion
- Snug threshold, final torque in one pass - No need for multiple torque stage sequencing. Fixtured nutrunners save time and effort
- No missed fasteners - Multiple nutrunners have a spindle dedicated to each location, ensuring quality on every rundown on every bolt
- Better residual torques - Synchronized controlled fastening allows residual torque levels to be consistent with the dynamic torque specification
- Saving in cycle time - Compared to using a single nutrunner tool with many rundowns, running all fasteners simultaneously reduces in-station cycle time
- Cost saving benefits - Saving installation cycle time frees operators to handle additional tasks and potentially reduce labor costs
- Collect data – Most common methods of collecting data for quality control and statistical analysis can be implemented from a serial data string using RS232 to formatted data from a network database

## INDUSTRY APPLICATIONS

- Harvester chain-pull assembly, 2-spindle
- Engine flywheel assembly, 3-spindle
- Wheel lug nut assembly, 4-spindle
- Axle u-bolt assembly, 4-spindle
- Gasoline generator assembly, 6-spindle
- Lawn mower motor assembly, 7-spindle
- Air-cooled small vehicle engine assembly, 10-spindle

# Tool Specials



AIMCO can provide customized tooling solutions for even the most unique applications. Let us propose a solution tailored to your needs. Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368.



# Uryu Controlled Pneumatic Pulse Tools

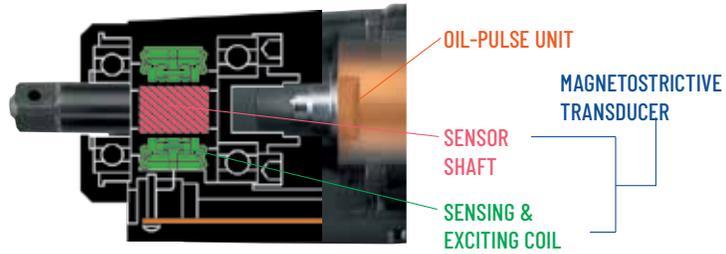
## Uryu Controlled Pulse Tools Offer Ergonomic Solutions for Precise Quality Control and High Productivity

### MAGNETOSTRICTIVE TRANSDUCER

Uryu's unique feature, a brushless Magnetostrictive Transducer, provides real time monitoring of torque delivered to the fastener that is then used by the tool controller in managing the delivery of torque.

The Magnetostrictive Torque Transducer is a non-contact system consisting of the tool anvil surrounded by a pair of sensor coils providing accuracy and durability in a tightening process. This system is accurate and robust in detecting dynamic torque application while fastening.

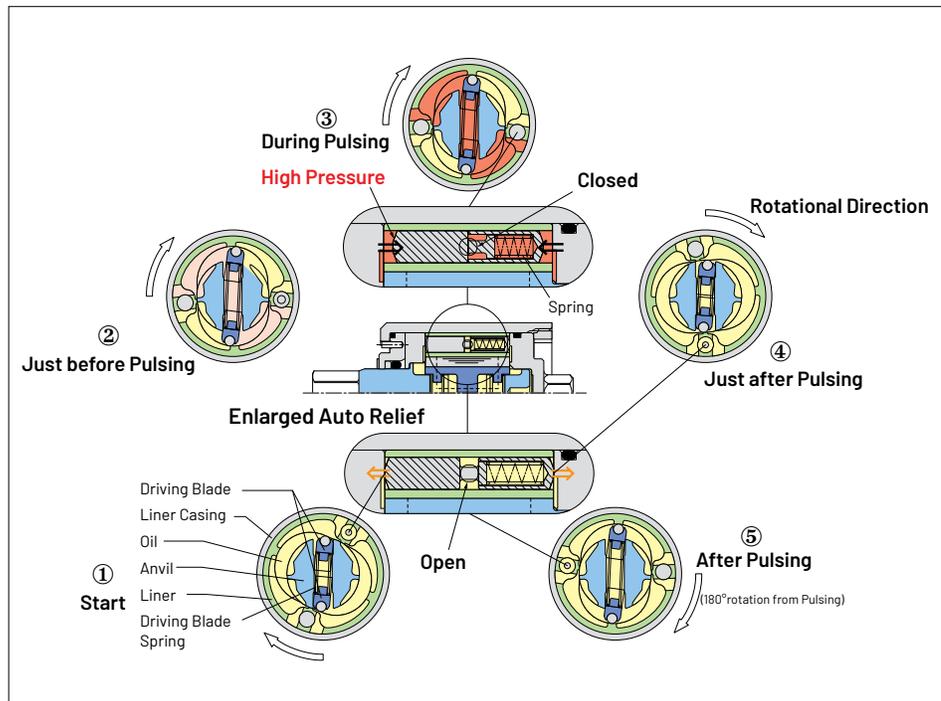
When torque is applied to the tool anvil, tensile stress is detected by the coils as changes in the magnetic field. These magnetic field changes are analyzed and converted to torque signals that a controller uses to shut off the tool.



### AUTO RELIEF TECHNOLOGY

URYU's patented Auto Relief Technology ensures smooth delivery of torque during pulse tool operation.

A relief valve within the pulse unit manages the pressurization of the pulse unit fluid in a proportional manner. This modulation begins the application of torque energy to the fastener in a more controlled manner than has ever before been possible. A benefit of this technology is the elimination of an initial torque spike generated by the inertial mass of the pulse unit which, prior to bolt seating, is influenced by the inertia of the spinning mass.



Uryu's Auto Relief system dynamically responds to the joint condition resulting in more pulses, shorter in duration to meet the target torque. This leads to more accurate fastening over a wide variety of application demands.

# Uryu Controlled Pneumatic Pulse Tools

## UA-MC PNEUMATIC PULSE SERIES €



### FEATURES AND BENEFITS

- Auto Relief Technology provides additional torque control during pulsing events
- External solenoid valve increases power-to-weight ratio by 20%
- Magnetostrictive Transducer provides durability with low size and weight
- All models work with any UEC Series controller and can connect to a wide range of network protocols when used with an AcraDyne iAC series controller
- With torque reaction virtually non-existent, allowing for one-handed operation, the UA-MC provides significantly increased ergonomics

### CONTROLLER OPTIONS

 <p>URYU UEC-4801A Controller (see page 62)</p>	 <p>URYU UEC-5500 Controller for multiple spindles (see page 63)</p>	 <p>AcraDyne iAC Gen IV iAC Controller for transducerized Uryu air tools (see page 11)</p>
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### UA-MC Pneumatic Pulse Tools

Recommended air pressure: 85 PSI

Model	Torque Range		Free Speed RPM	Length MM	Length		Weight		Drive Size IN	Air Usage CFM
	NM	FT-LB			IN	LB	KG			
<b>Pistol Type</b>										
UA-40MC	6.8 - 12.0	5.0 - 8.8	3,600	170	6.7	2.4	1.1	3/8	7.0	
UA-40DMC	6.9 - 12.0	5.0 - 8.8	3,600	170	6.7	2.4	1.1	1/4 QC	7.0	
UA-50MC	16.6 - 29.0	12.2 - 21.4	4,250	170	6.7	2.4	1.1	3/8	8.8	
UA-50DMC	16.6 - 29.0	12.2 - 21.4	4,250	170	6.7	2.4	1.1	1/4	8.8	
UA-60MC	25.1 - 44.0	18.5 - 32.5	5,000	175	6.9	2.5	1.1	3/8	14.0	
UA-70MC	28.5 - 50.0	21.0 - 37.0	5,700	187	7.4	2.7	1.2	3/8	15.8	
UA-80MC	40.0 - 60.0	29.6 - 44.4	6,000	195	7.7	3.4	1.6	3/8	16.8	
UA-90MC	45.7 - 80.0	33.8 - 59.2	5,500	203	8.0	3.7	1.7	1/2	18.6	
UA-100MC	51.4 - 90.0	38.0 - 66.6	5,200	215	8.5	4.5	2.1	1/2	19.3	
UA-130MC	74.2 - 130.0	54.9 - 96.2	4,500	233	9.2	6.2	2.8	1/2	25.6	
UA-150MC	150 - 220	111 - 163	4,350	251	9.9	8.8	4.0	3/4	24.7	
<b>Straight Type</b>										
UA-40SMC	7.0 - 13.0	5.2 - 9.6	3,600	246	9.7	2.7	1.2	3/8	7.0	
UA-40SDMC	5.0 - 12.0	3.7 - 8.9	3,600	246	9.7	2.7	1.2	1/4	7.0	
UA-50SMC	11.0 - 25.0	8.1 - 18.5	4,250	246	9.7	2.7	1.2	3/8	8.8	
UA-50SDMC	9.0 - 23.0	6.7 - 17.0	4,250	246	9.7	2.7	1.2	1/4	8.8	
UA-60SMC	18.0 - 38.0	13.3 - 28.1	5,000	252	10.0	2.9	1.3	3/8	14.0	
UA-60SDMC	16.0 - 34.0	11.8 - 25.2	5,000	252	10.0	2.9	1.3	1/8	14.0	
UA-70SMC	30.0 - 50.0	22.2 - 37.0	5,700	265	10.4	3.1	1.4	3/8	15.8	

Air Inlet: 1/4" N.P.T.

Recommended Air Hose Size: 1/4" I.D. for UA-40MC - UA-50MC 3/8" I.D. for UA-60MC - UA-100MC 1/2" I.D. for UA-130MC - UA-150MC

\*€ logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

# Uryu Controlled Pneumatic Pulse Tools

## UA-AMC PNEUMATIC PULSE SERIES €



### FEATURES AND BENEFITS

- The UA-AMC features angle measurement for improved process control
- Virtually no torque reaction
- Detects cross threading, double hits on the same fastener, stripped and damaged fastener threads, and incorrect fasteners in an application
- Transducer integrated resolver
- Patented Auto Relief Technology provides smooth torque delivery during pulsing events
- Triple chamber air motors for high power output in UA-400AMC, UA-500AMC, and UA-600AMC models

### CONTROLLER OPTIONS



URYU UEC-4801A Controller  
(see page 62)



URYU UEC-5500  
Controller for multiple  
spindles (see page 63)



Gen IV iAC Controller for  
transducerized Uryu air tools  
(see page 11)

### UA-AMC Pneumatic Pulse Tools

Recommended air pressure: 85 PSI

Model	Torque Range		Free Speed RPM	Length			Weight		Drive Size IN	Air Usage CFM
	NM	FT-LB		MM	IN	LB	KG			
UA-400AMC	7 - 13	5.2 - 9.6	3,600	193.0	7.6	3.0	1.4	3/8	7.0	
UA-500AMC	11 - 25	8.1 - 18.4	4,250	193.0	7.6	3.0	1.4	3/8	8.8	
UA-600AMC	18 - 38	13.3 - 28.0	5,000	198.5	7.8	3.1	1.4	3/8	14.0	
UA-700AMC	30 - 50	22.1 - 36.9	5,700	207.5	8.2	3.3	1.5	3/8	15.8	
UA-800AMC	40 - 60	29.5 - 44.3	5,300	215.5	8.5	3.7	1.7	3/8	16.8	
UA-900AMC	40 - 80	29.5 - 59.0	5,500	227.5	9.0	4.7	2.2	1/2	18.6	
UA-1000AMC	50 - 90	36.9 - 66.4	5,200	235.0	9.3	5.4	2.5	1/2	19.3	
UA-1300AMC	85 - 130	62.7 - 95.9	4,500	256.5	10.1	7.2	3.3	1/2	25.6	

Air Inlet: 1/4" N.P.T.

Recommended Air Hose Size: 1/4" I.D. for UA-400AMC - UA-500AMC 3/8" I.D. for UA-600AMC - UA-1000AMC 1/2" I.D. for UA-1300AMC

\*€ logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

## ACRA-PULSE MC PNEUMATIC PULSE SERIES



UXR-1820MC



UXR-2400SMC

### FEATURES AND BENEFITS

- Electronically controlled built-in shut-off valve stops tool as soon as target torque is reached
- LED indicator shows Good or No Good after each tightening

### CONTROLLER OPTIONS



URYU UEC-4801A Controller  
(see page 62)



URYU UEC-5500  
Controller for multiple  
spindles (see page 63)



  
Gen IV iAC Controller for  
transducerized Uryu air tools  
(see page 11)

### UXR-MC Series Tools

Recommended air pressure: 85 PSI

Model	Torque Range		Free Speed RPM	Length		Weight		Drive IN	Noise Level dB(A)	Air Usage CFM
	NM	FT-LB		MM	IN	LB	KG			
Pistol										
UXR-1820MC	160 - 250	117.8 - 183.7	4,600	322	12.7	12.3	5.5	3/4 SQ.	84	24.7
UXR-2000MC	250 - 400	184.4 - 295.1	4,600	355	14	17.6	8.0	3/4 SQ.	85	33.6
Inline										
UXR-2400SMC	350 - 600	258.2 - 442.7	3,300	457	18.0	27.6	12.5	1.0 SQ.	85	35.3

\* External Solenoid Valve (909-749-0) Required

Air Hose Size: 3/8" I.D.

Air Inlet: N.P.T. 1/4"

N.P.T. 3/8" for UXR-1820MC

N.P.T. 1/2" for UXR-2400SMC

## UDP-MC TRANSDUCERIZED ELECTRIC PULSE SERIES



UDP-A600LMC



UDP-A700MC



UDP-A100MC  
UDP-A120MC

### FEATURES AND BENEFITS

- High speed for increased productivity
- Virtually no torque reaction
- Magnetostrictive Transducer provides durability with low size and weight
- Auto relief pulse mechanism for measured application of tightening energy
- Automatic Ventilation System: Cooling fan is activated automatically when pulling the throttle trigger, which reduces heat and increases duty cycle

### CONTROLLER OPTION



  
Gen IV iPC Controller for  
transducerized Uryu DC pulse  
(see page 12)

### UDP-MC Series Tools

Model	Type	Torque Range		Free Speed RPM	Weight LB	Length IN	Drive IN	Sound Level dB(A)	Cable Assembly Connects Tool To Controller
		NM	FT-LB						
UDP-A600LMC	Transducerized	4 - 20	3 - 14.8	4,800	3.4	8.4	3/8 SQ.	74	910-807-0 (5 meter) 910-808-0 (10 meter)
UDP-A700MC	Transducerized	10 - 50	7.4 - 37	4,800	3.9	9.5	3/8 SQ.	76	
UDP-A100MC	Transducerized	45 - 100	33.3 - 74	4,800	6.3	9.8	1/2 SQ.	76	910-567-0 (5 meter) 910-568-0 (10 meter) 910-569-0 (15 meter) 910-625-0 (20 meter)
UDP-A120MC	Transducerized	55 - 120	40.5 - 88.4	4,800	6.3	9.8	1/2 SQ.	78	

\*  logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

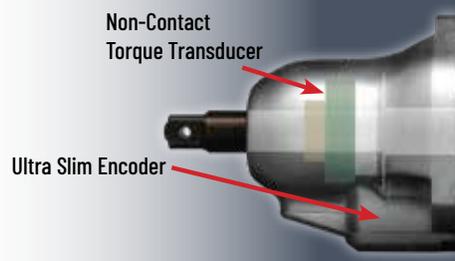
## Revolutionary UBX-AF Battery Tools

### Quantum Leap Forward in Hydraulic Pulse Technology Coupled with a PRECISE Transducerized Battery Tool

UBX-AF Series Shut-Off Battery Oil Pulse Tool incorporates an innovative Phoenix Pulse Unit with more efficient blades and elimination of springs, which **lengthens service intervals by as much as 400%** with a high degree of accuracy and nearly reaction-free operation

#### FEATURES AND BENEFITS

- On-board LED indicates fastening results
- Short duration, non-mechanical pulsing delivers torque to the fastener with near reaction-free feel. High pulse frequency and crisp tool shut off results in accurate delivery of torque
- Number of fastenings per minute (on average).  
Fastening time 0.5 sec.:
  - UBX-AF500Z: 11    – UBX-AF700Z: 9
  - UBX-AF600Z: 10    – UBX-AF900Z: 6
- Fastener quantity per full charge (on a B joint with 1 sec or less freerun):
  - UBX-AF500Z: 440
  - UBX-AF600Z & UBX-AF700Z: 320
  - UBX-AF900Z: 450
- Elliptical movement within pulse unit produces more power per pulse
- Cycle times on most joints are reduced for more efficient production
- Fluid costs reduced by as much as 40% (using OEM recommended fluid)
- Clear & concise data connectivity when integrated with tool controllers



#### UBX-AFZ Series Tools

Model*	Nominal Bolt Size		Torque**		Weight W/O Battery		Free Speed RPM	Length		Sq. Drive IN
	MM	IN	NM	FT-LB	KG	LB		MM	IN	
UBX-AF500Z	6 - 8	1/4 - 5/16	5 - 20	3.7 - 14.8	1.52	3.35	3,600	219	8.7	3/8
UBX-AF600Z	8 - 10	5/16 - 3/8	15 - 40	11.1 - 29.5	1.52	3.35	4,800	219	8.7	3/8
UBX-AF700Z	8 - 12	5/16 - 1/2	25 - 60	18.4 - 44.3	1.56	3.44	4,800	219	8.7	3/8
UBX-AF900Z	10 - 12	3/8 - 1/2	35 - 72	25.8 - 53	1.81	4.0	4,800	255	10	1/2

\* Base model comes with no battery. Batteries are available separately or in tool/kits combinations.

Add "B" to end of the model number to order 1 tool with 1 battery. Add "KIT" to the end of the model number to order a tool kit, which includes 1 tool, 2 batteries, and 1 battery charger.

\*\* Torque range varies depending on the battery size in use.



#### UBX-AFZ Series Batteries and Battery Charger

Battery Model #**	Description	Voltage	Type	Capacity
EYFB32	Battery for UBX-AF500Z	10.8 V	Li-Ion	2.0Ah
EYFB41	Battery for UBX-AF600Z & UBX-AF700Z	14.4V	Li-Ion	2.0Ah
EYFB43B	Battery for UBX-AF600Z & UBX-AF700Z (available for additional cost)	14.4V	Li-Ion	4.0Ah
EYFB50	Battery for UBX-AF900Z	18V	Li-Ion	5.0Ah

\* 4.0Ah battery also available, Part #EYFB43B

#### CONTROLLER OPTIONS



URYU UCC-100Z controller with integrated tool driver (see page 64)



Gen IV iBC-Z Controller for transducerized UBX-AF series (see page 12)



Battery Charger: EYOL82B

Charger Model #	Description	Weight	Input Voltage	Dimensions	Battery Capacity
EYOL82B	Li-Ion battery charger	0.93 kg (2.0 lbs)	120VAC	9.3" D x 7.1" W x 3.6" H	3.0 - 4.2Ah

# Uryu Controllers

## STATE-OF-THE-ART CONTROLLERS FOR PULSE TOOLS

URYU UEC Controllers are available in several models, depending on the tool used and desired features:

- UEC-4801A: Compatible with UA-MC/SMC/AMC, and UXR-MC/SMC series. Single spindle control.
- UEC-4801A-ANGLE: Compatible with UA-MC/SMC/AMC, and UXR-MC/SMC series. Single spindle control with angle monitoring.
- UEC-5500: Multi-spindle capability, compatible with UA-MC/SMC/AMC and UXR-MC/SMC tools
- UCC-100Z: Compatible with UBX-AF battery pulse series only



URYU UEC Controllers					
					
		UEC-4801A	UEC-4801A-ANGLE	UEC-5500	UCC-100Z
		Single-Spindle Control	Single-Spindle Control with Angle Monitoring	Multi-Spindle Control	Built-in Wireless unit for UBX-AF Series Tools
Tool Series					
<u>UA-MC/SMC Series:</u> Pneumatic Pulse Tools 		X	X	X	
<u>UA-AMC Series:</u> Pneumatic Pulse Tool 			X	X (with angle encoder board)	
<u>UXR-MC/SMC Series:</u> Pneumatic Pulse Tool 		X		X	
<u>UDP-MC Series:</u> Electric Oil-Pulse Tool 		Controlled by AcraDyne Gen IV IPC Controller			
<u>UBX-AF Series:</u> Battery Pulse Tool 					X

# Uryu Controllers

## UEC-4801A CONTROLLER



UEC-4801A  
UEC-4801A-ANGLE

USE UEC-4801A  
WITH THE FOLLOWING TOOLS



UA-MC  
Series



UA-AMC  
Series



UA-SMC  
Series



UXR-MC  
Series



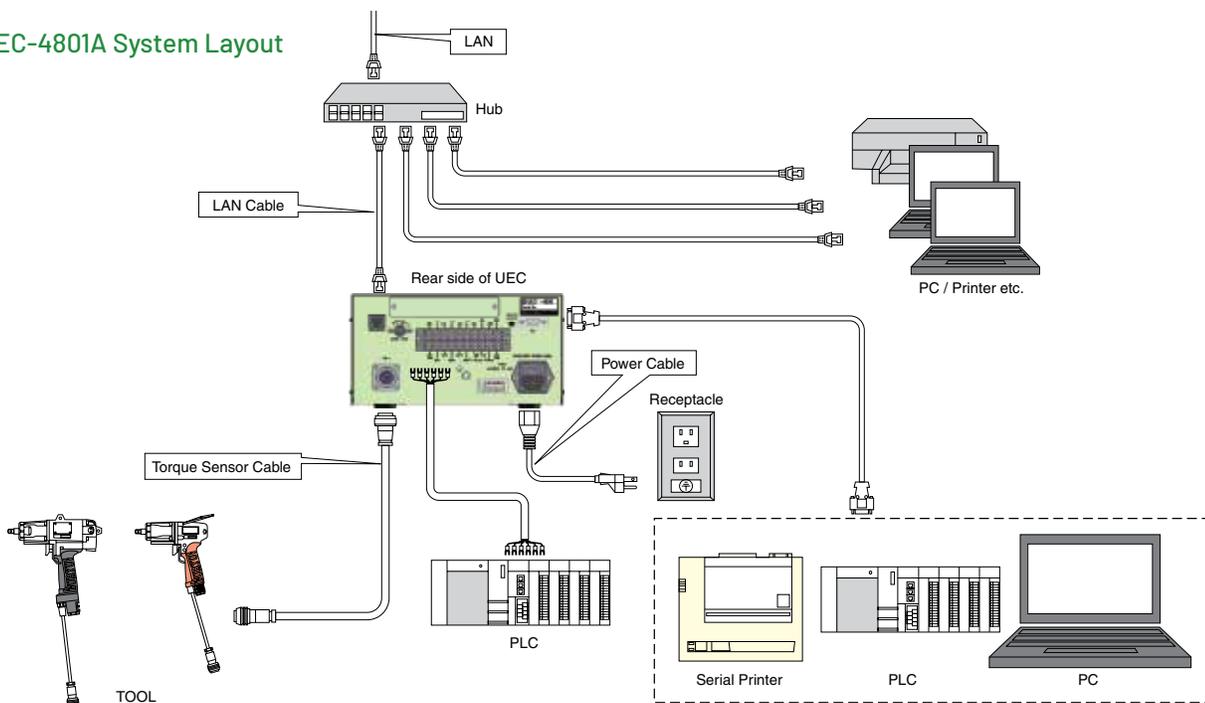
UXR-SMC  
Series

### UEC-4801A

#### FEATURES AND BENEFITS

- Low-cost LCD front panel
- 12,000 data point memory
- On-screen statistical readout. Statistical data can be graphed when connected to a PC. PC Windows-base software included.
- 16 parameter sets available
- Programmable I/O options
- Built-in Ethernet connectivity
- Can be used with Oil-Pulse Tools fitted with a Magnetostrictive Transducer: UA-MC/SMC/AMC series and UXR-MC/SMC Series
- Tracks cumulative fastening numbers and pulse numbers from the start of operation
- Highly reliable torque control and monitor
- MiniSD card slot on back panel allows you to save and read fastening and torque wave data
- UEC-4801A-ANGLE model includes angle monitoring capabilities

### UEC-4801A System Layout



## UEC-5500 CONTROLLER

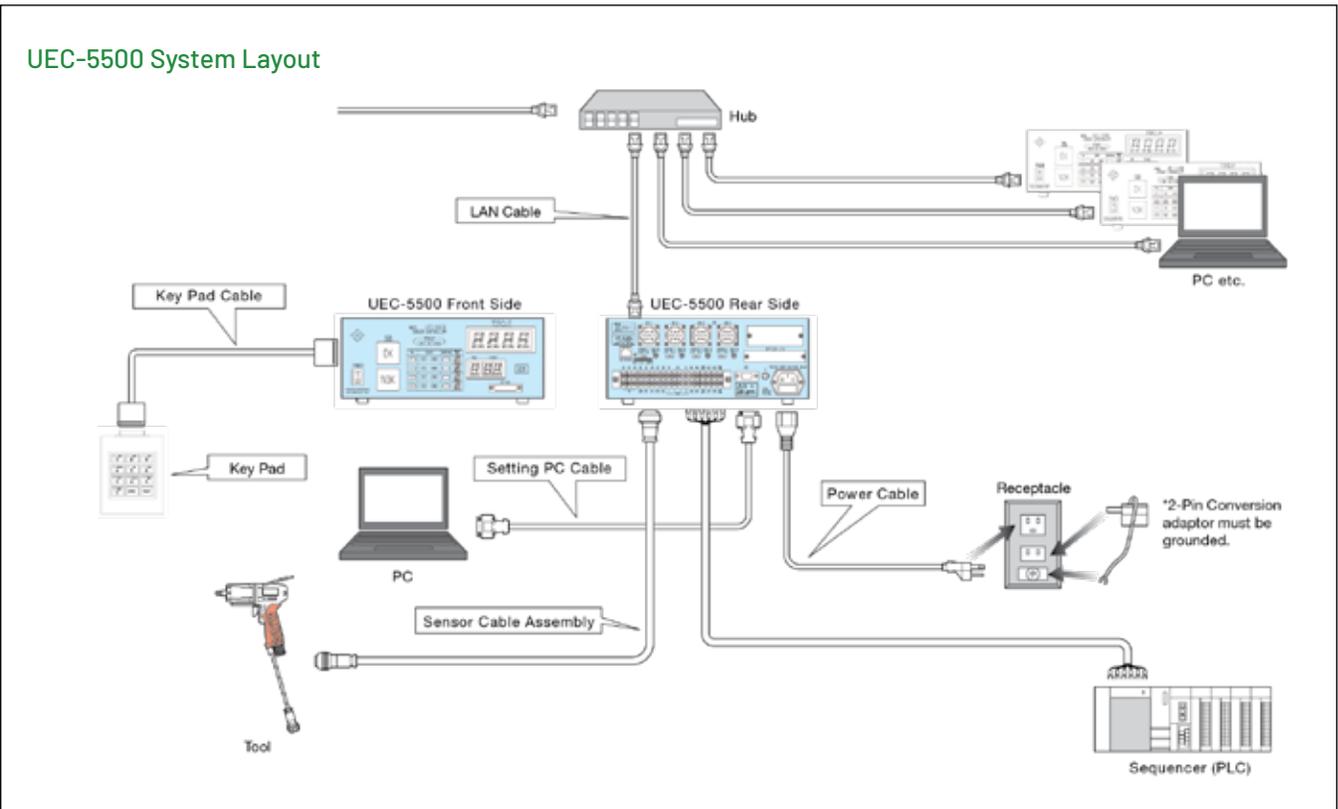


### UEC-5500

#### FEATURES AND BENEFITS

Multi-spindle controller that includes all of the features of the UEC-4801A model, plus it can control 4 spindles simultaneously.

- Easy programming with removable key pad
- 20,000 data point memory per spindle



## UCC-100Z CONTROLLER



UCC-100Z

USE UCC-100Z WITH THE FOLLOWING TOOLS



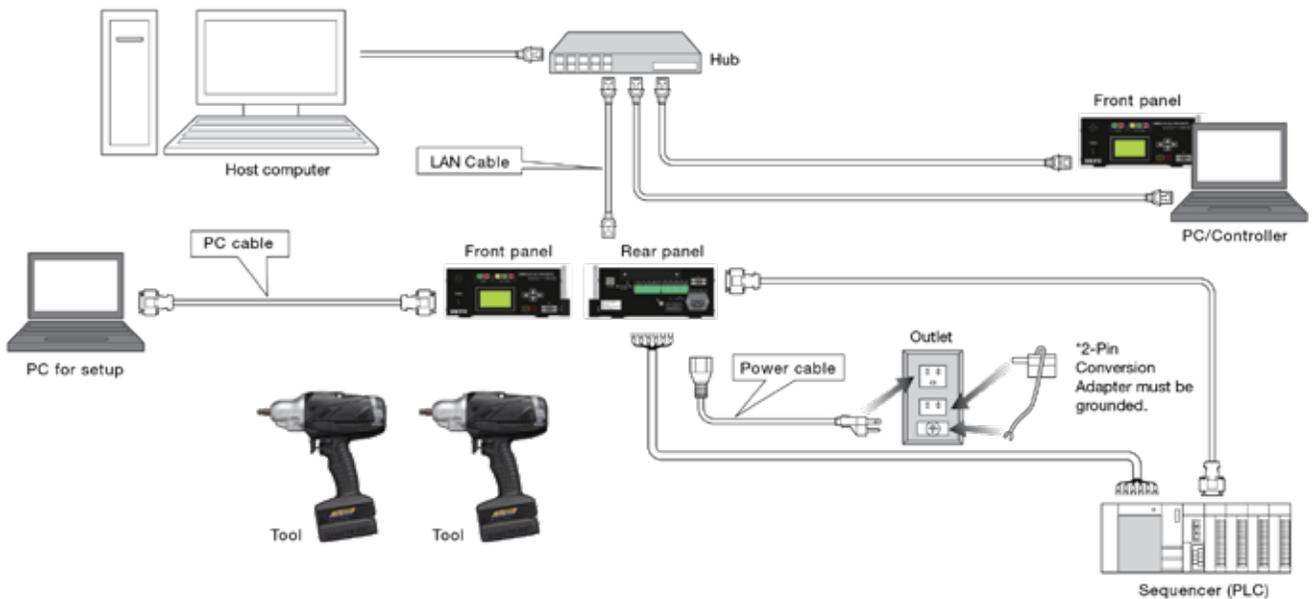
UBX-AF Series

### UCC-100Z

#### FEATURES AND BENEFITS

- Used exclusively for UBX-AF series tools
- Windows-based PC software included
- Programmable tool speeds
- Set up and monitor various control values. Values can be set either on the front panel or on the PC
- Pairing parameter is selectable from 3 types:
  - Manual pairing by dip switches
  - Pairing through software
  - Wireless pairing
- Two UBX-AF tools can be paired to one UCC-100Z controller
- Input/Output check and error messages can be checked from your PC or the front panel, which will notify you with a buzzer

#### UCC-100Z System Layout



# Uryu Controllers

## URYU CONTROLLER SPECIFICATIONS

Model	24v I/O	Uryu Data, Barcode, & Printer	Ethernet Protocols	Touch Panel Display	Angle Monitoring
<b>UEC Controller for UA-AMC/SMC, UA-MC, and UXR-MC/SMC Series</b>					
UEC-4801	X	X	X		
UEC-4801A-ANGLE	X	X	X		X
UEC-5500 (Multi Spindle)	X	X	X		X with angle board
<b>UCC Controller for UBX-AF Series Tools</b>					
UCC-100ZA	X	X	X	X	X



	UEC-4801A / UEC-4801A-ANGLE	UEC-5500	UCC-100Z
Power Supply	AC100~240V ±10%		
Power Frequency	50/60 Hz		
Insulation Protection	DC500V over 10MΩ		
Power Consumption	Approx. 30VA	Approx. 50VA	Approx. 35VA
Weight	Approx. 3.6 kg		Approx. 2.9 kg
Dimensions	265(d) x 222(w) x 120(h)	240(d) x 270(w) x 115(h)	254(d) x 233.5(w) x 106(h) (with antenna)
Main Functions	Torque Monitoring/Control + Fastening Counter		Torque Control + Angle Monitoring + Fastening Counter
Parameter Setup	<ul style="list-style-type: none"> <li>PC (with setup software)</li> <li>Manual Input on front LCD panel</li> </ul>	<ul style="list-style-type: none"> <li>PC (with setup software)</li> <li>Removable key pad</li> </ul>	<ul style="list-style-type: none"> <li>PC (with setup software)</li> <li>Manual Input on front LCD Panel</li> </ul>
Display	Torque Resolution ±2048 (12-Bit A/D) <b>UEC-4801A</b> <ul style="list-style-type: none"> <li>LCD: 20 characters x 4 lines</li> <li>Contents: Work No., Fastening Countdown No., Fastening Time, Pulse No.</li> <li>1-digit digital display (DPM): Work No.</li> <li>4-digit digital display (DPM): Torque</li> </ul>	Torque Resolution ±2048 (12-Bit A/D) <ul style="list-style-type: none"> <li>4-digit digital display: Torque</li> <li>2-digit digital display: Fastening Countdown</li> <li>1-digit digital display (small) x 4: Work No.</li> <li>1-digit digital display (large): x 4: Spindle No.</li> </ul>	Torque Resolution ±2048 (12Bit A/D) <ul style="list-style-type: none"> <li>LCD: 20 Characters x 8 lines</li> <li>Contents: Work No., Fastening Countdown, Fastening Time, Pulse No., Angle, Error message</li> </ul>
LED	COUNT Lamp: OK (Green), NOK (Red) TORQUE Lamp: LOW (Yellow), OK (Green), HIGH (Red)	FASTENING Lamp: LOW (Yellow), OK (Green), HIGH (Red)	
Input Terminal Signal	<ul style="list-style-type: none"> <li>Operation Voltage/Current: DC24V/approx. 10mA</li> <li>6 terminals (free format), VALVE</li> </ul>	<ul style="list-style-type: none"> <li>Drive by Electric Current Input (photo coupler insulation)</li> <li>Voltage: DC24V</li> <li>Insulation Resistance: 4.7KΩ</li> <li>12 terminals (free format), VALVE, +24V</li> </ul>	<ul style="list-style-type: none"> <li>Operation Voltage/Current: DC24V, approx. 10mA</li> <li>6 terminals (programmable). Note: Contact input necessary</li> </ul>
Output Terminal Signal	<ul style="list-style-type: none"> <li>Contact Capacity: AC:125V, 0.3A, DC:30V, 1A</li> <li>6 terminals (free format), VALVE</li> </ul>	<ul style="list-style-type: none"> <li>Contact Capacity: AC:125V, 0.3A, DC:30V, 1A</li> <li>8 terminals (free format), VALVE, +24</li> </ul>	<ul style="list-style-type: none"> <li>Contact Capacity: DC30V, 1A</li> <li>6 Terminals (free format)</li> </ul>

# Uryu Controlled Pulse Tool Cables / Controller Brackets



EC/MCCBL-25



910-808-0



911-023-0

## CONTROLLED PULSE TOOL CABLES

Part #	Description	Function	Length		Tool Series				Controller Platform
			M	FT	UA-MC	UA-AMC	UDP-MC	UXR-MC	UEC-4801A
24330	Standard Tool Cable	Tool Cable to Gen IV iPC Controller					X		
25350	Standard Tool Cable	Tool Cable to Gen IV iPC Controller					X		
24320	Standard Tool Cable	Tool Cable to Gen IV iPC Controller					X		
EC/MCCBL-10	Sensor Cable Assy.	Tool Cable to Controller	3	10	X	X		X	X
EC/MCCBL-25	Sensor Cable Assy.	Tool Cable to Controller	7	25	X	X		X	X
EC/MCCBL-30	Sensor Cable Assy.	Tool Cable to Controller	9	30	X	X		X	X
EC/MCCBL-35	Sensor Cable Assy.	Tool Cable to Controller	10	35	X	X		X	X
EC/MCCBL-40	Sensor Cable Assy.	Tool Cable to Controller	12	40	X	X		X	X
EC/MCCBL-45	Sensor Cable Assy.	Tool Cable to Controller	13	45	X	X		X	X
EC/MCCBL-50	Sensor Cable Assy.	Tool Cable to Controller	15	50	X	X		X	X
EC/MCCBL-55	Sensor Cable Assy.	Tool Cable to Controller	17	55	X	X		X	X
EC/MCCBL-60	Sensor Cable Assy.	Tool Cable to Controller	18	60	X	X		X	X
EC/MCCBL-75	Sensor Cable Assy.	Tool Cable to Controller	22	75	X	X		X	X
911-023-0	Encoder "Y" Cable	Enables Angle Sensor. Splits Tool Cable to Controller	0.3	1		X			X*

## TOOL HOLDERS

Rubber tool holders protect tool's torque sensor when not in use.



Model	Description	Used For
852-644-1	Rubber Tool Holder	UAT 30 - 70 series / UL 30 - 70 series
852-644-1 KIT	Rubber Tool Holder with Bracket	UD-50 / UD-60 series
852-669-1	Rubber Tool Holder	UAT 70 - 90 series / UL 70 - 90 series
852-669-1 KIT	Rubber Tool Holder with Bracket	UA 40MC - 90MC series UW-6 / UW-ST6 series
852-645-1	Rubber Tool Holder	UAT / UL 90 - 130 series UA-100MC
852-645-1 KIT	Rubber Tool Holder with Bracket	UW-8 / UW-9 series

## TOOL HOLDER FOR SMALLER TOOLS



Model	Description
0007.08	Mini tool holder with bracket

The Mini Tool Holder allows operators a safe and stable way to store tools.

- Easily adapt to the worker's position, creating an ergonomic workspace and reducing project setup time
- Durable construction with inner steel reinforcement
- Does not damage plastic power tool bodies
- Holds tools with maximum diameter of 42 mm

# Torque Measurement: Overview

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

## DYNAMIC TORQUE

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

### Advantages:

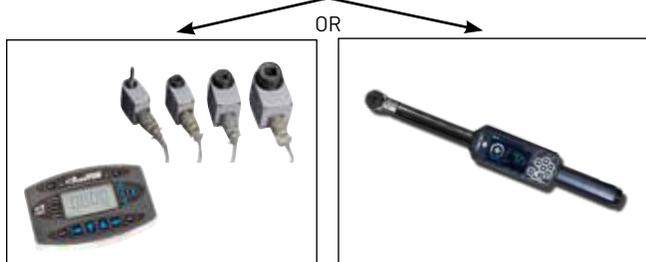
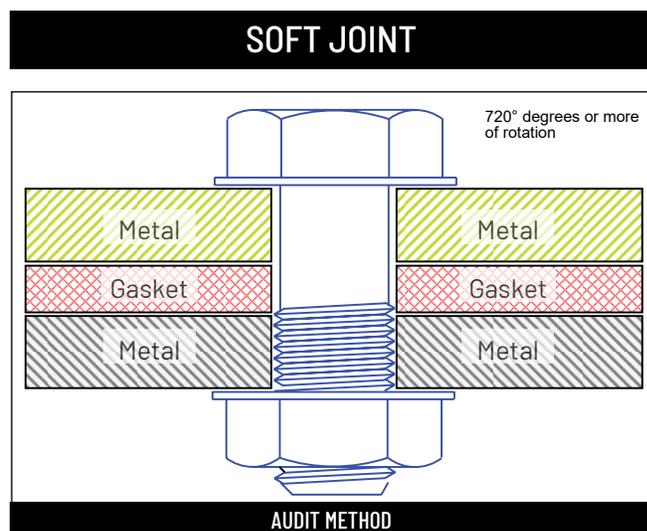
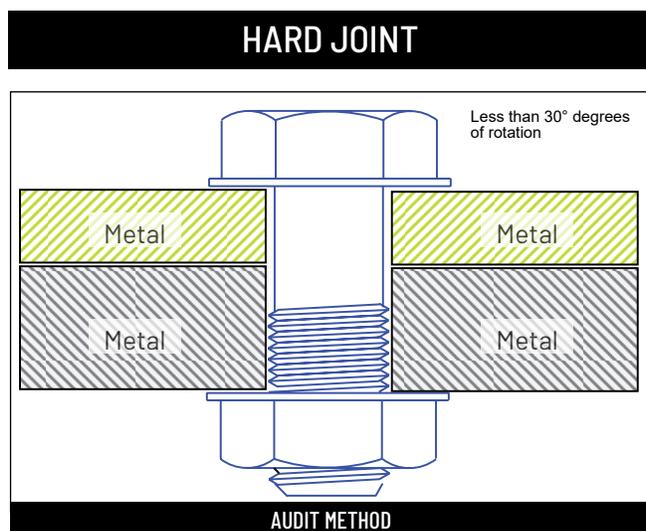
- Reduces operator influence
- Measures applied torque
- Can also include angle of rotation as error proofing parameter

## RESIDUAL TORQUE

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

### Advantages:

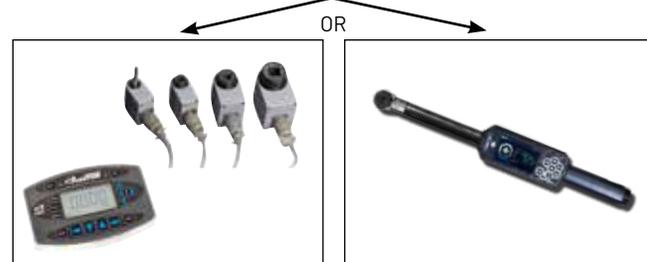
- Easy access to fastener
- Error proofing
- Can detect missed fasteners or joints with significant relaxation



Dynamic Torque: 15 Nm

Residual Torque: 18 Nm

Values as examples only



Dynamic Torque: 15 Nm

Residual Torque: 12 Nm

Values as examples only

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

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

# Torque Measurement: Overview

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

## BEFORE ASSEMBLY

### Tool Capability



#### Is the tool working correctly?

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

#### Equipment used:

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

## DURING ASSEMBLY

### Process Capability



#### How does the tool work with the product being assembled?

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

#### Equipment used:

- Torque Data Collectors/ Analyzers
- Auditor Rotary Transducers

## AFTER ASSEMBLY

### Product Capability



#### Does the finished product meet expectations?

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

#### Equipment used:

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



# Torque Measurement: Overview

## MEASURING QUALITY – PROCESS CAPABILITY

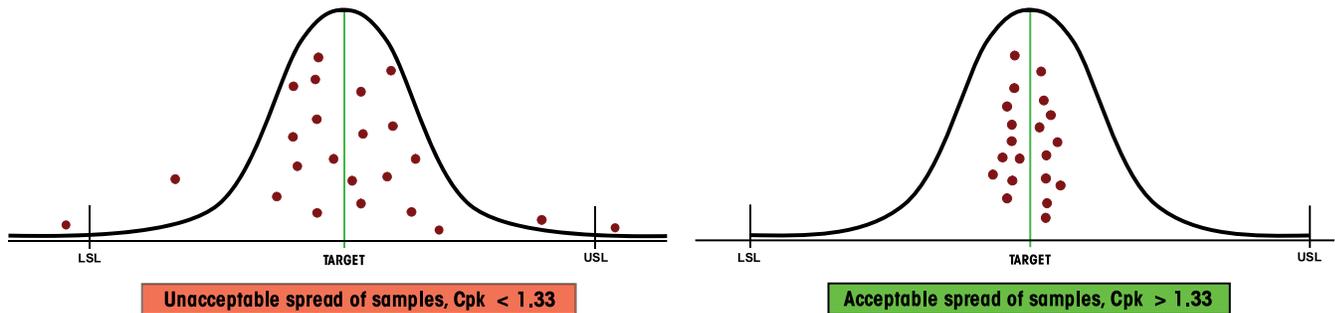
### Statistical Analysis Is An Important Step In Any Quality Control Process

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

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

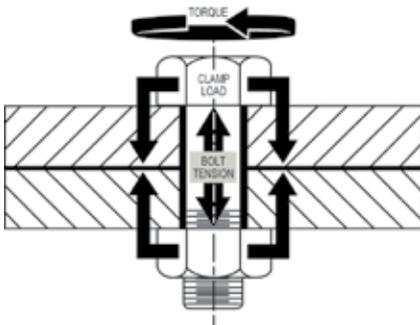
$$Cpk = \text{either } \frac{(USL - \text{Mean})}{(3 \times \sigma)} \text{ or } \frac{(\text{Mean} - LSL)}{(3 \times \sigma)}, \text{ whichever is smaller.}$$

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



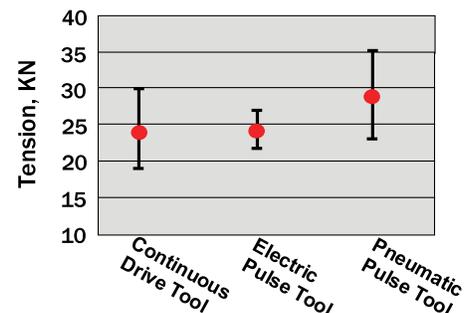
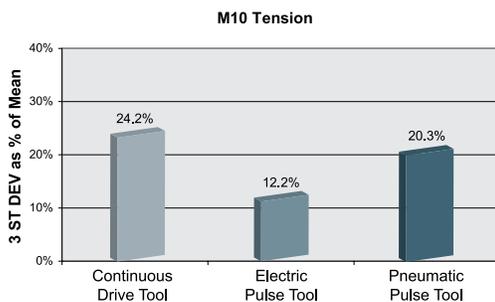
## MEASURING QUALITY – CLAMP LOAD

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



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

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



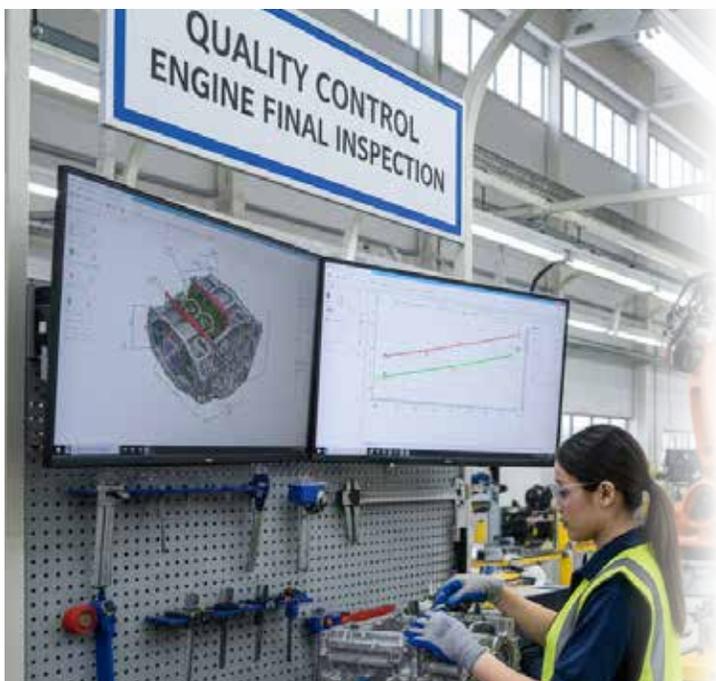
# Torque Testers

## **AUDITOR**™ Torque Testers

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

### FEATURES AND BENEFITS

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



Auditor Torque Testers		
	 <p><b>ATC</b> <b>Auditor Torque Cube</b> Compact vertical or horizontal bench-mount tester with integrated transducer.</p>	 <p><b>ADTT</b> <b>Auditor Desktop Torque Tester</b> Bench mount or line side tester utilizing integrated transducer. Also includes a port for the use of external ARTU and ASTU transducers.</p>
Integrated Transducer Range (values are in full scale)	0.13 - 1,017 Nm    1 in-lb - 750 ft-lb	0.4 - 30 Nm    35 - 265 in-lb
Accuracy	±1% of indicated reading, top 90% of range	± 0.25% of the rated maximum transducer capacity
Data Output to PC	X	X
Integrated Torque Transducer	1	1
External Transducer Port	—	1 Port Connect Auditor ARTU Rotary Transducers and ASTU Stationary Transducers
Number of Stored Readings	999	999
Adjustable Rundown Fixture Included *	X	X
Power	Rechargeable NiMH batteries	5V DC mains power. Two type 'C' cell non-rechargeable batteries (supplied as standard)
Measurement Modes	Track, Peak, First Peak (Click)	Track, Peak, Pulse, Click
Units of Measure Options	In-oz, In-lb, Ft-lb, Nm, CNm, Kg-cm, G-cm, Kg-m	In-oz, In-lb, Ft-lb, Nm, cNm, Kg-cm, Kg-m
Software Included		X
Compatible Cables	• ICBL-USB - USB Serial > PC	• Cable integrated with ARTU and ASTU transducer
Compatible Transducers	• Integrated	• Integrated • ARTU Rotary Transducers • ASTU Stationary Transducers

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

# Auditor Torque Cube



Vertical Models



Horizontal Models



## AUDITOR TORQUE CUBE

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

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

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

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

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

## ATC Auditor Torque Cube Models

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

## Cable

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



ICBL-USB

# Auditor Bench-Mount Testers

## AUDITOR™ ADTT Desktop Torque Tester

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

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

### FEATURES AND BENEFITS

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



ADTT-12-IET



### Technical Specifications

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

### ADTT Torque Tester Models

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



Rundown Adapter  
Included with Tester



ARTU Rotary  
Transducers



ASTU Stationary  
Transducers

### Accessories

Auditor's ADTT Torque Tester includes a standard rundown adapter. Also available from AIMCO are ARTU Rotary Transducers (see page 86 and ASTU Stationary Transducers (see page 87). Contact an AIMCO Customer Service Associate for more information, (800) 852-1368.

### ADTT Software

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

See "Data Collection Software" on page 75 and for more information.

# Auditor Torque Data Analyzers



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

## FEATURES AND BENEFITS

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

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



# Auditor Torque Data Analyzers

## AUDITOR TORQUE DATA ANALYZERS

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

The Auditor Torque Data Analyzer is available in two configurations:

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

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

## ATDA Software

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

See "Data Collection Software" on page 75 and for more information.



## ATDA Auditor Torque Data Analyzer Models

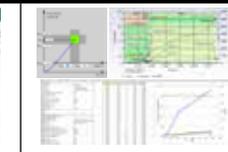
MODEL	DESCRIPTION
ATDA	Auditor Torque Data Analyzer
ATDA-DC	Auditor Torque Data Collector

## ATDA Accessories

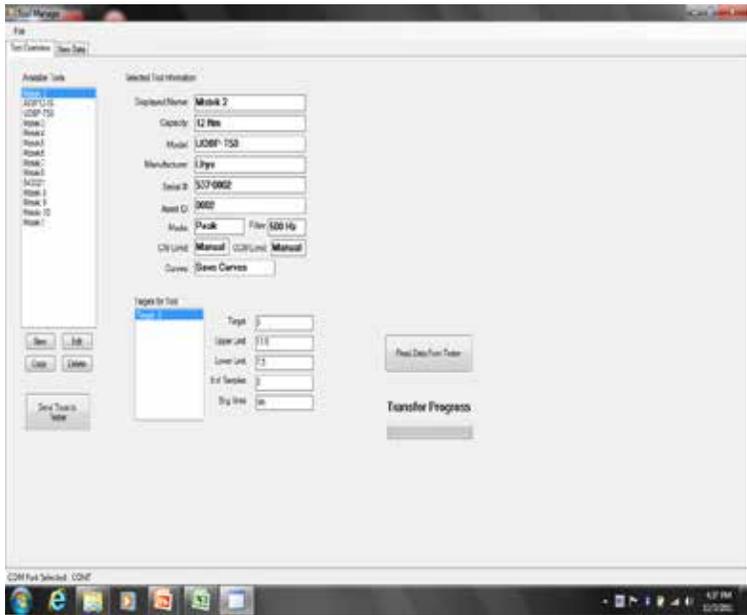
Cables	Model	Description	Compatible External Transducers
	ICBL-USB	Connects to PC	None
	ATDBLIS	Connects to Industry Standard Torque transducers	 ARTIS-T Rotary Torque Only
	ATDBRIS	Connects to Industry Standard Torque/Angle transducers	 ARTIS-TA Rotary Torque /Angle    ASTIS
	ICBL-4P	Intellect Cable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

See "Torque Transducers" on page 86 and "Torque Measurement Cables" on page 90 for more information.

# Auditor Data Collection Software

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

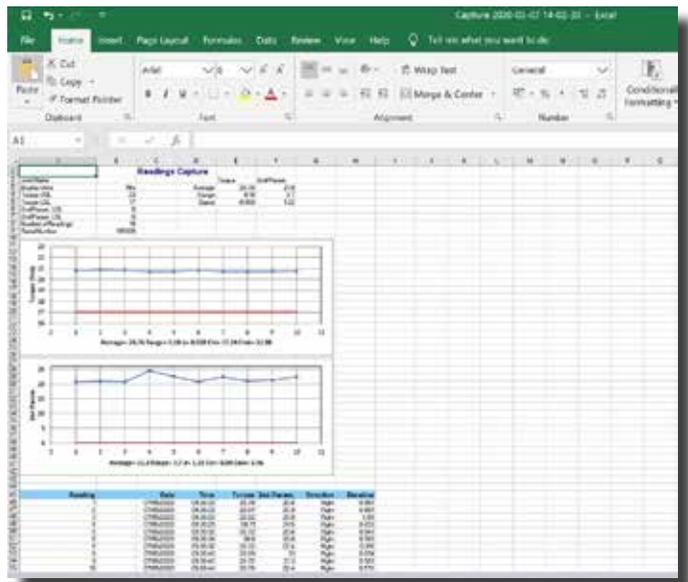
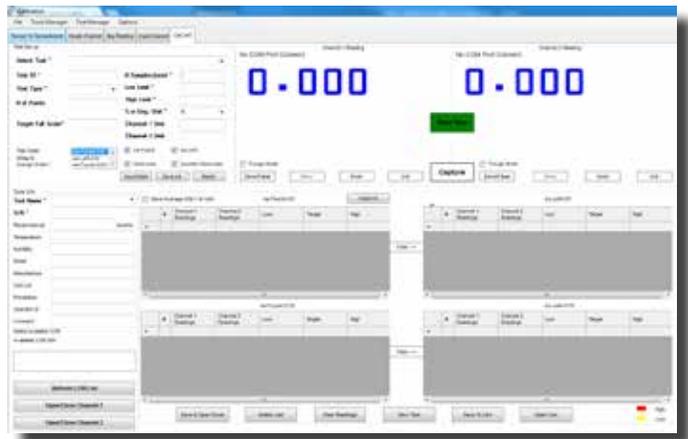
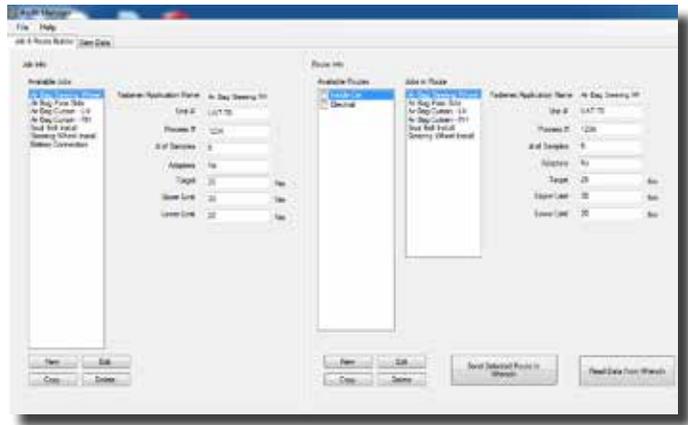
Compatibility					
Torque Tester/Analyzer					
ADTT				X	
ATDA			X		
ATDA-DC	X	X			
Mobile Torque Testing Station					X



Tool Manager Software, Tool Overview Screen

## AUDITOR TOOL MANAGER SOFTWARE

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



### Torque Measurement: High Capacity Test Stands

<b>Features and Benefits</b> <ul style="list-style-type: none"> <li>Advanced test stations for larger tools and higher torque output</li> <li>Configured to meet application requirements</li> <li>Durable industrial grade devices</li> </ul>				
	<b>AHCTS</b>	<b>AHCTS-K</b>	<b>AHDTS</b>	<b>AIMTS</b>
	Auditor High Capacity Test Stand	Auditor High Capacity Test Stand - Hydraulic	Auditor High Capacity Test Stand Dual Transducer	Auditor High Capacity Impact Test Stand
	Designed for testing tools with continuous rotating output spindles and pulse tools.	Specifically designed for hydraulic wrenches testing.	Two transducers, one for rotary tools and one for hydraulic tools. Includes rundown & reaction fixtures with a single display.	Ideal for testing impact wrenches and is recommended to utilize rundown fixtures when testing impacts.
<b>Capacity</b>	6,750 Nm	33,750 Nm	33,750 Nm	2,700 Nm

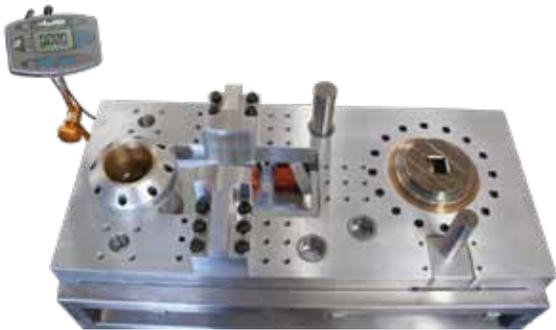
### Accessories

<b>Rundown fixtures</b>				
AHCTS-3/4RDF	X		X	
AHCTS-1RDF	X		X	
AHCTS-1.5RDF	X		X	

### Adapters

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

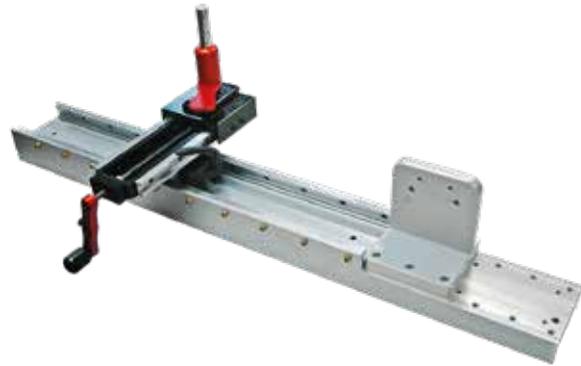






**Torque Measurement: Torque Wrenches**

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





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

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

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

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

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

Open End Head Inserts							
	Model	Description		Model	Description	Model	Description
	9 x 12			14 x 18			
	APTH-12OE7	7 mm OE		APTH-14OE1	1" OE	APTH-14OE25	25 mm OE
	APTH-12OE8	8 mm OE		APTH-14OE13	13 mm OE	APTH-14OE27	27 mm OE
	APTH-12OE9	9 mm OE		APTH-14OE14	14 mm OE	APTH-14OE30	30 mm OE
	APTH-12OE10	10 mm OE		APTH-14OE15	15 mm OE	APTH-14OE32	32 mm OE
	APTH-12OE11	11 mm OE		APTH-14OE16	16 mm OE	APTH-14OE34	34 mm OE
	APTH-12OE12	12 mm OE		APTH-14OE17	17 mm OE	APTH-14OE36	36 mm OE
	APTH-12OE13	13 mm OE		APTH-14OE18	18 mm OE	APTH-14OE38	38 mm OE
	APTH-12OE14	14 mm OE		APTH-14OE19	19 mm OE	APTH-14OE41	41 mm OE
	APTH-12OE15	15 mm OE		APTH-14OE21	21 mm OE	APTH-14OE118	1-1/8" OE
	APTH-12OE16	16 mm OE		APTH-14OE22	22 mm OE	APTH-14OE138	1-3/8" OE
	APTH-12OE17	17 mm OE		APTH-14OE24	24 mm OE		
	APTH-12OE18	18 mm OE					
	APTH-12OE19	19 mm OE					
	APTH-12OE20	20 mm OE					
	APTH-12OE50	1/2" OE					

**"TRANSDUCERS ON A STICK"**

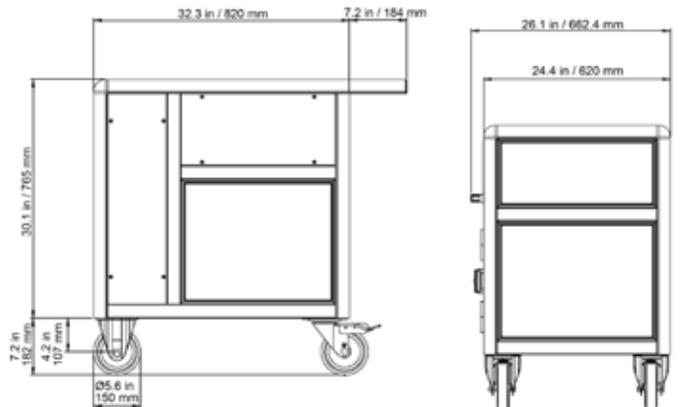
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**AUDITOR™**



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.



**Torque Measurement: Transducers**

**Features and Benefits Superior:**

- Accuracy
- Compatibility
- Durability

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

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

**Used in Conjunction with Analyzer**

ADTT	X		X		
ATDA		X		X	X

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



**AUDITOR STATIONARY TRANSDUCERS**

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**Torque Measurement: Rundown Fixtures**

**Features and Benefits**

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



ARDFA-XXXXHD  
ARDIA-XXXHD

ARDFA-XXXHDS  
ARDIA-XXXHDS

ARDFA-XXXHDE  
ARDIA-XXXHDE

ARDFA-XXX  
ARDIA-XXX

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

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



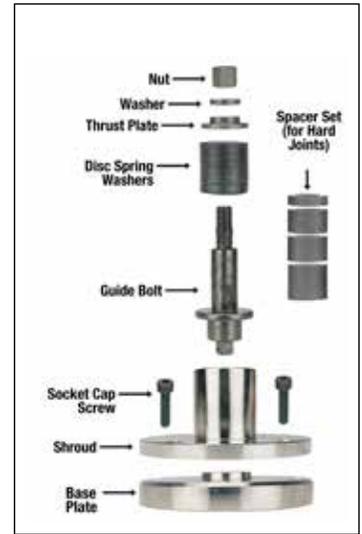
## JOINT KITS

### AJKR & AJKS Joint Kits

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

\*AJKR for use with ARTIS external transducers..

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



## UFT SERIES HYDRAULIC MECHANICAL JOINT SIMULATORS



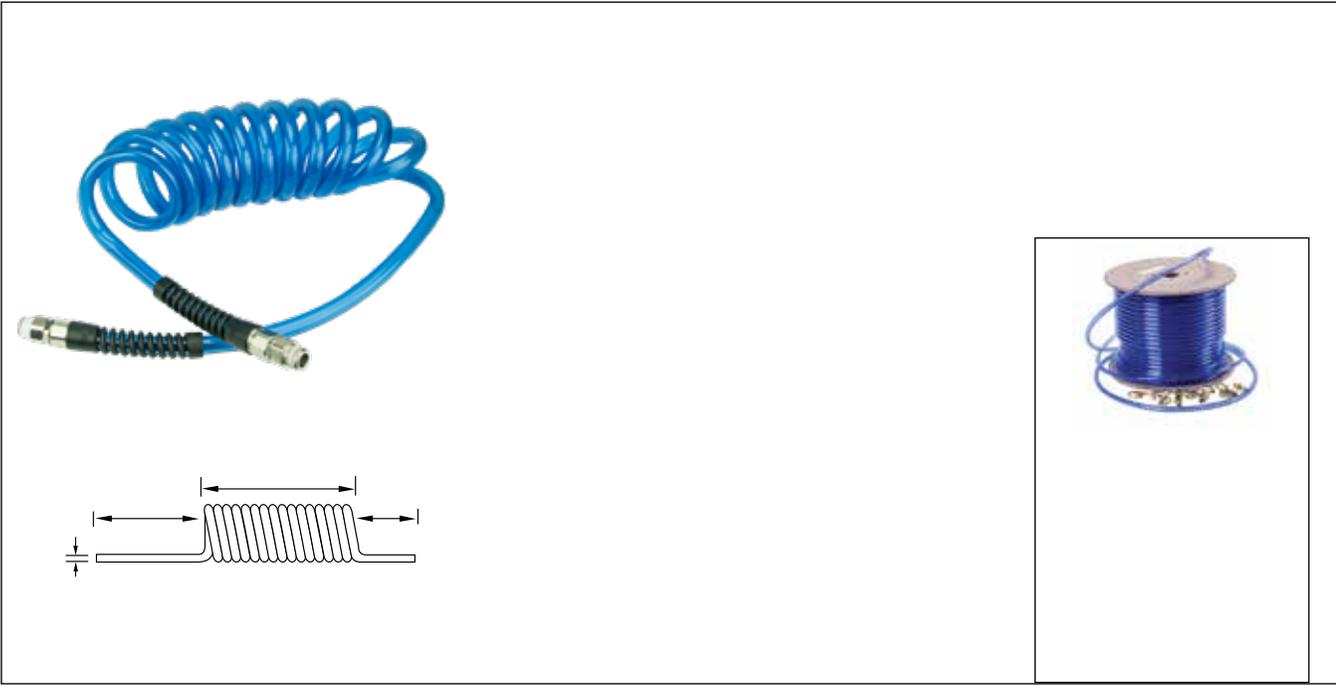


### Torque Measurement Cables

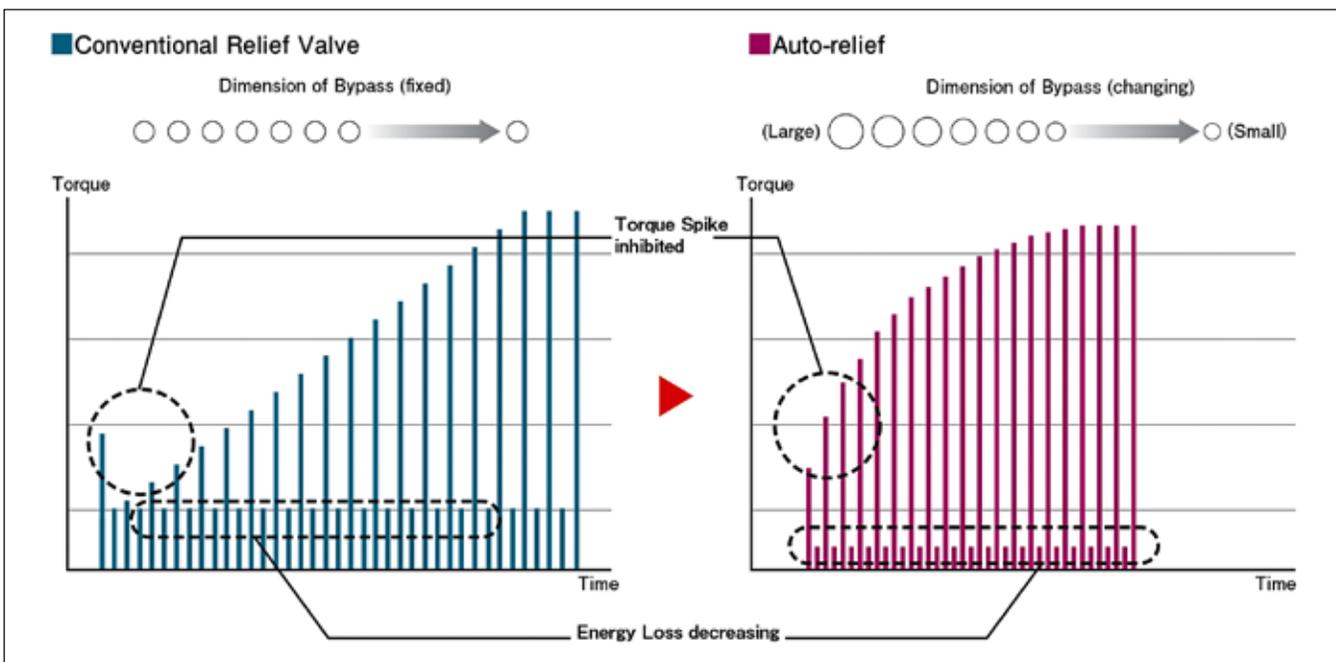
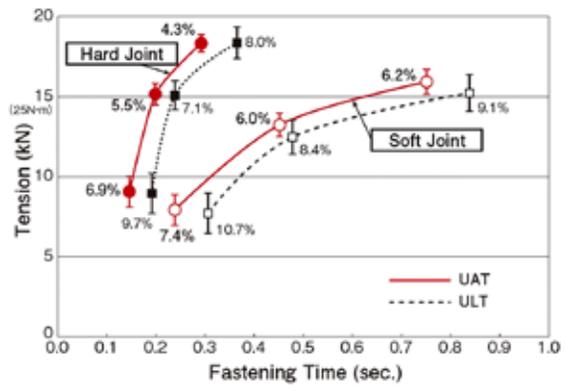
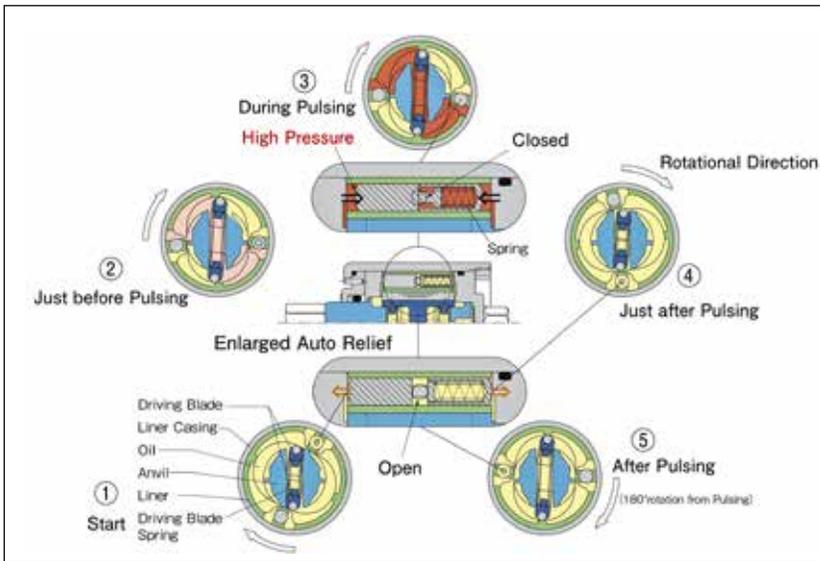
Cables	Model	Description	Compatible Tester	Compatible Transducers
	ICBL-USB	Connects to PC	ATC ATDA ATDA-DC	—
	ATDBLIS	Connects to Industry Standard Torque transducers	ATDA ATDA-DC	 ARTIS-T Rotary Torque Only
	ATDBRIS	Connects to Industry Standard Torque/Angle transducers	ATDA ATDA-DC	 ARTIS-TA Rotary Torque /Angle    ASTIS Stationary
	ICBL-4P	Intellect Cable with identification chip. Connects to Industry Standard Torque Transducers	ATDA ATDA-DC	 ARTIS-T Rotary Torque Only    ASTIS Stationary
	ICBL-10P	Intellect Cable with identification chip. Connects to Industry Standard Torque/Angle Transducers	ATDA ATDA-DC	 ARTIS-TA Rotary Torque /Angle
	ICBL-5000L	Connects to Industry Standard Analog AISI/AISF Transducers	ATDA ATDA-DC	 Analog AISI/AISF
	ICBL-8000DIG	Connects to Industry Standard Digital AISI/AISF Transducers	ATDA ATDA-DC	 Digital AISI/AISF Stationary







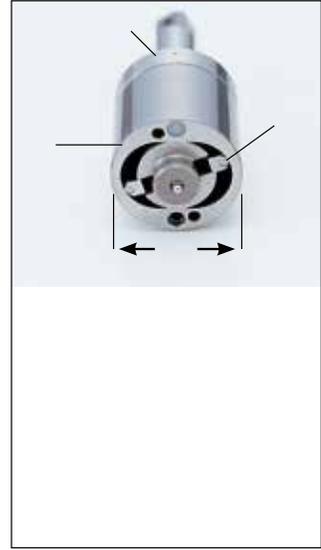






\* **E** logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

€



\*€ logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.



€



\* € logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.



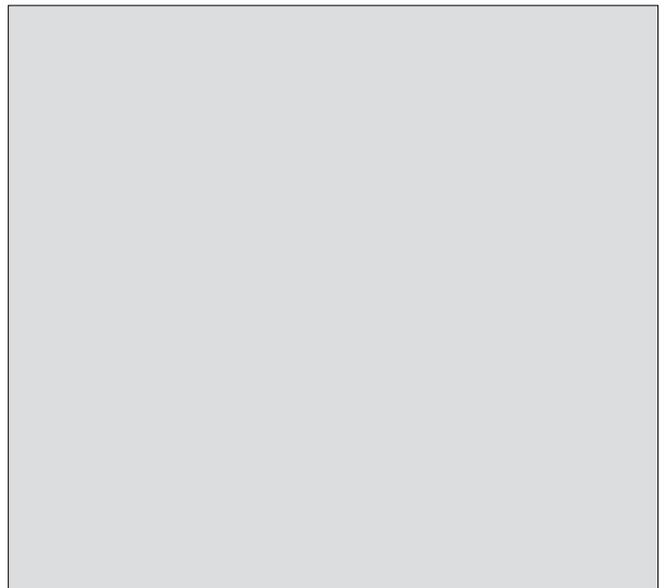
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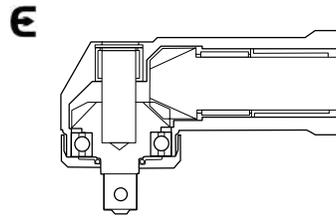
\*€ logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.



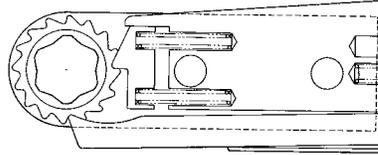
THE POWER OF  
**PULSE**  
WITH THE BENEFITS OF  
**BATTERY**

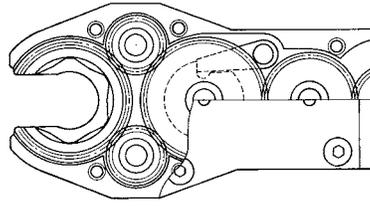




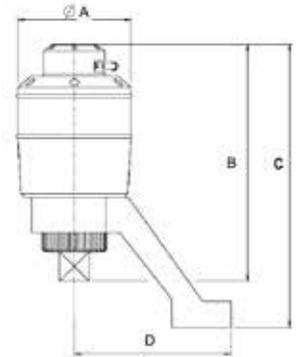
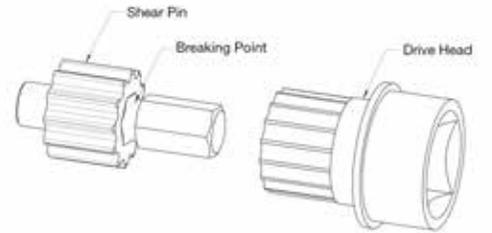


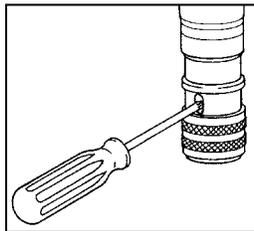
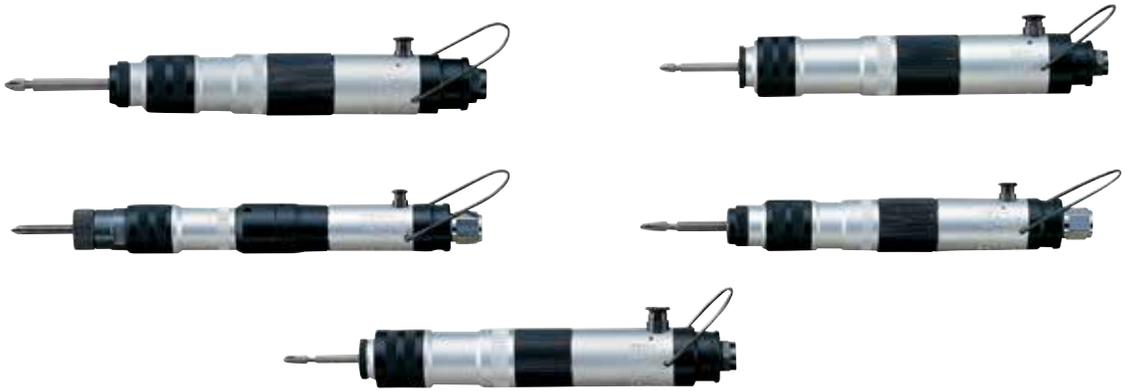
**E** logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.





# DynaTorque





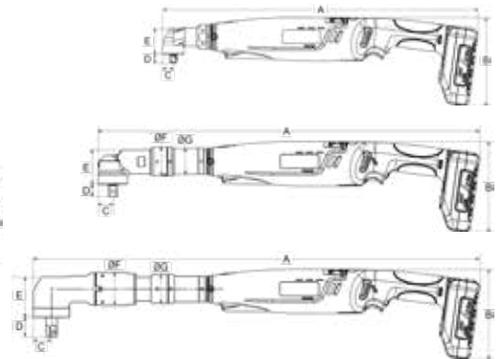
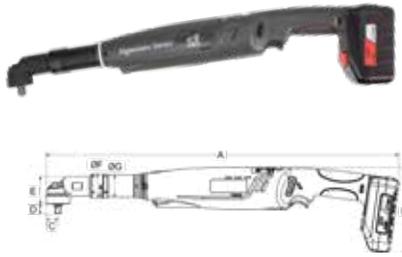








# Signature Series





## FEATURES AND BENEFITS

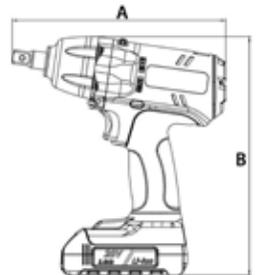
- Brushless motor provides longer motor life and increased efficiency
- Easy-to-read process information lights
- Advanced shut-off system
- LED light for work-area illumination
- Programmable buttons for easy operation
- Li-Ion battery provides long battery life
- Mini USB port for connection to optional programmer (SPC-2PGM)



### LED Indicators

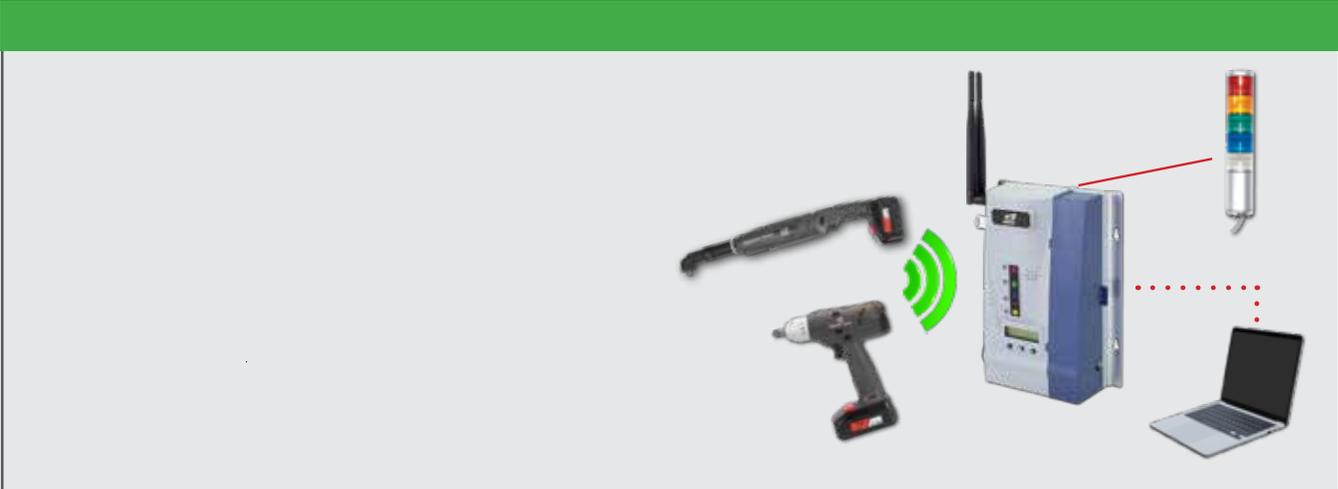
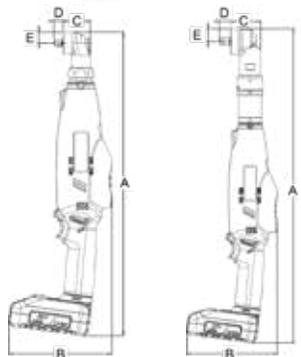
- Reverse
- OK
- NOK
- ★ Tool Warning
- ★ Low Battery Warning
- Change Battery

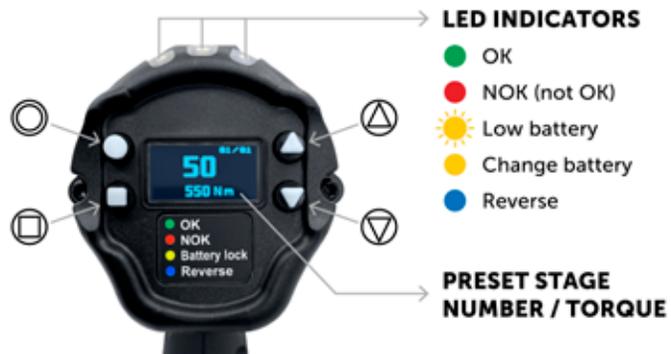
# Signature Series

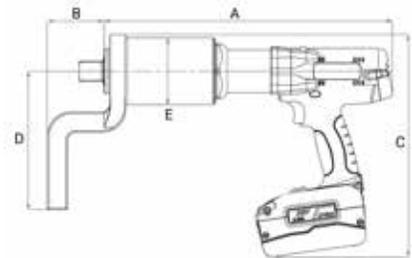


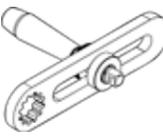


- LED Indicators
- Reverse
  - OK
  - NOK
  - ☀ Low Battery Warning
  - Change Battery







Reaction Bar	Model	Used for Tool Models
Standard Offset Reaction Bar - Included with Tool		
	SPCC-250RB	SPCC-P25050
	SPCC-550RB	SPCC-P55075
	SPCC-900-1200RB	SPCC-P90075 SPCC-P120075
	SPCC-1500-2500RB	SPCC-P15001 SPCC-P25001
	SPCC-4000RB	SPCC-P40001
Sliding Reaction Bar - Available for additional purchase		
	SPCC-250RBSL	SPCC-P25050
	SPCC-550RBSL	SPCC-P55075
	SPCC-900-1200RBSL	SPCC-P90075 SPCC-P120075
	SPCC-1500-2500RBSL	SPCC-P15001 SPCC-P25001



**Plectra**  SERIES





Pistol Grip Handle







## UW Series Twin Hammer Angle Impact Wrenches

Recommended Air Pressure: 85 psi

Model	Capacity		Torque Range (Approx)		Speed RPM	Overall Length		Weight		From Center to Outside		Sq. Dr. or Hex Size IN	Noise Level dB(A)	Average Air Consumption
	MM	IN	NM	FT-LB		MM	IN	KG	LB	MM	IN			
UW-6CShRK	8	5/16	19 - 41	14 - 30	7,300	282	11.1	1.7	3.8	27.5	1.1	3/8 Sq.	94	10.5
UW-13CSK	13	1/2	75 - 200	55 - 148	6,500	374	14.7	5.2	11.4	39.0	1.5	1/2 Sq.	97	26.5

Air Hose Size: 3/8" I.D.

Air Inlet: N.P.T. 1/4"

NOTE: Additional models available. Please contact AIMCO, 1-503-254-6600, or toll free 1-800-852-1368.





### UG Series Horizontal Grinder

Recommended Air Pressure: 85 psi

Model*	Capacity (Wheel Size)	Speed RPM	Rated Horsepower HP	Overall Length		Weight		Noise Level dB(A)	Average Air Consumption CFM
	IN			MM	IN	KG	LB		
UG-1250L-72	5	7,200	1.0	436	17.2	2.8	6.2	88	32.7





UD-60-04  
UD-60-07

UD-60-15  
UD-60-20

UD-60-29



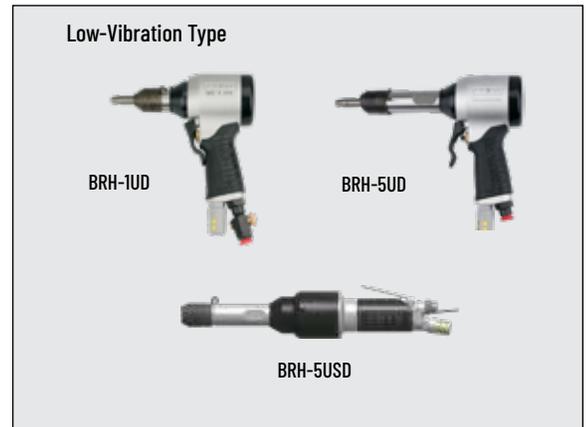
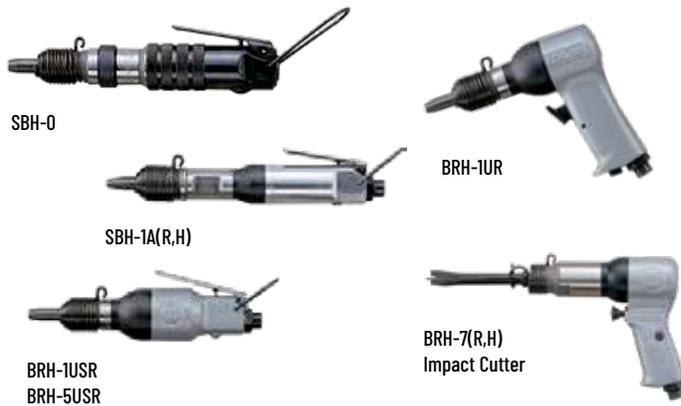
UD-80-04  
UD-80-07

UD-80-12

UD-50S-22  
UD-50S-45

UD-50S-45A  
UD-50S-45A\*

# Percussion Tools



## SBH / BRH Series Riveting Hammers Impact Cutter

Recommended Air Pressure: 85 psi

Model	Capacity		Blow Per Min. BPM	Overall Length		Weight		Piston Diameter		Piston Stroke		Noise Level dB(A)	Average Air Consumption CFM
	Duralumin IN	Steel IN		MM	IN	KG	LB	MM	IN	MM	IN		
<b>Standard Type</b>													
SBH-0	#2	—	6,500	123	4.8	0.3	0.7	10.0	0.4	23	0.9	90	3.5
SBH-1A(R,H)*	#3	—	4,000	209	8.2	0.9	1.9	11.1	0.4	56	2.2	92	5.0
BRH-1UR	#5	#3	2,800	122	4.9	1.1	2.4	14.3	0.6	38	1.5	95	12.0
BRH-1USR	#5	#3	2,800	180	7.1	1.0	2.2	14.3	0.6	38	1.5	95	12.0
BRH-5USR	1/4	#10	1,800	246	9.7	1.5	3.2	12.7	0.5	100	4.0	95	13.0
<b>Low-Vibration Type</b>													
BRH-1UD(R)*	#5	#3	2,800	122	4.9	1.1	2.4	14.3	0.6	38	1.5	95	12.0
BRH-5UD(R)*	1/4	#10	1,800	189	7.4	1.4	3.1	12.7	0.5	100	4.0	95	13.0
BRH-5USD	1/4	#10	2,800	211	10.7	1.7	3.6	12.7	0.6	100	1.5	95	12.0
<b>Impact Cutter</b>													
BRH-7(R,H)*	—	—	3,400	168	6.6	1.6	3.6	19.1	0.8	50	2.0	100	17.0

Air Hose Size: 3/8" I.D.    Air Inlet: N.P.T. 1/4"    \* R - Round Bushing    H - Hex Bushing



## CB / RH Series One Shot Hammers

Recommended Air Pressure: 85 psi

Model	Blow Power LB	Rivet Set Dia x Length IN	Shank Diameter		Stroke		Length		Weight	
			MM	IN	MM	IN	MM	IN	LB	KG
RH-25	20.4	—	10.2	0.401	29.8	1.2	213	8.4	2.0	0.9
RH-80	27.6	—	10.2	0.401	29.8	1.2	254	10.0	2.9	0.3
RH-90	103	—	10.2	0.401	29.8	1.2	328	12.9	3.5	1.6
RH-100Z	78.1	—	10.2	0.401	29.8	1.2	328	12.9	3.9	1.8
RH-200	139	—	10.2	0.401	39.8	1.2	341	13.4	4.6	2.1

Air Hose Size: 3/8" I.D.    Air Inlet: N.P.T. 1/4"    NOTE: Additional models available. Please contact AIMCO, 1-503-254-6600, or toll free 1-800-852-1368.

# A-50 Screw Presenters

For semi-automated assembly, look no further than AIMCO's Acra-Feed screw presenters

## Productive

- One-hand operation eliminates manual handling of screws. Screw is presented to operator for easy magnetic or vacuum pickup
- Keeps workspace clear of dropped fasteners and stray fasteners from getting into assemblies
- Large hopper holds approximately 1,000 - 1,500 fasteners, and the oscillating hopper design provides a quick feed rate – up to two (2) screws per second
- Solid design – no tie downs or straps required
- Perfect for contract or dedicated assembly
- Switch rails in minutes for different screw sizes

## Ergonomic

- Allows for fewer arm and hand movements

## Reliable

- Heavy duty industrial design
- Modular design for easy repairs

## Quality

- Uses existing or our new torque control drivers



Acra-Feed® Screw Presenter



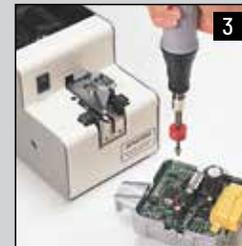
## FASTENING IN 3 EASY STEPS



1  
Load screws into the hopper. There is no side to load unit and no gates to limit capacity.



2  
Address screw with magnetized bit.



3  
Bring screw to workpiece and fasten parts.



A-50B-1  
Standard Screw Presenter



A-50BRBTC-4  
Compact Robotic Screw Presenter



A-50BRBT-1  
Robotic Screw Presenter

## A-50 Standard Screw Presenters

For manual assembly stations where the operator must otherwise pick up and hold fasteners by hand.

Model	Additional Rail Part No.	Screw Size		Max Screw Length	
		IN	MM	IN	MM
A-50A-0	AR-0	#0	1.4	.39	10
A-50A-1.7	AR-1.7	-	1.7	.39	10
A-50B-1	BR-1	#1	2.0	.75	18
A-50B-2	BR-2	#2	2.3	.75	18
A-50B-3	BR-3	#3	2.6	.75	18
A-50B-4	BR-4	#4	3.0	.75	18
A-50C-6	CR-6	#6	3.5	.75	18
A-50C-8	CR-8	#6-8	4.0	.75	18
A-50C-10	CR-10	#10	5.0	.75	18

Dimensions: 5.1 (W) x 8.5 (L) x 5.3 (H) Weight: 7.0 lb.

## A-50(B)C)RBTC Compact Robotic Screw Presenters

For automated systems or manual systems using vacuum-assist to pick up nonferrous fasteners when work space is limited.

Model	Additional Rail Part No.	Nominal Screw Size		Max Screw Length	
		IN	MM	IN	MM
A-50BRBTC-2	BR-RBTC-2	#2	2.3	.700	18
A-50CRBTC-6	CR-RBTC-6	#6	3.5	.700	18

Dimensions: 7.2 (L) x 4.9 (W) x 5.7 (H) Weight: 6.7 lb.

## A-50ARBT Robotic Screw Presenters

For automated fastening systems or manual systems using vacuum assist to pick up non-ferrous fasteners.

Model	Additional Rail Part No.	Screw Size		Max Screw Length	
		IN	MM	IN	MM
A-50ARBT-0	AR-RBT-0	#0	1.4	.39	10
A-50ARBT-1.7	AR-RBT-1.7	-	1.7	.39	10
A-50BRBT-1	BR-RBT-1	#1	2.0	.70	18
A-50BRBT-2	BR-RBT-2	#2	2.3	.70	18
A-50BRBT-4	BR-RBT-4	#4	3.0	.70	18
A-50CRBT-6	CR-RBT-6	#6	3.5	.70	18
A-50CRBT-8	CR-RBT-8	#6-8	4.0	.70	18
A-50CRBT-10	CR-RBT-10	#10	5.0	.70	18

Dimensions: 5.1" (W) x 10.8" (L) x 5.3" (H) Weight: 9.2 lb.

## Optional Accessories

Model	Part No.
Mag-0-Net Bit Magnetizer	AM1/4Z, AM5Z, AM3/16Z, AM5/16Z

# Acra-Feed Automatic Screw Feed Systems

Reduces Cycle Time By Approximately Two Seconds Per Fastener

## FEATURES AND BENEFITS

- Delivers fastener directly to the driver
- For #2 - #10 fasteners, up to 1 inch long
- Available for captive washer type screws (A315V)
- Feed speed of up to 1 screw per second
- System includes feeder, hose assembly, air screwdriver, and FRL

## Productive

- Eliminates reaching for fasteners
- Most jams are easily cleared on the line
- Frees operator's hand for productive use
- Large hopper holds between 1,000 - 5,000 fasteners

## Ergonomic

- Eliminates manual handling of fasteners and shavings
- Reduces workspace clutter
- Keeps workspace clean of dropped fasteners
- Torque reaction of standard driver is minimal and can be eliminated with optional Ergo-Arm

## Reliable

- 3-year warranty
- Rocking Bar design only operates as needed
- "Photo eyes" maximize motor life
- Design eliminates burrs and shavings by minimal handling of the fastener
- Durable head assembly lasts for years



## Acra-Feed Screw Feed Systems

Model	Applicable Screws	Screw Length		Hopper Capacity	Max Fastening Speed	Weight (Lb)	Dimensions L x W x H (In)
		IN	MM				
A2100 Series	M2-M5 (#2 - #10)	1/4-1	6-25	1,500cc (1,000-5,000 pcs)*	60 screws/min*	68	7 x 17 x 16

\* Dependent on screw size

Delivery Hose: 10 ft    Air Pressure: 85 psi    Power: AC 110V, 20W, AC 220V by request. Contact AIMCO at 1-503-254-6600, or toll free 1-800-852-1368.

**HOW TO ORDER:** Acra-Feed systems are application-specific and configured to the unique workpiece and requirements of the user. Quotations are provided from a review of sample workpieces, 25 fasteners, and required torque specifications.

# Ergo Arm Tool Support Systems

## ERGO ARMS



### Versatile Ergo Arms Absorb Torque Reaction while Perfectly Balancing Tool Weight

AIMCO's Parallel Ergo Arms reduce operator fatigue for electric and pneumatic tools. The durable, lightweight construction provides minimal resistance and low inertia during high-cycle use. The adjustable height, length, and elbowed joint increases accessibility with minimal travel to the fastening application.

#### Tools recommended for use with this arm:

- AcraDyne 1000 and 2000 Series
- Uryu LT Series Pneumatic Screwdrivers
- Electra Electric Screwdrivers
- Inline Tools

## FEATURES AND BENEFITS

- Allows for freedom of movement
- Vertical adjustment eliminates cross-threading
- Fixtured tool increases repeatability
- Adjustable reach

### Parallel Ergo Arms

Model	Arm Style	Tool Mount	Reach		Capacity		Maximum Torque*	
			IN	MM	LB	KG	IN-LB	NM
OIL CYLINDER								
AD-D1098-P	Parallel	Air manifold	4 - 33	102 - 838	0 - 15	0 - 7	110	12

\* Max torque allowed may be dependent on tool clutch type and joint rate

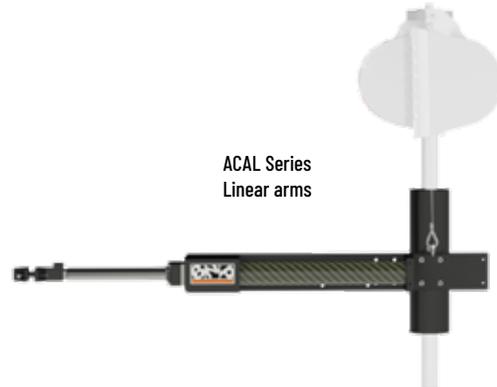
# Carbon Torque Arms

## ACA SERIES TELESCOPING CARBON ARMS

### Telescoping Carbon Arms



ACA Series Carbon Arms are lightweight, yet strong devices designed to absorb torque reactive forces. Highly flexible and modular, they adapt to a wide range of tools, and eliminate hazards to operators during fastening processes.

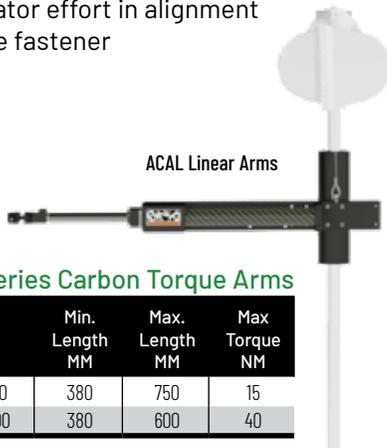


### Tools recommended for use with this arm:

- Continuous Drive Electric and Pneumatic Tools
- Pulse Tools
- Screwdrivers

## FEATURES AND BENEFITS

- Absorb torque reaction from continuous drive tools
- Counter balance tool weight when configured with AIMCO's wide array of tool balancers or with integrated balancer kits
- Orient tool correctly to the workpiece to improve efficiency and reduce operator effort in alignment to the fastener



### ACAL Series Carbon Torque Arms

Model	Min. Length MM	Max. Length MM	Max Torque NM
ACAL-15-600	380	750	15
ACAL-40-600	380	600	40



### ACA Series Carbon Torque Arms

Model	Min. Length MM	Max. Length MM	Max Torque NM
ACA10-1000	495	1,105	10
ACA10-1500	665	1,605	10
ACA15-1000	486	1,066	15
ACA15-1500	646	1,556	15
ACA15-2000	806	2,046	15
ACA40-1000	486	1,066	40
ACA40-1500	646	1,556	40
ACA40-2000	806	2,046	40
ACA40-2500	986	2,576	40
ACA80-1500	658	1,586	80
ACA80-2000	828	2,078	80
ACA80-2500	998	2,588	80
ACA150-1500	668	1,578	150
ACA150-2000	838	1,918	150
ACA150-2500	1003	2,248	150
ACA220-1500	668	1,578	220
ACA220-2000	838	2,088	220
ACA220-2500	1,003	2,588	220

### ACA-V Series Carbon Torque Arms

Model	Min. Length MM	Max. Length MM	Max Torque NM
ACA-V15-1000	777	1,345	15
ACA-V15-1500	937	1,835	15
ACA-V15-2000	1,097	2,325	15
ACA-V40-1000	777	1,345	40
ACA-V40-1500	937	1,835	40
ACA-V40-2000	1,097	2,325	40
ACA-V40-2500K	1,277	2,855	40
ACA-V80-1500	949	1,865	80
ACA-V80-2000	1,119	2,357	80
ACA-V80-2500	1,289	2,867	80
ACA-V150-1500	960	1,957.5	150
ACA-V150-2000	1,129	2,357	150
ACA-V150-2500	1,294	2,862	150
ACA-V220-1500	960	1,957.5	220
ACA-V220-2000	1,129	2,357	220
ACA-V220-2500	1,294	2,867	220

# Carbon Torque Arms

## ACA-P2 CARBON SMART ARM

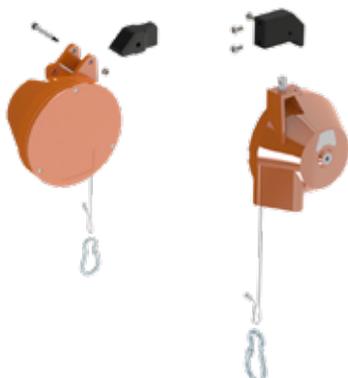


ACA-P240-2500

### ACA-P2 Series Carbon Torque Smart Arm w/X,Y Axis Encoders

(Requires ACA-POSIX System or AcraDyne's Gen IV Smart Arm System)

Model	Min. Length MM	Max. Length MM	Max Torque NM
ACA-P215-1000	647	1,227	15
ACA-P215-1500	803	1,713	15
ACA-P215-2000	977	2,227	15
ACA-P240-1000	647	1,227	40
ACA-P240-1500	803	1,713	40
ACA-P240-2000	977	2,227	40
ACA-P240-2500	1,157	2,737	40
ACA-P280-1500	830	1,757	80
ACA-P280-2000	1,000	2,249	80
ACA-P280-2500	1,169	2,760	80
ACA-P2150-1500	839	1,749	150
ACA-P2150-2000	1,009	2,087	150
ACA-P2150-2500	1,174	2,419	150
ACA-P2220-1500	839	1,749	220
ACA-P2220-2000	1,009	2,259	220
ACA-P2220-2500	1,174	2,760	220



### ACA Series Balancer Kits

Model	Min. Capacity KG	Max. Capacity KG
For ACA-P2 Smart Arms		
ACA-P2BK-4	2	4
ACA-P2BK-6	4	6
ACA-P2BK-8	6	8
ACA-P2BK-10	8	10
ACA-P2BK-14	10	14
For ACAL Linear Arms		
ACAL-BK2.4-5.2	2.4	5.2

## Encoder Options for ACA-P2 Smart Arm

### AcraDyne Gen IV Smart Arm System With Process Visualization

AcraDyne's Gen IV controller with smart arm capability and process visualization provides an advanced error-proofing solution to ensure the quality of your fastening operation. The capability is integrated into the Gen IV controller – no need for an external PC or software. See page 16 for more details.



#### FEATURES AND BENEFITS

- Easy to follow visual guidance directly on the Gen IV controller graphical screen
- Easy to program and set up
- Low cost solution vs. competitive offerings
- Modular – can be added at any time to an existing AcraDyne system using the Gen IV controller

### ACA-POSIX Positioning System

The compact, self-contained ACA-Posix process visualization system guides operators through their assigned tasks. It connects to ACA-P2 series arms with integrated balancer kits.



#### FEATURES AND BENEFITS

- Intuitive and simple programming on 7" color LCD touch-screen display
- Store up to 500 unique assembly sequences
- Communicates directly with Power Tool controllers over digital I/O
- Store and display product images or CAD drawings. Images/drawings are displayed with targeting sequences to direct operators easily through their task
- Output for synchronizing with line controls

# Carbon Torque Arms

## TOOL HOLDERS FOR TELESCOPING CARBON ARMS

### Tool Holders For AcraDyne Tools

Model	Description
ACAH-40PS1000	Tool holder for carbon fiber arm, AcraDyne 1000 series pistol/straight tools, 40 Nm
ACAH-80PS3-5000	Tool holder for carbon fiber arm, AcraDyne 3000/5000 series pistol/straight tools, 80 Nm
ACAH-150PS3-5000	Tool holder for carbon fiber arm, AcraDyne 3000/5000 series pistol/straight tools, 150 Nm

### General Tool Holders

	Model	Description	Min. Tool Grip MM	Max. Tool Grip MM
For Telescopic Arms				
Base Tool Holders				
	ACAH-15	Base tool holder 4 screws	27	45
	ACAH-40-80	Base tool holder 4 screws	30	60
	ACAH-150-220	Base tool holder 4 screws	40	70
Multi-Position Tool Holders				
	ACAH-15-MPE2745	Multi-position tool holder interface	27	45
	ACAH-150220-MPE4070	Multi position tool holder	40	70
	ACAH-4080-MPE2745	Multi-position tool holder	27	45
Swivel Tool Holders				
	ACAH-S154080	Swivel tool holder 20 to 35 mm	20	35
	ACAH-SL15150	Swivel tool holder 40 to 55 mm	40	55



# Carbon Torque Tubes

## ACCT & ACPTT SERIES CARBON TORQUE TUBES



ACPTT Series  
Anti-Rotation Torque Tube  
with articulation support



ACCT Series  
Anti-Rotation Torque Tube

Carbon Torque Tubes Are Universal Arms With an Exclusive Design For Maximum Tightening Flexibility

ACCT and ACPTT series carbon torque tubes provide smooth and accurate tool travel from bearing splined shaft construction. These sturdy arms are available in torque ranges of 15 – 80 Nm. They can be used with a variety of tool holders.

Tools recommended for use with this arm:

- Continuous Drive Electric and Pneumatic Tools
- Pulse Tools



ACTT-V40-850 300

### ACTT Series Carbon Torque Tubes

Model	Min. Length Mm	Max. Length MM	Max Torque NM
ACTT-V15-600 150	150	600	15
ACTT-V15-800 300	300	800	15
ACTT-V40-600 150	150	600	40
ACTT-V40-850 300	300	850	40
ACTT-V40-1500 600	600	1,500	40
ACTT-V80-900 300	300	900	80
ACTT-V80-1500 600	600	1,500	80
ACTT-V80-2100 900	900	2,100	80

### FEATURES AND BENEFITS

- Universal arm with an exclusive design for maximum tightening flexibility
- Provides articulated anti-rotation support when torque reaction is parallel to arm axis

# Carbon Torque Tubes

## ACPTT SERIES CARBON TORQUE TUBES FOR ACSA ARTICULATING SUPPORT ARMS

### ACPTT TORQUE TUBES



#### FEATURES AND BENEFITS

- ACPTT arm designed for use with the ACSA articulating support arm
- ACPTT carbon torque tube provides articulated anti-rotation support when torque reaction is parallel to arm axis
- The ACPTT/ACSA articulating support arm system allows torque reaction arm installation when the workplace can't accommodate suspended overhead structures

#### ACPTT Torque Tubes

Model	Min. Length MM	Max. Length MM	Max Torque NM
ACPTT-V15-510 150	150	600	15
ACPTT-V15-710 300	300	800	15
ACPTT-V40-510 150	150	600	40
ACPTT-V40-760 300	300	850	40
ACPTT-V40-1410 600	600	1,500	40
ACPTT-V80-810 300	300	900	80
ACPTT-V80-1410 600	600	1,500	80



#### ACSA ARTICULATING SUPPORT ARM

ACPTT Torque Tube\*

\* Support arm, torque tube, balancer, tool holder, and tool shown for concept.

Items sold separately

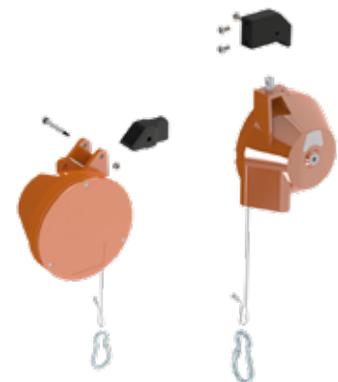
#### ACSA Articulating Support Arms

Model	Max Reach MM	Max Height MM	Max Torque NM
ACSA-600-1500	600	1,500	80
ACSA-800-1500	800	1,500	80
ACSA-1000-1500	1,000	1,500	80



#### ACAHTT Tool Holders For ACTT & ACPTT Anti-Rotation Carbon Arms

Model	Description	Min. Tool Grip MM	Max. Tool Grip MM
ACAHTT-15A-3060	Angle Tool Holder, 15 Nm Arm	30	60
ACAHTT-15S-2745	Straight Tool Holder, 15 Nm Arm	27	45
ACAHTT-4080A-3165	Angle Tool Holder, 40/80 Nm Arms	31	65
ACAHTT-4080ASL-3165	Angle Tool Holder with Swivel, 40/80 Nm Arms	31	5
ACAHTT-40S-2745	Straight Tool Holder, 40/80 Nm Arms	27	45



#### ACTT Series Balancer Kit

Model	Min. Capacity KG	Max. Capacity KG
ACTT-BK46	4	6

# GCI Torque Reaction Arms

## GCI ARTICULATING TORQUE ARMS



### Rugged Flexibility for Even the Most Complex Torque Applications

Constructed of durable aluminum, steel, or carbon fiber, GCI Torque Arms are available with multiple tool mounting options for application specifics. These highly ergonomic and user friendly arms are available in torque ranges of 150 Nm to 7,500 Nm and with reaches ranging up to 20 ft.

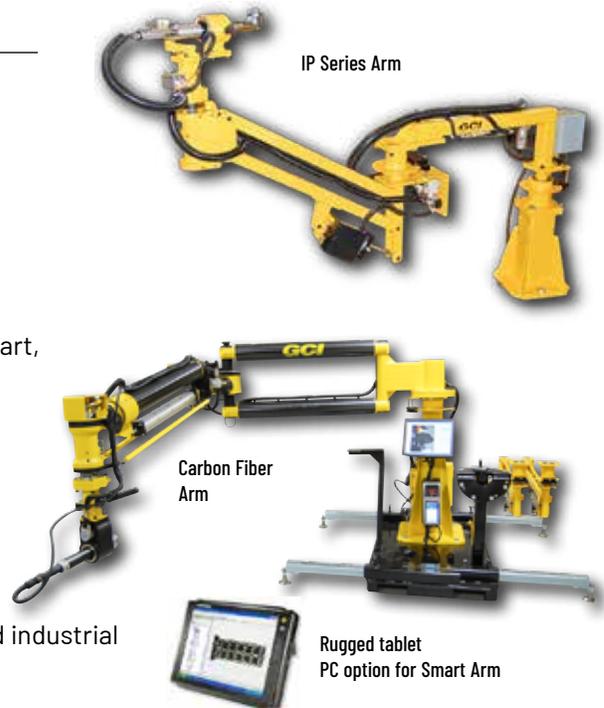
GCI arms can be designed as Smart Arms with two encoder options: PC-based AdaptiCS software (see page 136) and AcraDyne's Gen IV smart arm system with process visualization (see page 16). This complete Smart Arm system error-proofs even the most complex torque applications.

#### Tools recommended for use with this arm:

- AcraDyne 3000 - 9000 Series HT tools
- Angle (AEN 5000 series only)
- Straight (AES)
- Axial (AEJ)
- Pistol (AEP)
- Fixtured (AEF)

## FEATURES AND BENEFITS

- Available in aluminum, steel, or carbon fiber
- Configurable installation: floor mount, wall mount, overhead mount, bench mount, or portable base
- Braking options: manual/automatic, discrete braking with verification, parking brakes, and electric/pneumatic actuation
- Tool holding options: fixed position, gimbal mount
- Integrated tool start/brake actuation capability: tool trigger start, remote tool start
- Smart Arm Capabilities:
  - Available with as many as six encoders to monitor all desirable tool positions relative to application
  - Two encoder options:
    - ▶ AcraDyne Gen IV Smart Arm System with Process Visualization (see page 16)
    - ▶ AdaptiCS PC-based software that runs on an integrated industrial PC or on a customer supplied PC (see page 136)

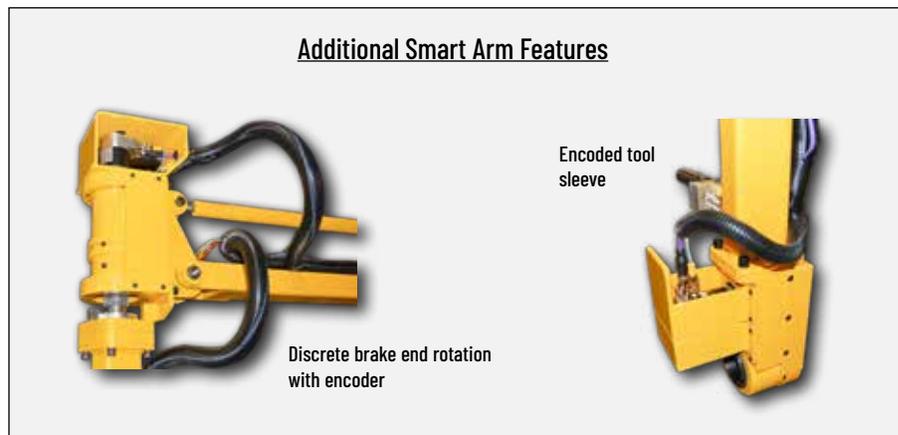
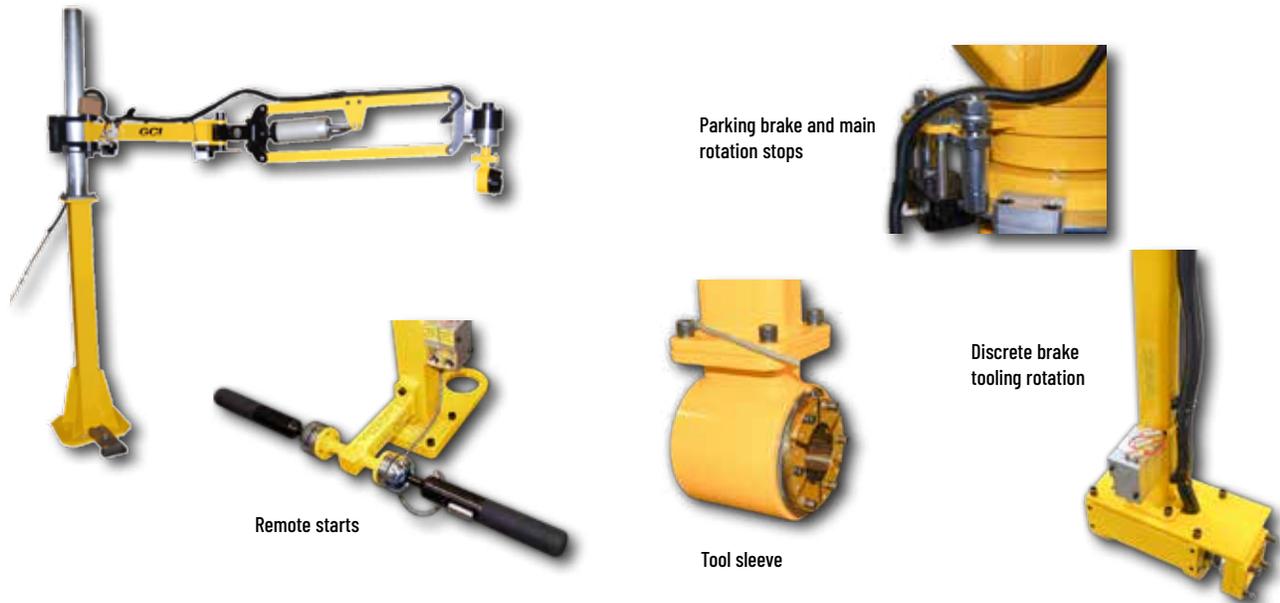


# GCI Torque Reaction Arms

## GCI Torque Reaction Arms

Model	Max. Torque	Max. Tool Weight	Max. Reach	Max. Vertical Travel	Construction
<b>IPT Series - Torques to 375 Nm</b>					
IPT150	150 Nm	12 lb	5 ft	30 in	Aluminum
IPT375	375 Nm	50 lb	6 ft	36 in	Steel
<b>IP Series - Torques to 4,000 Nm</b>					
IP4	550 Nm	30 lb	8 ft	48 in	Steel
IP5	1,000 Nm	50 lb	12 ft	60 in	Steel
IP7	3,000 Nm	100 lb	12 ft	60 in	Steel
IP8T	4,000 Nm	100 lb	12 ft	72 in	Steel
<b>F Series - Carbon Fiber Arms</b>					
F70	70 Nm	10 lb	3 ft	18 in	Carbon Fiber Composite
F600	600 Nm	50 lb	20 ft	72 in	Carbon Fiber Composite
F1500	1,500 Nm	50 lb	20 ft	72 in	Carbon Fiber Composite
F3000	3,000 Nm	75 lb	20 ft	72 in	Carbon Fiber Composite
F7500	7,500 Nm	75 lb	12 ft	72 in	Carbon Fiber Composite

## GCI ARM OPTIONS



# GCI Torque Reaction Arms

## Encoder Options for GCI Smart Arms

### AcraDyne Gen IV Smart Arm System with Process Visualization

AcraDyne's Gen IV controller with smart arm capability and process visualization provides an advanced error-proofing solution to ensure the quality of your fastening operation. The capability is integrated into the Gen IV controller – no need for an external PC or software. See page 16 for more details.

#### FEATURES AND BENEFITS

- Easy to follow visual guidance directly on the Gen IV controller graphical screen
- Easy to program and set up
- Low cost solution vs. competitive offerings
- Modular – can be added at any time to an existing AcraDyne system using the Gen IV controller



### AdaptiCS Software

Intuitive, user-friendly AdaptiCS PC-based software that runs on an integrated industrial PC or on a customer supplied PC. Smart arms guide the operator in programmable torque patterns and count fasteners required for correct assembly.

#### FEATURES AND BENEFITS

- Batch count capabilities
- Bidirectional arm articulation tracking
- Full torque/angle results display
- Integrates into any line control (PLC, MES, etc.)
- Multiple part locate strategies (1-point, 2-point, 3-point)
- Multiple rework strategies to fit requirements
- Fully programmable dynamic display with integrated PC option
- Integrates devices such as torque controllers via open protocol, encoded GCI torque reaction arms, scanners, vision cameras, and digital IO (pass/fail)
- AdaptiCS Enterprise (optional) provides full line control, interlocks, and data collection
- Runs on Windows 7, 8, and 10



# 3arm Zero Gravity Arms

## 3arm ZERO GRAVITY ARMS



Strong and Dependable, 3arm Ergonomic Arms Provide Full Range of Motion to Complete any Task Efficiently and Safely

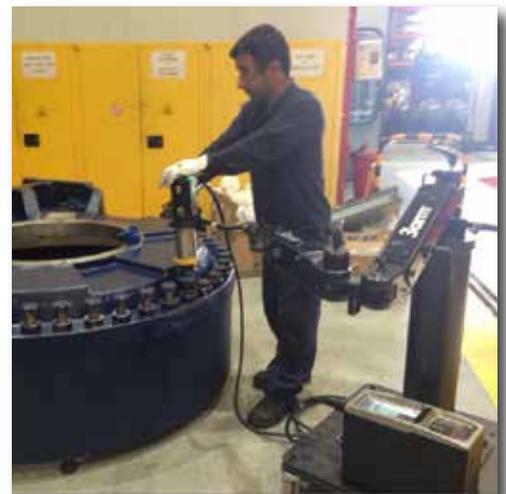
Designed to keep tools and devices weightless even in difficult positions and working areas, 3arms are available with more than 29 head configurations. Add in various available accessories, and the arms can be fixed in almost any position. More than 1,000 standard combinations are available, as well as customized solutions.

Tools recommended for use with this arm:

- Tools that have sufficient mass for counter balancing and where overhead suspension is not an option

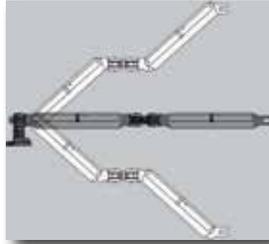
## FEATURES AND BENEFITS

- Eases use of larger, higher weight tools, eliminating the hazards of operators having to physically carry the loads.
- Durable closed-case design absorbs considerable force
- Eliminates tool weight, providing not only an ergonomic benefit, but also increasing productivity
- Reduces operator fatigue and the chance of injury due to strain
- Holds any tool up to 77 lbs, keeping the tool weightless, while eliminating possible damage caused by dropping the tool
- Can be base-mounted, ceiling-mounted, or wall-mounted. Easily add precision reach by applying a rail, make it mobile with a trolley, or adding vertical reach with a mounting column
- Available with tool trigger braking. Effortlessly position the tool, stop it in place, release trigger, and float it to the next job



# 3arm Zero Gravity Arms

## 3arm Series 1



<b>Reach</b>	<b>Max Weight</b>
Vertical: 44 in Horizontal: 42 in	22 lb

Model	Orientation	Reach (IN)		Max Weight LB
		Vert.	Horiz.	
1SNIDS	Floor Mounted	42	44	22
1AMIDS	Ceiling Mounted	42	44	22

Compatible Head Members (see page 141): B, BA, C, E, EA, F, G, K, N, T

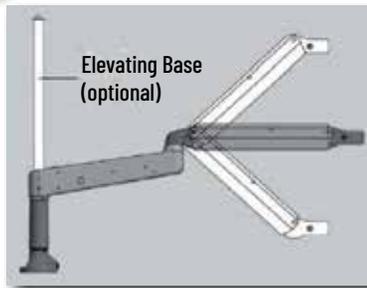
Brake Options	
L00	Not Required

To build your 3arm, choose the following

Arm Model	Head Member	Brake Option

Light and nimble, capable of reaching even the most difficult applications.

## 3arm Series 2



<b>Reach</b>	<b>Max Weight</b>	<b>Max Torque</b>
Vertical: 22 in Horizontal: 34 in	13 lb	120 Nm 88 ft-lb

Model	Orientation	Reach (IN)		Max Weight LB
		Vert.	Horiz.	
BB	Floor Mounted	22.2	33.9	13
BE	Ceiling Mounted	22.2	33.9	13
BA	Ceiling Mounted	22.2	33.9	13

Compatible Head Members (see page 141): B, BA, C, E, EA, F, G, K, N

Brake Options	
L00	Not Required

To build your 3arm, choose the following

Arm Model	Head Member	Brake Option

Combination radial arm and tilting arm, each capable of 360° rotation. Two arms of different lengths give you the ability to reach separate working areas.



# 3arm Zero Gravity Arms

## 3arm Series 3



Reach	Max Weight	Max Torque
Vertical: 42 in Horizontal: 68 in	77 lb	650 Nm 479 ft-lb

Versatile arm with a long reach and the ability to carry a heavy load. Features “turning and tilting” brake locking systems (pneumatic or manual), allowing the operator to immobilize the arm in a fixed position on all axes simultaneously or separately.

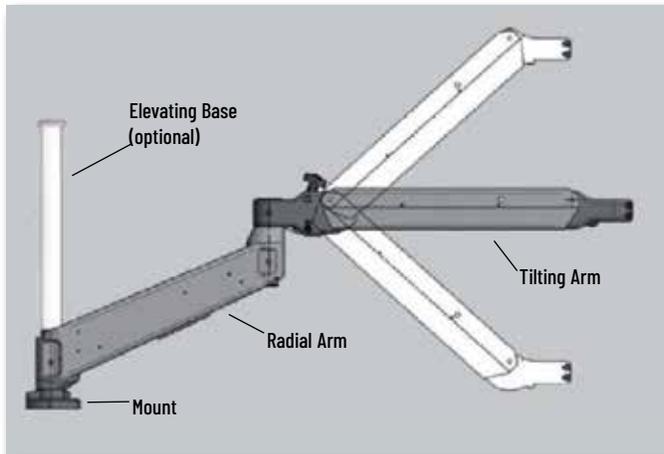
Model	Orientation	Reach (IN)		Max Weight LB
		Vert.	Horiz.	
<b>Floor Mounted</b>				
PSBS	Short Rad. + Short Tilt.	27.8	41.7	77
PSBM	Short Rad. + Long Tilt.	44.5	53.5	40
PLBS	Long Rad. + Short Tilt.	27.8	55.9	77
PLBM	Long Rad. + Long Tilt.	44.5	67.6	40
<b>Ceiling Mounted</b>				
PEBS	Short Rad. + Short Tilt.	27.8	41.7	77
PEBM	Short Rad. + Long Tilt.	44.5	53.5	40
ASBS	Long Rad. + Short Tilt.	27.8	55.9	77
ASBM	Long Rad. + Long Tilt.	44.5	67.6	40
<b>Elevating Base</b>				
ALBS	Elevating+ Short Tilt.	27.8	43.7	77
ALBM	Elevating+ Long Tilt.	44.5	55.8	40

Compatible Head Members (see page 141): All

Brake Options	
L00	Not Required
L11	Manual
L22	Pneumatic
L50	Manual Locking Base
L92	Tool Trigger Activated

To build your 3arm, choose the following

Arm Model	Head Member	Brake Option



# 3arm Zero Gravity Arms

## 3arm Series 4



**Reach**  
Vertical: 54 in  
Horizontal: 58 in

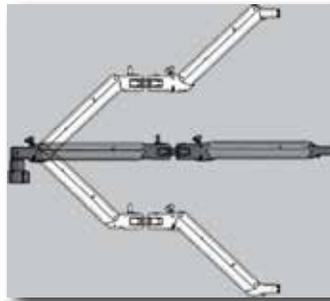
**Max Weight**  
53 lb

**Max Torque**  
300 Nm  
221 ft-lb

Model	Orientation	Reach (IN)		Max Weight LB
		Vert.	Horiz.	
DS	Floor Mounted, Short Arm	42.3	48	53
DM	Floor Mounted, Long Arm	55.5	57.5	43
ADS	Ceiling Mounted, Short Arm	42.3	48	53
ADM	Ceiling Mounted, Long Arm	55.5	57.5	43

Compatible Head Members (see page 141): All

Dual-tilting arms expand range of movement. The innovative connections between the parts of the arm allow completely free movement of rolling up, down, and sideways. Capable of reaching the most difficult positions or work with weightless precision.



### Brake Options

L00	Not Required
L11	Manual
L22	Pneumatic
L50	Manual Locking Base
L92	Tool Trigger Activated

To build your 3arm, choose the following

Arm Model	Head Member	Brake Option

## 3arm Series 6



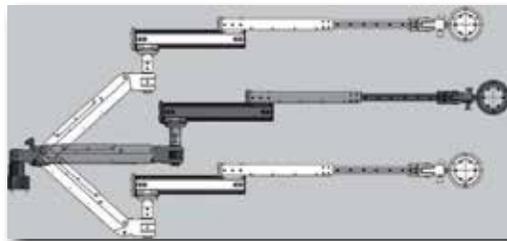
**Reach**  
Vertical: 26 in  
Horizontal: 82 in

**Max Weight**  
42 lb

Model	Description	Reach (IN)		Max Weight LB
		Vert.	Horiz.	
BPRASC	Model 800	26	68	42
BPRASM	Model 1200	26	82	26

Compatible Head Members (see page 141):  
BPRASC - All  
BPRASM - N,T

Extendable arm with ball linear guideways attached to a pendulum base arm, both capable of 360° rotation. This compact arm offers versatility for any type of tool. The telescopic top arm allows the user to work on hard-to-reach areas comfortably, quickly and safely. Works in a wide variety of applications.



### Brake Options

L00	Not Required
-----	--------------

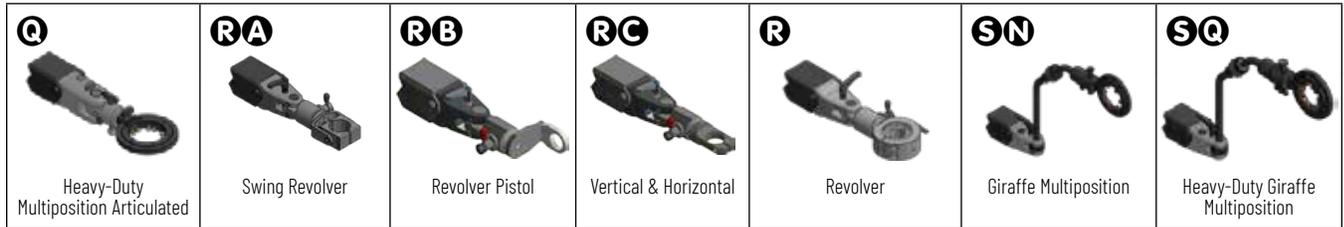
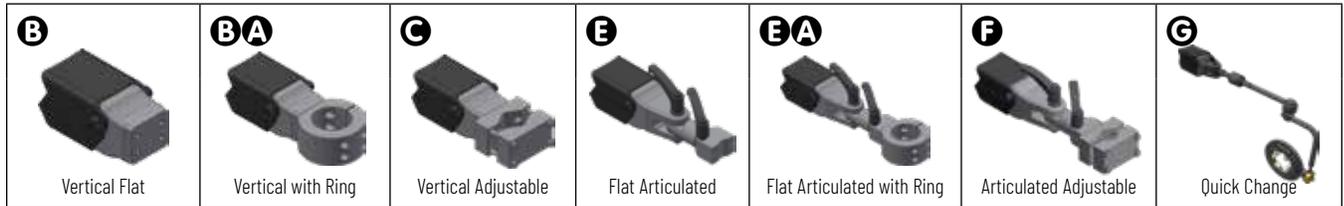
To build your 3arm, choose the following

Arm Model	Head Member	Brake Option

# 3arm Zero Gravity Arms

## 3arm Head Members

Once you've determined the tools that will be used in you application, select a head member based on the type of application and necessary orientations.



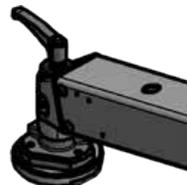
## 3arm Brake Options



**L11**  
Manual Brakes  
Manually turned handle



**L22**  
Pneumatic Brakes



**L50**  
Manual Locking Base  
Handle at base only



**L92**  
Tool Trigger Activated Brake  
Pneumatic, activated through the tool

# Support System Tool-Mounting Options

## TOOL MOUNTING OPTIONS

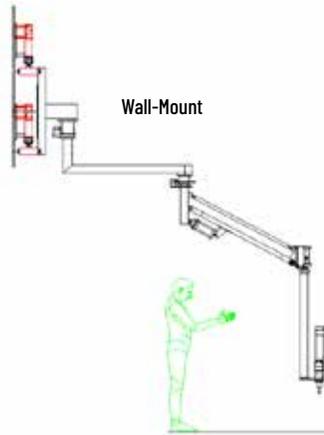


AIMCO provides many head and mounting options to fit almost any application. Find more information in our Application Manual for Arms and Fixtures located on our website.

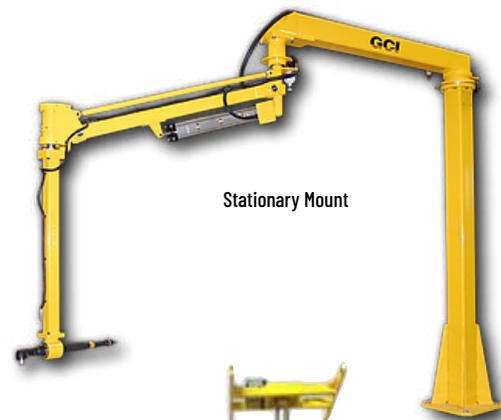
Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368.



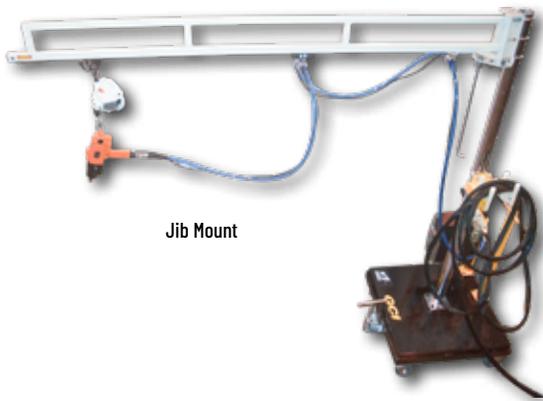
Overhead Trolley Mount



Wall-Mount



Stationary Mount



Jib Mount



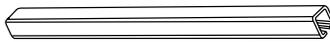
Overhead Fixed Mount

# Workstation Components and Assemblies

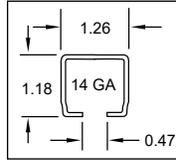
## COMPONENTS

### TRACK

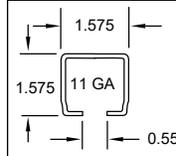
Steel with beige polyester finish. Use for vertical and horizontal workstation support.



PART NUMBER	30# TRACK
AT3-3	3 ft track
AT3-4	4 ft track
AT3-6	6 ft track
AT3-9*	9 ft track

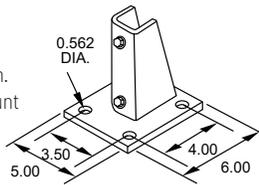


PART NUMBER	50# TRACK
AT5-3	3 ft track
AT5-4	4 ft track
AT5-6	6 ft track
AT5-9*	9 ft track
AT5-10	10 ft track
AT5-12*	12 ft track



### MOUNTING PLATE (AMP-5)

Black polyester finish. Use as a base to mount vertical uprights.



### END CAP (AEP-3/5)

Black molded vinyl. Use to cap track ends for a professional finish.

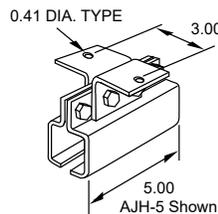
- AEP-3 for 30 lb. track
- AEP-5 for 50 lb. track



### JOINT HANGER BRACKET (AJH-3/5)

Black polyester finish. Use to couple and hang end-to-end track.

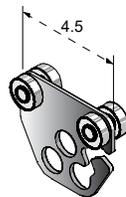
- AJH-3 for 30 lb. track
- AJH-5 for 50 lb. track



### BALANCER TROLLEY (ABT-3/5)

Black polyester finish. Use as moving support for tool balancers, hose, and cable. Quality ball bearing wheels for long life and smooth tracking.

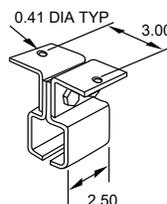
- ABT-3 for 30 lb track (1.00 dia)
- ABT-5 for 50 lb track (1.25 dia)



### HANGER BRACKET (AHB-3/5)

Black polyester finish. Use to suspend track at right angle.

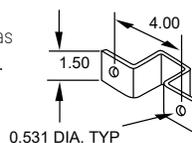
- AHB-3 for 30 lb. track
- AHB-5 for 50 lb. track



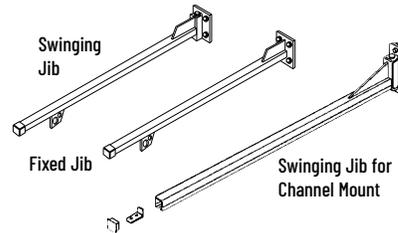
### SUPPORT CLAMPS (ASC-3/5)

Black polyester finish. Use as additional support for track.

- ASC-3 for 30 lb. track
- ASC-5 for 50 lb. track



## WALL-MOUNTED JIBS



Jibs are mounted to wall or beams to create free standing workstations. All complete assemblies are beige polyester finish. End stop, end cap, and balancer trolley included.

### 3 FT. WALL-MOUNTED SWINGING JIB (AW3S)

### 3 FT. WALL-MOUNTED FIXED JIB (AW3F)

### 3 FT. WALL-MOUNTED SWINGING JIB FOR CHANNEL MOUNT (AJS3\*\*)

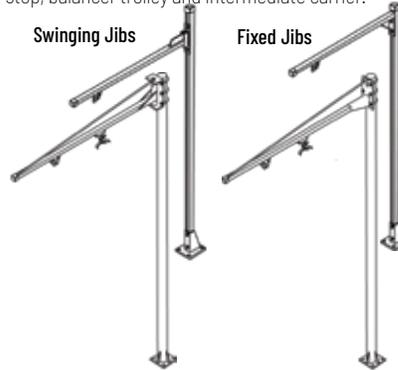
Maximum weight: 30 lb.

### 6 FT. WALL-MOUNTED SWINGING JIB (AW6S)

Maximum weight: 50 lb.

## FLOOR-MOUNTED JIBS

Fixed or swing booms mounted on vertical columns and are painted polyester beige. Units include end stop, balancer trolley and intermediate carrier.



### 3 FT. FLOOR-MOUNTED FIXED JIB\* (AW3FMF)

Maximum weight: 30 lb. Column height: 6 ft

### 6 FT. FLOOR-MOUNTED SWINGING JIB\* (AW6FMS)

### 6 FT. FLOOR-MOUNTED FIXED JIB\* (AW6FMF)

Maximum weight: 50 lb. Column height: 9 ft

### 10 FT. FLOOR-MOUNTED FIXED JIB\* (AW10FMF)

### 10 FT. FLOOR-MOUNTED SWINGING JIB\* (AW10FMS)

Maximum weight: 50 lb. Column height: 9 ft

## BENCH-MOUNTED JIBS

3 ft. swinging jib includes balancer trolley, end stop, and cap

### 3 FT. BENCH MOUNTED SWINGING JIB (JJ30-S)

### 3 FT. BENCH MOUNTED FIXED JIB (JJ30)

Maximum weight: 30 lb

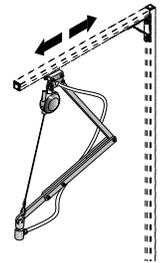
Column height: 48" including mounting plate



## TROLLEY-MOUNTED TORQUE ARM

### TROLLEY MOUNTED TORQUE ARM WITH 3-LB RETRACTOR AND HOSE (FA-50-2\*)

Ergonomic arm absorbs torque reaction. Moves front to back along overhead jib.



### (TA-50-2)

Moves side to side on overhead track.

## CUSTOM WORKSTATION SOLUTION

### CREATE A CUSTOM SUPPORT SYSTEM USING AIMCO'S QUALITY PRODUCTS

- Organize work area to create a safe, productive working environment
- Reduce risk of injury to assembler by providing support for heavy tools
- Protect valuable tools, fixtures, and monitoring devices from damage by suspending them out of the way



### AIMCO BASIC WORKSTATION KIT (ATW-50)

- 50 lb maximum weight capacity
- 48" uprights
- 36" extensions
- Table mounts included
- 6' tool rail with rolling trolley included
- All necessary hardware included

## WORKSTATION ACCESSORIES

### TOOL BASKET (21226)

Mounts easily to any work area to hold pistol and angle style tools.



### When choosing a workstation system, remember

Total weight capacities should include tool balancer, hose/cable, and tool/fixture. Units need to be supported vertically and horizontally every 6 ft.

AIMCO can customize a workstation for you. Contact an AIMCO Customer Service Associate (503) 254-6600, or toll free 1-800-852-1368.

# Gravity-Defying Balancers

## TW SERIES BALANCERS



### TW-0 and TW-00

- Gravity defying / "true balance"
- No tension buildup to cause worker fatigue
- Easy external direct drive tensioning
- 360° upper swivel
- Safety cable provision
- Tool clip included



TW-3

### TW Series Balancers

Model	Capacity		Anti-Gravity Capacity (LB)	Cable
	LB	KG		
TW-00	1.1 - 3.3	0.5 - 1.5	2.5 - 3.0	18" stranded steel cable 1/8" dia.
TW-0	1.1 - 3.3	0.5 - 1.5	2.5 - 3.0	3.3-ft stranded steel cable 1/8" dia.
TW-3K	2.2 - 6.6	1.0 - 3.0	4.5 - 6.0	4.3-ft stranded steel cable 5/32" dia.
TW-5K	5.5 - 11.0	2.5 - 5.0	8.0 - 10.5	4.3-ft stranded steel cable 5/32" dia.
TW-9K	9.9 - 19.8	4.5 - 9.0	15.0 - 19.0	4.3-ft stranded steel cable 5/32" dia.
TW-15K	19.8 - 33.0	9.0 - 15.0	26.0 - 32.5	4.3-ft stranded steel cable 5/32" dia.
TW-22	33.0 - 48.4	15 - 22	41.0 - 48.0	5-ft stranded steel cable 3/16" dia.
TW-30	48.4 - 66.0	22 - 30	58.0 - 65.5	5-ft stranded steel cable 3/16" dia.
TW-40	66.0 - 88.0	30 - 40	77.5 - 87.5	5-ft stranded steel cable 3/16" dia.
TW-50	88.0 - 110.0	40 - 50	100.0 - 109.5	5-ft stranded steel cable 3/16" dia.
TW-60	110.0 - 132.0	50 - 60	122.0 - 131.0	5-ft stranded steel cable 3/16" dia.
TW-70	132.0 - 154.0	60 - 70	144.0 - 153.0	5-ft stranded steel cable 3/16" dia.

### through TW-70

- Tapered drum allows "true balance" throughout cable travel
- Easy external direct drive tensioning
- Cast aluminum casing for durability
- Permanent lubrication
- 360° top swivel
- Enclosed spiral spring for added safety
- Secondary support hanger in TW-3K through TW-15K models accommodate a safety chain (sold separately)
- Automatic safety lock plus manual drum lock (TW-22 through TW-70)



## ASB SERIES BALANCERS

- Built-in Safety Features: The cable, drum, and enclosed spring are fully visible without opening the unit for easy and convenient safety checks. The sturdy spiral spring is enclosed for greater control and safety
- Ergonomic Spring Release: The automatic safety lock provides extra control
- Extended Cable Length: Stainless steel cables allow for extended reach on applications
- Enhanced Gear Mechanism: Allows for more exact adjustment of tension
- No Recoil and Low Resistance: Tapered drum style provides gravity defying tool positioning and low travel



ASB-0C Gravity Defying and Hand Adjustable Balancer



ASB-3C  
ASB-5C

### ASB Series Balancers

Model	Capacity		Stroke		Weight	
	lb	kg	in	cm	lb	kg
ASB-0C	1.1 - 3.3 lb	0.5 - 1.5 kg	51.1 in	130 cm	1.5 lb	0.7 kg
ASB-3C	3.3 - 6.6 lb	1.5 - 3 kg	86.4 in	220 cm	3.0 lb	1.4 kg
ASB-5C	5.5 - 11 lb	2.5 - 5 kg	86.4 in	220 cm	3.4 lb	1.5 kg

# Line Reel Balancers / Retractors

## LINE REEL BALANCERS

### LR Series

- Designed for light duty applications with small pneumatic tools
- Integrating air hose and support cable keep work areas clean
- Adjustable ball stop for optional positioning
- 1/4" I.D. polyvinyl hose with 1/4" NPT inlet
- 360° upper swivel
- Maximum 142 PSI



LR Series Line Reel Balancers

Model	Hose Length		Capacity	
LR-09B-90	35.5 in	90 cm	3 lb	1.5 kg
LR-09B-200	78.3 in	199 cm	3 lb	1.5 kg

## RETRACTORS

### RPA Series

- No tools needed to set tension
- 5 ft nylon coated steel cable
- Reinforced hanging bracket includes safety cable provision
- Adjustable cable stop
- Three (3) models support weight 0.5 - 5 lb
- Tool clip included

### RMA-L Series

- Steel housing with polyester finish
- Reinforced hanging bracket includes safety cable provision
- 8 ft of 3/32" diameter coated steel cable
- Permanently lubricated
- Tool clip included
- External tension adjustment
- Ratchet cable lock



### RPA / RMA-L Series Retractors

Model	Capacity	
RPA-1	0.5 - 1.5 lb	0.2 - 0.7 kg
RPA-2	1.5 - 3.0 lb	0.7 - 1.4 kg
RPA-3	3.0 - 5.0 lb	1.4 - 2.3 kg
RMA-7L	5 - 10 lb*	2.3 - 4.8 kg*
RMA-15L	10 - 15 lb*	4.5 - 6.8 kg*
RMA-20L	15 - 23 lb*	6.8 - 10.4 kg*

\* With ratchet lock

# Air Preparation Units

## AFRL STACKING FILTER/REGULATORS

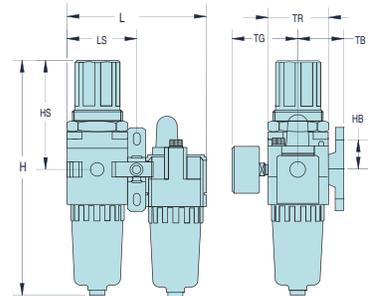
Stacking filter/regulator combinations provide air filtration and precise regulation in a single unit for easy mounting and installation.

### FEATURES AND BENEFITS

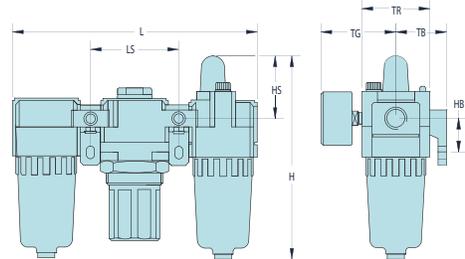
- All models include L-mount bracket, gauge, and metal bowl shields
- Polycarbonate filter and lubricator bowls (metal bowls standard on AFRL-8)
- 25-micron filter included on all models
- Regulating range: 7 - 125 PSI
- Custom order upgrade items include metal bowl, 5 micron filter, semi-automatic filter drain, and reduced PSI range regulator. Contact an AIMCO Customer Service Associate for more information, 1-503-254-6600, or toll free 1-800-852-1368
- Maximum allowable Input Pressure not to exceed 120 PSI



AFRL-2-C  
AFRL-3-C



AFRL-3  
AFRL-4  
AFRL-8



28178  
HT Air Tool/AFRL  
Carrying Kit

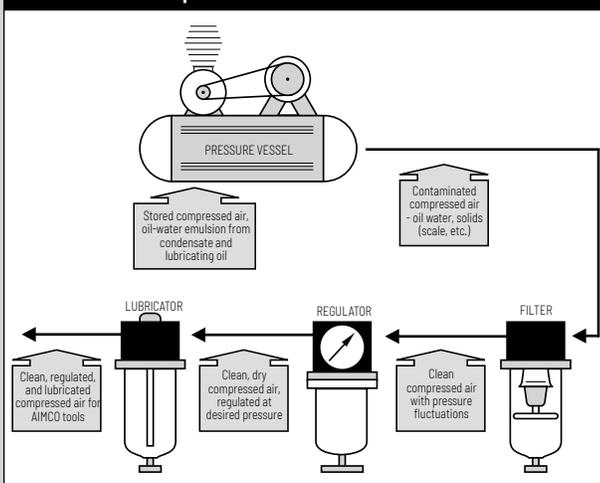


AFRL-4HTA  
Standalone Unit

### AFRL Stacking Filter/Regulators

Model	Port	Gauge Port	Flow Rate CFM	Flow Rate L/MIN	Bowl Shield	H IN/MM	HB IN/MM	HS IN/MM	L IN/MM	LS IN/MM	TB IN/MM	TG IN/MM	TR IN/MM
AFRL-2	1/4"	1/8"	70	2,000	yes	6.16 (156.5)	1.39 (35.3)	1.50 (38.1)	7.13 (181.1)	2.52 (64.0)	1.61 (41.0)	2.39 (60.7)	2.09 (53.1)
AFRL-2-C	1/4"	1/8"	60	1,700	yes	8.31 (211.1)	1.38 (35.1)	3.64 (92.5)	4.61 (117.1)	2.30 (58.4)	1.61 (40.9)	2.39 (60.7)	2.09 (53.1)
AFRL-3	3/8"	1/4"	140	4,000	yes	7.54 (191.5)	1.57 (40.0)	1.61 (40.9)	9.37 (238.0)	3.31 (84.1)	1.97 (50.0)	2.58 (65.5)	2.76 (70.1)
AFRL-3-C	3/8"	1/4"	105	3,000	yes	10.31 (261.9)	1.57 (39.9)	4.41 (112.0)	6.06 (153.9)	3.03 (77.0)	1.97 (50.0)	2.58 (65.5)	2.76 (70.1)
AFRL-4	1/2"	1/4"	140	4,000	yes	7.54 (191.5)	1.57 (40.0)	1.61 (40.9)	9.37 (238.0)	3.31 (84.1)	1.97 (50.0)	2.58 (65.5)	2.76 (70.1)
AFRL-8	1"	1/4"	180	5,000	yes	10.69 (271.5)	1.97 (50.0)	1.89 (48.0)	11.81 (300.0)	4.13 (104.9)	2.75 (69.9)	2.97 (75.4)	3.54 (89.9)

### Air Preparation Units: Basic Functions



The supply of clean, dry air is essential to the operation of pneumatic powered tools. Use only clean filtered air for longer tool life. Provide proper airflow (CFM) and regulate air pressure (PSI) for optimum performance.

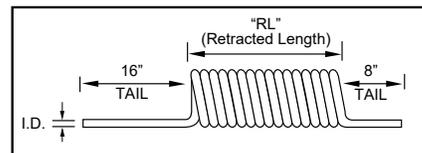
To determine unit size for application, you need to know:

- Total air flow (CFM) required for application
- Size of incoming air line and size of air line required by tool
- Air supply pressure (PSI)
- Allowable pressure drop
- Does the application require lubrication?
- Does the overall system have the required capacity?

## Polyurethane Hose



- Durable Polyurethane is chemical resistant and lightweight, and provides excellent recoil memory and maximum flexibility



- Available in transparent hose color (opaque also available)
- Assemblies for coiled hose include reusable swivel fitting. Straight hose available with or without fittings
- Working temperature:  $-104^{\circ}\text{F}$  to  $175^{\circ}\text{F}$

## Single Air Hose Assemblies (Coiled)

Model	Description (O.D. x I.D. x Length)	Retracted Length	Working Pressure	Npt Fittings
ASH-250C-10MSZ	3/8" x 1/4" x 10'	7"	100 psi	1/4"
ASH-250C-15MSZ	3/8" x 1/4" x 15'	9-1/2"	100 psi	1/4"
ASH-250C-25MSZ	3/8" x 1/4" x 25'	15-1/2"	100 psi	1/4"
ASH-375C-15MSZ	9/16" x 3/8" x 15'	10"	100 psi	3/8"
ASH-375C-25MSZ	9/16" x 3/8" x 25'	14"	100 psi	3/8"
ASH-500C-15MSZ	3/4" x 1/2" x 15'	13"	100 psi	1/2"
ASH-500C-25MSZ	3/4" x 1/2" x 25'	23"	100 psi	1/2"

Custom length coil assemblies and special colors available in minimum order quantities. contact an AIMCO Customer Service Associate, 1-503-254-6600, or toll free 1-800-852-1368.



### Straight Air Hose (Sold Per Foot)

Model	Description
ASH-375Z	3/8" I.D.
ASH-500Z	1/2" I.D.

Contact an AIMCO Customer Service Associate about full reel pricing, 1-503-254-6600, or toll free 1-800-852-1368.

## Rubber Hose



- Designed for use in a wide range of industrial, construction, and agricultural applications
- Constructed of high grade, reinforced EPDM synthetic rubber
- Working temperature:  $-40^{\circ}\text{F}$  to  $190^{\circ}\text{F}$

### Single Air Hose (Rubber)

I.D.	O.D.	Length	Working Pressure	Weight
3/16"	0.44"	10 ft	200 psi	0.8 lb
1/4"	0.5"	10 ft	200 psi	0.9 lb
5/16"	0.58"	10 ft	200 psi	1.2 lb
3/8"	0.67"	10 ft	200 psi	1.5 lb
1/2"	0.81"	10 ft	200 psi	2.0 lb
5/8"	0.97"	10 ft	200 psi	2.7 lb
3/4"	1.12"	10 ft	200 psi	3.4 lb

Custom lengths available. Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368.

## Helpful Hints For Air Hose Use

- Use recommended I.D. air hose and fittings
- Replace air hose regularly to help maintain clean air
- A clear hose allows you to see water or dirt accumulation in hose
- Use correct length of hose to reduce air loss and pressure drop
- Use locking quick-disconnect couplers for additional safety

# Air Line Accessories

## BRASS QUICK COUPLERS

Manual ball couplers designed for use with ergonomic twist plugs. Brass with nitrile seals, rated to 300 PSI, from -40° to +250° F.

B23

B23E

B25

Model	Description
B23	1/4" NPT F x 1/4" QC Brass Coupler
B23E	1/4" NPT F x 3/8" QC Brass Coupler
B25	3/8" NPT F x 3/8" QC Brass Coupler

## IN-LINE MINI REGULATORS

Easily adjust airflow with the turn of a dial.

Model	Capacity
932-100-0	1/8" NPT
932-110-0A	1/4" NPT



## MINI AIR GAUGE SWIVEL JOINT KITS

- Bi-directional 360° rotation
- Keeps air hose straight and untwisted
- Decreases operator fatigue



Model	Inlet	Weight	Max Psi	Tool CFM
704IAG	3/8" NPT	3 oz	Up to 125	50



704IAG

## SWIVEL AIR FITTINGS

For use with most portable air tools, including grinders, drills, screwdrivers, buffers, sanders, staple guns, and more. Rotates 360° for awkward angles.



Model	Inlet	Weight	Max PSI	Tool CFM
7021	1/4" NPT	3 oz	Up to 125	25
7041A	3/8" NPT	11 oz	Up to 125	50
7051	1/2" NPT	7 oz	Up to 125	60

## AIR LINE FITTINGS

Model	Capacity
250-RZ	1/4" NPT Rigid Fitting
250-SZ	1/4" NPT Swivel Fitting
375-RZ	3/8" NPT Rigid Fitting
375-SZ	3/8" NPT Swivel Fitting
500-SZ	1/2" NPT Swivel Fitting



## BRASS ADAPTERS AND BUSHINGS

Pipe fittings for use as medium and low pressure connectors. Meets functional requirements of SAE J530, SAE J531, ASME and ASA. Rated 1,000 PSI from -65° to +250° F.



Model	Description
222P-6-4	3/8" NPT F x 1/4" NPT M Adapter
222P-8-6	1/2" NPT F x 3/8" NPT M Adapter
222P-12-8	3/4" NPT F x 1/2" NPT M Adapter
209P-6-4	1/4" NPT F x 3/8" NPT M Bushing
209P-8-6	3/8" NPT F x 1/2" NPT M Bushing

## ERGONOMIC TWIST PLUGS

These unique, ergonomically designed hose fittings provide 360° rotation and 35° angled rotation in any direction.

- Two rotation points prevent kinking of air hose
- Design ensures full air pressure flow
- Rotating joint comes with polyurethane dust cover
- Heavy duty construction



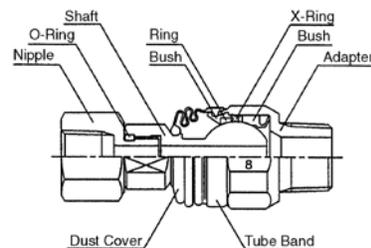
TS-30NP-2NPT



TS-20US-2NPT



TS-30US-3NPT



Model	Description
TS-30NP-2NPT	3/8" NPT Female x 1/4" NPT Male
TS-20US-2NPT	1/4" US Plug x 1/4" NPT Male
TS-30US-3NPT	3/8" US Plug x 3/8" NPT Male

## STANDARD FASTENER TOOLS

### Connect your tool to the application with Bits, Sockets, and Nutsetters from AIMCO

AIMCO has assembled a complete package of commonly used screwdriver bits and nutsetters. Our goal is to supply you with the highest quality bits and nutsetters for your fastener needs. Whether you're in electronics, aerospace, automotive, or general industry, AIMCO has the bits and nutsetters to fit your needs.

### MAG-O-NETS®: A Revolutionary Way to Convert Standard Bits to Magnetic Bits

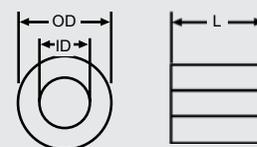
#### FEATURES AND BENEFITS

- Easy, cost effective alternative to traditional magnetic bit holder and insert combination
- Improves torque transfer by eliminating "wobble effect"
- Easily adjust magnetic attraction by moving Mag-O-Net collar closer to or further from fastener
- Fits virtually any standard screwdriver bit
- Reusable and interchangeable – once a bit is worn out, simply remove your Mag-O-Net and slide it onto the next bit
- Lifetime guarantee on magnetic attraction



\*U.S. Patent 5861789

Part #	Inner Diameter (Id)	Outer Diameter (OD)	L
AM1/4Z	7 mm	19 mm	10 mm
AM5Z	6 mm	17.5 mm	10 mm
AM3/16Z	3/16 in	17.5 mm	10 mm
AM5/16Z	5/16 in	20 mm	10 mm



AxxxxxPAM Series  
Ink Marking Sockets

### INK MARKING SOCKETS

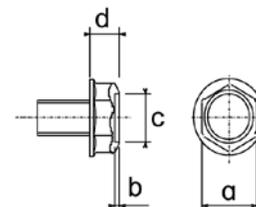
Marking Sockets leave a witness mark of ink when the driving socket makes contact with the fastener being tightened. This eliminates the need to come back with a pen to manually mark the bolt.

- Consists of driving socket and felt pad that holds ink when impregnated
- Ink typically supplied by the user to match their color schemes

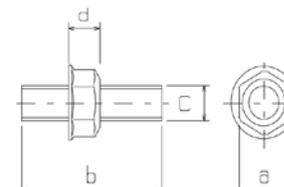
To order, contact an AIMCO Customer Service Associate 1-503-254-6600, or toll free 1-800-852-1368.



Bolt



Nut



Bolt clearance

### ANTI-MARRING SOCKETS

AIMCO's anti-marring sockets have a protective resin cover that spins freely, preventing damage to application surfaces, and protecting fingers.



CV Series



CVF Series



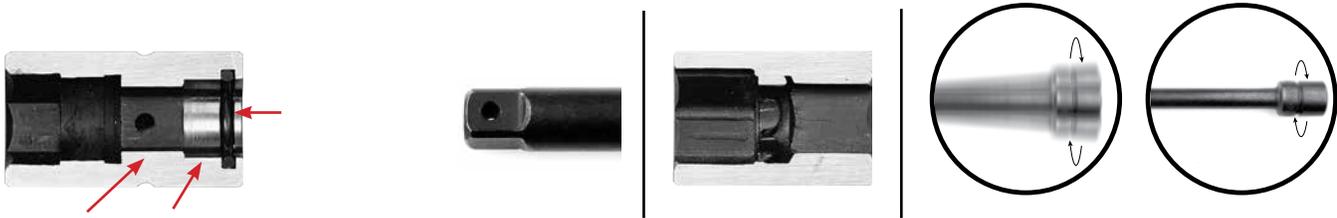
CVF Series  
with Bit Attachment



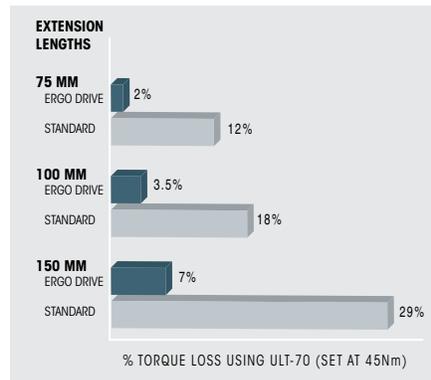
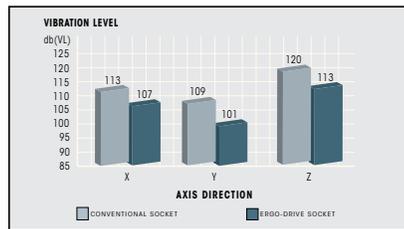


ERGO-DRIVE sockets are uniquely designed for repeatable, accurate rundowns. They also ensure excellent product quality, longer tool life, and better ergonomics for the tool user. Look for the ERGO-DRIVE **E** logo in this catalog to see where ERGO-DRIVE sockets/extensions benefit tool operation, operator, and rundown.

## ERGO-DRIVE VS. STANDARD



## ERGO-DRIVE® SOCKETS PROTECT...

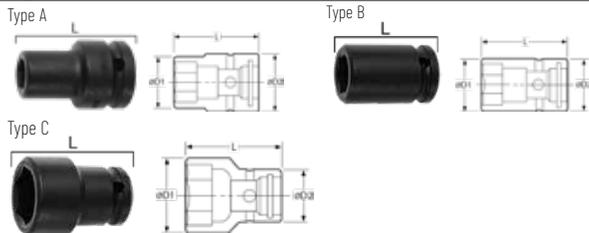


### ...YOUR INVESTMENT!

Pulse tools are an investment and the anvil is the most expensive single part of any pulse tool. ERGO-DRIVE sockets decrease vibration and wear on this critical component.

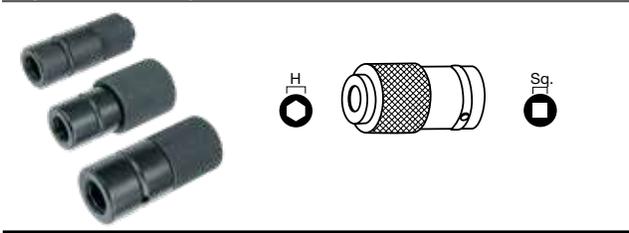
### Ergo Drive Sockets: Standard

### A-ED Series



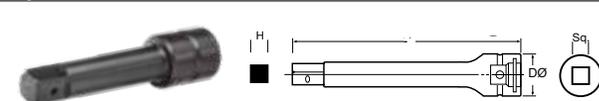
### Ergo Drive Quick Change Chucks

### A-DC Series



### Ergo Drive Extensions

### A-EDE Series





Single Hex (SH)



Fast Lead (FL)



Single Square (SQ)



Torx (T)



Double Hex (DH)



Surface Drive (SF)



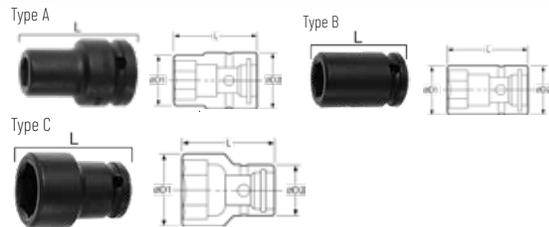
Double Square (DSQ)



Flank Drive (FD)

Impact Sockets: Standard

A Series



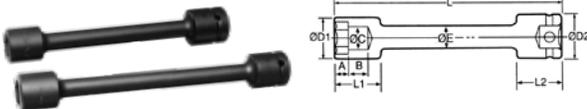
Impact Sockets: Deep

A Series



Impact Sockets: Extended

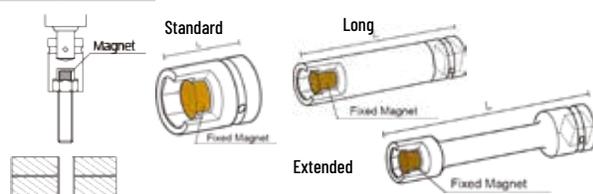
A-EX Series



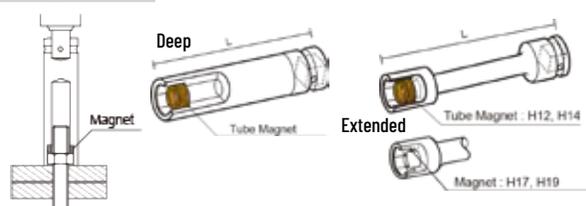
Impact Sockets: Magnetic

A-MP / A-MT / A-MS Series

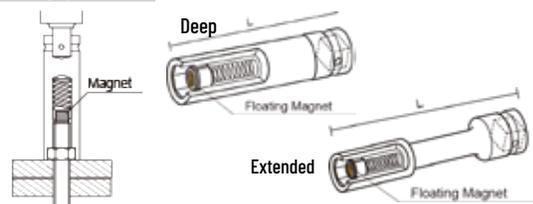
Press Type



Tube Type



Sliding Type



Impact Sockets: Quick Change Chucks

A-DC Series



Impact Sockets: Extensions

A-SE Series



Impact Sockets: Surface Drive

A-SF / A-SFL Series



Impact Sockets: Double Hex

A-D Series



Torx Sockets: External "E" Type

A-TT Series



Torx Sockets: Internal "T" Type

A-TE Series



Allen Sockets: Standard

A-C Series



Allen Sockets: Extended

A-C Series



Universal Sockets: Standard

A-U Series



Universal Sockets: Extended

A-EU Series



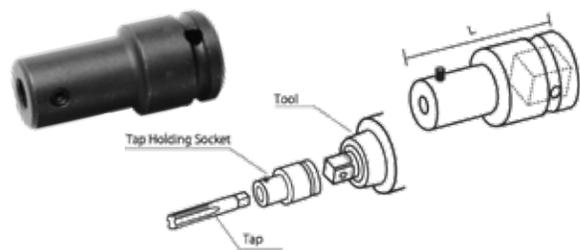
Universal Joints

A-U Series



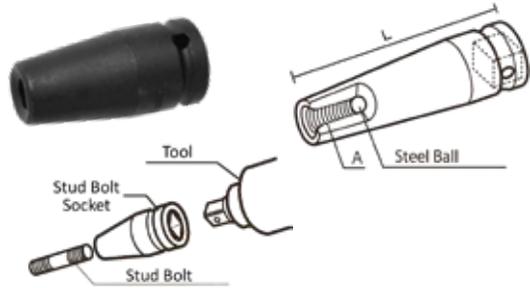
Tap Holding Sockets

A-TS Series



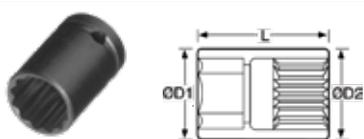
Stud Bolt Sockets

A-P Series



#5 Spline Socket

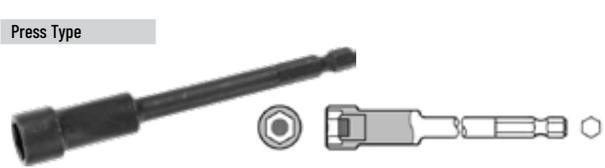
A-#5 Series



Nutsetters: Standard



Nutsetters: Magnetic



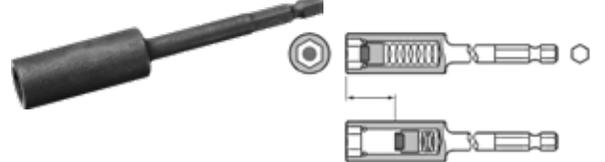
Press Type



Tube Type



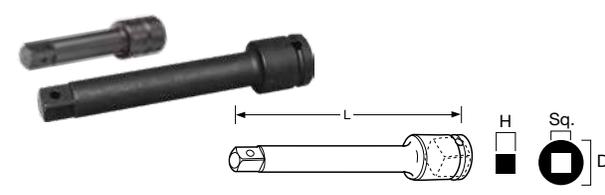
Sliding Type



Nutsetters: Universal



Nutsetters: Extensions



Socket Adapters

A-A Series





Phillips Power Bits

Standard



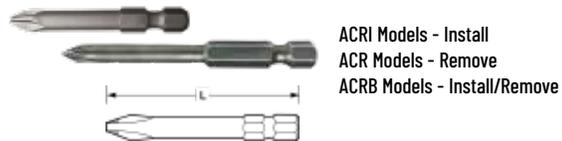
Double Ended



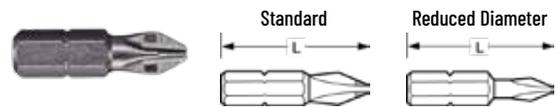
Phillips Insert Bits



Phillips ACR Power Bits



Phillips ACR Insert Bits



Slotted Power Bits



Slotted Insert Bits



Allen Drive Power Bits



Allen Drive Insert Bits



Torx Power Bits: Standard



Torx Power Bits: Tamper Resistant



Torx Insert Bits



Torx Insert Bits: Tamper Resistant



Pozidriv Power Bits: Standard



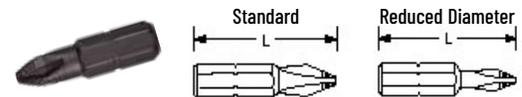
Pozidriv ACR Power Bits



Pozidriv Insert Bits



Pozidriv ACR Insert Bits



Square Recess Power Bits



Square Recess Insert Bits





**Torq-Set Power Bits: Standard**



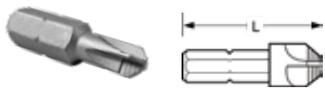
**Torq-Set ACR Power Bits**



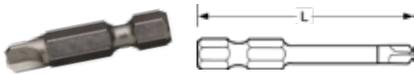
**Torq-Set Insert Bits**



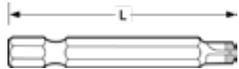
**Torq-Set ACR Insert Bits**



**Tri-Wing Power Bits: Standard**



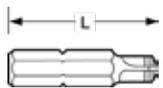
**Tri-Wing ACR Power Bits**



**Tri-Wing Insert Bits**



**Tri-Wing ACR Insert Bits**



**Phillips Electric Bits**



**Slotted Electric Bits**



**Tri-Wing Insert Bits**



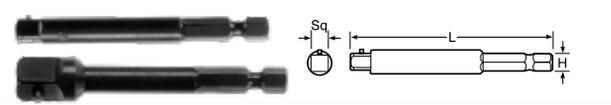
**Bit Holders**

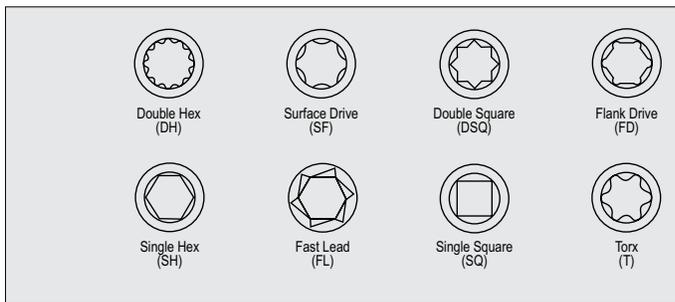
**A-BHD / A-BHM Series**



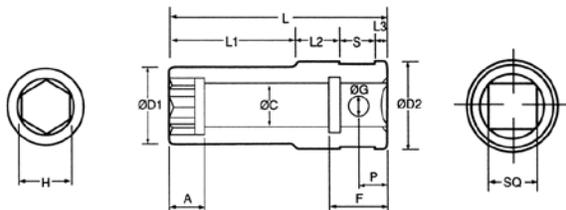
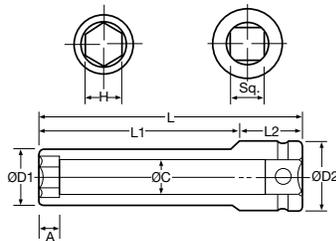
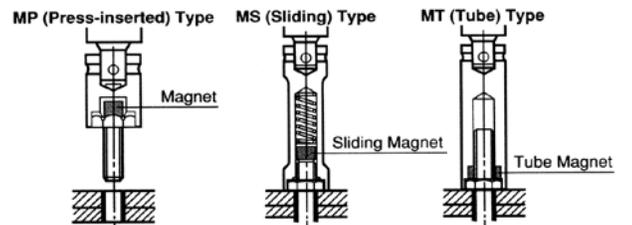
**Bit Adapters**

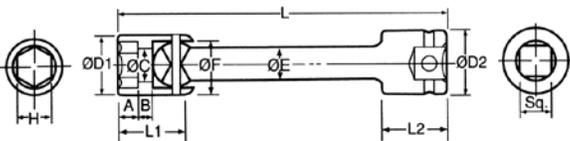
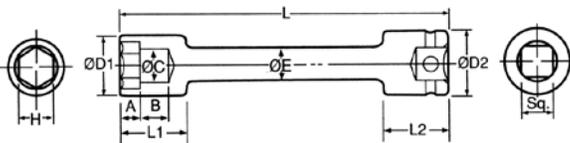
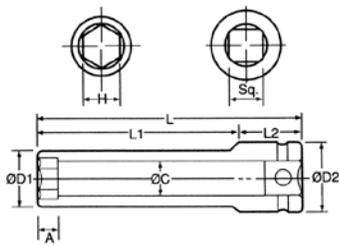
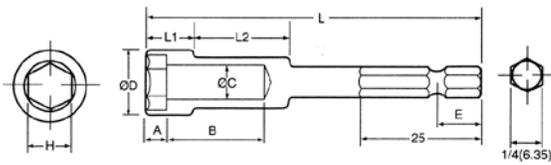
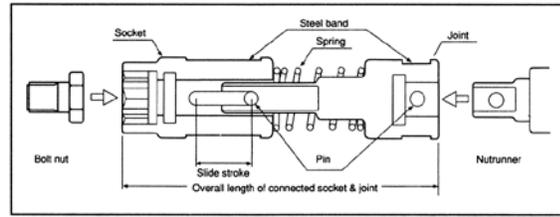
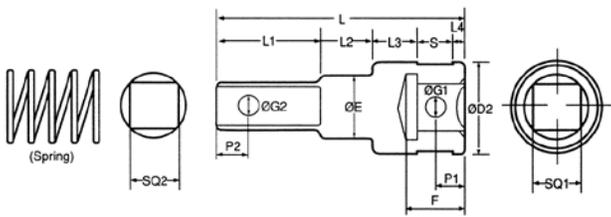
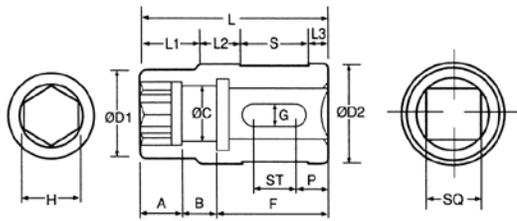
**A-A Series**

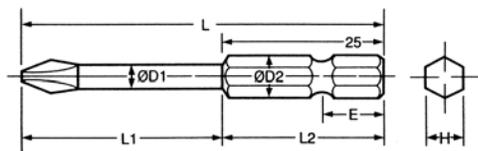
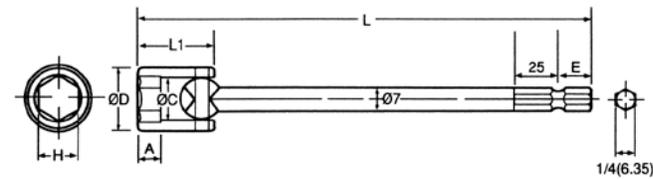
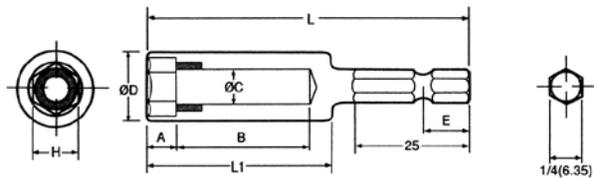
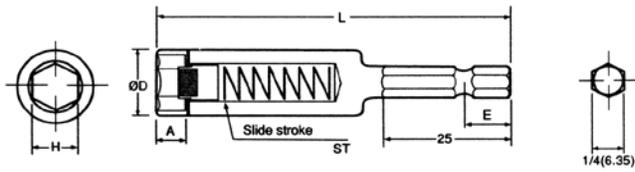
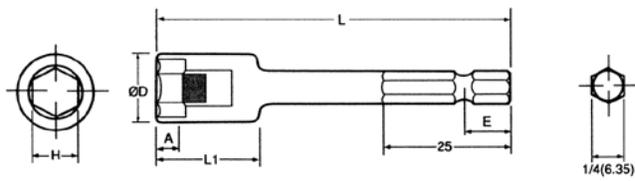
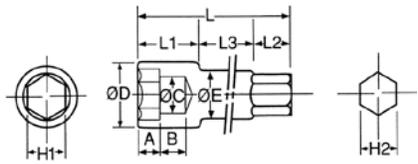
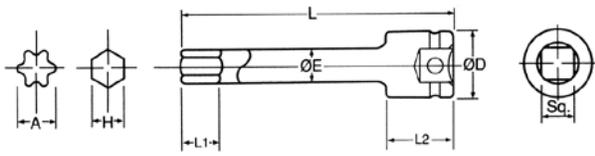




**MAGNETIC STYLES:**







CIRCLE ONE:



Phillips®



Slotted



Torx®



Torx®  
Tamper Resistant



Fozidriv®



Supadriv®



Square Recess



Allen Head



Torq-Set®



Tri-Wing®



METRIC BOLT SIZE	SOCKET HEX SIZE (MM)
M 2	4
M 2.3	4.5
M 2.6	5
M 3	5.5
M 3.5	6
M 4	7
M 5	8
(M 5-6)	9
M 6	10
M 7	11
M 8	13
(M 8)	14
M 10	16
(M 10)	17
M 12	18
(M 12)	19
M 14	21
(M 14)	22
M 16	24
M 18	27
M 20	30
(M 22)	32
M 22	34
M 24	36



UNC BOLT SIZE	SOCKET HEX SIZE (IN)
1/4	7/16
5/16	1/2
3/8	9/16
7/16	11/16
1/2	3/4
9/16	7/8
5/8	15/16
3/4	1-1/8
7/8	1-5/16
1	1-1/2
1-1/8	1-11/16
1-1/4	1-7/8
1-3/8	2-1/16
1-1/2	2-1/4
1-3/4	2-5/8
2	3
2-1/4	3-3/8
2-1/2	3-3/4



SAE BOLT SIZE	SOCKET HEX SIZE (IN)
1/4	7/16
5/16	1/2
3/8	9/16
7/16	5/8
1/2	3/4
9/16	7/8
5/8	15/16
3/4	1-1/16
7/8	1-1/4
1-1/8	1-7/16
1-1/4	1-13/16
1-3/8	2
1-1/2	2-3/16



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[www.AIMCO-GLOBAL.com](http://www.AIMCO-GLOBAL.com)