



**ACHIEVING ASSEMBLY EXCELLENCE**  
**2021**  
[WWW.AIMCO-GLOBAL.COM](http://WWW.AIMCO-GLOBAL.COM)



**AIMCO**

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

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

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. See page 173 for ERGO-DRIVE details.



# 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.





# 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 40 years of serving our industrial fastening customers with 15 years of designing and 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.



Four Digit LED Torque Display:  
Large numbers can be seen  
from a distance.

Parameter Set Display:  
Displays current  
parameter set and  
enables user to  
quickly change by  
scrolling up or down.

Secondary display allows  
user to easily set and toggle  
through information:

- Angle
- Engineering Units
- Bolt Count
- Job/Job Sequence


Optional 7" Touch-  
Screen Display:

- Runs the same  
software on PC for  
ease of use
- Real-Time  
Graphing
- Selectable Run  
Screens

## FEATURES AND BENEFITS

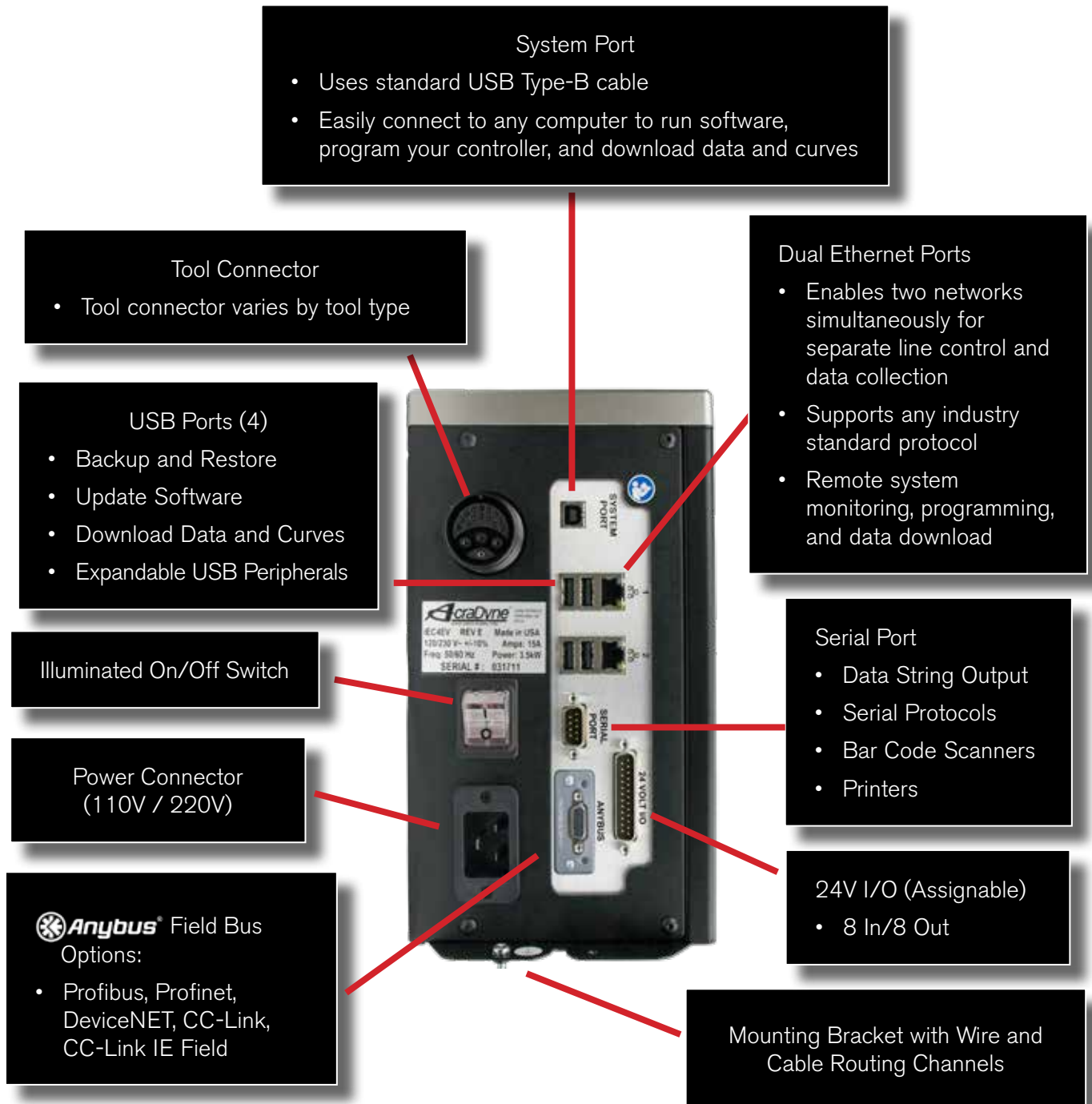
- Web browser based programming – Receive data on your PC, tablet, smartphone, or any other web-capable device. You can use more than one device at a time: Be in program mode on one device while reviewing real-time curves on another, while watching tool diagnostics on a third
- Multiple fastening strategies – 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



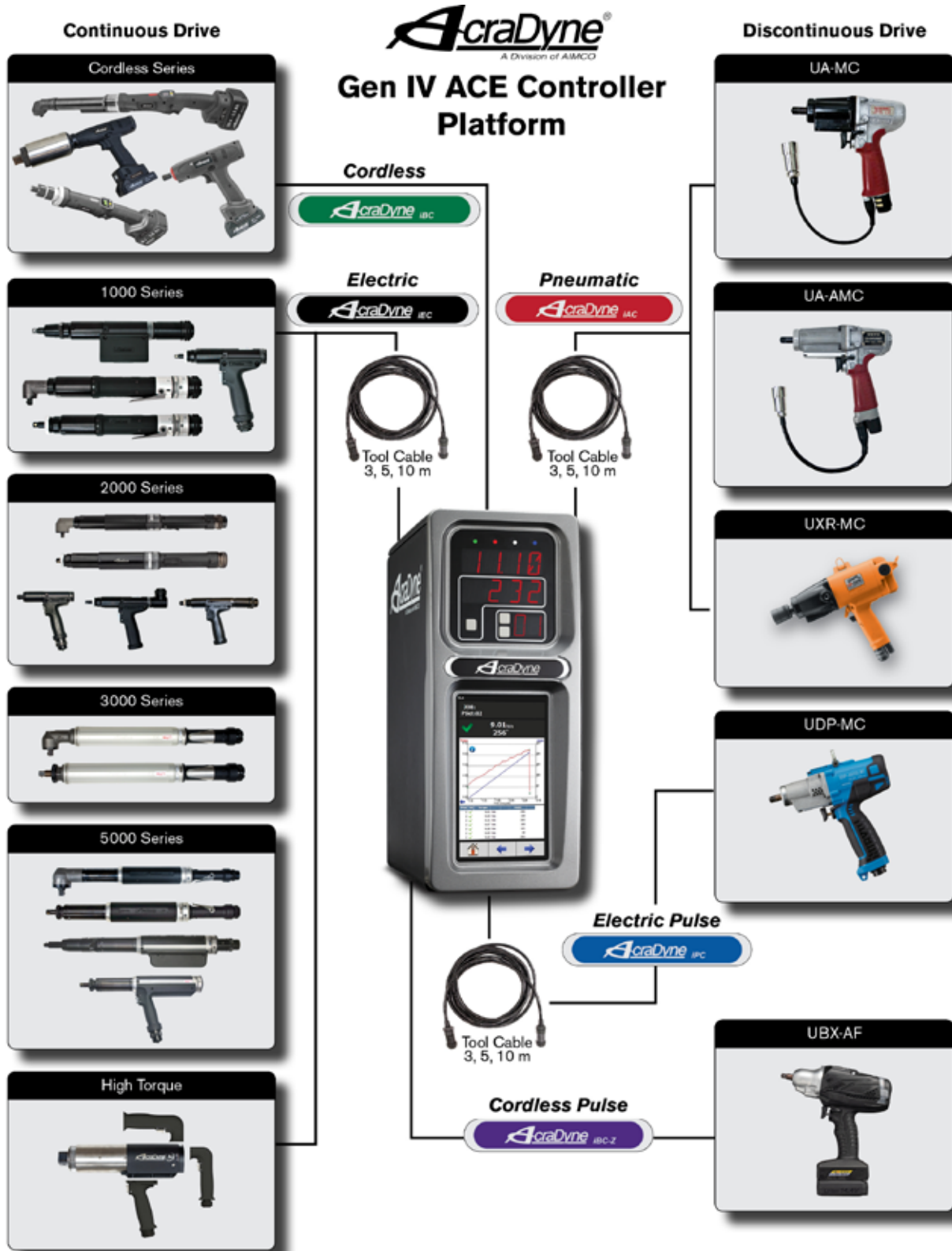
# ACRADYNE GEN IV ACE CONTROLLER PLATFORM



# 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 Fieldus platforms.



# ACRADYNE GEN IV ACE CONTROLLER PLATFORM



GEN IV ACE iEC Controller for all AcraDyne DC 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>             |                                |                                      |                           |                            |                        |                      |
| 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)(G-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

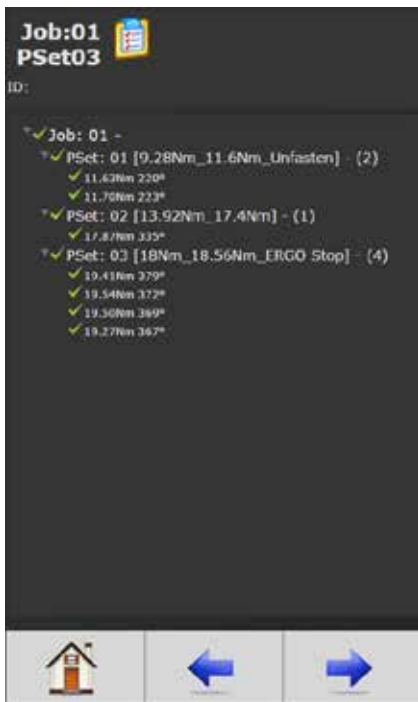


# ACRADYNE CONTROLLER SOFTWARE

## 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.

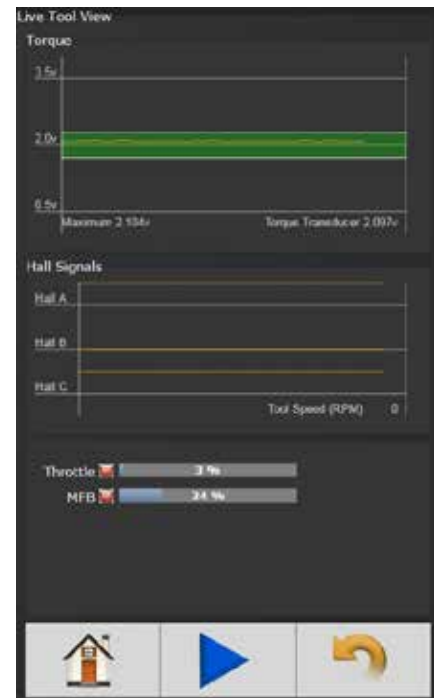
The software is based on a standard web browser, allowing you to connect the AcraDyne controller with any computer, tablet, or smart device. Connect through Ethernet, USB, or wirelessly via a network connected to both devices.



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

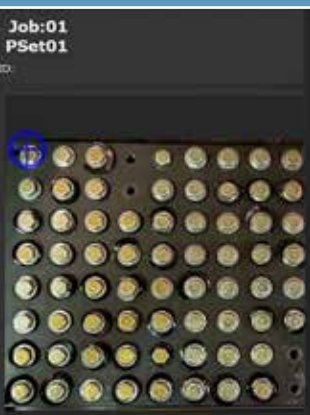
AcraDyne Gen IV Controller's smart arm capability provides an advanced error-proofing solution to ensure the quality of your fastening operation. The process requires no external PC or software – the capability is on-board every Gen IV controller.

### FEATURES AND BENEFITS

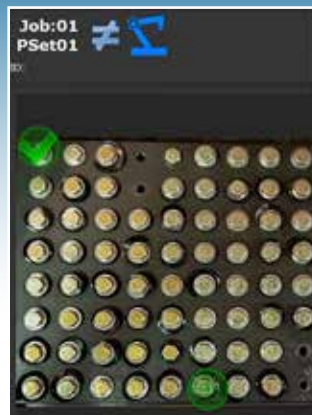
- Easy-to-follow visual guidance on the Gen IV controller graphical screen
- Easy setup – programming takes only minutes
- Once fastener locations are programmed into the Gen IV controller, the system can perform specific actions on specific fasteners
- No external PC or third-party software needed. 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



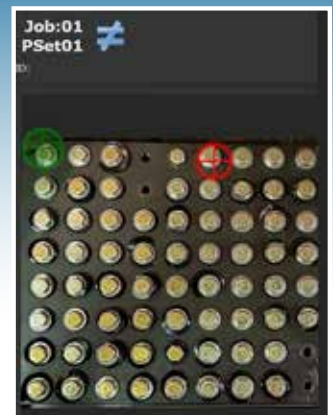
The Gen IV controller provides easy-to-follow visual guidance directly on the graphical screen.



Tool in position over Bolt 1



Bolt 1 OK  
Direction to Bolt 2



Tool in wrong location

# GEN IV SMART ARM SYSTEM WITH PROCESS VISUALIZATION

## Smart Arm Accessory:

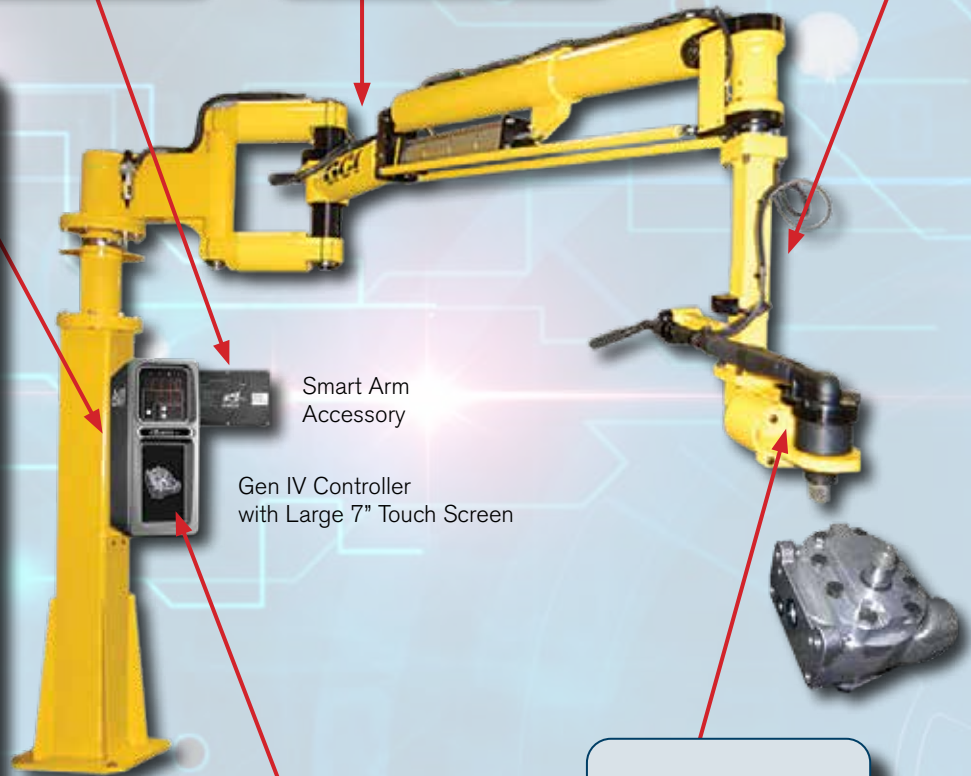
- Requires no external PC or third-party software for operation
- Gen IV Controller Software integrates with plant manufacturing execution software or allows custom programming

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

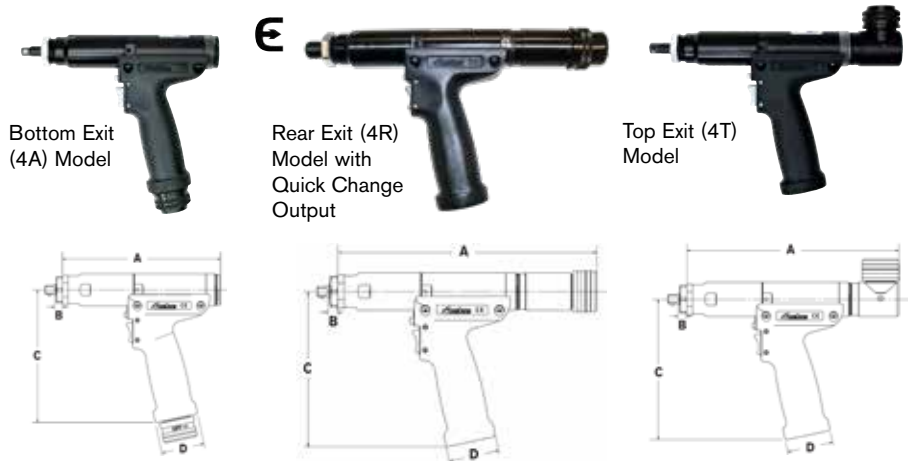
1 - 22 Nm

- 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



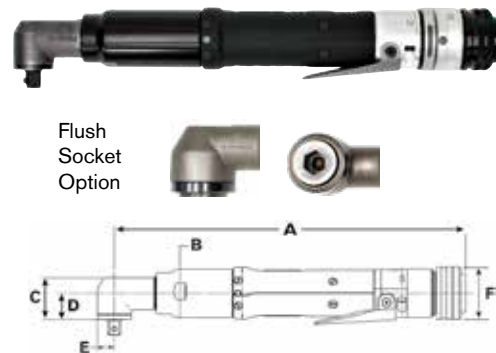
### 1000 Series Pistol Tools

| 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   |
| <b>Pistol</b><br>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<br>R = 9.3<br>T = 8.3     | 165.1<br>236<br>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<br>R = 9.3<br>T = 8.3     | 165.1<br>236<br>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<br>R = 10.34<br>T = 8.97 | 182.2<br>262.7<br>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<br>R = 10.34<br>T = 8.97 | 182.2<br>262.7<br>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<br>R = 10.34<br>T = 8.97 | 182.2<br>262.7<br>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<br>R = 10.34<br>T = 8.97 | 182.2<br>262.7<br>228 | 0.38 | 9.6 | 6.01 | 152.6 | 1.96 | 49.7 |
| <b>Pistol Push-to-Start</b>                |            |       |              |           |                |                   |      |                    |                                   |                       |      |     |      |       |      |      |
| 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 |

\* € 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   |
| <b>Angle</b> 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 |

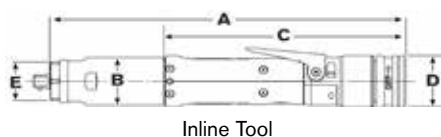
## 1000 Series Inline Tools

- 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   |
| <b>Inline</b> 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 |
| <b>Inline Push-to-Start</b> (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

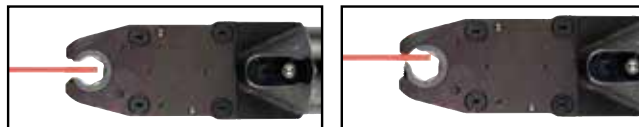


Push-to-Start Tool

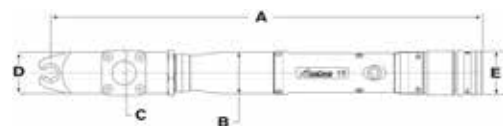
\* € logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

## 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    | MAX TORQUE                             |       | TORQUE RANGE |          | FREE SPEED RPM | WEIGHT (-) SOCKET |      | OUTPUT DRIVE |         | A    |       | B    |      | C    |      | D    |      | E    |      |
|----------------|--|-------|--------------|----------|----------------|-------------------|------|--------------|---------|------|-------|------|------|------|------|------|------|------|------|
|                | NM                                     | FT-LB | NM           | FT-LB    |                | LB                | KG   | IN           | MM      | IN   | MM    | IN   | MM   | IN   | MM   | IN   | MM   |      |      |
| <b>Tubenut</b> | 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 |



DESIGNED + MADE IN THE USA

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

## 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



Rear Exit Model



Bottom Exit Model



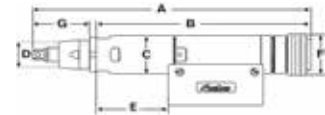
1-3/4" Sliding Spindle Model

## 1000 Series Fixtured Tools

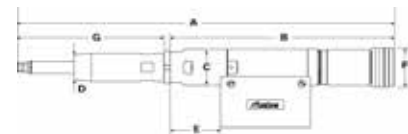
| MODEL                     | MAX TORQUE                       |       | TORQUE RANGE                       |           | FREE SPEED<br>RPM              | WEIGHT (-) SOCKET |      | OUTPUT DRIVE<br>SQ DR |
|---------------------------|----------------------------------|-------|------------------------------------|-----------|--------------------------------|-------------------|------|-----------------------|
|                           | NM                               | FT-LB | NM                                 | FT-LB     |                                | LB                | KG   |                       |
| <b>Fixtured</b>           | 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"                  |

## 1000 Series Fixtured Tool Dimensions

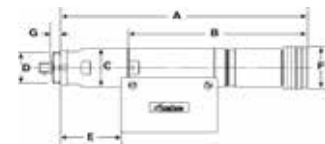
| FIXTURED    | A     |       | B    |       | C    |      | D    |      | E    |      | F    |      | G    |       |
|-------------|-------|-------|------|-------|------|------|------|------|------|------|------|------|------|-------|
|             | IN    | MM    | IN   | MM    | IN   | MM   | IN   | MM   | IN   | MM   | IN   | MM   | IN   | MM    |
| AEF4A12003B | 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  |
| 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 | 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  |
| AEF4A12014B | 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  |
| AEF4A12018B | 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  |
| 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 | 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 |
| 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 | 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 |
| AEF4C12014B | 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 |
| AEF4C12018B | 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 |
| 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 | 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   |
| 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 | 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   |
| AEF4X12014B | 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   |
| AEF4X12018B | 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   |
| 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   |



AEF4A 1/2" Sliding Spindle Model



AEF4C 1-3/4" Sliding Spindle Model



AEF4X Fixed 3/8" Sq. Dr. Model

# 2000 SERIES

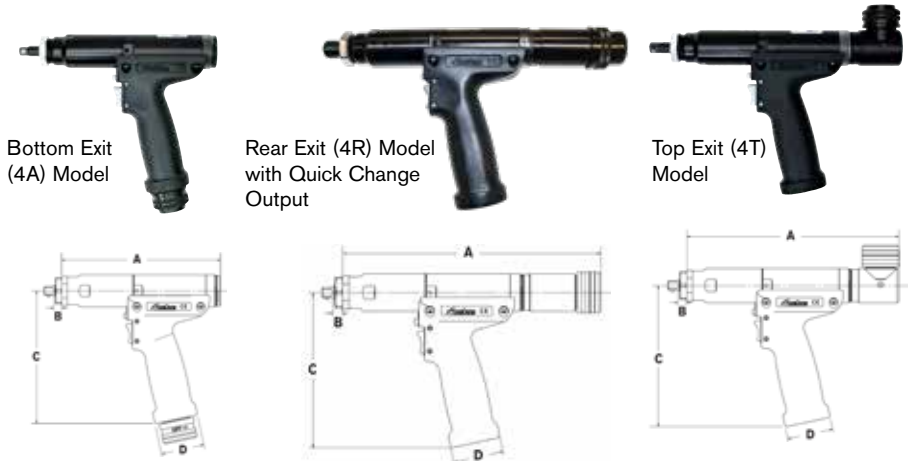
3 - 55 Nm

- 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<br>RPM    | WEIGHT (-) SOCKET |      | OUTPUT<br>SQ.DR | (A)       |       | (B)  |     | (C)      |       | (D)  |      |
|------------------------|----------------------------------|-------|-----------------------|----------|----------------------|-------------------|------|-----------------|-----------|-------|------|-----|----------|-------|------|------|
|                        | NM                               | FT-LB | NM                    | FT-LB    |                      | LB                | KG   |                 | IN        | MM    | IN   | MM  | IN       | MM    | IN   | MM   |
| <b>Pistol Tools</b>    | 4A Models = Bottom Exit          |       | 4R Models = Rear Exit |          | 4T Models = Top Exit |                   |      |                 |           |       |      |     |          |       |      |      |
|                        | (V) = Extended Ergo-Drive Output |       |                       |          |                      |                   |      |                 |           |       |      |     |          |       |      |      |
| AEP4(A)(R)(T)22020B(V) | 20                               | 14    | 5 - 20                | 3.7 - 14 | 1,313                | 2.4               | 1.09 | 3/8"            | A = 7.82  | 198.7 | 0.38 | 9.7 | A = 6.94 | 176.2 | 1.96 | 49.7 |
|                        |                                  |       |                       |          |                      |                   |      |                 | R = 10.65 | 270.6 |      |     | R = 6.01 | 152.6 |      |      |
|                        |                                  |       |                       |          |                      |                   |      |                 | T = 9.71  | 246.5 |      |     | T = 6.01 | 152.6 |      |      |
| AEP4(A)(R)(T)22025B(V) | 25                               | 18    | 6.3 - 25              | 4.6 - 18 | 1,037                | 2.4               | 1.09 | 3/8"            | A = 7.82  | 198.7 | 0.38 | 9.7 | A = 6.94 | 176.2 | 1.96 | 49.7 |
|                        |                                  |       |                       |          |                      |                   |      |                 | R = 10.65 | 270.6 |      |     | R = 6.01 | 152.6 |      |      |
|                        |                                  |       |                       |          |                      |                   |      |                 | T = 9.71  | 246.5 |      |     | T = 6.01 | 152.6 |      |      |
| AEP4(A)(R)(T)22030B(V) | 30                               | 22    | 7.5 - 30              | 5.5 - 22 | 840                  | 2.4               | 1.09 | 3/8"            | A = 7.82  | 198.7 | 0.38 | 9.7 | A = 6.94 | 176.2 | 1.96 | 49.7 |
|                        |                                  |       |                       |          |                      |                   |      |                 | R = 10.65 | 270.6 |      |     | R = 6.01 | 152.6 |      |      |
|                        |                                  |       |                       |          |                      |                   |      |                 | T = 9.71  | 246.5 |      |     | T = 6.01 | 152.6 |      |      |
| AEP4(A)(R)(T)22035B(V) | 35                               | 25    | 8.8 - 35              | 6.5 - 25 | 747                  | 2.4               | 1.09 | 3/8"            | A = 7.82  | 198.7 | 0.38 | 9.7 | A = 6.94 | 176.2 | 1.96 | 49.7 |
|                        |                                  |       |                       |          |                      |                   |      |                 | R = 10.65 | 270.6 |      |     | R = 6.01 | 152.6 |      |      |
|                        |                                  |       |                       |          |                      |                   |      |                 | T = 9.71  | 246.5 |      |     | T = 6.01 | 152.6 |      |      |
| AEP4(A)(R)(T)22040B(V) | 40                               | 29    | 10 - 40               | 7.4 - 29 | 656                  | 2.4               | 1.09 | 3/8"            | A = 7.82  | 198.7 | 0.38 | 9.7 | A = 6.94 | 176.2 | 1.96 | 49.7 |
|                        |                                  |       |                       |          |                      |                   |      |                 | R = 10.65 | 270.6 |      |     | R = 6.01 | 152.6 |      |      |
|                        |                                  |       |                       |          |                      |                   |      |                 | T = 9.71  | 246.5 |      |     | T = 6.01 | 152.6 |      |      |

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

## 2000 Series Angle and Inline Tools

**NEW**

### Gen IV Series Angle and Inline Nutrunners

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

**Optimal Length**

- Access to most applications
- Easier tool positioning for operators

**Ergonomic Handle**

- Smooth grip surface
- Indexable head for optimizing trigger position



**New Motor Design**

- Lightweight
- Slim diameter

**Updated Trigger Design**

- Lever integrated to tool body for shorter activation stroke
- Increased durability

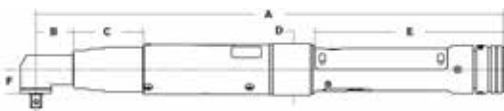
### FEATURES AND BENEFITS

- 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

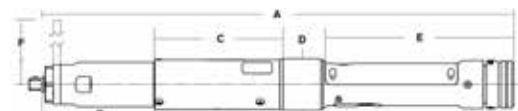
### 2000 Series Angle & Inline Tools

| MODEL   | TORQUE RANGE |             | FREE SPEED<br>RPM | WEIGHT<br>(-) SOCKET |     | OUTPUT<br>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   |
| <b>Angle Tools</b>  |              |             |                   |                      |     |                  |     |      |      |     |       |     |      |     |     |     |      |      |
| AEN4C22014B   | 3.5 - 14     | 2.6 - 10.3  | 1,750             | 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  |
| AEN4C22024B   | 6 - 24       | 4.4 - 17.7  | 875               | 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  |
| AEN4F22029B   | 7.3 - 29     | 5.4 - 21.4  | 788               | 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 |
| AEN4F22036B   | 9 - 36       | 6.6 - 26.6  | 622               | 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 |
| AEN4F22043B   | 10.8 - 43    | 8 - 31.7    | 504               | 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 |
| AEN4F22055B   | 13.8 - 55    | 10.2 - 40.6 | 394               | 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 |
| <b>Inline Tools (Includes Reaction Bar and Fixture Nut)</b> |              |             |                   |                      |     |                  |     |      |      |     |       |     |      |     |     |     |      |      |
| AES4A22020B   | 5 - 20       | 3.7 - 14.8  | 1,313             | 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   |
| AES4A22025B   | 6.3 - 25     | 4.6 - 18.4  | 1,037             | 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   |
| AES4A22030B   | 7.5 - 30     | 5.5 - 22.1  | 840               | 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   |
| AES4A22035B   | 8.8 - 35     | 6.5 - 25.8  | 747               | 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   |
| AES4A22040B   | 10 - 40      | 7.4 - 29.5  | 656               | 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 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



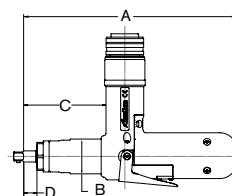
Specialized heads and blades available by request.  
Contact AIMCO at 1-503-254-6600, or toll free 1-800-852-1368.

### 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    |
| <b>Mid-Exit Models: Angle Body Style</b> 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 |
| <b>Mid-Exit Models: Inline, Straight, and Offset Body Style</b>                   |            |       |              |           |                |                   |      |                |       |       |      |      |      |      |      |      |     |      |      |       |
| 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 | -   | -    | -    | -     |



Angle Body Style



Inline, Straight, and Offset Body Style

## 3000 SERIES

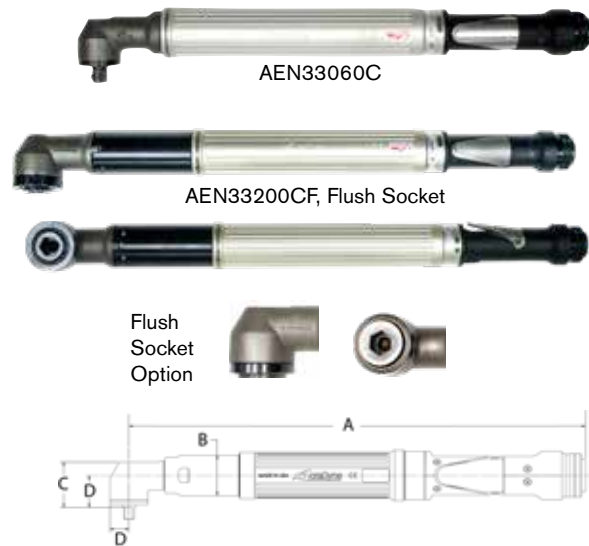
10 – 600 Nm

- 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<br>RPM                       | WEIGHT<br>(-) SOCKET |      | OUTPUT<br>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    |
| <b>3000 Series</b> | Add "F" to Part Numbers for Flush Socket |       |              |          | Add "DL" to Part Numbers for Dual Lever |                      |      |                 |       |        |      |      |      |       |      |       |      |       |
| AEN33042C(F)       | 42                                       | 31    | 9.5 - 42     | 7 - 31   | 1,095                                   | 4.4                  | 2.00 | 3/8             | 16.78 | 426.3  | 1.47 | 37.3 | 1.66 | 42.11 | 1.17 | 29.67 | .70  | 17.78 |
| AEN33053C(F)       | 53                                       | 39    | 12 - 53      | 8 - 39   | 865                                     | 4.4                  | 2.00 | 3/8             | 16.81 | 426.9  | 1.47 | 37.3 | 1.66 | 42.11 | 1.17 | 29.67 | .70  | 17.78 |
| AEN33060C(F)(DL)   | 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)   | 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(F)(DL)   | 210                                      | 95    | 50 - 210     | 37 - 155 | 234                                     | 10.0                 | 4.54 | 3/4             | 23.8  | 604.49 | 1.85 | 47   | 2.97 | 75    | 2.04 | 52    | 1.25 | 32    |
| AEN33300C(F)(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(F)(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

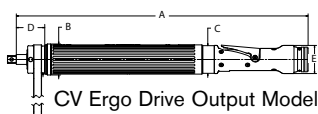
**E**



AES33040CV



AES33060C-2



CV Ergo Drive Output Model



C-2 2" Sliding Spindle Model



400 Nm & 600 Nm Models with Standard Square Drive Output

## 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    |      |      |
| <b>3000 Series</b> | (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<br>-2 = 23.89 | 469<br>606.8   | 1.96 | 49.8 | V = 1.75<br>-2 = 1.85 | 44.5<br>47 | V = 1.8<br>-2 = 4.3   | 45.7<br>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<br>-2 = 23.89 | 469<br>606.8   | 1.96 | 49.8 | V = 1.75<br>-2 = 1.85 | 44.5<br>47 | V = 1.8<br>-2 = 4.3   | 45.7<br>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<br>-2 = 27.71 | 578.6<br>703.8 | 1.96 | 49.8 | V = 1.75<br>-2 = 1.85 | 44.5<br>47 | V = 6.11<br>-2 = 3.96 | 155.3<br>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<br>-2 = 27.71 | 578.6<br>703.8 | 1.96 | 49.8 | V = 1.75<br>-2 = 1.85 | 44.5<br>47 | V = 6.11<br>-2 = 3.96 | 155.3<br>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<br>-2 = 27.71 | 578.6<br>703.8 | 1.96 | 49.8 | V = 1.75<br>-2 = 1.85 | 44.5<br>47 | V = 6.11<br>-2 = 3.96 | 155.3<br>100.5 | 1.78 | 45.2  |      |      |
| AES33400C          | 400                              | 295   | 80 - 400     | 59 - 295 | 122                     | 13.0*             | 5.90* | 3/4"          |                         |                | 25.2 | 640  | 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"          |                         |                | 25.2 | 640  | 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

- 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   |
| <b>Hold &amp; Drive</b> | (-1) = 1" Travel (-2) = 2" Travel |       |              |         |                |                        |                               |       |       |      |    |                        |                |      |      |      |      |
| AEH33042C(-1)(-2)       | 42                                | 31    | 10 - 42      | 7 - 31  | 1,095          | -1 = 5.6<br>-2 = 5.8   | 9/16 (14 mm)<br>13/16 (21 mm) | 16.79 | 426.5 | 1.85 | 47 | -1 = 3.17<br>-2 = 4.17 | 80.6<br>106    | 1.44 | 36.5 | 1.59 | 40.4 |
| AEH33053C(-1)(-2)       | 53                                | 39    | 12 - 53      | 8 - 39  | 865            | -1 = 5.6<br>-2 = 5.8   | 9/16 (14 mm)<br>13/16 (21 mm) | 16.79 | 426.5 | 1.85 | 47 | -1 = 3.17<br>-2 = 4.17 | 80.6<br>106    | 1.44 | 36.5 | 1.59 | 40.4 |
| AEH33060C(-1)(-2)       | 60                                | 44    | 12 - 60      | 9 - 44  | 845            | -1 = 7.3<br>-2 = 7.5   | 9/16 (14 mm)<br>1-1/4 (32 mm) | 19.1  | 485.1 | 1.85 | 47 | -1 = 3.36<br>-2 = 4.37 | 85.3<br>111.1  | 1.88 | 47.6 | 1.78 | 45.2 |
| AEH33090C(-1)(-2)       | 90                                | 66    | 18 - 90      | 13 - 66 | 568            | -1 = 7.3<br>-2 = 7.6   | 9/16 (14 mm)<br>1-1/4 (32 mm) | 16.79 | 426.5 | 1.85 | 47 | -1 = 3.36<br>-2 = 4.37 | 85.3<br>111.1  | 1.88 | 47.6 | 1.78 | 45.2 |
| AEH33120C(-1)(-2)       | 120                               | 89    | 24 - 120     | 18 - 89 | 442            | -1 = 10.0<br>-2 = 10.3 | 5/8 (15 mm)<br>1-1/4 (32 mm)  | 21.22 | 539.1 | 1.85 | 47 | -1 = 4.09<br>-2 = 5.09 | 103.8<br>129.2 | 2.25 | 57.2 | 1.78 | 45.2 |

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

## 5000 SERIES

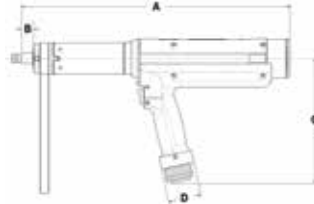
20 - 635 Nm

- 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

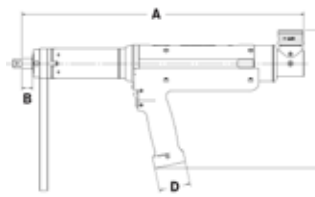


### 5000 Series Pistol Tools

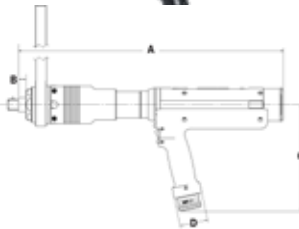
- Bottom and top exit models, as well as push-to start models available
- Ergo drive available on 75 - 170 Nm models
- Programmable Multi-Function Button: One single button facilitates several distinctly different tasks



Extended Ergo Drive  
Bottom Exit (AV) Model



Extended Ergo Drive  
Top Exit (AVT) Model



Standard Square Drive  
Bottom Exit (A) Model

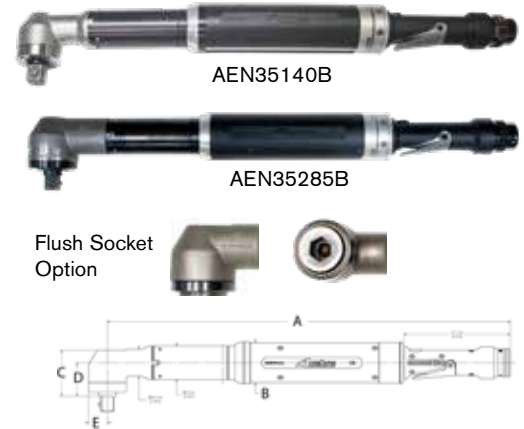
### 5000 Series Pistol Tools

| 5000 Series     | MAX TORQUE |       | TORQUE RANGE |           | FREE SPEED<br>RPM | WEIGHT<br>(-) SOCKET |      | OUTPUT<br>SQ DR | (A)                       |                | (B) |      | (C)                     |                | (D)  |      |
|-----------------|------------|-------|--------------|-----------|-------------------|----------------------|------|-----------------|---------------------------|----------------|-----|------|-------------------------|----------------|------|------|
|                 | NM         | FT-LB | NM           | FT-LB     |                   | LB                   | KG   |                 | IN                        | MM             | IN  | MM   | IN                      | MM             | IN   | MM   |
| AEP35075AV(T)   | 75         | 55    | 19 - 75      | 14 - 55   | 944               | 9.2                  | 4.17 | 1/2             | AV = 15.95<br>AVT = 16.83 | 405.2<br>427.4 | .68 | 17.4 | AV = 7.44<br>AVT = 8.63 | 188.9<br>219   | 1.96 | 49.7 |
| AEP35090AV(T)   | 90         | 66    | 23 - 90      | 17 - 66   | 767               | 9.2                  | 4.17 | 1/2             | AV = 15.95<br>AVT = 16.83 | 405.2<br>427.4 | .68 | 17.4 | AV = 7.44<br>AVT = 8.63 | 188.9<br>219   | 1.96 | 49.7 |
| AEP35110AV(T)   | 110        | 81    | 28 - 110     | 21 - 81   | 634               | 9.2                  | 4.17 | 1/2             | AV = 15.95<br>AVT = 16.83 | 405.2<br>427.4 | .68 | 17.4 | AV = 7.44<br>AVT = 8.63 | 188.9<br>219   | 1.96 | 49.7 |
| AEP35135AV(T)   | 135        | 99    | 34 - 135     | 25 - 99   | 515               | 9.2                  | 4.17 | 1/2             | AV = 15.95<br>AVT = 16.83 | 405.2<br>427.4 | .68 | 17.4 | AV = 7.44<br>AVT = 8.63 | 188.9<br>219   | 1.96 | 49.7 |
| AEP35170AV(T)   | 170        | 125   | 43 - 170     | 32 - 125  | 418               | 9.2                  | 4.17 | 1/2             | AV = 15.95<br>AVT = 16.83 | 405.2<br>427.4 | .68 | 17.4 | AV = 7.44<br>AVT = 8.63 | 188.9<br>219   | 1.96 | 49.7 |
| AEP35280A(T)    | 280        | 206   | 70 - 280     | 52 - 207  | 236               | 13.6                 | 6.17 | 3/4             | A = 18.51<br>AT = 19.41   | 470.3<br>493.1 | .52 | 13.1 | A = 7.44<br>AT = 8.59   | 188.9<br>217.9 | 1.96 | 49.7 |
| AEP35350A(T)    | 350        | 258   | 88 - 350     | 65 - 258  | 192               | 13.6                 | 6.17 | 3/4             | A = 18.51<br>AT = 19.41   | 470.3<br>493.1 | .52 | 13.1 | A = 7.44<br>AT = 8.59   | 188.9<br>217.9 | 1.96 | 49.7 |
| AEP35420A(T)    | 420        | 310   | 105 - 420    | 78 - 310  | 159               | 13.6                 | 6.17 | 3/4             | A = 18.51<br>AT = 19.41   | 470.3<br>493.1 | .52 | 13.1 | A = 7.44<br>AT = 8.59   | 188.9<br>217.9 | 1.96 | 49.7 |
| AEP35515A(T)    | 515        | 380   | 128 - 515    | 95 - 380  | 129               | 13.6                 | 6.17 | 3/4             | A = 18.51<br>AT = 19.41   | 470.3<br>493.1 | .52 | 13.1 | A = 7.44<br>AT = 8.59   | 188.9<br>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<br>AT = 19.41   | 470.3<br>493.1 | .52 | 13.1 | A = 7.44<br>AT = 8.59   | 188.9<br>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

| 5000 Series  | MAX TORQUE |       | TORQUE RANGE |          | FREE SPEED<br>RPM | WEIGHT (-) |      | OUTPUT<br>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   |
| 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 |
| 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

| 5000 Series | MAX TORQUE |       | TORQUE RANGE |           | FREE SPEED<br>RPM | WEIGHT (-) |      | OUTPUT<br>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   |
| 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



AEF35135A-2  
2" Sliding Spindle, Rear Exit Model



AEF35135AB-2  
2" Sliding Spindle, Bottom Exit Model

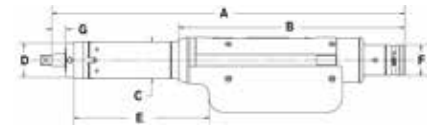
## 5000 Series Fixtured Tools

| MODEL                     | MAX TORQUE   |       | TORQUE RANGE |           | FREE SPEED<br>RPM | WEIGHT<br>(-) SOCKET |      | OUTPUT<br>SQ. 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<br>(-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"              |

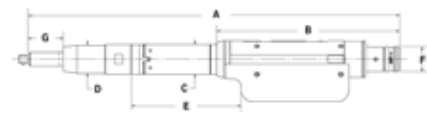
\* Item 28843 is a panel mount 2" sliding spindle for 280 - 635 Nm models.

## 5000 Series Fixtured Tool Dimensions

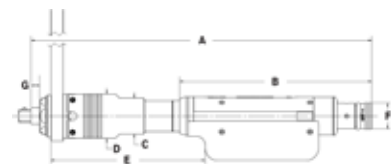
| MODEL       | (A)   |       | (B)   |       | (C)  |      | (D)  |      | (E)  |       | (F)  |      | (G)  |      |
|-------------|-------|-------|-------|-------|------|------|------|------|------|-------|------|------|------|------|
|             | IN    | MM    | IN    | MM    | IN   | MM   | IN   | MM   | IN   | MM    | IN   | MM   | IN   | MM   |
| AEF35075AV  | 18.04 | 458.2 | 11.55 | 293.3 | 1.85 | 47   | 1.75 | 44.4 | 6.92 | 175.9 | 1.56 | 39.6 | .72  | 18.4 |
| AEF35090AV  | 18.04 | 458.2 | 11.55 | 293.3 | 1.85 | 47   | 1.75 | 44.4 | 6.92 | 175.9 | 1.56 | 39.6 | .72  | 18.4 |
| AEF35110AV  | 18.04 | 458.2 | 11.55 | 293.3 | 1.85 | 47   | 1.75 | 44.4 | 6.92 | 175.9 | 1.56 | 39.6 | .72  | 18.4 |
| AEF35135AV  | 18.04 | 458.2 | 11.55 | 293.3 | 1.85 | 47   | 1.75 | 44.4 | 6.92 | 175.9 | 1.56 | 39.6 | .72  | 18.4 |
| AEF35170AV  | 18.04 | 458.2 | 11.55 | 293.3 | 1.85 | 47   | 1.75 | 44.4 | 6.92 | 175.9 | 1.56 | 39.6 | .72  | 18.4 |
| AEF35075A-2 | 23.48 | 596.3 | 11.55 | 293.3 | 1.85 | 47   | 1.75 | 44.4 | 6.92 | 175.9 | 1.59 | 40.4 | 2.23 | 56.6 |
| AEF35090A-2 | 23.48 | 596.3 | 11.55 | 293.3 | 1.85 | 47   | 1.75 | 44.4 | 6.92 | 175.9 | 1.59 | 40.4 | 2.23 | 56.6 |
| AEF35110A-2 | 23.48 | 596.3 | 11.55 | 293.3 | 1.85 | 47   | 1.75 | 44.4 | 6.92 | 175.9 | 1.59 | 40.4 | 2.23 | 56.6 |
| AEF35135A-2 | 23.48 | 596.3 | 11.55 | 293.3 | 1.85 | 47   | 1.75 | 44.4 | 6.92 | 175.9 | 1.59 | 40.4 | 2.23 | 56.6 |
| AEF35170A-2 | 23.48 | 596.3 | 11.55 | 293.3 | 1.85 | 47   | 1.75 | 44.4 | 6.92 | 175.9 | 1.59 | 40.4 | 2.23 | 56.6 |
| AEF35280A   | 20.48 | 520.2 | 11.55 | 293.3 | 2.14 | 54.4 | 2.64 | 67.1 | 9.28 | 235.7 | 1.56 | 39.6 | .52  | 13.1 |
| AEF35350A   | 20.48 | 520.2 | 11.55 | 293.3 | 2.14 | 54.4 | 2.64 | 67.1 | 9.28 | 235.7 | 1.56 | 39.6 | .52  | 13.1 |
| AEF35420A   | 20.48 | 520.2 | 11.55 | 293.3 | 2.14 | 54.4 | 2.64 | 67.1 | 9.28 | 235.7 | 1.56 | 39.6 | .52  | 13.1 |
| AEF35515A   | 20.48 | 520.2 | 11.55 | 293.3 | 2.14 | 54.4 | 2.64 | 67.1 | 9.28 | 235.7 | 1.56 | 39.6 | .52  | 13.1 |
| AEF35635A   | 20.48 | 520.2 | 11.55 | 293.3 | 2.14 | 54.4 | 2.64 | 67.1 | 9.28 | 235.7 | 1.56 | 39.6 | .52  | 13.1 |



Extended Ergo Drive Output (AV) Models



2" Sliding Spindle (A-2) Models

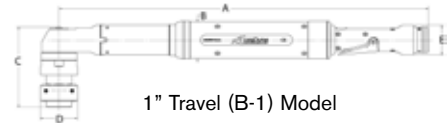


Standard Spindle (A) Models

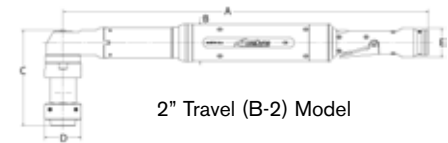
\* **E** logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

## 5000 Series Hold-and-Drive Tools

- Torques ranging from 90 Nm – 350 Nm
- Very robust design
- 1" and 2" travels are standard
- 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<br>RPM | WEIGHT<br>(LB)         | MIN SOCKET<br>MAX SOCKET      | (A)   |       | (B)  |      | (C)                    |                | (D)  |       | (E)  |      |
|-------------------------|------------------|-------|------------------|----------|-------------------|------------------------|-------------------------------|-------|-------|------|------|------------------------|----------------|------|-------|------|------|
|                         | NM               | FT-LB | NM               | FT-LB    |                   |                        |                               | IN    | MM    | IN   | MM   | IN                     | MM             | IN   | MM    | IN   | MM   |
| <b>Hold &amp; Drive</b> | (-1) = 1" Travel |       | (-2) = 2" Travel |          |                   |                        |                               |       |       |      |      |                        |                |      |       |      |      |
| AEH35090B(-1)(-2)       | 90               | 66    | 23 - 90          | 17 - 66  | 607               | -1 = 7.6<br>-2 = 7.9   | 9/16 (14 mm)<br>1-1/4 (32 mm) | 22.63 | 574.8 | 2.31 | 58.7 | -1 = 4.02<br>-2 = 4.96 | 102.1<br>126   | 1.88 | 47.6  | 1.78 | 45.2 |
| AEH35140B(-1)(-2)       | 140              | 103   | 35 - 140         | 26 - 103 | 472               | -1 = 10.6<br>-2 = 11.0 | 5/8 (15 mm)<br>1-1/4 (32 mm)  | 22.56 | 572.9 | 2.31 | 58.7 | -1 = 4.87<br>-2 = 5.87 | 123.7<br>149.1 | 2.25 | 57.15 | 1.78 | 45.2 |
| AEH35175B(-1)(-2)       | 175              | 129   | 44 - 175         | 33 - 129 | 384               | -1 = 10.6<br>-2 = 11.1 | 5/8 (15 mm)<br>1-1/4 (32 mm)  | 22.52 | 571.9 | 2.31 | 58.7 | -1 = 4.87<br>-2 = 5.87 | 123.7<br>149.1 | 2.25 | 57.15 | 1.78 | 45.2 |
| AEH35225B(-1)(-2)       | 225              | 166   | 56 - 225         | 41 - 166 | 291               | -1 = 12.9<br>-2 = 13.3 | 3/4 (19 mm)<br>1-1/4 (32 mm)  | 22.92 | 582.2 | 2.31 | 58.7 | -1 = 5.52<br>-2 = 6.52 | 140.1<br>165.5 | 2.63 | 66.7  | 1.78 | 45.2 |
| AEH35285B(-1)(-2)       | 285              | 210   | 71 - 285         | 52 - 210 | 236               | -1 = 12.9<br>-2 = 13.3 | 3/4 (19 mm)<br>1-1/4 (32 mm)  | 22.92 | 582.2 | 2.31 | 58.7 | -1 = 5.52<br>-2 = 6.52 | 140.1<br>165.5 | 2.63 | 66.7  | 1.78 | 45.2 |
| AEH35350B(-1)(-2)       | 350              | 258   | 88 - 350         | 65 - 258 | 191               | -1 = 12.9<br>-2 = 13.3 | 3/4 (19 mm)<br>1-1/4 (32 mm)  | 22.92 | 582.2 | 2.31 | 58.7 | -1 = 5.52<br>-2 = 6.52 | 140.1<br>165.5 | 2.63 | 66.7  | 1.78 | 45.2 |

### 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.



# ACRADYNE RIVET NUTRUNNERS

## 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. Straight, Fixtured, and Push-to-Start models are available by request. Contact AIMCO at 1-503-254-6600, or toll free 1-800-852-1368
- Simple, quick mandrel change design
- Low-friction coating on mandrel for extended life
- Precise control of rivet compression with Torque and Angle detection capability
- Suitable for a wide range of material thicknesses – limited only by rivet nut size
- 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



## Specifications

| MODEL*               | MAX TORQUE              |       | TORQUE RANGE          |           | FREE SPEED<br>RPM    | WEIGHT (-)<br>SOCKET |      | OUTPUT<br>SQ DR | (A)   |       | (B)  |      | (C)  |       | (D)* |      |
|----------------------|-------------------------|-------|-----------------------|-----------|----------------------|----------------------|------|-----------------|-------|-------|------|------|------|-------|------|------|
|                      | NM                      | FT-LB | NM                    | FT-LB     |                      | LB                   | KG   |                 | IN    | MM    | IN   | MM   | IN   | MM    | IN   | MM   |
| <b>1000 Series</b>   | 4A Models = Bottom Exit |       | 4R Models = Rear Exit |           | 4T Models = Top Exit |                      |      |                 |       |       |      |      |      |       |      |      |
| AEP4(A)(R)(T)12006BR | 6                       | 4.4   | 1.5 - 6               | 1.1 - 4.4 | 2,625                | 2.2                  | 1.00 | 3/8             | 9.68  | 245.9 | 1.05 | 26.7 | 6.01 | 152.6 | 1.96 | 49.8 |
| AEP4(A)(R)(T)12011BR | 11                      | 8.1   | 2.8 - 11              | 2 - 8.1   | 1,313                | 2.3                  | 1.04 | 3/8             | 9.68  | 245.9 | 1.05 | 26.7 | 6.87 | 174.5 | 1.96 | 49.8 |
| AEP4(A)(R)(T)12014BR | 14                      | 10    | 3.5 - 14              | 2.6 - 10  | 1,037                | 2.3                  | 1.04 | 3/8             | 9.68  | 245.9 | 1.05 | 26.7 | 6.87 | 174.5 | 1.96 | 49.8 |
| AEP4(A)(R)(T)12018BR | 18                      | 13    | 4.5 - 18              | 3.3 - 13  | 840                  | 2.3                  | 1.04 | 3/8             | 9.68  | 245.9 | 1.05 | 26.7 | 6.87 | 174.5 | 1.96 | 49.8 |
| AEP4(A)(R)(T)12022BR | 22                      | 16    | 5.5 - 22              | 4.1 - 16  | 656                  | 2.3                  | 1.04 | 3/8             | 9.68  | 245.9 | 1.05 | 26.7 | 6.87 | 174.5 | 1.96 | 49.8 |
| <b>2000 Series</b>   | 4A Models = Bottom Exit |       | 4R Models = Rear Exit |           | 4T Models = Top Exit |                      |      |                 |       |       |      |      |      |       |      |      |
| AEP4(A)(R)(T)22020BR | 20                      | 15    | 5 - 20                | 3.7 - 15  | 1,313                | 2.4                  | 1.09 | 3/8             | 10.18 | 258.6 | 1.05 | 26.7 | 6.87 | 174.5 | 1.96 | 49.8 |
| AEP4(A)(R)(T)22030BR | 30                      | 22    | 7.5 - 30              | 5.5 - 22  | 840                  | 2.4                  | 1.09 | 3/8             | 10.18 | 258.6 | 1.05 | 26.7 | 6.87 | 174.5 | 1.96 | 49.8 |
| AEP4(A)(R)(T)22040BR | 40                      | 30    | 10 - 40               | 7.4 - 30  | 656                  | 2.4                  | 1.09 | 3/8             | 10.18 | 258.6 | 1.05 | 26.7 | 6.87 | 174.5 | 1.96 | 49.8 |

## Rivet Tools also Available in the Following Models

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



Straight Series



Push-to-Start Series



Fixtured Series



# 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
- Designed and **MADE IN THE USA**



Straight Lever Type (AES)



Pistol Type (AEP)



Rear Mounted Pistol (AED)



Axial Type (AEJ)



Fixtured Type (AEF)

## HT Fixed Gearcase Tool Specifications

| MODEL                                  | SERIES | APPROX. TORQUE |       | APPROX. SPEED<br>RPM | WEIGHT |      | LENGTH |      | DIA. |     | DRIVE<br>IN | SOUND LEVEL<br>dB(A) |
|--|--------|----------------|-------|----------------------|--------|------|--------|------|------|-----|-------------|----------------------|
|  |        | NM             | FT-LB |                      | KG     | LB   | MM     | IN   | MM   | IN  |             |                      |
| <b>HT Series Fixed Gearcase Models</b> |        |                |       |                      |        |      |        |      |      |     |             |                      |
| AE(P)(D)(S)(J)(F)4A66250B              | 6000   | 250            | 185   | 315                  | 4.6    | 10.5 | 254    | 10   | 66   | 2.6 | 0.75        | 66                   |
| AE(P)(D)(S)(J)(F)4A66425B              | 6000   | 425            | 315   | 165                  | 4.6    | 10.5 | 254    | 10   | 66   | 2.6 | 0.75        | 66                   |
| AE(P)(D)(S)(J)(F)4A66625B              | 6000   | 625            | 460   | 106                  | 4.8    | 10.5 | 254    | 10   | 66   | 2.6 | 0.75        | 66                   |
| AE(P)(D)(S)(J)(F)4A66925B              | 6000   | 925            | 682   | 72                   | 4.8    | 10.5 | 254    | 10   | 66   | 2.6 | 0.75        | 66                   |
| AE(P)(D)(S)(J)(F)4A771200B             | 7000   | 1,200          | 885   | 65                   | 6.6    | 14.5 | 259    | 10.2 | 76   | 3.0 | 1           | 66                   |
| AE(P)(D)(S)(J)(F)4A773000B             | 7000   | 3,000          | 2,213 | 25                   | 7.5    | 16.5 | 294    | 11.6 | 76   | 3.0 | 1           | 66                   |
| AE(P)(D)(S)(J)(F)4A884200B1            | 8000   | 4,200          | 3,100 | 12                   | 11.1   | 24.5 | 340    | 13.4 | 86   | 3.6 | 1           | 66                   |
| AE(P)(D)(S)(J)(F)4A884200B             | 8000   | 4,200          | 3,100 | 12                   | 11.1   | 24.5 | 340    | 13.4 | 86   | 3.6 | 1.5         | 66                   |
| AE(P)(D)(S)(J)(F)4A898100B*            | 8000   | 8,100          | 6,000 | 5                    | 15.7   | 34.5 | 378    | 14.9 | 101  | 4.0 | 1.5         | 66                   |
| AE(F)4A998100B*                        | 9000   | 8,100          | 6,000 | 2.3                  | 21.1   | 46.5 | 496    | 19.5 | 104  | 4.1 | 1.5         | 66                   |

Add "B" to the end of the model number for bottom exit cable (AEF fixtured models only).

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

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# 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 Tool Specifications

| MODEL   | SERIES | APPROX. TORQUE<br>NM | APPROX. TORQUE<br>FT-LB | APPROX. SPEED<br>RPM | WEIGHT**<br>KG | WEIGHT**<br>LB | LENGTH<br>MM | LENGTH<br>IN | DIA.<br>MM | DIA.<br>IN | DRIVE<br>IN | SOUND LEVEL<br>dB(A) |
|---|--------|----------------------|-------------------------|----------------------|----------------|----------------|--------------|--------------|------------|------------|-------------|----------------------|
| <b>HT Series 360° Swivel Gearcase Models</b>            |        |                      |                         |                      |                |                |              |              |            |            |             |                      |
| AE(P)(D)(J)4B66250B                                     | 6000   | 250                  | 185                     | 315                  | 5.3            | 12             | 305          | 12           | 66         | 2.6        | 0.75        | 66                   |
| AE(P)(D)(J)4B66425B                                     | 6000   | 425                  | 315                     | 165                  | 5.3            | 12             | 305          | 12           | 66         | 2.6        | 0.75        | 66                   |
| AE(P)(D)(J)4B66625B                                     | 6000   | 625                  | 460                     | 106                  | 5.5            | 12             | 305          | 12           | 66         | 2.6        | 0.75        | 66                   |
| AE(P)(D)(J)4B66925B                                     | 6000   | 925                  | 682                     | 72                   | 5.5            | 12             | 305          | 12           | 66         | 2.6        | 0.75        | 66                   |
| AE(P)(D)(J)4B771200B                                    | 7000   | 1200                 | 885                     | 65                   | 7.3            | 16             | 310          | 12.2         | 76         | 3.0        | 1           | 66                   |
| AE(P)(D)(J)4B773000B                                    | 7000   | 3,000                | 2,213                   | 25                   | 8.2            | 18             | 345          | 13.6         | 76         | 3.0        | 1           | 66                   |
| AE(P)(D)(J)4B884200B1                                   | 8000   | 4,200                | 3,100                   | 12                   | 11.8           | 26             | 391          | 15.4         | 86         | 3.6        | 1           | 66                   |
| AE(P)(D)(J)4B884200B                                    | 8000   | 4,200                | 3,100                   | 12                   | 11.8           | 26             | 391          | 15.4         | 86         | 3.6        | 1.5         | 66                   |
| AE(P)(D)(J)4B898100B*                                   | 8000   | 8,100                | 6,000                   | 5                    | 16.4           | 36             | 429          | 16.9         | 101        | 4.0        | 1.5         | 66                   |
| AE(P)(J)4B998100B*                                      | 9000   | 8,100                | 6,000                   | 2.3                  | 21.8           | 48             | 544          | 21.4         | 104        | 4.1        | 1.5         | 66                   |
| <b>Models for Extreme Duty / Low Power Environments</b> |        |                      |                         |                      |                |                |              |              |            |            |             |                      |
| <b>Wind Series</b>                                      |        |                      |                         |                      |                |                |              |              |            |            |             |                      |
| AE(P)(D)(J)4W872800B                                    | 8000   | 2,800                | 2,065                   | 9                    | 10.0           | 22             | 328          | 12.9         | 76         | 3.0        | 1           | 66                   |
| AE(P)(D)(J)4W885000B1*                                  | 8000   | 5,000                | 3,700                   | 4.5                  | 11.8           | 26             | 391          | 15.4         | 86         | 3.6        | 1.0         | 66                   |
| AE(P)(D)(J)4W885000B*                                   | 8000   | 5,000                | 3,700                   | 4.5                  | 11.8           | 26             | 391          | 15.4         | 86         | 3.6        | 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.

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# ACRADYNE HIGH TORQUE DC ANGLE TOOLS

## 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
- Smallest tools of their kind on the market
- Same durable, high-cycle gearing as our other HT-series tools
- Models up to 17,000 Nm available upon request



AEN3571000A



AEN356540A



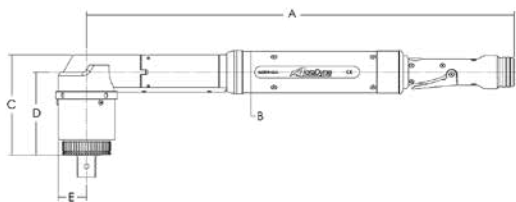
AEN3571600A



AEN3572600A

## HT Angle Tool Specifications

| MODEL       | MAX. TORQUE* |       | TORQUE RANGE |             | FREE SPEED<br>RPM | WEIGHT |      | OUTPUT DRIVE      |
|-------------|--------------|-------|--------------|-------------|-------------------|--------|------|-------------------|
|             | NM           | FT-LB | NM           | FT-LB       |                   | LB     | KG   |                   |
| AEN356540A  | 540          | 398   | 135 - 540    | 100 - 398   | 109               | 13.1   | 5.95 | 3/4" Square Drive |
| AEN3571000A | 1,000        | 737   | 250 - 1,000  | 184 - 737   | 61                | 16.3   | 7.39 | 1" Square Drive   |
| AEN3571600A | 1,600        | 1,180 | 400 - 1,600  | 295 - 1,180 | 33                | 16.7   | 7.57 | 1" Square Drive   |
| AEN3572600A | 2,600        | 1,917 | 650 - 2,600  | 479 - 1,917 | 21                | 18.5   | 8.40 | 1" Square Drive   |



| DIMENSIONS  | A     |       | B    |      | C    |       | D    |       | E    |      |
|-------------|-------|-------|------|------|------|-------|------|-------|------|------|
|             | IN    | MM    | IN   | MM   | IN   | MM    | IN   | MM    | IN   | MM   |
| AEN356540A  | 22.58 | 573.6 | 2.31 | 58.7 | 4.75 | 120.6 | 4.05 | 102.8 | 1.33 | 33.7 |
| AEN3571000A | 22.92 | 582.2 | 2.31 | 58.7 | 5.36 | 136.1 | 4.44 | 112.7 | 1.53 | 38.7 |
| AEN3571600A | 22.92 | 582.2 | 2.31 | 58.7 | 5.36 | 136.1 | 4.44 | 112.7 | 1.53 | 38.7 |
| AEN3572600A | 22.92 | 582.2 | 2.31 | 58.7 | 6.77 | 171.9 | 5.86 | 148.8 | 1.53 | 38.7 |

# ACRADYNE HIGH TORQUE DC ANGLE TOOLS

## A BETTER ANGLE ON BIG JOBS



AcraDyne HT DC Angle Nutrunner is **THE** Tool for Servicing Blades on Wind Turbines



This **unique tool configuration**, built with all of the **AcraDyne HT advantages**, is made in a size that **allows access to blade bolts** that cannot be easily accessed by other continuous drive tools. The **360° swivel gearcase** allows for precise placement of the tool reaction bar against reactive surfaces for ease of use.



**AcraDyne**<sup>®</sup>  
A Division of AIMCO



# ACRADYNE HIGH TORQUE DC ANGLE TOOLS

AcraDyne's HT DC angle nutrunner is one of the smallest tools of its kind on the market. A powerful motor combined with a short-length handle and a 360° swivel gearcase gives you ultimate flexibility in limited-space applications.

## FEATURES AND BENEFITS

- Easy access to previously hard-to-reach blade bolts
- Faster speed than hydraulic tools
- Acquires data in both loosening and retightening directions
- Preset strategies and sequencing for ease of use
- Most intuitive user interface in the industry for setup and data transfer
- Slip ring gearbox for 360° reaction bar movement
- Dual-lever option available
- 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
- One of the most accurate high-torque right-angle tools in the world
- Same durable, high-cycle gearing as AcraDyne's industry-leading HT series tools
- Available with an optional rugged, weather-resistant carrying case

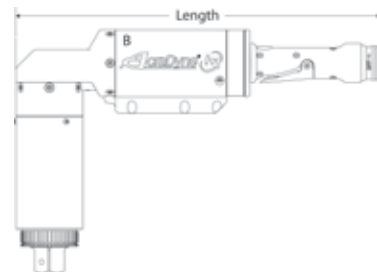


Custom reaction bars available

## HT DC Angle Tool Specifications

| MODEL*           | MAX. TORQUE |       | TORQUE RANGE |             | FREE SPEED<br>RPM | LENGTH<br>(minus reaction bar) |     | WEIGHT |     | OUTPUT<br>SQ DRIVE |
|------------------|-------------|-------|--------------|-------------|-------------------|--------------------------------|-----|--------|-----|--------------------|
|                  | NM          | FT-LB | NM           | FT-LB       |                   | IN                             | MM  | LB     | KG  |                    |
| AEN4B771200B(DL) | 1,200       | 885   | 240 - 1,200  | 177 - 885   | 38                | 16.6                           | 422 | 17.9   | 8.1 | 1"                 |
| AEN4B773000B(DL) | 3,000       | 2,200 | 600 - 3,000  | 443 - 2,200 | 15                | 16.6                           | 422 | 20.4   | 9.3 | 1"                 |

\* Add "DL" to Part Numbers for Dual Lever



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

The Gen IV Field Controller (see page 41) 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.

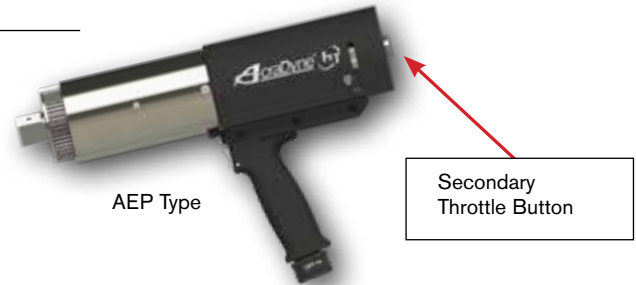
# ACRADYNE HIGH TORQUE DC DUAL-LEVER TOOLS

## HIGH TORQUE DUAL-LEVER 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 Pistol (P) style, J-Handle (J), Straight (S), as well as dual-handle configurations
- Designed and **MADE IN THE USA**



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

AcraDyne's Nutrunners are designed with ultimate operator safety in mind. The optional dual-lever 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 Tool Specifications

| DUAL LEVER<br>MODEL                                | SERIES | APPROX. TORQUE |       | APPROX. SPEED | WEIGHT |    | LENGTH |      | DIA. |     | DRIVE<br>IN | SOUND LEVEL<br>dB(A) |
|--|--------|----------------|-------|---------------|--------|----|--------|------|------|-----|-------------|----------------------|
|  |        | NM             | FT-LB | RPM           | KG     | LB | MM     | IN   | MM   | IN  |             |                      |
| <b>HT Series Fixed Gearcase: Dual-Lever Models</b> |        |                |       |               |        |    |        |      |      |     |             |                      |
| AE(S)(F)4A66250BDL                                 | 6000   | 250            | 185   | 315           | 3.9    | 9  | 203    | 8    | 66   | 2.6 | 0.75        | 66                   |
| AE(S)(F)4A66425BDL                                 | 6000   | 425            | 315   | 165           | 3.9    | 9  | 203    | 8    | 66   | 2.6 | 0.75        | 66                   |
| AE(S)(F)4A66625BDL                                 | 6000   | 625            | 460   | 106           | 4.1    | 9  | 203    | 8    | 66   | 2.6 | 0.75        | 66                   |
| AE(S)(F)4A66925BDL                                 | 6000   | 925            | 682   | 72            | 4.1    | 9  | 203    | 8    | 66   | 2.6 | 0.75        | 66                   |
| AE(S)(F)4A771200BDL                                | 7000   | 1,200          | 885   | 65            | 5.9    | 13 | 208    | 8.2  | 76   | 3.0 | 1           | 66                   |
| AE(S)(F)4A773000BDL                                | 7000   | 3,000          | 2,213 | 25            | 6.8    | 15 | 243    | 9.6  | 76   | 3.0 | 1           | 66                   |
| AE(S)(F)4A898100BDL*                               | 8000   | 8,100          | 6,000 | 5             | 15.0   | 33 | 327    | 12.9 | 101  | 4.0 | 1.5         | 66                   |
| AE(S)(F)4A998100BDL*                               | 9000   | 8,100          | 6,000 | 2.3           | 20.4   | 45 | 456    | 18   | 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.

For Straight Type tools Choose the position of the handle by adding (L) for left side and (R) for right side

## HT 360° Swivel Gearcase Dual-Lever Tool Specifications

| DUAL LEVER<br>MODEL                                      | SERIES | APPROX. TORQUE |       | APPROX. SPEED | WEIGHT |      | LENGTH |      | DIA. |     | DRIVE<br>IN | SOUND LEVEL<br>dB(A) |
|--|--------|----------------|-------|---------------|--------|------|--------|------|------|-----|-------------|----------------------|
|  |        | NM             | FT-LB | RPM           | KG     | LB   | MM     | IN   | MM   | IN  |             |                      |
| <b>HT Series 360° Swivel Gearcase: Dual-Lever Models</b> |        |                |       |               |        |      |        |      |      |     |             |                      |
| AE(S)(F)4B66250BDL                                       | 6000   | 250            | 185   | 315           | 4.6    | 10.5 | 254    | 10   | 66   | 2.6 | 0.75        | 66                   |
| AE(S)(F)4B66425BDL                                       | 6000   | 425            | 315   | 165           | 4.6    | 10.5 | 254    | 10   | 66   | 2.6 | 0.75        | 66                   |
| AE(S)(F)4B66625BDL                                       | 6000   | 625            | 460   | 106           | 4.8    | 10.5 | 254    | 10   | 66   | 2.6 | 0.75        | 66                   |
| AE(S)(F)4B66925BDL                                       | 6000   | 925            | 682   | 72            | 4.8    | 10.5 | 254    | 10   | 66   | 2.6 | 0.75        | 66                   |
| AE(S)(F)4B771200BDL                                      | 7000   | 1,200          | 885   | 65            | 6.6    | 14.5 | 259    | 10.2 | 76   | 3.0 | 1           | 66                   |
| AE(S)(F)4B773000BDL                                      | 7000   | 3,000          | 2,213 | 25            | 7.5    | 16.5 | 294    | 11.6 | 76   | 3.0 | 1           | 66                   |
| AE(J)4B898100BDL*  | 8000   | 8,100          | 6,000 | 5             | 16.4   | 36   | 429    | 16.9 | 101  | 4.0 | 1.5         | 66                   |
| AE(J)4B998100BDL*  | 9000   | 8,100          | 6,000 | 5             | 15.7   | 33.3 | 327    | 12.9 | 101  | 4.0 | 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.

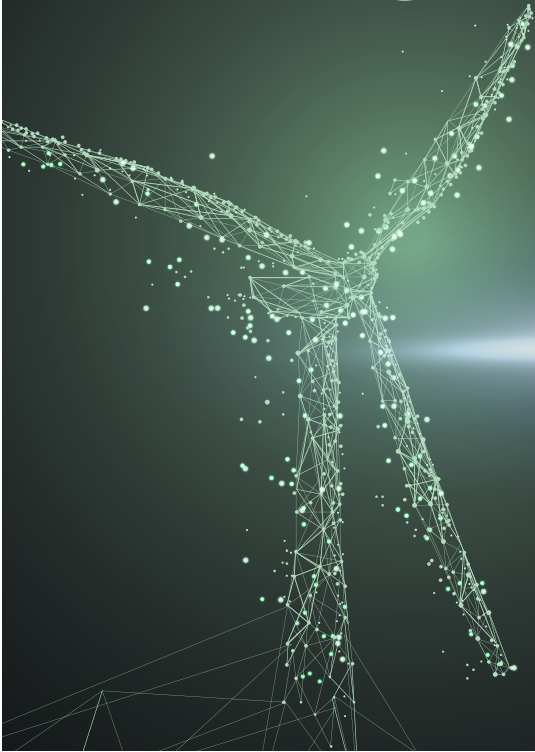
For Straight Type tools Choose the position of the handle by adding (L) for left side and (R) for right side

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# ACRADYNE HTXD EXTREME DUTY HIGH TORQUE TOOLS

AcraDyne® HTXD

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
- Available in J handle and Pistol handle configurations
- Extreme Duty engineering with motors rated for bolting applications near continuous duty
- 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

# ACRADYNE HTXD EXTREME DUTY HIGH TORQUE TOOLS

## AcraDyne® HTXD **EXTREME DUTY**

AcraDyne's HTXD Systems measure traceable, dynamic torque directly at the square drive and the built-in transducer ensures accurate torque values.

- Accuracy and traceability are assured from the first fastening to the last
- Torque reported is the torque delivered
- Accuracy not affected by gearing efficiency

**Tools with the gearing after the transducer cannot claim this!**



J-Handle Model  
12,000 Nm



Pistol Model  
12,000 Nm



12,000 Nm



Dual J-Handle  
Models

17,000 Nm

### HT 360° Swivel Gearcase Bolting Tools for Extreme Duty

| MODEL                              | SERIES | APPROX. TORQUE<br>NM      | APPROX. TORQUE<br>FT-LB | APPROX. SPEED<br>RPM | WEIGHT *<br>KG | WEIGHT *<br>LB  | LENGTH **<br>MM | LENGTH **<br>IN | DIA.<br>MM | DIA.<br>IN | DRIVE<br>IN | SOUND LEVEL<br>dB(A) |
|------------------------------------|--------|---------------------------|-------------------------|----------------------|----------------|---|-----------------|-----------------|------------|------------|-------------|----------------------|
| <b>360° Swivel Gearcase Models</b> |        | AEJ = J Handle/Axial Type |                         | AEP = Pistol Type    |                | Single-Handle Models Standard. Add "DL" to Model Numbers for Dual Handles (AEJ models only) |                 |                 |            |            |             |                      |
| AEP4W998100B                       | 9000   | 8,100                     | 6,000                   | 2.3                  | 21.8           | 48  | 544             | 21.4            | 104        | 4.1        | 1.5         | 66                   |
| AEJ4W998100B(DL)                   | 9000   | 8,100                     | 6,000                   | 2.3                  | 21.8           | 48  | 544             | 21.4            | 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(DL)                  | 9X     | 12,000                    | 8,850                   | 2                    | 31.8           | 70  | 572             | 22.5            | 131        | 5.2        | 1.5         | 66                   |
| AEP4W9Y17000B*                     | 9Y     | 17,000                    | 12,500                  | 1                    | 42.6           | 94  | 381             | 15              | 153        | 6.0        | 2.5         | 66                   |
| AEJ4W9Y17000B(DL)                  | 9Y     | 17,000                    | 12,500                  | 1                    | 42.6           | 94  | 381             | 15              | 153        | 6.0        | 2.5         | 66                   |

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

\*\* Length of dual-trigger tools is approximately 6 mm / 0.2" shorter than single-trigger tools.

# ACRADYNE HTXD EXTREME DUTY HIGH TORQUE TOOLS



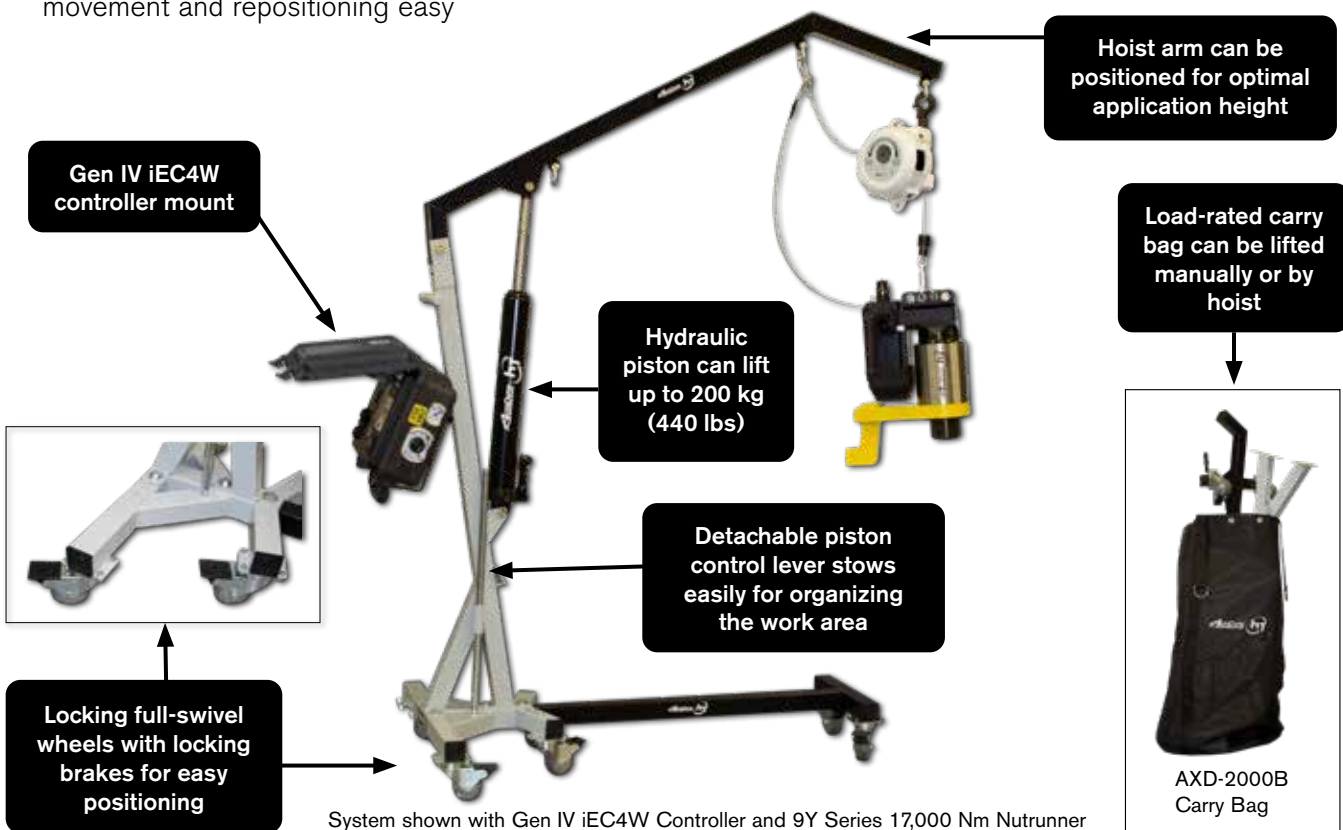
## EXTREME DUTY

### 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



## 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 prevent 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

|                            |  |
|----------------------------|--|
| <p><b>PRODUCTIVITY</b></p> | Replace multiple conventional tools with one flexible controlled system<br>Quick and easy setup<br>Fan kit reduces downtime due to tool overheating  |
| <p><b>ERGONOMICS</b></p>   | Compact, rugged case with easy carry handle makes field use easy and convenient<br>Lightweight for operator comfort  |
| <p><b>RELIABILITY</b></p>  | Weatherproof rugged case<br>Industrial touch screen  |
| <p><b>QUALITY</b></p>      | Controlled tightening and consistent torque control improves quality<br>Process controls reduce human error, and ensure no missed fasteners, stripped threads, rehits, or damaged threads<br>No premature shut-off |

| MODEL                               | DESCRIPTION  | DIMENSIONS<br>W x D x H                          | WEIGHT<br>LB | KG  |
|-------------------------------------|--|--|--------------|-----|
| iEC4WF                              | Field use controller for use with 110V or 220V service                     | 16.1" x 12.8" x 6.9"<br>408 mm x 326 mm x 175 mm | 18.5         | 8.4 |
| <b>Additional Field Controllers</b> |  |  |              |     |
| iEC4W1                              | Field use controller with isolation transformer for use with 110V service  | 16.1" x 12.8" x 6.9"<br>408 mm x 326 mm x 175 mm |              |     |
| iEC4W2                              | Field use controller with isolation transformer for use with 220 V service | 16.1" x 12.8" x 6.9"<br>408 mm x 326 mm x 175 mm |              |     |



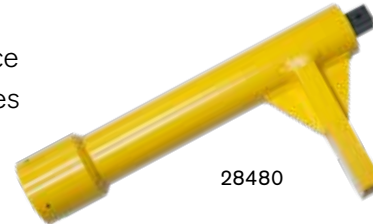
## NOSE EXTENSIONS

### 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

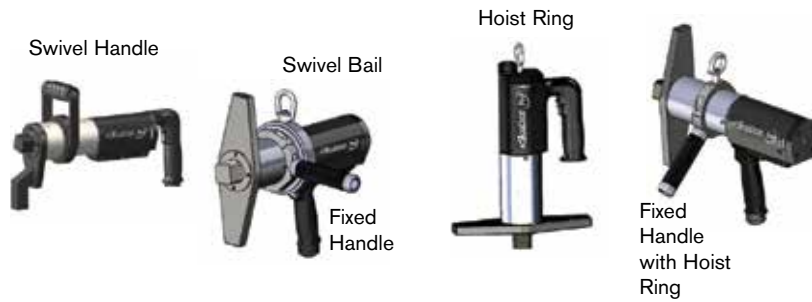
Custom accessories are available for your application. Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368.



# 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                                 |
| 26630 | Swivel Bail, 8000 Series                                 |
| 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                |
|--|------------------------|----------------------------|
| <br>Single Ended Flat     | 26810                  | 6000 Series                |
|  | 26800                  | 7000 Series                |
|  | 25277                  | 8000 Series                |
|  | 27255                  | 9000 Series                |
|  | 30303                  | X Series                   |
| <br>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 |                            |
| <br>Double Ended Flat   | 26830                  | 6000 Series                |
|  | 26820                  | 7000 Series                |
|  | 25278                  | 8000 Series                |
| <br>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-F   | 6000 series      | Case with molded foam insert |
| CC-6000-FIP | 6000 series      | Case with foam in place      |
| CC-7000-F   | 7000 series      | Case with molded foam insert |
| CC-7000-FIP | 7000 series      | Case with foam in place      |
| CC-8000-F   | 8000 series      | Case with molded foam insert |
| 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 |
| <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  |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |

Recommended Torque Range

\* 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

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



| MODEL              | RPM** | LENGTH |     | WEIGHT |      | TORQUE, Nm |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |       |       |   |   |   |
|--------------------|-------|--------|-----|--------|------|------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|-------|-------|---|---|---|
|                    |       | IN     | MM  | LB     | KG   | 50         | 100 | 200 | 300 | 400 | 500 | 600 | 850 | 1100 | 1200 | 1300 | 1500 | 2000 | 2500 | 3000 | 4000 | 5000 | 6500 | 8100 | 12000 | 17000 |   |   |   |
| ( )4(A)(B)66250B   | 315   | 10     | 254 | 10.5   | 4.6  | █          | █   |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |       |       |   |   |   |
| ( )4(A)(B)66425B   | 165   | 10     | 254 | 10.5   | 4.6  | █          | █   | █   |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |       |       |   |   |   |
| ( )4(A)(B)66625B   | 106   | 10     | 254 | 10.5   | 4.8  | █          | █   | █   | █   |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |       |       |   |   |   |
| ( )4(A)(B)66925B   | 72    | 10     | 254 | 10.5   | 4.8  | █          | █   | █   | █   | █   |     |     |     |      |      |      |      |      |      |      |      |      |      |      |       |       |   |   |   |
| ( )4(A)(B)771200B  | 65    | 10.2   | 259 | 14.5   | 6.6  | █          | █   | █   | █   | █   | █   |     |     |      |      |      |      |      |      |      |      |      |      |      |       |       |   |   |   |
| ( )4(A)(B)773000B  | 25    | 11.6   | 294 | 16.5   | 7.5  | █          | █   | █   | █   | █   | █   | █   |     |      |      |      |      |      |      |      |      |      |      |      |       |       |   |   |   |
| ( )4(W)872800BDL   | 9     | 13.1   | 334 | 20.5   | 9.3  | █          | █   | █   | █   | █   | █   | █   | █   |      |      |      |      |      |      |      |      |      |      |      |       |       |   |   |   |
| ( )4(A)(B)884200B1 | 12    | 13.4   | 340 | 24.5   | 11.1 | █          | █   | █   | █   | █   | █   | █   | █   | █    |      |      |      |      |      |      |      |      |      |      |       |       |   |   |   |
| ( )4(A)(B)884200B  | 12    | 13.4   | 340 | 24.5   | 11.1 | █          | █   | █   | █   | █   | █   | █   | █   | █    | █    |      |      |      |      |      |      |      |      |      |       |       |   |   |   |
| ( )4(W)884650B1DL  | 9     | 15.6   | 397 | 24.5   | 11.1 | █          | █   | █   | █   | █   | █   | █   | █   | █    | █    |      |      |      |      |      |      |      |      |      |       |       |   |   |   |
| ( )4(W)884650BDL   | 9     | 15.6   | 397 | 24.5   | 11.1 | █          | █   | █   | █   | █   | █   | █   | █   | █    | █    | █    |      |      |      |      |      |      |      |      |       |       |   |   |   |
| ( )4(A)(B)885000B  | 9     | 13.4   | 340 | 24.5   | 11.1 | █          | █   | █   | █   | █   | █   | █   | █   | █    | █    | █    |      |      |      |      |      |      |      |      |       |       |   |   |   |
| ( )4(A)(B)896500B  | 7     | 14.9   | 378 | 34.5   | 15.7 | █          | █   | █   | █   | █   | █   | █   | █   | █    | █    | █    | █    |      |      |      |      |      |      |      |       |       |   |   |   |
| ( )4(A)(B)898100B  | 5     | 14.9   | 378 | 34.5   | 15.7 | █          | █   | █   | █   | █   | █   | █   | █   | █    | █    | █    | █    | █    |      |      |      |      |      |      |       |       |   |   |   |
| ( )4(W)896500BDL   | 5     | 15.1   | 384 | 33.3   | 15.7 | █          | █   | █   | █   | █   | █   | █   | █   | █    | █    | █    | █    | █    | █    |      |      |      |      |      |       |       |   |   |   |
| ( )4(A)(B)9X12000B | 3.5   | 22     | 564 | 52.5   | 24   | █          | █   | █   | █   | █   | █   | █   | █   | █    | █    | █    | █    | █    | █    | █    | █    |      |      |      |       |       |   |   |   |
| ( )4(A)(B)9Y17000B | 3.0   | 22     | 564 | 65     | 29.5 | █          | █   | █   | █   | █   | █   | █   | █   | █    | █    | █    | █    | █    | █    | █    | █    | █    | █    | █    | █     | █     | █ | █ | █ |

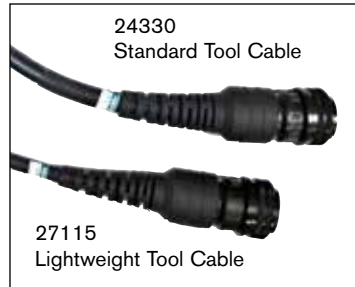
Recommended Torque Range

# 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              | Cable G3 Tool Cable 3M               | 3      | 9.8  |
| 25350              | Cable G3 Tool Cable 5M               | 5      | 16.4 |
| 24320              | Cable G3 Tool Cable 10M              | 10     | 32.8 |
| 27110              | Cable G3 Tool Cable 3M Lightweight*  | 3      | 9.8  |
| 27115              | Cable G3 Tool Cable 5M Lightweight*  | 5      | 16.4 |
| 27122              | Cable G3 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  |
|--------------------------------|-------|--|
| <b>Adapters and Connectors</b> |       |  |
|                                | 25646 | G1 iEC to G3 Cable Adapter   |
|                                | 26934 | G3 iEC to G1 Cable Adapter   |
|                                | 27210 | G3 Tool to G1 Cable Adapter  |
|                                | 26364 | Right Angle Cable Adapter  |
|                                | 26594 | Conversion Kit G1 iEC to G3 iEC  |
|                                | 27370 | Conversion Kit G3 iEC to G1 iEC  |
|                                | 25491 | Breakaway Cable Connector – Ensures disconnect of cable should stress in excess of 40 lbs. occur (see page 47)   |
|                                | 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  |
|-------------------------------|-------|--|
| <b>Data Interface Options</b> |       |  |
|                               | 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                                   |

## CABLE TESTER UNIT

AcraDyne's Cable Tester Unit helps diagnose and verify functionality of AcraDyne Tool Cables.

- Eliminate guesswork as to whether cable is damaged or is functioning within specifications
- Verifies each specific conductor within the cable for continuity

|  | MODEL | DESCRIPTION                                      |
|--|-------|--|
|  | 26700 | Cable Tester Unit, G3                            |
|  | 26709 | Adapter, G3 Tool to G1 Cable (Cable Tester only) |

# ACRADYNE ACCESSORIES

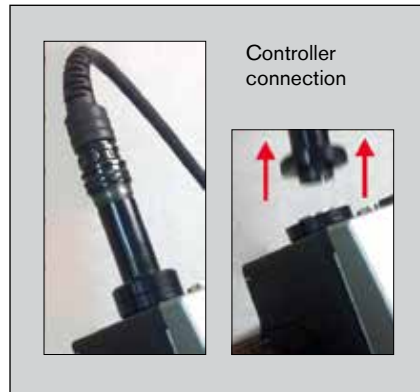
## BREAKAWAY CABLE CONNECTOR

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



25491  
Breakaway Cable  
Connector

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



## 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.



30850 FRL Assembly Kit



Top view

## BAR CODE SCANNER



28859  
Bluetooth®-Enabled Scanner Kit

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.

- 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

## SOCKET TRAY

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). Let your AIMCO representative know of your specific requirements when inquiring.

## 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       |

## 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.



### VERTICAL TOOL HANGER

Designed for AcraDyne Gen 1 tools.



23730

## LIGHT TOWER

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

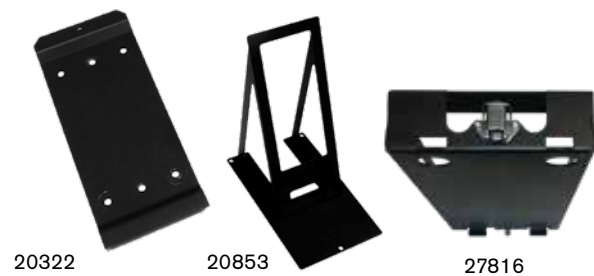


28489 Light Tower Bracket for Gen IV Controller



# ACRADYNE ACCESSORIES

## CONTROLLER BRACKETS












| MODEL | DESCRIPTION                             |
|-------|---|
| 20322 | Basic wall-mounting plate               |
| 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   |
|---|---|
|  25501 | Wire Bail for 1000 Series Tools                       |
|  27594 | Stationary Bail for 1000 Series Tools                 |
|  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                   |
|  28475 | Rotating Bail for AEN33042C and AEN33053C             |
|  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                 |
|  24924   | Mounting Flange for 1000/2000 Series Straight and Pistol Tools                  |
|  28622   | Mounting Flange for 2000 Series Inline Tools                                    |
|  30340   | Mounting Bracket for 2000 Series Angle 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                            |
|  25265 | Angle head Mounting Bracket (Cradle type) for 3000/5000 Angle Tools over 225 Nm |
|  26394 | Mounting Flange for 5000 Series   |

# 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
- 100 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-CTA

- Pistol Tool: 1.5–3,000 Nm (torque range for pistol tools includes Ultra Torque models on page 53)
- Straight Tool: 1.5–17 Nm
- Angle Tool: 1.5–130 Nm
- Tubenut Tool: 3.0–20 Nm

##### AB-MTA

- Pistol Tool: 1.0–17 Nm
- Straight Tool: 1.0–17 Nm
- Angle Tool: 2.5–115 Nm

# ACRADYNE CORDLESS AB SERIES



## MTA Series

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.

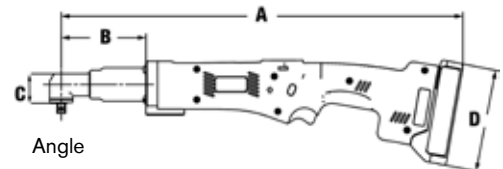
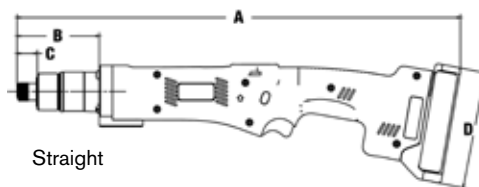
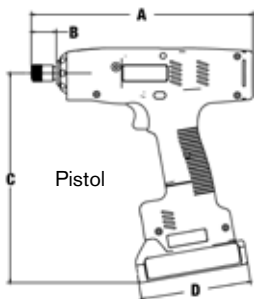


For simple adjustment, the MTA series provides easy clutch access.



| MODEL                     | TORQUE RANGE |             | MAX SPEED<br>RPM | DRIVE<br>TYPE | WEIGHT W/O<br>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(Q)(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-MTA08(Q)(WQ)(BQ)(WBQ) | 1.5 - 8      | 1.1 - 5.9   | 880              | 1/4" QC       | 1.25                  | 2.75 | 9.1             | 230 | 1.02 | 26  | 8.56 | 218 | 4.5 | 115 |
| ABP-MTA12(Q)(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 |
| ABP-MTA17(Q)(WQ)(BQ)(WBQ) | 3.5 - 17     | 2.6 - 12.5  | 449              | 1/4" QC       | 1.25                  | 2.75 | 9.1             | 230 | 1.02 | 26  | 8.56 | 218 | 4.5 | 115 |
| <b>Straight</b>           |              |             |                  |               |                       |      |                 |     |      |     |      |     |     |     |
| ABS-MTA06(Q)(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-MTA08(Q)(WQ)(BQ)(WBQ) | 1.5 - 8      | 1.1 - 5.9   | 880              | 1/4" QC       | 1.0                   | 2.2  | 17.2            | 437 | 3.19 | 81  | 0.79 | 20  | 4.5 | 115 |
| ABS-MTA12(Q)(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 |
| ABS-MTA17(Q)(WQ)(BQ)(WBQ) | 3.5 - 17     | 2.6 - 12.5  | 449              | 1/4" QC       | 1.25                  | 2.75 | 17.2            | 437 | 3.2  | 81  | 0.8  | 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-MTA17(W)(B)(WB)       | 3.5 - 17     | 2.6 - 12.5  | 420              | 3/8" Sq.      | 1.4                   | 3.1  | 18.1            | 461 | 4.14 | 105 | 1.29 | 33  | 4.5 | 115 |
| ABN-MTA24(W)(B)(WB)       | 5 - 24       | 3.7 - 17.7  | 300              | 3/8" Sq.      | 1.4                   | 3.1  | 18.1            | 461 | 4.14 | 105 | 1.29 | 33  | 4.5 | 115 |
| ABN-MTA36(W)(B)(WB)       | 8 - 36       | 5.9 - 26.6  | 165              | 3/8" Sq.      | 1.4                   | 3.1  | 21.6            | 547 | 7    | 179 | 1.65 | 42  | 4.5 | 115 |
| ABN-MTA55(W)(B)(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-MTA90(W)(B)(WB)       | 9.6 - 90     | 13.3 - 66.4 | 70               | 3/8" Sq.      | 2.9                   | 6.4  | 25.9            | 658 | 10.2 | 259 | 1.8  | 46  | 4.5 | 115 |
| ABN-MTA115(W)(B)(WB)      | 23 - 115     | 17 - 84.8   | 56               | 1/2" Sq.      | 3.1                   | 6.8  | 28.4            | 721 | 13.9 | 353 | 2.8  | 71  | 4.5 | 115 |

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



# ACRADYNE CORDLESS AB SERIES

## CTA Series

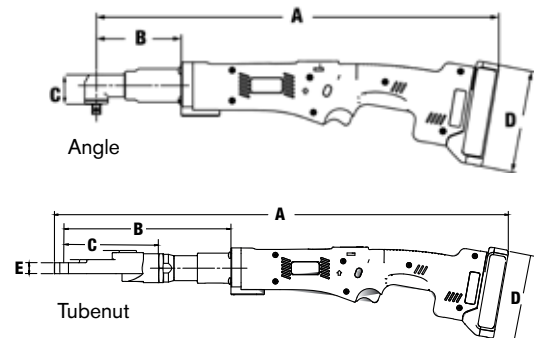
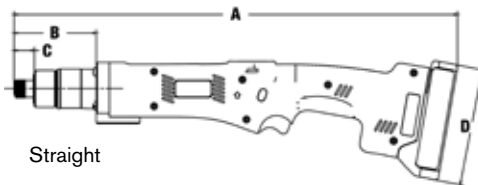
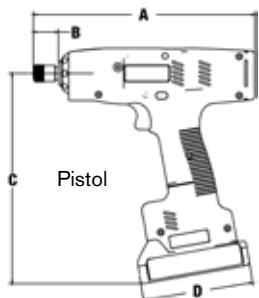
Controls Torque and Angle

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.



| MODEL  | TORQUE RANGE |             | MAX SPEED<br>RPM | DRIVE<br>TYPE    | WEIGHT W/O<br>BATTERY |     | TOOL DIMENSIONS |     |      |     |      |     |     |     |      |      |
|--|--------------|-------------|------------------|------------------|-----------------------|-----|-----------------|-----|------|-----|------|-----|-----|-----|------|------|
|  | NM           | FT-LB       |                  |                  | KG                    | LB  | A               |     | B    |     | C    |     | D   |     | E    |      |
|  |              |             |                  |                  |                       |     | IN              | MM  | IN   | MM  | IN   | MM  | IN  | MM  |      |      |
| <b>Pistol</b>  |              |             |                  |                  |                       |     |                 |     |      |     |      |     |     |     |      |      |
| ABP-CTA12(Q)(WQ)(BQ)(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 | -    | -    |
| ABP-CTA17(Q)(WQ)(BQ)(WBQ)  | 3 - 17       | 2.2 - 12.5  | 449              | 1/4" QC          | 1.15                  | 2.5 | 9.1             | 230 | 1.02 | 26  | 8.56 | 218 | 4.5 | 115 | -    | -    |
| <i>For 200 – 3,000 Nm Pistol Tools, see Ultra Torque models on page 53</i> |              |             |                  |                  |                       |     |                 |     |      |     |      |     |     |     |      |      |
| <b>Straight</b>  |              |             |                  |                  |                       |     |                 |     |      |     |      |     |     |     |      |      |
| ABS-CTA12(Q)(WQ)(BQ)(WBQ)  | 1.5 - 12     | 1.1 - 8.9   | 570              | 1/4" QC          | 0.95                  | 2.1 | 172             | 437 | 3.19 | 81  | 0.79 | 20  | 4.5 | 115 | -    | -    |
| ABS-CTA17(Q)(WQ)(BQ)(WBQ)  | 3 - 17       | 2.2 - 12.5  | 460              | 1/4" QC          | 0.95                  | 2.1 | 172             | 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              | 3/8" Sq.         | 1.35                  | 3.0 | 17.9            | 455 | 3.94 | 100 | 1.12 | 29  | 4.5 | 115 | -    | -    |
| ABN-CTA17(W)(B)(WB)  | 2.5 - 17     | 1.8 - 12.5  | 380              | 3/8" Sq.         | 1.4                   | 3.1 | 18.1            | 461 | 4.14 | 105 | 1.29 | 33  | 4.5 | 115 | -    | -    |
| ABN-CTA24(W)(B)(WB)  | 5 - 24       | 3.7 - 17.7  | 300              | 3/8" Sq.         | 1.2                   | 2.6 | 18.1            | 461 | 4.14 | 105 | 1.29 | 33  | 4.5 | 115 | -    | -    |
| ABN-CTA36(W)(B)(WB)  | 8 - 36       | 5.9 - 26.6  | 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-CTA90(W)(B)(WB)  | 25 - 90      | 18.4 - 66.6 | 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 | -    | -    |
| <b>TubeNut</b>   |              |             |                  |                  |                       |     |                 |     |      |     |      |     |     |     |      |      |
| ABT-CTA15W   | 3 - 15       | 2.2 - 11.1  | 400              | 1/4" - 7/16" hex | 1.2                   | 2.6 | 22.2            | 565 | 7.82 | 199 | 4.17 | 106 | 4.5 | 115 | 0.5  | 12.7 |
| ABT-CTA20W   | 5 - 20       | 3.7 - 14.8  | 300              | 3/8" - 5/8" hex. | 1.2                   | 2.6 | 22.9            | 582 | 8.39 | 213 | 4.74 | 121 | 4.5 | 115 | 0.56 | 14   |

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



# ACRADYNE ULTRA TORQUE ABP CORDLESS NUTRUNNER

## *Ultra Torque ABP-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
  - Torque
  - Angle
  - Torque Plus Turn
  - Torque Minus Turn
  - And more...
- Available with Two-Hand, No Tie Down Button to ensure operator safety from accidental contact with reaction bar
- 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 54 and standard reaction bar. Charger (see page 54) is purchased separately:
  - AB-C18110 (120VAC) Charger or
  - AB-C18220 (220VAC) Charger



ABP-CTA950



ABP-CTA1400W



ABP-CTA3000W



ABP-CTA3000WDL  
Operator Safety: Dual Trigger Option with Two-Hand, No Tie Down Button prevents accidental contact with reaction bar

| MODEL              | MAX TORQUE |       | MAX SPEED<br>RPM | LENGTH |      | GEARBOX DIAMETER |     |
|--------------------|------------|-------|------------------|--------|------|------------------|-----|
|                    | NM         | FT-LB |                  | MM     | IN   | MM               | IN  |
| ABP-CTA250(W)      | 250        | 185   | 27               | 335    | 13.2 | 67               | 2.6 |
| ABP-CTA425(W)      | 425        | 315   | 14               | 335    | 13.2 | 67               | 2.6 |
| ABP-CTA625(W)      | 625        | 460   | 9.4              | 335    | 13.2 | 67               | 2.6 |
| ABP-CTA950(W)(DL)  | 950        | 700   | 6.4              | 335    | 13.2 | 67               | 2.6 |
| ABP-CTA1400(W)(DL) | 1400       | 1000  | 4                | 338    | 13.3 | 77.5             | 3.1 |
| ABP-CTA3000(W)(DL) | 3000       | 2200  | 2.1              | 374    | 14.7 | 77.5             | 3.1 |

W = WiFi option DL = Dual Trigger



AB-C18110  
Battery Charger



AB-B1850LI Battery

# ACRADYNE CORDLESS TOOLS

## 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



AB-C18-4W

| 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)<br>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)<br>86 mm (W) x 107 mm (H) x 153 mm (D)                           | 1.2 Lb/.55 kg  |
| AB-C18-4W | 4-bay charge unit for 100-240VAC | 14.4V - 18V, 3.0A | 100-240VAC, 50-60Hz | Max 55 min for 2.5 Ah battery | 21.2" (W) x 7.2" (H) x 10.2" (D) (incl. feet)<br>539 mm (W) x 182 mm (H) x 260 mm (D) (incl. feet) | 16.8 Lb/7.6 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

# ACRADYNE CORDLESS XT SERIES

## Transducerized Cordless Freedom for Your Bolting Applications



AcraDyne's XT Series Cordless Tool is an excellent choice for any application that requires flexibility and uninterrupted operation. These high-efficiency tools feature a brushless motor and provide three selectable tightening strategies: Torque Control, Torque Control with Angle Reporting, and Angle Control with Torque Reporting.

The built-in transducer means precise measurement and traceability. The digital display panel facilitates programming, allows changes in preset values and strategies, and accesses stored information. User interface software, like all AcraDyne products, is available at no cost to the user and has no licensing requirements.



### FEATURES AND BENEFITS

- Built-in transducer for measurement and traceability
- Torque overload limit function removes responsibility from the operator
- Ultimate flexibility with three selectable tightening strategies:
  - Torque Control
  - Torque Control with Angle Monitor
  - Torque Control plus Angle
- Temperature-monitoring sensor helps prevent overheating
- High-efficiency brushless motor provides longer motor life and increased efficiency
- Monitor and review reliable data with results stored on tool log and easily extractable through USB
- User-friendly digital adjustment and display of wrench status provides quick operator feedback
- Anti-Windup feature facilitates release from application
- Batteries and charging systems readily available from many sources

# ACRADYNE CORDLESS XT SERIES

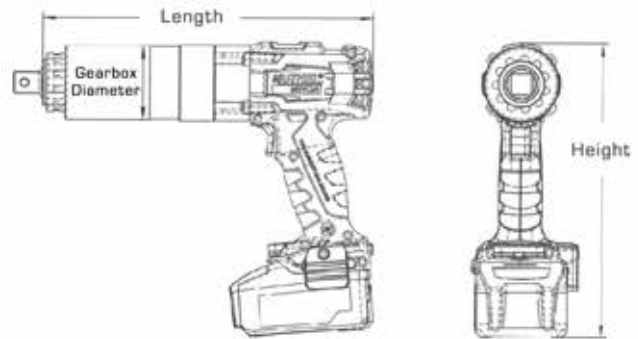


ABETP Series Tool with Custom AcraDyne Reaction Bar

Many 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.



Digital Display and Control Interface



| MODEL      | TORQUE RANGE |             | DRIVE SIZE<br>IN | RPM | LENGTH |      | HEIGHT |      | GEARBOX DIA. |     | WEIGHT |      | NOISE LEVEL<br>dB(A) |
|------------|--------------|-------------|------------------|-----|--------|------|--------|------|--------------|-----|--------|------|----------------------|
|            | NM           | FT-LB       |                  |     | MM     | IN   | MM     | IN   | MM           | IN  | KG     | LB   |                      |
| ABETP-350  | 100 - 350    | 74 - 258    | 3/4"             | 15  | 206    | 8.1  | 267    | 10.5 | 68           | 2.7 | 2.9    | 6.4  | 80                   |
| ABETP-500  | 150 - 500    | 110 - 370   | 3/4"             | 10  | 206    | 8.1  | 267    | 10.5 | 68           | 2.7 | 2.9    | 6.4  | 80                   |
| ABETP-800  | 230 - 800    | 170 - 590   | 3/4"             | 6   | 253    | 10   | 267    | 10.5 | 68           | 2.7 | 3.3    | 7.3  | 80                   |
| ABETP-1400 | 300 - 1,400  | 220 - 1,030 | 3/4"             | 6   | 253    | 10   | 267    | 10.5 | 68           | 2.7 | 3.3    | 7.3  | 80                   |
| ABETP-1700 | 550 - 1,700  | 405 - 1,250 | 1"               | 4   | 328    | 12.9 | 267    | 10.5 | 78           | 3.1 | 5.3    | 11.7 | 80                   |
| ABETP-2800 | 700 - 2,800  | 515 - 2,065 | 1"               | 3.5 | 316    | 12.4 | 267    | 10.5 | 78           | 3.1 | 5.8    | 12.8 | 80                   |
| ABETP-3100 | 900 - 3,100  | 664 - 2,285 | 1"               | 2.5 | 316    | 12.4 | 267    | 10.5 | 78           | 3.1 | 5.8    | 12.8 | 80                   |
| ABETP-4000 | 810 - 4,000  | 595 - 2,950 | 1"               | 2   | 312    | 12.3 | 267    | 10.5 | 82           | 3.2 | 6.1    | 13.4 | 80                   |
| ABETP-4500 | 1200 - 4,450 | 885 - 3,282 | 1"               | 2   | 370    | 14.6 | 267    | 10.5 | 86           | 3.4 | 8.1    | 17.9 | 80                   |

## LI-ION HD BATTERY AND CHARGER



- 5.5 Ah 18V Li-Ion battery
- LiHD battery provides ultimate performance and extremely long use with minimal temperature variation
- Air cooled charging technology: Battery pack cools during charging, significantly reducing charging times
- Processor-controlled charge and discharge management
- Battery can be stored with almost no self-discharge



# ACRADYNE SYSTEMS



## MULTIPLE NUTRUNNING SYSTEMS

AIMCO can integrate the AcraDyne tool spindle into a customized Multiple Nutrunning 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.



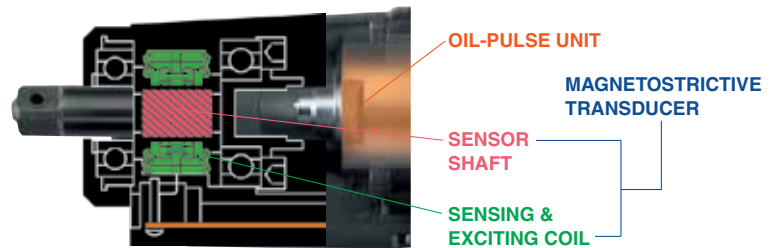
# URYU CONTROLLED PNEUMATIC PULSE TOOLS

## 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.

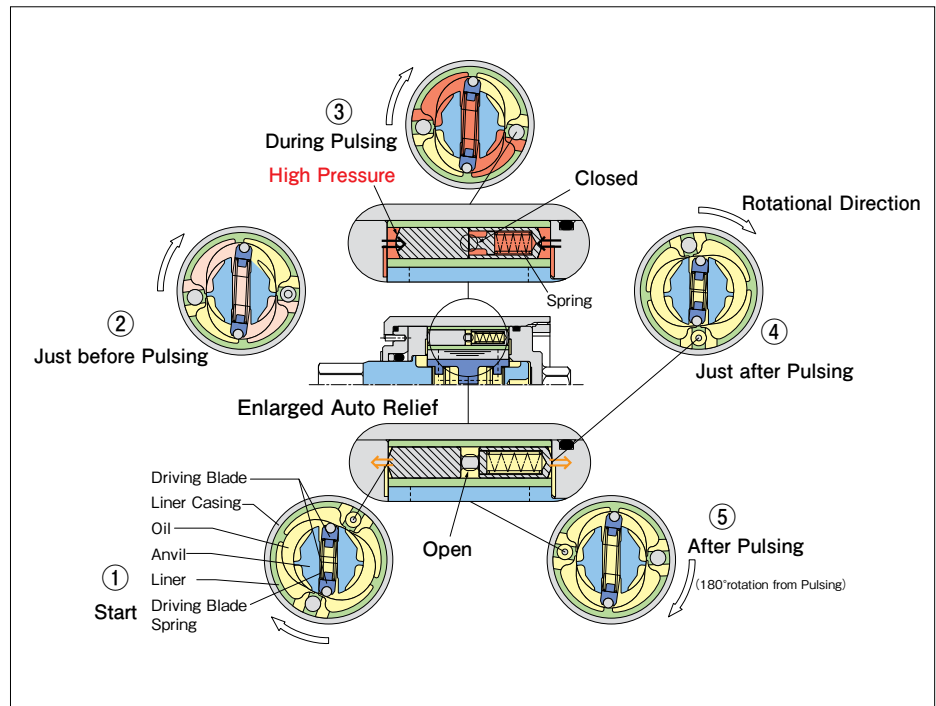


When torque is applied to the tool anvil, tensile stress is detected by the coils as changes in the magnetic field. These magnetic field changes are analyzed and converted to torque signals that a controller uses to shut off the tool.

### 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-4800, UEC-4800A, UEC-4800TP, UEC-4800TPA Controllers (see page 66)</p> |  <p>URYU UEC-5500 Controller for multiple spindles (see page 67)</p> |  <p>Gen IV iAC Controller for transducerized Uryu air tools (see page 11)</p> |

Recommended air pressure: 85 PSI

| MODEL                | TORQUE RANGE |             | FREE SPEED<br>RPM | LENGTH |      | WEIGHT |     | DRIVE SIZE<br>IN | AIR USAGE<br>CFM |
|----------------------|--------------|-------------|-------------------|--------|------|--------|-----|------------------|------------------|
|                      | NM           | FT-LB       |                   | MM     | 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 €



UA-500AMC



UA-1300AMC

### 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-4800, UEC-4800A, UEC-4800TP, UEC-4800TPA Controllers (see page 66)



URYU UEC-5500 Controller for multiple spindles (see page 67)



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

Recommended air pressure: 85 PSI

| MODEL      | TORQUE RANGE |             | FREE SPEED<br>RPM | LENGTH |      | WEIGHT |     | DRIVE SIZE<br>IN | AIR USAGE<br>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.

# URYU CONTROLLED PNEUMATIC PULSE & ELECTRIC OIL PULSE TOOLS

## 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-4800, UEC-4800A, UEC-4800TP, UEC-4800TPA Controllers (see page 66)



URYU UEC-5500 Controller for multiple spindles (see page 67)



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

Recommended air pressure: 85 PSI

| MODEL         | TORQUE RANGE |               | FREE SPEED<br>RPM | LENGTH |      | WEIGHT |      | DRIVE<br>IN | NOISE LEVEL<br>dB(A) | AIR USAGE<br>CFM |
|---------------|--------------|---------------|-------------------|--------|------|--------|------|-------------|----------------------|------------------|
|               | NM           | FT-LB         |                   | MM     | IN   | LB     | KG   |             |                      |                  |
| <b>PISTOL</b> |              |               |                   |        |      |        |      |             |                      |                  |
| 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             |
| <b>INLINE</b> |              |               |                   |        |      |        |      |             |                      |                  |
| 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 OPTIONS



URYU UECP-4810 controller with integrated tool driver (see page 68)



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

| MODEL       | TYPE           | TORQUE RANGE |             | FREE SPEED<br>RPM | WEIGHT<br>LB | LENGTH<br>IN | DRIVE<br>IN | SOUND<br>LEVEL<br>dB(A) | CABLE ASSEMBLY<br>CONNECTS TOOL<br>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)                              |
| UDP-A700MC  | Transducerized | 10 - 50      | 7.4 - 37    | 4,800             | 3.9          | 9.5          | 3/8 SQ.     | 76                      | 910-808-0 (10 meter)                             |
| UDP-A100MC  | Transducerized | 45 - 100     | 33.3 - 74   | 4,800             | 6.3          | 9.8          | 1/2 SQ.     | 76                      | 910-809-0 (15 meter)                             |
| UDP-A120MC  | Transducerized | 55 - 120     | 40.5 - 88.4 | 4,800             | 6.3          | 9.8          | 1/2 SQ.     | 78                      | 910-810-0 (20 meter)                             |
|             |                |              |             |                   |              |              |             |                         | 910-567-0 (5 meter)                              |
|             |                |              |             |                   |              |              |             |                         | 910-568-0 (10 meter)                             |
|             |                |              |             |                   |              |              |             |                         | 910-569-0 (15 meter)                             |
|             |                |              |             |                   |              |              |             |                         | 910-625-0 (20 meter)                             |

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

# URYU CONTROLLED BATTERY PULSE TOOLS

## REVOLUTIONARY

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



*Innovative Phoenix Pulse Unit with more efficient blades and elimination of springs **Lengthens Service Intervals** by as much as **400%** with a high degree of accuracy and a reaction-free operating experience*

Powerful & Intuitive Data Connectivity  
with Tool Controllers

Increased Power  
per Pulse

Extremely Accurate  
Torque Control & Angle Monitoring

Improved Operator Comfort  
with near Reaction-Free feel

Fluid Cost Reduced  
by as much as 40%

### CONTROLLER OPTIONS



URYU UCC-100Z controller  
with integrated tool driver (see page 69)



*AeraDyne* iBC-Z

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

# URYU CONTROLLED BATTERY PULSE TOOLS

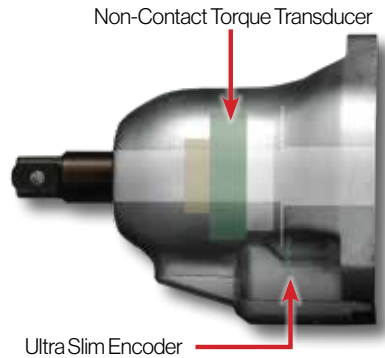
## UBX-AFZ Series Shut-Off Battery Oil Pulse Tool

The new UBX-AFZ series of Shut-Off Battery Oil Pulse Tools features Phoenix Pulse Tool technology design (patent pending) that houses fewer internal parts, lengthening fluid life and simplifying maintenance procedures.

Enjoy clear & concise data connectivity when integrated with tool controllers.

### Additional Features and Benefits

- Weight reduced by 0.3 lb (140 g) compared to the UDBP-TA70(P)
- On-board LED indicates fastening results
- Short duration, non-mechanical pulsing delivers torque to the fastener with near reaction-free feel
- Number of fastenings per minute (on average):
  - UBX-AF500Z: 11 (fastening time 0.5 sec.)
  - UBX-AF600Z: 10 (fastening time 0.5 sec.)
  - UBX-AF700Z: 9 (fastening time 0.5 sec.)
- Fastener quantity per full charge (on a B joint with 1 sec or less freerun):
  - UBX-AF500Z: 440
  - UBX-AF600Z & UBX-AF700Z: 320
- Elliptical movement within pulse unit produces more power per pulse
- High pulse frequency and crisp tool shut off results in accurate delivery of torque
- Cycle times on most joints are reduced for more efficient production
- Fluid costs reduced by as much as 40% (when using OEM recommended fluid)



| MODEL*     | NOMINAL BOLT SIZE |            | TORQUE** |             | WEIGHT W/O BATTERY |      | FREE SPEED | LENGTH |     | HEIGHT |      | SO. DRIVE |
|------------|-------------------|------------|----------|-------------|--------------------|------|------------|--------|-----|--------|------|-----------|
|            | MM                | IN         | NM       | FT-LB       | KG                 | LB   | RPM        | MM     | IN  | MM     | IN   | IN        |
| UBX-AF500Z | 6 - 8             | 1/4 - 5/16 | 5 - 20   | 3.7 - 14.8  | 1.52               | 3.35 | 3,600      | 219    | 8.7 | 255    | 10.1 | 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 | 255    | 10.1 | 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 | 255    | 10.1 | 3/8       |

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

## BATTERIES AND BATTERY CHARGER

| BATTERY MODEL #* | DESCRIPTION                         | VOLTAGE | TYPE   | CAPACITY |
|------------------|-------------------------------------|---------|--------|----------|
| EYFB32           | Battery for UBX-AF500Z              | 10.8    | Li-Ion | 2.0Ah    |
| EYFB41           | Battery for UBX-AF600Z & UBX-AF700Z | 14.4V   | Li-Ion | 2.0Ah    |

\* 4.0Ah battery also available, Part #EYFB42B

| 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-4800 base model:** Compatible with UA-MC/SMC, and UXR-MC/SMC series.
  - **UEC-4800A:** Base model with angle monitoring
  - **UEC-4800TP:** Base model with touch panel
  - **UEC-4800TPA:** Base model with touch panel and angle monitoring. Compatible with UA-AMC series tools
- **UEC-5500:** Multi-spindle capability, compatible with UA-MC/SMC and UXR-MC/SMC tools
- **UECP-4810:** Integrates UEC-4800 and Tool Driver. Compatible with UDP-MC tools only.  
Programmable from front panel or PC – no separate touchpad module or cable required
- **UCC-100Z:** Compatible with UBX-AF battery pulse series only



| URYU UEC CONTROLLERS |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|
|                      |  |  |  |  |  |  |  |
|                      | UEC-4800  | UEC-4800A   | UEC-4800TP  | UEC-4800TPA   | UEC-5500  | UECP-4810   | UCC-100Z  |
|                      | Single-Spindle Control  | Single-Spindle Control with Angle Monitoring                                      | Single-Spindle Control with Touch Screen  | Single-Spindle Control with Touch Screen and Angle Monitoring                     | Multi-Spindle Control   | Integrated UEC-4800 Controller and Tool Driver for UDP Series Tools                 | Built-in Wireless unit for UBX-AF Series Tools                                      |

| TOOL SERIES  |   |   |   |   |                                 |   |   |
|--|---|---|---|---|---------------------------------|---|---|
| <u>UA-MC/SMC Series:</u><br>Pneumatic Pulse Tools<br> | X | X | X |   | X                               |   |   |
| <u>UA-AMC Series:</u><br>Pneumatic Pulse Tool<br>     |   |   |   | X | X<br>(with angle encoder board) |   |   |
| <u>UXR-MC/SMC Series:</u><br>Pneumatic Pulse Tool<br> | X | X | X | X | X                               |   |   |
| <u>UDP-MC Series:</u><br>Electric Oil-Pulse Tool<br>  |   |   |   |   |                                 | X |   |
| <u>UBX-AF Series:</u><br>Battery Pulse Tool<br>       |   |   |   |   |                                 |   | X |

# URYU CONTROLLERS

## UEC-4800 CONTROLLER



UEC-4800  
UEC-4800A



UEC-4800TP  
UEC-4800TPA

USE UEC-4800 & UEC-4800TP  
WITH THE FOLLOWING TOOLS



UA-MC  
Series



UA-SMC  
Series



UXR-SMC  
Series



UXR-MC Series

USE UEC-4800TPA WITH THE FOLLOWING TOOLS



UA-AMC  
Series

### UEC-4800 BASE MODEL

#### 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 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-4800A

All UEC-4800 base model features plus angle monitoring capabilities.

### UEC-4800TP

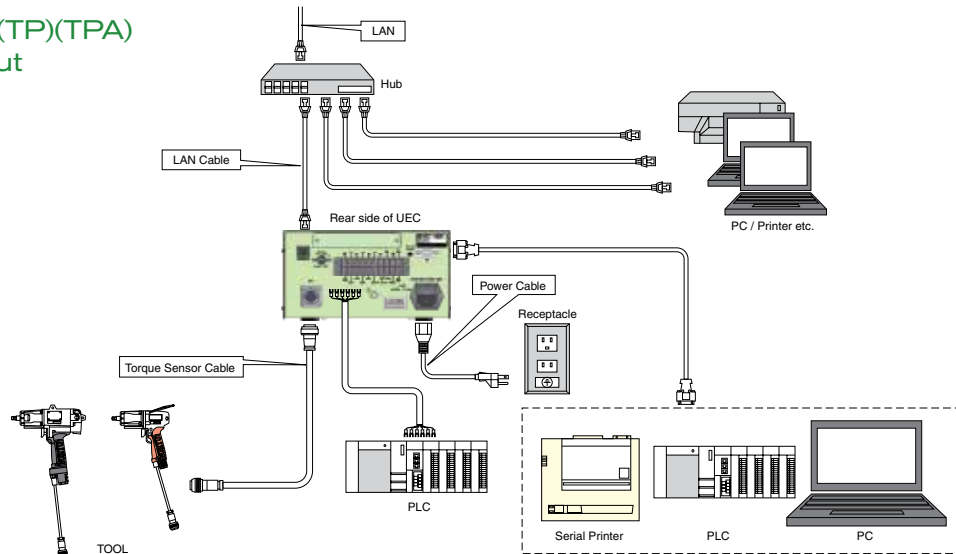
All UEC-4800 base model features, but has a touch panel.

- Torque Wave data visible on both front touch panel and PC
- Front panel, PC display, or buzzer indicate Input/Output (terminal blocks and tool wiring), checks and errors

### UEC-4800TPA

Includes all of the features of the UEC-4800 base model and the UEC-4800TP model, plus angle monitoring capability.

### UEC-4800(A)(TP)(TPA) System Layout



# URYU CONTROLLERS

## UEC-5500 CONTROLLER



USE UEC-5500 WITH THE FOLLOWING TOOLS



## UEC-5500

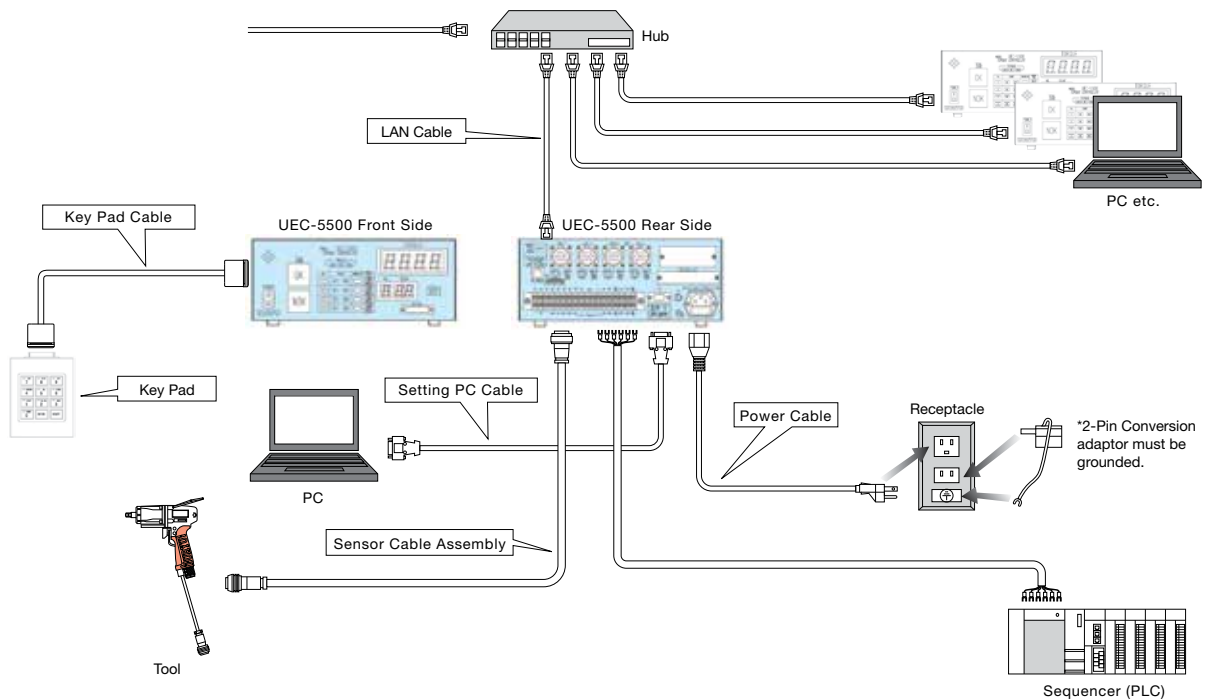
### FEATURES AND BENEFITS

Multi-spindle controller that includes all of the features of the UEC-4800 base model, plus it can control 4 spindles simultaneously.

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



## UEC-5500 System Layout



# URYU CONTROLLERS

## UECP-4810 CONTROLLER



UECP-4810A

USE UECP-4810 WITH THE FOLLOWING TOOLS



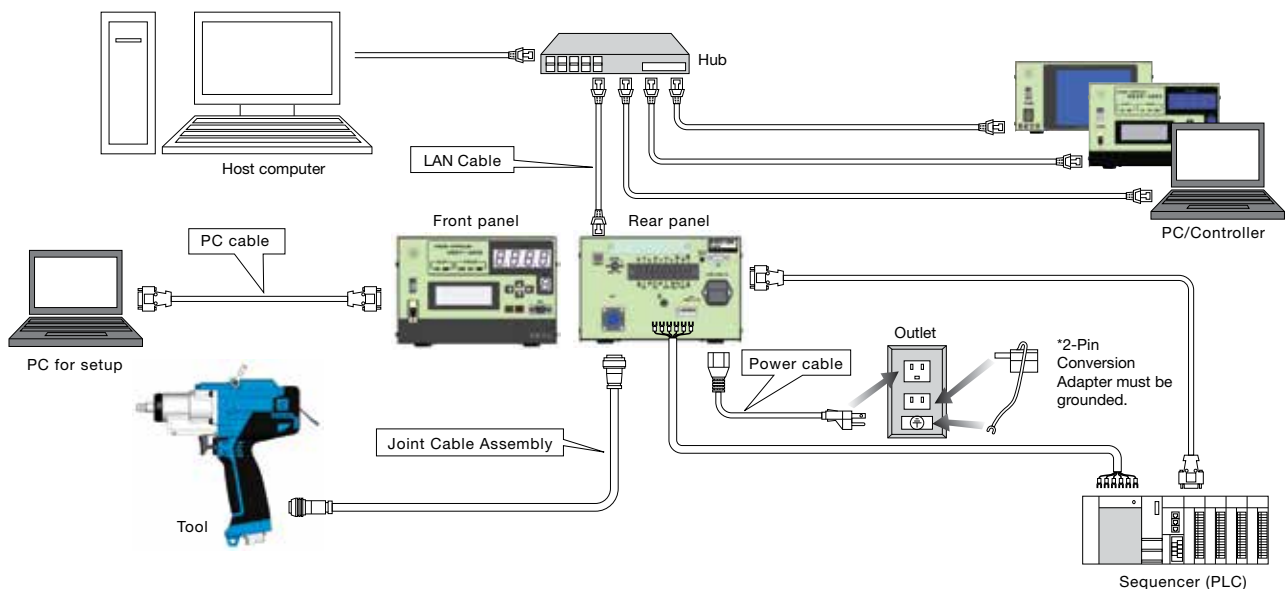
UDP-MC Series

## UECP-4810

### FEATURES AND BENEFITS

- Used exclusively for UDP series tools
- Integrates Tool Driver and UEC-4800 Controller – no separate box
- Windows-based PC software included
- Programmable tool speeds
- Motor setting:
  - Motor current can be set in four steps
  - Motor rotational speed can be set in 100 rpm increments
- Fastening error detection and fastener number countdown functions ensure seamless operation
- Allows setup or changeover of fastening torque and fastening number count
- Tool's maintenance is possible by counting both total cycle numbers (how many fasteners) and/or total pulse numbers.
- Input/Output check and error messages can be checked from your PC or the front panel, which will notify you with a buzzer
- Set up and monitor various control values. Values can be set either on the front panel or on the PC
- Ethernet (TCP/IP) capable. Upload and receive setting values. Upload fastening result/waveform data through PC software

### UECP-4810(A) System Layout



# URYU CONTROLLERS

## UCC-100Z CONTROLLER



UCC-100Z

USE UCC-100Z WITH THE FOLLOWING TOOLS



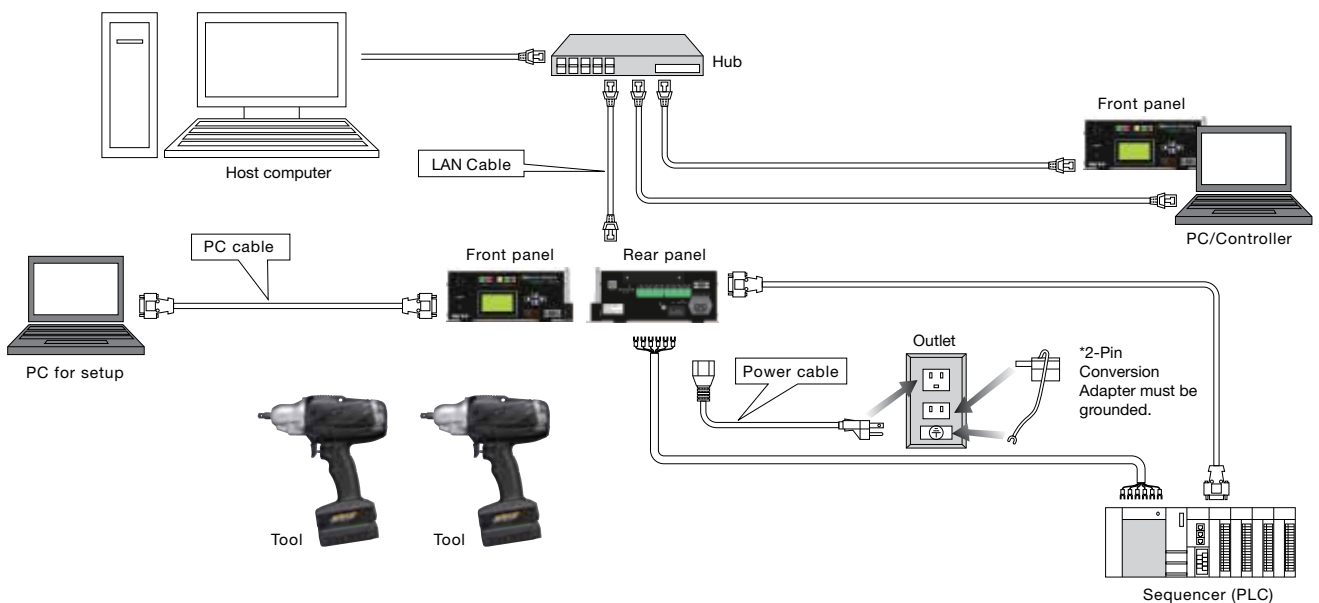
UBX-AF Series

## 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 | LIGHT TOWER & BYPASS SWITCH CAPABLE | ETHERNET PROTOCOLS | SERIAL PROTOCOLS & BAR CODE | ANYBUS DEVICENET | ANYBUS PROFIBUS | TOUCH PANEL DISPLAY | ANGLE MONITORING |
|---|---------|-------------------------------|-------------------------------------|--------------------|-----------------------------|------------------|-----------------|---------------------|------------------|
| UEC Controller for UA-AMC/SMC, UA-MC, and UXR-MC/SMC Series |         |                               |                                     |                    |                             |                  |                 |                     |                  |
| UEC-4800  | X       | X                             |                                     |                    |                             |                  |                 |                     |                  |
| UEC-4800A-ANGLE   | X       | X                             |                                     |                    |                             |                  |                 |                     | X                |
| UEC-4800TP  | X       | X                             |                                     |                    |                             |                  |                 | X                   |                  |
| UEC-4800TPA   | X       | X                             |                                     |                    |                             |                  |                 | X                   | X                |
| UEC-4800-EX   | X       |                               |                                     | X                  | X                           |                  |                 |                     |                  |
| UEC-4800-EXL  | X       |                               | X                                   | X                  | X                           |                  |                 |                     |                  |
| UEC-4800-EDA  | X       |                               |                                     | X                  |                             | X                |                 |                     |                  |
| UEC-4800-EPA  | X       |                               |                                     | X                  |                             |                  | X               |                     |                  |
| UEC-4800-EPAL   | X       |                               | X                                   | X                  |                             |                  | X               |                     |                  |
| UEC-4800A-EXL   | X       |                               | X                                   | X                  | X                           |                  |                 |                     | X                |
| UEC-4800A-EDA   | X       |                               |                                     | X                  |                             | X                |                 |                     | X                |
| UEC-4800A-EDAL  | X       |                               | X                                   | X                  |                             | X                |                 |                     | X                |
| UEC-4800A-EPA   | X       |                               |                                     | X                  |                             |                  | X               |                     | X                |
| UEC-4800A-EPAL  | X       |                               | X                                   | X                  |                             |                  | X               |                     | X                |
| UEC-4800A-EPL   |         |                               | X                                   | X                  |                             |                  | X               |                     | X                |
| UEC-4800TP-EX   | X       |                               |                                     | X                  | X                           |                  |                 | X                   |                  |
| UEC-4800TP-EXL  | X       |                               | X                                   | X                  | X                           |                  |                 | X                   |                  |
| UEC-4800TP-EDA  | X       |                               |                                     | X                  |                             | X                |                 | X                   |                  |
| UEC-4800TP-EDAL   | X       |                               | X                                   | X                  |                             | X                |                 | X                   |                  |
| UEC-4800TP-EPA  | X       |                               |                                     | X                  |                             |                  | X               | X                   |                  |
| UEC-4800TP-EPAL   | X       |                               | X                                   | X                  |                             |                  | X               | X                   |                  |
| UEC-4800TPA-EX  | X       |                               |                                     | X                  | X                           |                  |                 | X                   | X                |
| UEC-4800TPA-EXL   | X       |                               | X                                   | X                  | X                           |                  |                 | X                   | X                |
| UEC-4800TPA-EDA   | X       |                               |                                     | X                  |                             | X                |                 | X                   | X                |
| UEC-4800TPA-EDAL  | X       |                               | X                                   | X                  |                             | X                |                 | X                   | X                |
| UEC-4800TPA-EPA   | X       |                               |                                     | X                  |                             |                  | X               | X                   | X                |
| UEC-4800TPA-EPAL  | X       |                               | X                                   | X                  |                             |                  | X               | X                   | X                |
| UEC-5500 (Multi Spindle)                                    | X       | X                             |                                     |                    |                             |                  |                 |                     |                  |
| UECP Controller with Tool Driver for UDP Series Tools       |         |                               |                                     |                    |                             |                  |                 |                     |                  |
| UECP-4810A  | X       | X                             |                                     |                    |                             |                  |                 |                     |                  |
| UCC Controller for UBX-AF Series Tools                      |         |                               |                                     |                    |                             |                  |                 |                     |                  |
| UCC-100ZA   | X       | X                             |                                     | X                  |                             |                  |                 | X                   | X                |

# URYU CONTROLLERS

## URYU CONTROLLER SPECIFICATIONS

|                        | UEC-4800(A)(TP)(TPA)   | UEC-5500   | UECP-4810(A)  | UCC-100Z   |
|------------------------|--|--|---|--|
| Power Supply           | AC100 ~ 240V ±10%  |  |   |  |
| Power Frequency        | 50/60 Hz   |  |   |  |
| Insulation Protection  | DC500V over 10MΩ   |  |   |  |
| Power Consumption      | Approx. 30VA   | Approx. 50VA   | Approx. 30VA  | Approx. 35VA   |
| Weight                 | Approx. 3.6 kg   |  | Approx. 11.30 kg  | Approx. 2.9 kg   |
| Dimensions             | 265(d) x 222(w) x 120(h)   | 240(d) x 270(w) x 115(h)   | 265(d) x 222(w) x 200(h)  | 254(d) × 233.5(w) × 106(h)<br>(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>UEC-4800/4800A: Manual Input on Front LCD Panel</li> <li>UEC-4800TP/TPA: Manual Input on Front Touch 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)<br><u>UEC-4800/4800A</u> <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> <u>UEC-4800TP/TPA</u> <ul style="list-style-type: none"> <li>320 x 240 dot, 25 characters x 15 lines</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 (12-Bit A/D) <ul style="list-style-type: none"> <li>LCD: 20 characters x 4 lines</li> <li>Contents: Work No., Bolt Count No., Tightening Time, Pulse Blow Number</li> <li>1-digit digital display (DPM): Work No. displayed</li> <li>4-digit digital display (DPM): Torque reading displayed</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)   |  |
| Input Terminal Signal  | Operation Voltage/Current: DC24V/ approx. 10mA<br>6 terminals (free format), VALVE   | Drive by Electric Current Input (photo coupler insulation)<br>Voltage: DC24V<br>Insulation Resistance: 4.7KΩ<br>12 terminals (free format), VALVE, +24V  | Operation Voltage/Current: DC24V, approx. 10mA<br>6 terminals (programmable), Note: Contact input necessary   |  |
| Output Terminal Signal | Contact Capacity: AC:125V, 0.3A, DC:30V, 1A<br>6 terminals (free format), VALVE  | Contact Capacity: AC:125V, 0.3A, DC:30V, 1A<br>8 terminals (free format), VALVE, +24   | Contact Capacity: DC 30V, 1A<br>6 terminals (programmable), VALVE   | Contact Capacity: DC30V, 1A<br>6 Terminals (free format)   |



# URYU CONTROLLED PULSE TOOL CABLES / CONTROLLER BRACKETS



910-623-0



EC/MCCBL-25



910-518-0



911-023-0

## CONTROLLED PULSE TOOL CABLES

| PART NUMBER | DESCRIPTION        | FUNCTION  | LENGTH |    | TOOL SERIES |        |        |        | CONTROLLER PLATFORM |           |
|-------------|--------------------|---|--------|----|-------------|--------|--------|--------|---------------------|-----------|
|             |                    |   | M      | FT | UA-MC       | UA-AMC | UDP-MC | UXR-MC | UEC-4800            | UECP-4810 |
| 909-921-0   | Sensor Cable Assy. | Tool Cable to Controller                              | 5      | 18 | X           | X      |        | X      | X                   |           |
| 910-517-0   | Joint Cable Assy.  | Tool Cable to Controller                              | 5      | 18 |             |        | X      |        |                     | X         |
| 910-518-0   | Joint Cable Assy.  | Tool Cable to Controller                              | 10     | 35 |             |        | X      |        |                     | X         |
| 910-546-0   | Joint Cable Assy.  | Tool Cable to Controller                              | 3      | 10 |             |        |        |        |                     |           |
| 910-547-0   | Joint Cable Assy.  | Tool Cable to Controller                              | 5      | 18 |             |        |        |        |                     |           |
| 910-548-0   | Joint Cable Assy.  | Tool Cable to Controller                              | 10     | 35 |             |        |        |        |                     |           |
| EC/MCCBL-3  | Sensor Cable Assy. | Tool Cable to Controller                              | 1      | 3  | X           | X      |        | X      | 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-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*                  |           |
| 910-623-0   | Sensor Cable Assy. | External Driver Box to Controller                     | 0.3    | 1  |             |        |        |        | X                   |           |

\* Requires Controller with Angle Encoder Board installed



UEC-4800TRAY

### UEC-4800 CONTROLLER BRACKET KIT

UEC-4800TRAY provides a stable platform for the UEC-4800 Controller.

- Flexible mounting configurations for easy access and viewing
- Provides compact storage of light tower and accessories with controller
- Durable, Powder Coat finish

### TOOL HOLDERS

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



| MODEL         | USED FOR  |
|---------------|---|
| 852-644-1 KIT | ULT / UAT / UL 30 - 70 series<br>UX 450 - 500 series<br>UD-50 / UD-60 series                          |
| 852-669-1 KIT | ULT / UAT / UL / UA-MC /<br>UX / UX-T 612 - 800 series<br>UW-6 / UW-ST6 series                        |
| 852-645-1 KIT | UL T / UAT / UL / UA-MC 90 - 130 series<br>UDBP-TA 70 series<br>UX-T 700 series<br>UW-8 / UW-9 series |



# FIXTURED F-SERIES NUTRUNNERS

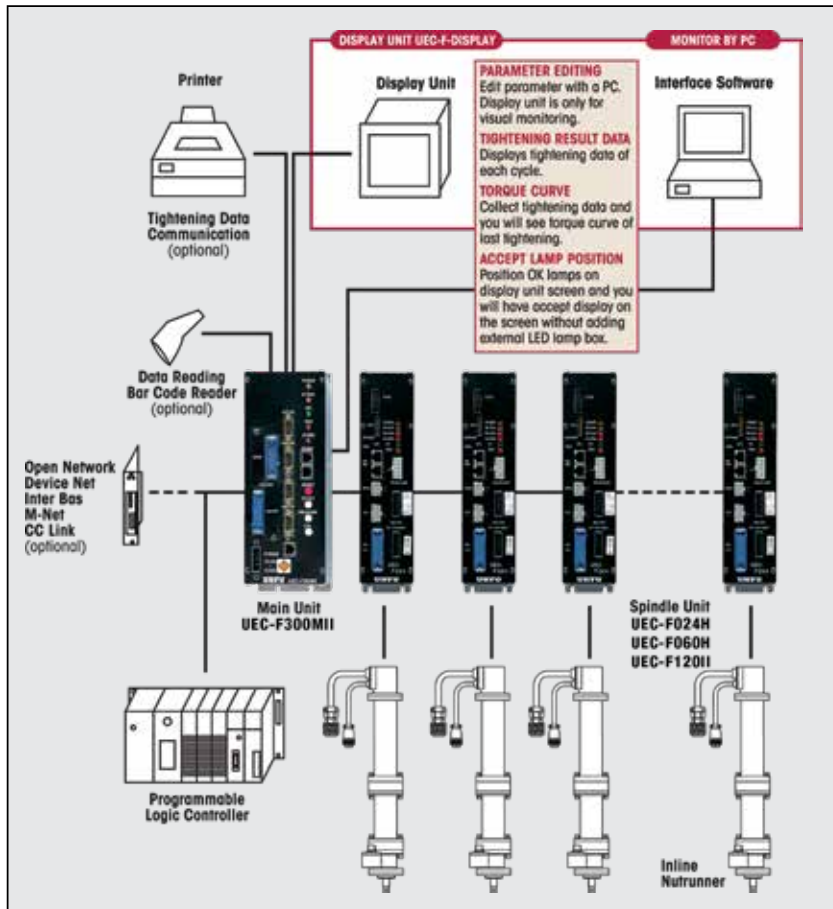


## FEATURES AND BENEFITS

- Reduced Cable Numbers – Integral type tube containing torque sensor cable and resolver cable
- Enhanced Memory Capacity – Designed with increased memory capacity for improved efficiency of assembly line and tightening data control
- Open Network Communication – Various communication boards are available (M-NET, Device net, Inter-bas, CC-link)
- Automatic Setting (Automatic recommended value input) – Advance value preparation per application will help you simplify your parameter setting
- Space Saving – One-piece spindle controller/driver unit reduces space occupancy by 40% to 60%

| NO. OF SPINDLES | VOLUME & WIDTH BEFORE |       | VOLUME & WIDTH WITH F-SERIES |     |           |     |           |     |
|-----------------|-----------------------|-------|------------------------------|-----|-----------|-----|-----------|-----|
|                 | CM                    | MM    | UEC-F024H                    |     | UEC-F060H |     | UEC-F120H |     |
|                 |                       |       | CM                           | MM  | CM        | MM  | CM        | MM  |
| 1-Spindle       | 16,800                | 200   | 5,512                        | 130 | 6,106     | 144 | 6,784     | 160 |
| 2-Spindle       | 24,360                | 290   | 8,056                        | 190 | 9,243     | 218 | 10,600    | 250 |
| 5-Spindle       | 47,040                | 560   | 15,688                       | 370 | 18,656    | 440 | 22,048    | 520 |
| 10-Spindle      | 84,840                | 1,010 | 28,408                       | 670 | 34,344    | 810 | 41,128    | 970 |

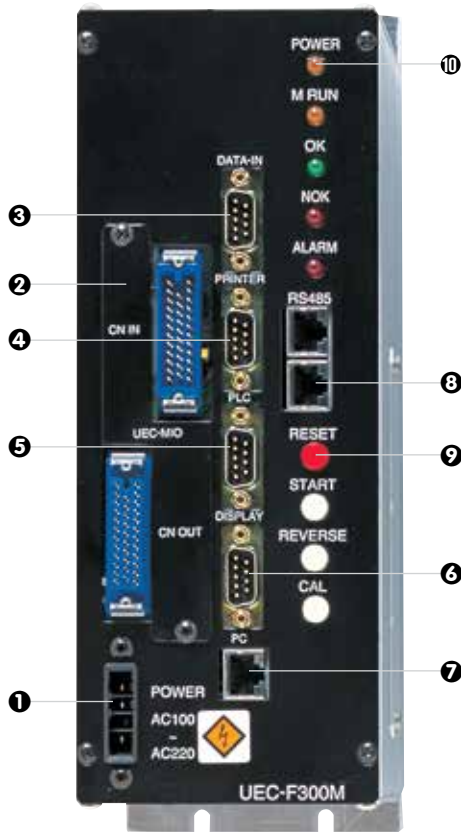
## F-SERIES NETWORK CONNECTIVITY



# FIXTURED F-SERIES NUTRUNNERS

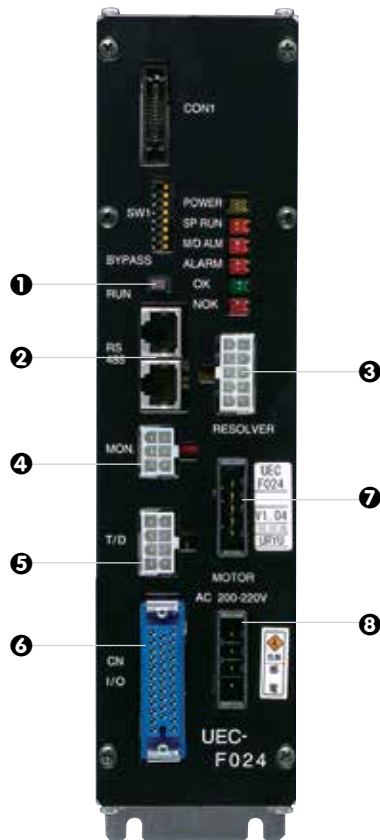
## Main Unit UEC-F300MII

Controls up to 31 spindle units and directs fastening.



- 1 Power Socket**  
AC100 ~ 220V single phase
- 2 External Input/Output Connector**  
PLC1: input signal connector for control signal input (fixed allocation)  
PLC2: output signal connector for judgement result and status output (free allocation)
- 3 Serial Port (Data Input Connector)**  
RS232C DATA-IN accepts serial numbers, etc. provided by external equipment such as a barcode reader then outputs tightening data together with serial numbers
- 4 Serial Port (Data Output Connector)**  
RS232C PRINTER outputs tightening result data to your printer (free format)
- 5 Serial Port (Data Output Connector)**  
RS232C PLC outputs tightening result data to PLC (free format)
- 6 Serial Port (Data Output Connector)**  
RS485 outputs tightening result data to an external exclusive display unit
- 7 PC Connector**  
RS232C for communication with a PC
- 8 Spindle-to-Spindle Communication Connector**  
RS485 for internal spindle unit to spindle unit communications
- 9 Manual Switches**  
RESET, START, REVERSE and CAL
- 10 LED Display**  
POWER, M RUN, ACCEPT, REJECT and ALARM

## Spindle units UEC-F024H & UEC-F060H minus UEC-MKB



- 1 Status Change Switch**  
RUN/BYPASS change switch  
RUN: Operation possible status  
BYPASS: Non-operation status
- 2 External Communication Device**  
RS485 connector
- 3 Resolver Connector**  
Tool and resolver connection
- 4 MON Connector (Monitor Output)**  
Analog torque electric pressure and angle pulse output
- 5 T/D Connector**  
Tools torque sensor connection
- 6 I/O Connector**  
External input and output control connection
- 7 MOTOR Connector**  
Connection with tools magnet motor
- 8 AC IN Connector**  
AC200V ~ 220V 3-phase power socket

## UEC-F024H with optional UEC-MKB display unit

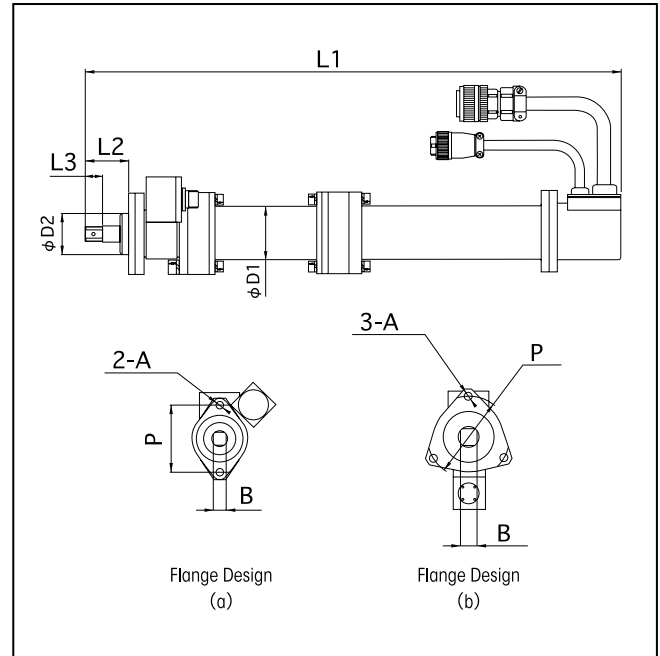
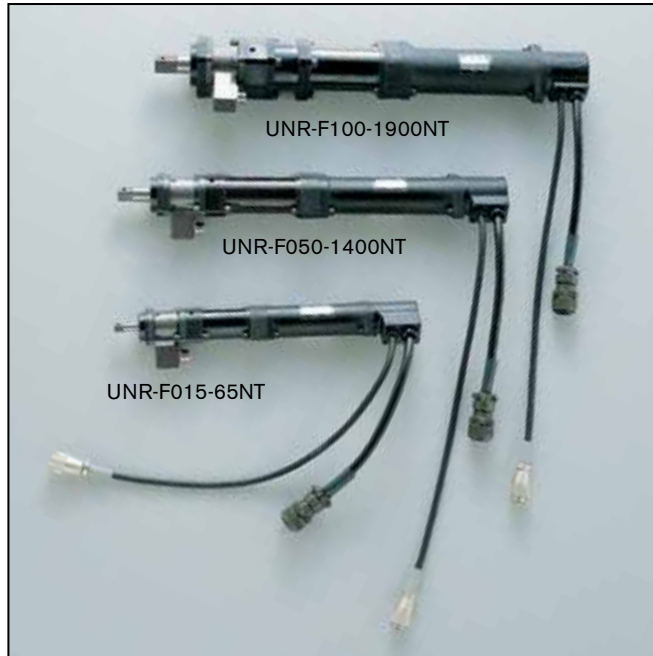


- 1 Manual Operation Switches**  
START: manual start switch  
REVERSE: Manual reverse switch  
CAL: Manual calibration switch  
RESET: Manual reset switch
- 2 Data Display Operation Switch**  
MODE switch  
SET switch  
DATA UP switch  
DATA DOWN switch

NOTE: Display unit (UEC-MKB) is an option

# FIXTURED F-SERIES NUTRUNNERS

## INLINE NUTRUNNERS



The "F" Series Nutrunner System will satisfy multiple tightening patterns.

- Torque tightening
- Spline press fit tightening
- Torque
- Pin hole alignment tightening
- Angle tightening
- Pre-load detection
- Angle
- Idle operation check
- Plastic range monitor

|  |                   |
|--|-------------------|
| Rated Strain                               | 2000X10-6         |
| Output Voltage                             | 1.0 mV/V          |
| Non-Linearity                              | ±0.5% R.O.        |
| Influence on Zero Point Due to Temperature | ±0.1% R.O./°C     |
| Temperature Rating                         | -10 ~ +65°C       |
| Input Output Resistance                    | 480Ω              |
| Maximum Input Voltage                      | 16V               |
| Insulation Resistance                      | Greater than 300Ω |
| Overload Capacity                          | 150%              |

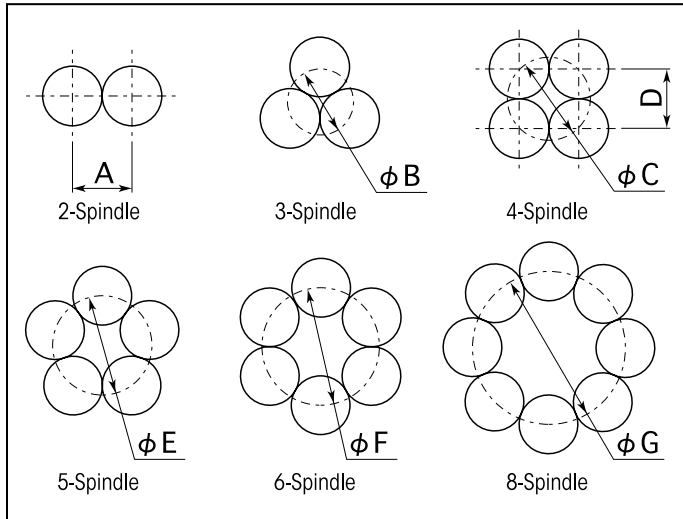
### Inline Nutrunner Specifications

| MODEL            | EXTERNAL DIMENSIONS (MM) |    |      |      |    |    |     |       | TORQUE SENSOR | CAPACITY NM | MOTOR TYPE | TIGHTENING TORQUE NM | FREE SPEED RPM | WEIGHT KG | SPINDLE UNIT | FLANGE DESIGN |
|------------------|--------------------------|----|------|------|----|----|-----|-------|---------------|-------------|------------|----------------------|----------------|-----------|--------------|---------------|
|                  | L1                       | L2 | L3   | D1   | D2 | P  | A   | B     |               |             |            |                      |                |           |              |               |
| UNR-F015-45NT    | 371                      | 41 | 12   | 40.5 | 38 | 51 | M6  | 9.5   | TM-035        | 34.3        | F015       | 4.5                  | 3,200          | 2.48      | UEC-F024H    | (a)           |
| UNR-F015-65NT    | 371                      | 41 | 12   | 40.5 | 38 | 51 | M6  | 9.5   | TM-035        | 34.3        | F015       | 6.5                  | 2,200          | 2.48      | UEC-F024H    | (a)           |
| UNR-F015-200NT   | 400                      | 41 | 12   | 40.5 | 38 | 51 | M6  | 9.5   | TM-035        | 34.3        | F015       | 20                   | 730            | 2.73      | UEC-F024H    | (a)           |
| UNR-F015-280NT   | 400                      | 41 | 12   | 40.5 | 38 | 51 | M6  | 9.5   | TM-035        | 34.3        | F015       | 28                   | 500            | 2.73      | UEC-F024H    | (a)           |
| UNR-F015-350NT   | 400                      | 41 | 12   | 40.5 | 38 | 51 | M6  | 9.5   | TM-035        | 34.3        | F015       | 35                   | 410            | 2.73      | UEC-F024H    | (a)           |
| UNR-F050-270NT   | 453.5                    | 41 | 12   | 50   | 38 | 51 | M6  | 9.5   | TM-035        | 34.3        | F050       | 27                   | 1,750          | 4.86      | UEC-F060H    | (a)           |
| UNR-F050-630NT   | 500.5                    | 41 | 16.5 | 50   | 38 | 62 | M8  | 12.7  | TM-085        | 83.3        | F050       | 63                   | 750            | 5.08      | UEC-F060H    | (a)           |
| UNR-F050-730NT   | 500.5                    | 41 | 16.5 | 50   | 38 | 62 | M8  | 12.7  | TM-085        | 83.3        | F050       | 73                   | 650            | 5.08      | UEC-F060H    | (a)           |
| UNR-F050-880NT   | 512.5                    | 45 | 20   | 50   | 48 | 62 | M8  | 15.88 | TM-150        | 147         | F050       | 88                   | 540            | 5.47      | UEC-F060H    | (a)           |
| UNR-F050-1400NT  | 512.5                    | 45 | 20   | 50   | 48 | 62 | M8  | 15.88 | TM-150        | 147         | F050       | 140                  | 340            | 5.47      | UEC-F060H    | (a)           |
| UNR-F100-1300NT  | 519.5                    | 45 | 20   | 62   | 48 | 62 | M8  | 15.88 | TM-150        | 147         | F100       | 130                  | 730            | 7.42      | UEC-F120II   | (a)           |
| UNR-F100-1900NT  | 515.5                    | 45 | 20   | 62   | 48 | 76 | M8  | 15.88 | TM-250        | 245         | F100       | 190                  | 500            | 7.94      | UEC-F120II   | (b)           |
| UNR-F100-2500NT  | 515.5                    | 45 | 20   | 62   | 48 | 76 | M8  | 15.88 | TM-250        | 245         | F100       | 250                  | 370            | 7.94      | UEC-F120II   | (b)           |
| UNR-F100-3700NT  | 589                      | 57 | 30   | 62   | 58 | 76 | M10 | 19    | TM-400        | 392         | F100       | 370                  | 260            | 9.55      | UEC-F120II   | (b)           |
| UNR-F100-5400NT  | 704.5                    | 80 | 40   | 62   | 70 | 90 | M10 | 25.4  | TM-700        | 686         | F100       | 540                  | 175            | 17.0      | UEC-F120II   | (b)           |
| UNR-F100-7000NT  | 704.5                    | 80 | 40   | 62   | 70 | 90 | M11 | 25.4  | TM-700        | 686         | F100       | 700                  | 120            | 17.0      | UEC-F120II   | (b)           |
| UNR-F100-10000NT | 704.5                    | 80 | 40   | 62   | 70 | 90 | M11 | 25.4  | TM-1000       | 980         | F100       | 1,000                | 90             | 17.0      | UEC-F120II   | (b)           |

# FIXTURED F-SERIES NUTRUNNERS

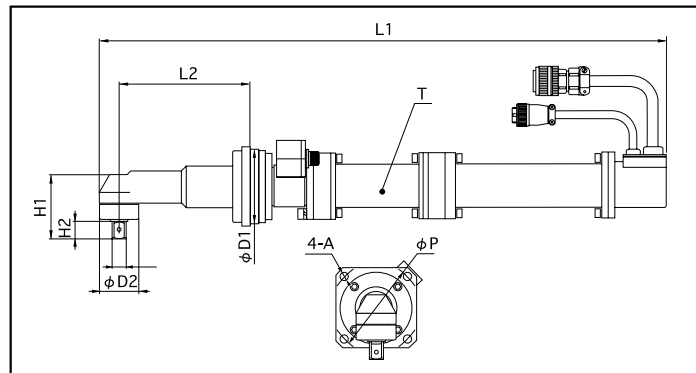
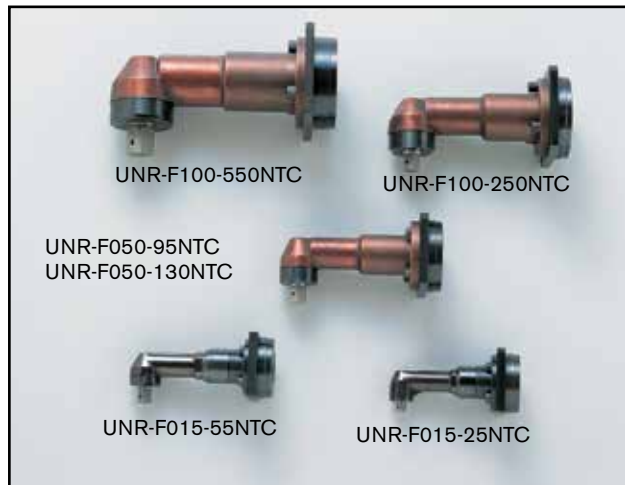
## “F” NUTRUNNER MOTORS’ MINIMUM PITCH CIRCLE

Refer to minimum pitch circles for designing your machine.



| TYPE             | DIMENSIONS (MM) |     |     |     |     |     |     |
|------------------|-----------------|-----|-----|-----|-----|-----|-----|
|                  | A               | B   | C   | D   | E   | F   | G   |
| UNR-F015-45NT    | 43              | 52  | 64  | 46  | 74  | 92  | 122 |
| UNR-F015-65NT    | 43              | 52  | 64  | 46  | 74  | 92  | 122 |
| UNR-F015-200NT   | 43              | 52  | 64  | 46  | 74  | 92  | 122 |
| UNR-F015-280NT   | 43              | 52  | 64  | 46  | 74  | 92  | 122 |
| UNR-F015-350NT   | 43              | 52  | 64  | 46  | 74  | 92  | 122 |
| UNR-F050-270NT   | 59              | 72  | 90  | 64  | 108 | 122 | 160 |
| UNR-F050-630NT   | 59              | 72  | 90  | 64  | 108 | 122 | 160 |
| UNR-F050-730NT   | 59              | 72  | 90  | 64  | 108 | 122 | 160 |
| UNR-F050-880NT   | 59              | 72  | 90  | 64  | 108 | 122 | 160 |
| UNR-F100-1300NT  | 66              | 75  | 92  | 65  | 116 | 130 | 170 |
| UNR-F100-1900NT  | 70              | 100 | 110 | 78  | 115 | 132 | 174 |
| UNR-F100-2500NT  | 70              | 100 | 110 | 78  | 115 | 132 | 174 |
| UNR-F100-3700NT  | 76              | 100 | 110 | 78  | 120 | 140 | 184 |
| UNR-F100-5400NT  | 94              | 125 | 143 | 102 | 166 | 188 | 257 |
| UNR-F100-7000NT  | 94              | 125 | 143 | 102 | 166 | 188 | 257 |
| UNR-F100-10000NT | 94              | 125 | 143 | 102 | 166 | 188 | 257 |

## RIGHT ANGLE NUTRUNNERS



## Right Angle Nutrunner Specifications

| MODEL           | EXTERNAL DIMENSIONS (MM) |     |       |      |     |    |     |     |       | STRAIGHT MOTORS |         |       | TIGHTENING TORQUE (NM) | FREE SPEED (RPM) | WEIGHT (KG) | SPINDLE UNIT |
|-----------------|--------------------------|-----|-------|------|-----|----|-----|-----|-------|-----------------|---------|-------|------------------------|------------------|-------------|--------------|
|                 | L1                       | L2  | H1    | H2   | D1  | D2 | P   | A   | B     | TYPE            | SENSOR  | MOTOR |                        |                  |             |              |
| UNR-F015-25NTC  | 507                      | 120 | 49    | 10.6 | 70  | 28 | 85  | M6  | 9.5   | UNR-F015-200NT  | TM-035  | F015  | 25                     | 460              | 4.18        | UEC-F024     |
| UNR-F015-55NTC  | 521                      | 130 | 58    | 18   | 70  | 36 | 85  | M6  | 12.7  | UNR-F015-350NT  | TM-035  | F015  | 55                     | 260              | 4.37        | UEC-F024     |
| UNR-F050-95NTC  | 643                      | 150 | 73.5  | 20   | 85  | 45 | 102 | M6  | 15.88 | UNR-F050-630NT  | TM-085  | F050  | 95                     | 480              | 8.08        | UEC-F060     |
| UNR-F050-130NTC | 649                      | 150 | 73.5  | 20   | 85  | 45 | 102 | M6  | 15.88 | UNR-F050-880NT  | TM-150  | F050  | 130                    | 340              | 8.3         | UEC-F060     |
| UNR-F100-200NTC | 681.5                    | 170 | 85.5  | 20   | 85  | 56 | 102 | M6  | 15.88 | UNR-F100-1300NT | TM-150  | F100  | 200                    | 460              | 11.92       | UEC-F120     |
| UNR-F100-250NTC | 677.5                    | 170 | 85.5  | 20   | 100 | 56 | 120 | M8  | 15.88 | UNR-F100-1900NT | TTM-150 | F100  | 250                    | 340              | 12.3        | UEC-F120     |
| UNR-F100-380NTC | 716.5                    | 200 | 109.5 | 25   | 110 | 74 | 134 | M10 | 19    | UNR-F100-2500NT | TM-250  | F100  | 380                    | 235              | 15.92       | UEC-F120     |
| UNR-F100-550NTC | 784                      | 200 | 114.5 | 29   | 110 | 74 | 134 | M10 | 25.4  | UNR-F100-3700NT | TM-400  | F100  | 550                    | 165              | 17.43       | UEC-F120     |

# TORQUE MEASUREMENT: OVERVIEW

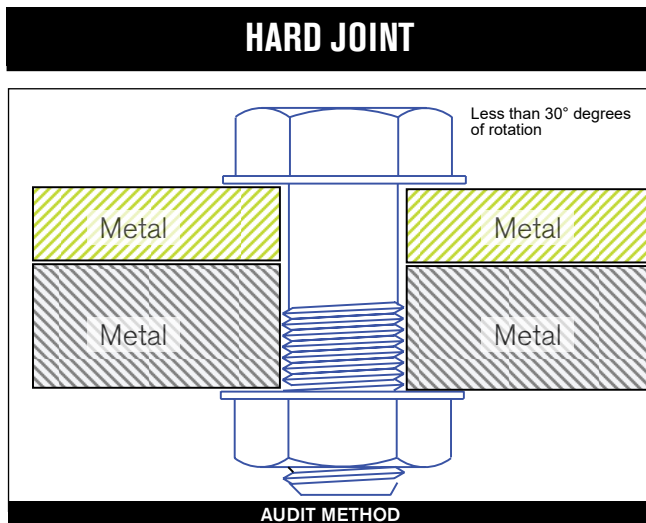
Torque measurement and the verification of torque tools and applied torque are an integral part of today's threaded assembly process. The method used to measure torque can affect the judgments made regarding tool performance, assembly processes and overall product quality.

## 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



**Dynamic Torque: 15 Nm**



**Residual Torque: 18 Nm**

**Values as examples only**

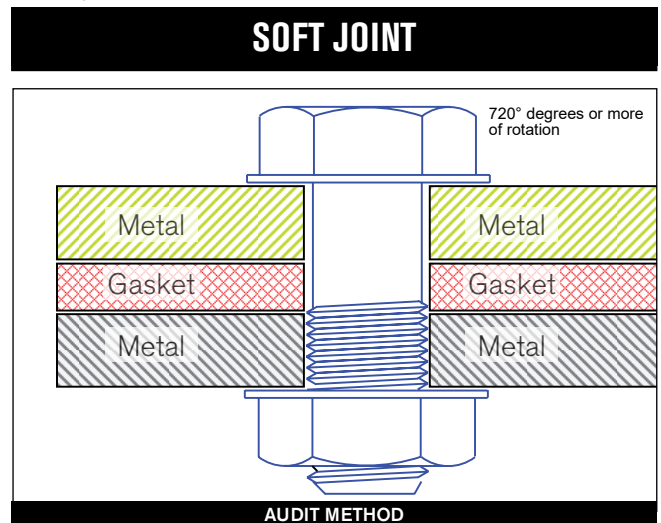
A hard joint, one requiring a low degree of rotation during tightening, will normally show very little relaxation after tightening. Due to the high amount of remaining clamp load and friction within the joint members, additional movement of the fastener requires additional torque energy to be applied.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

## 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: 12 Nm**

**Values as examples only**

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

# TORQUE MEASUREMENT: OVERVIEW

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

## BEFORE ASSEMBLY

### Tool Capability



#### ***Is the tool working correctly?***

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

#### ***Equipment used:***

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

## DURING ASSEMBLY

### Process Capability



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

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

#### ***Equipment used:***

- Torque Data Collectors/ Analyzers
- Auditor Rotary Transducers

## AFTER ASSEMBLY

### Product Capability



#### ***Does the finished product meet expectations?***

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

#### ***Equipment used:***

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

# AUDITOR™

# TORQUE MEASUREMENT: OVERVIEW

## MEASURING QUALITY – PROCESS CAPABILITY

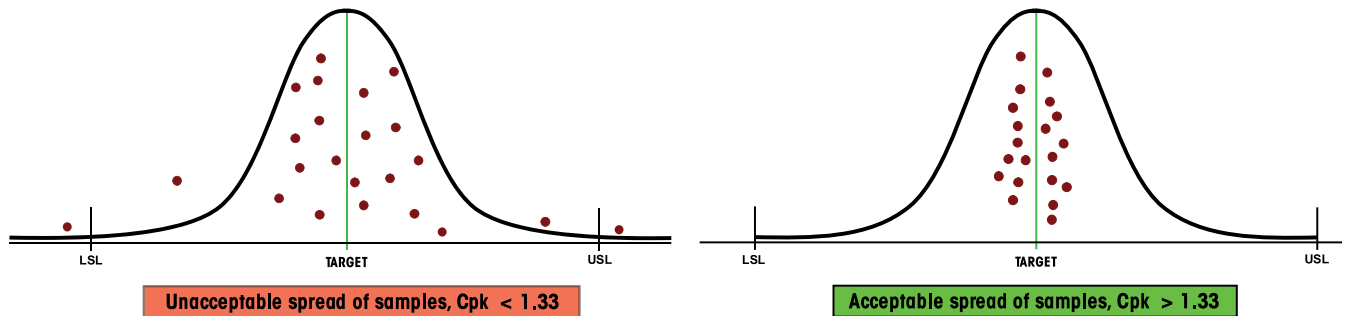
STATISTICAL ANALYSIS IS AN IMPORTANT STEP IN ANY QUALITY CONTROL PROCESS.

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.

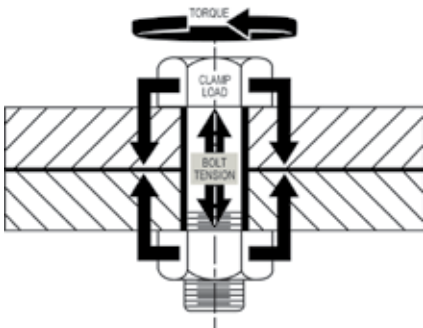
$$Cpk = \min \left( \frac{USL - \text{Mean}}{3 \times \sigma}, \frac{\text{Mean} - LSL}{3 \times \sigma} \right)$$

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



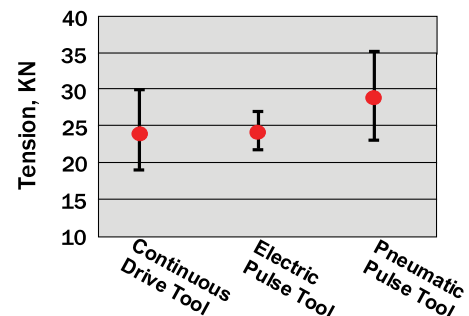
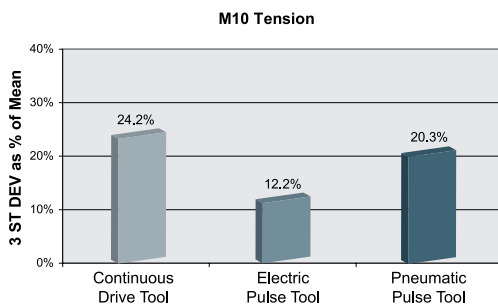
## MEASURING QUALITY – CLAMP LOAD

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



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

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



# TORQUE MEASUREMENT SYSTEMS



| TORQUE MEASUREMENT SYSTEMS |                            |                |                       |               |                      |                          |                               |                                 |                          |                             |
|----------------------------|----------------------------|----------------|-----------------------|---------------|----------------------|--------------------------|-------------------------------|---------------------------------|--------------------------|-----------------------------|
| DEVICES                    | MODEL SERIES               | DATA COLLECTOR | INTEGRATED TRANSDUCER | TORQUE WRENCH | TORQUE WRENCH LOADER | EXTERNAL TRANSDUCER PORT | STATIONARY TRANSDUCERS -SMART | STATIONARY TRANSDUCERS -IND STD | ROTARY TRANSDUCER -SMART | ROTARY TRANSDUCER - IND STD |
| Testers                    | ATC                        |                | X                     |               |                      |                          |                               |                                 |                          |                             |
|                            | AUET                       |                | X                     |               |                      |                          |                               |                                 |                          |                             |
|                            | AUET-DC                    | X              | X                     |               |                      |                          |                               |                                 |                          |                             |
|                            | AUET/MTM                   |                | X                     |               |                      | X                        |                               |                                 |                          |                             |
|                            | AUET/MTM-DC                | X              | X                     |               |                      | X                        |                               |                                 |                          |                             |
| Analyzers                  | ATDA                       |                |                       |               |                      | X                        |                               |                                 |                          |                             |
|                            | ATDA-DC                    | X              |                       |               |                      | X                        |                               |                                 |                          |                             |
|                            | ATDA-8000-10-DCA(-TA)(-TP) | X              |                       |               |                      | X                        |                               |                                 |                          |                             |
| Test Stands                | AHCTS*                     | X*             | X*                    | X*            |                      |                          | X*                            | X*                              | X*                       | X*                          |
|                            | AHCTS-K*                   | X*             | X*                    | X*            |                      |                          | X*                            | X*                              | X*                       | X*                          |
|                            | AHDTS*                     | X*             | X*                    | X*            |                      |                          | X*                            | X*                              | X*                       | X*                          |
|                            | AHBTS*                     | X*             | X*                    | X*            |                      |                          | X*                            | X*                              | X*                       | X*                          |
|                            | AIMTS*                     | X*             | X*                    | X*            |                      |                          | X*                            | X*                              | X*                       | X*                          |
| Wrenches                   | ADW                        |                |                       | X             |                      |                          |                               |                                 |                          |                             |
|                            | ADW-DC                     | X              |                       |               |                      |                          |                               |                                 |                          |                             |
|                            | APTW                       |                |                       | X             |                      |                          |                               |                                 |                          |                             |
|                            | ATW                        |                |                       | X             |                      |                          |                               |                                 |                          |                             |
|                            | ATWL                       |                |                       |               | X                    |                          |                               |                                 |                          |                             |
|                            | Moment Alpha               | X              |                       | X             |                      |                          |                               |                                 |                          |                             |
| Torque Cart                | iTVC*                      | X*             | X*                    | X*            |                      |                          | X*                            | X*                              | X*                       | X*                          |
| Transducers                | ARTIS                      |                |                       |               |                      |                          |                               |                                 |                          | X                           |
|                            | ASTIS                      |                |                       |               |                      |                          |                               | X                               |                          |                             |
|                            | AISI                       |                |                       |               |                      |                          | X                             |                                 |                          |                             |
|                            | AISF                       |                |                       |               |                      |                          | X                             |                                 |                          |                             |
| Rundown Fixtures           | AJKR                       |                |                       |               |                      |                          |                               |                                 |                          |                             |
|                            | AJKS                       |                |                       |               |                      |                          |                               |                                 |                          |                             |
|                            | ARDFA                      |                |                       |               |                      |                          |                               |                                 |                          |                             |
|                            | ARDIA                      |                |                       |               |                      |                          |                               |                                 |                          |                             |
| Joint Simulator            | UFT                        |                |                       |               |                      |                          |                               |                                 |                          |                             |

\*configured to customer specifications








# TORQUE MEASUREMENT TESTERS

## TORQUE MEASUREMENT: TESTERS

### Features and Benefits

- Heavy industrial design
- All software included
- Auditor Torque Testers are designed for intuitive and functional usability. AUET/MTM models are available with our unique dual integrated torque transducer package.

Testers are designed to audit torque wrenches and power tools, including pulse tools

|   |  |  |                 |    |    |
|---|---|---|---|---|---|
|   | ATC   | AUET  | AUET/MTM  | AUET-DC   | AUET/MTM-DC   |
|   | Auditor Torque Cube   | Auditor Universal Electronic Tester   | Auditor Universal Electronic Tester - Multiple Transducer Module                                  | Auditor Universal Electronic Tester - Data Collector  | Auditor Universal Electronic Tester/Multiple transducer Module - Data Collector   |
|   | Compact vertical or horizontal bench-mount tester.                                | Bench mount or line side tester utilizing integrated transducer.                  | Bench mount or line side tester with dual integrated transducer and external transducer capacity. | Bench mount or line side tester utilizing integrated transducer. Provides data collection capability with included software to interface with PC. | Bench mount or line side tester with dual integrated transducer and external transducer capacity. Data collection capability with included software to interface with PC. |
| Integrated Transducer Range (values are in full scale)  | 1 - 1,350 Nm<br>100 in-oz - 1,000 ft-lb   | 1 - 1,000 Nm<br>100 in-oz - 750 ft-lb   | 1 - 1,000 Nm<br>100 in-oz - 750 ft-lb   | 1 - 1,000 Nm<br>100 in-oz - 750 ft-lb   | 1 - 1,000 Nm<br>100 in-oz - 750 ft-lb   |
| External Transducer Capacity (Transducer sizes exceeding this range may be special ordered)       |   |   | up to 5,000 ft-lb   |   | up to 5,000 ft-lb   |
| Vertical / Horizontal Mount   | X   |   |   |   |   |
| Bi-directional accuracy of +/- X of indicated reading within the top 90% of the tester's capacity | 1%  | 0.50%   | 0.50%   | 0.50%   | 0.50%   |
| Data Output to PC   | X   | X   | X   | X   | X   |
| Integrated Torque Transducer  | 1   | 1   | 2   | 1   | 2   |
| External Transducer Port  |   |   | X   |   | X   |
| Number of Stored Readings   | 999   | 999   | 999   | 999   | 999   |
| Adjustable Rundown Fixture Included *   | 1   | 1   | 2   | 1   | 2   |
| Rechargeable NiMH Battery   | X   | X   | X   | X   | X   |
| <b>Measurement Modes</b>  |   |   |   |   |   |
| Peak  | X   | X   | X   | X   | X   |
| First Peak (Click)  | X   | X   | X   | X   | X   |
| Pulse   | X   | X   | X   | X   | X   |
| Track   | X   | X   | X   | X   | X   |
| Units of Measure Options  | 8   | 8   | 8   | 8   | 8   |
| Tool Manager Software Included  |   |   |   | X   | X   |

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

## TORQUE MEASUREMENT TESTERS USED IN CONJUNCTION WITH

### External Transducers

|                                   |  |  |   |  |   |
|-----------------------------------|--|--|---|--|---|
| ASTIS - Stationary                |  |  | X |  | X |
| AISI / AISF - Stationary - Analog |  |  | X |  | X |
| ARTIS - Rotary                    |  |  | X |  | X |

### Switch box for External Transducer

|                                |  |  |   |  |   |
|--------------------------------|--|--|---|--|---|
| AISWT-4L > 4 Way Intellect box |  |  | X |  | X |
| AISWT-6L > 6 Way Intellect box |  |  | X |  | X |

### Cables

|  |   |   |   |   |   |
|--|---|---|---|---|---|
| ICBL-USB - USB Serial > PC   | X | X | X | X | X |
| ATDBLIS - IS Transducer w/angle (10 Pin)   |   |   | X |   | X |
| ATDBRIS - IS Transducer (4 Pin)  |   |   | X |   | X |
| ICBL-10P - Intellect transducer cable<br>Identification chip in cable - 10 pin connector |   |   | X |   | X |
| ICBL-4P - Intellect transducer cable.<br>Identification chip in cable - 4 pin connector  |   |   | X |   | X |
| ICBL-5000L - Connect from AUET/MTM & ATDA to Intellect Transducers, Analog AISI / AISF   |   |   | X |   | X |

# AUDITOR TORQUE CUBE



ATC-10  
ATC-25  
ATC-100  
ATC-250  
ATC-500  
ATC-750  
ATC-1800



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



## AUDITOR TORQUE CUBE

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

- Peak, first peak, and track modes
- Multiple engineering units
- Manual and auto clear function
- Multiple frequency response settings
- Bi-directional use and accuracy
- Accuracy is better than 1% of indicated reading top 90% of range
- Serial data output
- Memory: 999 data samples
- Battery and/or mains powered

Because precision and quality are critical, you can depend on our testers to calibrate and certify your tools. Whether you are assembling large complicated systems or small precise time pieces, AIMCO provides the best system for your application. Our instruments have been judged “best in class” by independent National Standards laboratories. Auditor Torque Cube is rugged enough to test and verify tools at “point of use” while still being accurate enough to calibrate hand and power tools.

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

| MODEL                           | 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             |

# AUDITOR BENCH-MOUNT TESTERS



AUET



AUET/MTM



AUET/MTM-DC

## AUDITOR UNIVERSAL ELECTRONIC TESTERS

Auditor Universal Electronic Testers (AUET) have a broad range of features to accommodate most requirements. They are designed to be bench-top mounted and are available in several configurations and various single or multiple torque ranges. Onboard memory allows you to capture 999 torque event readings. The testers are also available in file capability (DC) models that require PC software Auditor Tool Manager (ATM).

Instruments up to 1,000 in-lb are supplied with rundown adapters/joint kits. Rundown kits for larger instruments can be ordered separately. AUET/MTM units are supplied with an external transducer port and selector switch for connecting additional transducers.

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



### Single Transducer Models

| MODEL*         | RECOMMENDED TORQUE RANGE |                   |
|----------------|--------------------------|-------------------|
|                | KGf-CM/NM                | IN-OZ/IN-LB       |
| AUET-050(-DC)  | 0.4 - 3.6 kgf-cm         | 5 - 50 in-oz      |
| AUET-0100(-DC) | 0.7 - 7.2 kgf-cm         | 10 - 100 in-oz    |
| AUET-10(-DC)   | 1.1 - 11.5 kgf-cm        | 1 - 10 in-lb      |
| AUET-50(-DC)   | 0.5 - 5.6 Nm             | 5 - 50 in-lb      |
| AUET-100(-DC)  | 1.1 - 11.3 Nm            | 10 - 100 in-lb    |
| AUET-250(-DC)  | 2.8 - 28.3 Nm            | 25 - 250 in-lb    |
| AUET-500(-DC)  | 5.7 - 56.5 Nm            | 50 - 500 in-lb    |
| AUET-1000(-DC) | 11.3 - 113 Nm            | 100 - 1,000 in-lb |
| AUET-1200(-DC) | 13.6 - 135.6 Nm          | 120 - 1,200 in-lb |
| AUET-1800(-DC) | 20.3 - 203.4 Nm          | 180 - 1,800 in-lb |

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

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

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

### Dual Transducer Models

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

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

# AUDITOR TORQUE MEASUREMENT ANALYZERS

## TORQUE MEASUREMENT: ANALYZERS

### Features and Benefits

- Auditor Torque Analyzers share similar features across all products and are designed for intuitive and functional usability.
- Connects to AIMCO's line of rotary and stationary transducers



|  | ATDA | ATDA-DC   | ATDA-8000   | ATDA-8000-10-DCA(-TA)(-TP)   |
|--|------|---|---|--|
| Auditor Torque Data Analyzer                             |      | Auditor Torque Data Analyzer with Data Collection   | Auditor Torque Data Analyzer with 7" screen                         | Auditor Torque Data Analyzer 10" display with Data Collection. TA = Torque & Angle, TP = Torque & Pressure |
| Portable analyzer to be connected to various transducers |      | Portable analyzer to be connected to various transducers. Provides data collection capability with included software to interface with PC | 7" screen with high resolution display and intuitive user interface | 10" touch screen with high resolution display and intuitive user interface with multiplexer                |
| Bi-directional   | X    | X   | X   | X  |
| Data Output to PC  | X    | X   | X   | X  |
| External Transducer Port                                 | 1    | 1   | 1   | 4  |
| Number of stored readings                                | 999  | 999   | 999   | 999  |
| Rechargeable NiMH Battery                                | X    | X   | X   | X  |
| Digital I/O for external devices                         | X    | X   | X   | X  |
| Measurement Modes  | X    | X   | X   | X  |
| Peak   | X    | X   | X   | X  |
| First Peak (Click)                                       | X    | X   | X   | X  |
| Pulse  | X    | X   | X   | X  |
| Track  | X    | X   | X   | X  |
| Measurement Units  | 8    | 8   | 8   | 8  |
| Software Included  |      | X   | X   | X  |
| Barcode Reader Capable                                   |      |   | X   | X  |

### USED IN CONJUNCTION WITH

| Transducers   |   |   |   |   |
|---|---|---|---|---|
| AISI / AISF - Analog  | X | X |   |   |
| AISI / AISF - Digital   |   |   | X | X |
| ASTIS - Stationary  | X | X |   |   |
| ARTIS - Rotary  | X | X |   |   |
| Wrenches  |   |   |   |   |
| ATW   | X | X |   |   |
| Switch boxes for External Transducers   |   |   |   |   |
| AISWT-4L > 4 Way Intellect box  | X | X |   |   |
| AISWT-6L > 6 Way Intellect box  | X | X |   |   |
| Cables  |   |   |   |   |
| ICBL-USB - USB Serial > PC  | X | X |   |   |
| ATDBLIS - IS Transducer w/ angle (10 Pin)   | X | X |   |   |
| ATDBRIS - IS Transducer (4 Pin)   | X | X |   |   |
| ICBL-10P - Intellect transducer cable. Identification chip in cable 10 pin connector    | X | X |   |   |
| ICBL-4P - Intellect transducer cable. Identification chip in cable 4 pin connector      | X | X |   |   |
| ICBL-5000L - Connect from AUET/MTM & ATDA to Intellect Transducer, Analog AISI / AISF   | X | X |   |   |
| ICBL-8000DIG - Connect from ATDA-8000 series analyzer to Digital AISI / AIFI transducer |   |   | X | X |

# AUDITOR TORQUE DATA ANALYZERS



## AUDITOR TORQUE DATA ANALYZERS

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

The Auditor Torque Data Analyzer is available in two configurations:

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

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

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



# AUDITOR TORQUE DATA ANALYZERS



ATDA-8000

ATDA-8000-10-DCA(-TA)(-TP)

## TOUCH SCREEN AUDITOR TORQUE DATA ANALYZERS

Auditor offers the ATDA-8000 and the ATDA-8000-10-DCA(-TA)(-TP). The ATDA-8000 is a touch screen instrument with a high resolution display and user interface that facilitates “point of use” tool validation. The user interface is intuitive and the display provides clear easy to read data. Features and parameter settings are password protected to ensure parameters cannot be inadvertently changed. After initial setup, the instrument provides semi-automatic tool validation and judgment.


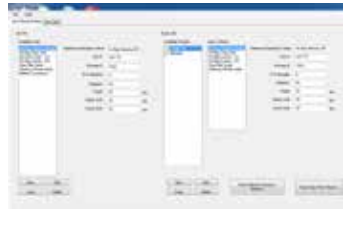

The ATDA-8000 is a single channel instrument. The ATDA-8000-10-DCA(-TA)(-TP) is a larger instrument that includes a multiplexor for connection to multiple transducers allowing a wide range of tools to be tested with one instrument. The (-TA) model is designed for torque and angle analysis and the (-TP) model is designed for torque and pressure analysis.

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

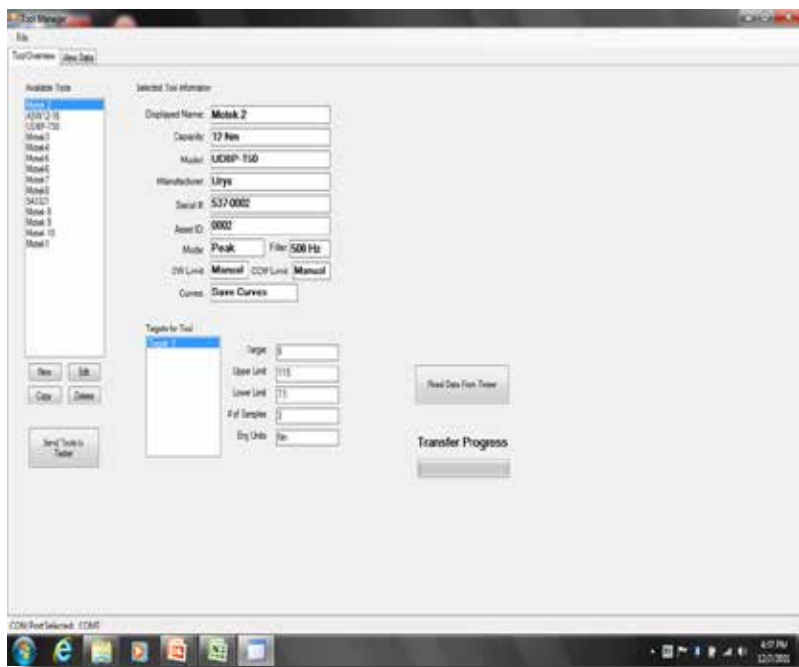
| MODEL                      | DESCRIPTION   |
|----------------------------|---|
| ATDA-8000                  | Auditor Torque Analyzer Single channel 7" touch screen point of use validation system       |
| ATDA-8000-10-DCA(-TA)(-TP) | Auditor Torque Analyzer Multiple transducer 10" touch screen point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



# AUDITOR DATA COLLECTION SOFTWARE

| DATA COLLECTION SOFTWARE  |  |  |
|---|--|--|
|                            |  |   |
| <b>AUDITOR TOOL MANAGER SOFTWARE</b>  | <b>AUDITOR AUDIT MANAGER SOFTWARE</b>  | <b>SMD TOOLS SOFTWARE</b>  |
| 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  |
| 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 |

| COMPATIBILITY       |   |   |
|---------------------|---|---|
| Desktop or PC       |   | X |
| ATC                 |   | X |
| ADW                 | X |   |
| ATDA                |   | X |
| ATDA-DC             | X | X |
| AUET                |   | X |
| AUET-DC             | X | X |
| AUET/MTM            |   | X |
| AUET/MTM-DC         | X | X |
| ARTIS               |   |   |
| ARTIS-DIG           |   | X |
| AISI/AISF           |   |   |
| AISI/AISF (Digital) |   | X |
| iTVC Torque Cart    |   | X |



## AUDITOR TOOL MANAGER SOFTWARE

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

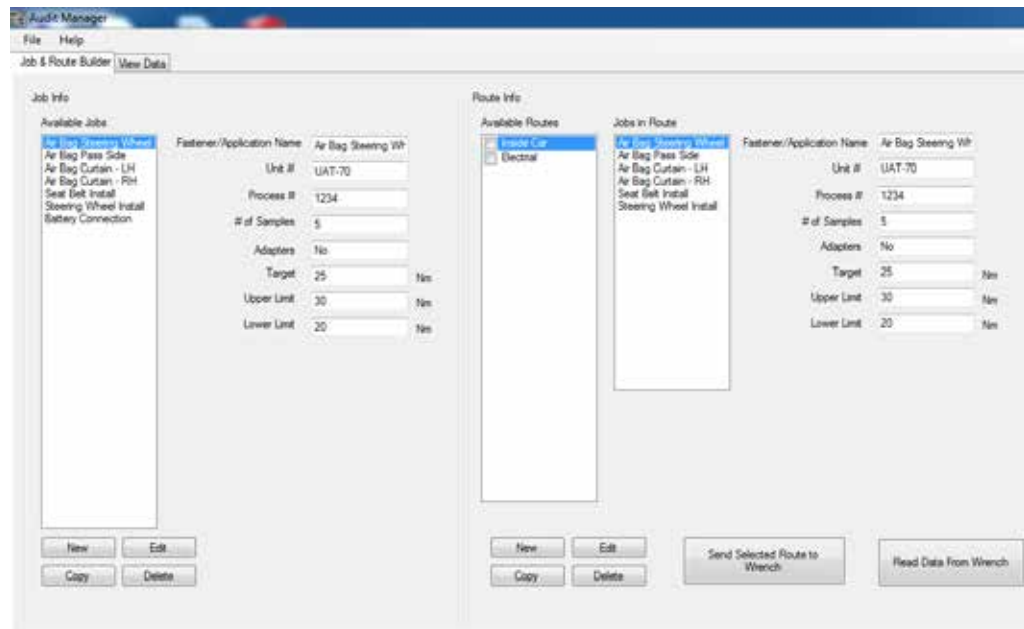
Tool Manager Software, Tool Overview Screen

# AUDITOR DATA COLLECTION SOFTWARE

## AUDITOR AUDIT MANAGER SOFTWARE

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

Audit Manager Software,  
Job and Route Builder Screen

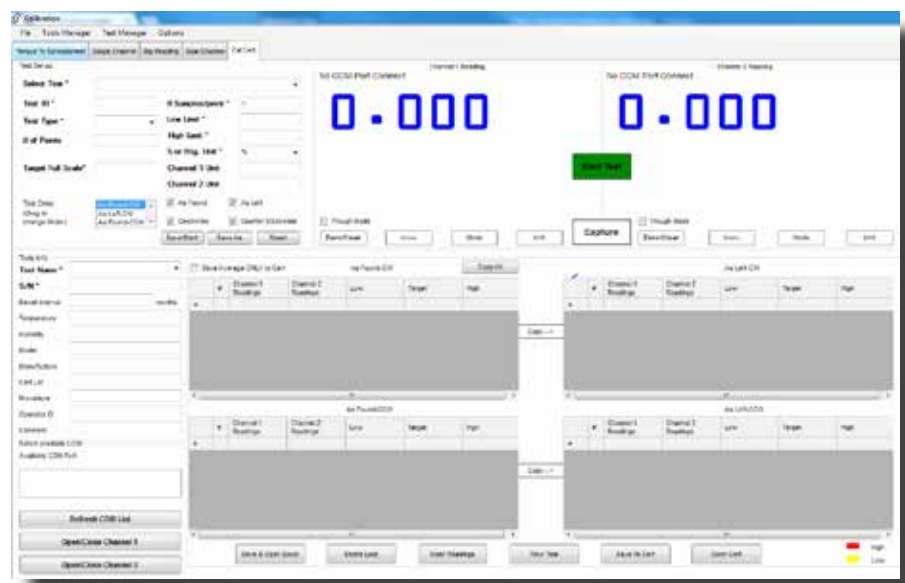


## SMD TOOLS SOFTWARE

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

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

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








SMD Tools Software, Cal Cert Screen



# AUDITOR HIGH-CAPACITY TEST STANDS




## TORQUE MEASUREMENT: HIGH CAPACITY TEST STANDS

| Features and Benefits   |     |  |    |   |                     |
|---|--|---|--|--|--|
|   | AHCTS  | AHCTS-K   | AHDTS  | AHBTS  | AIMTS  |
|   | Auditor High Capacity Test Stand   | Auditor High Capacity Test Stand - Hydraulic                                      | Auditor High Capacity Test Stand Dual Transducer   | Auditor High Capacity Stand w/variable joint simulation  | Auditor High Capacity Impact Test Stand  |
| <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> | 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. | Designed for testing rotating tools without the use of rundown fixtures. Adjustable airbrake joint simulation eliminates GCW rotation after rundown. | Ideal for testing impact wrenches and is recommended to utilize rundown fixtures when testing impacts. |
| Capacity  | 6,750 Nm   | 33,750 Nm   | 33,750 Nm  | 6,750 Nm   | 2,700 Nm   |

## ACCESSORIES

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

## Adapters

|  | AHCTS | AHCTS-K | AHDTS | AHBTS | AIMTS |
|--|-------|---------|-------|-------|-------|
| <b>Square to Square Drive Adapters*</b>  |       |         |       |       |       |
|  CA1510 1-1/2" Male to 1" Female            | X     |         | X     | X     |       |
| CA1550 1-1/2" Male to 1/2" Female  | X     |         | X     | X     |       |
| CA1575 1-1/2" Male to 3/4" Female  | X     |         | X     | X     |       |
| <b>Insert Adapters*</b>  |       |         |       |       |       |
|  CA2510I 2-1/2" Male to 1" Female           | X     | X       | X     | X     |       |
| CA2515I 2-1/2" Male to 1-1/2" Female   | X     | X       | X     | X     |       |
| CA2575I 2-1/2" Male to 3/4" Female   | X     | 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.

# AUDITOR HIGH-CAPACITY TEST STANDS



AHCTS-5000

## AHCTS TEST STAND FOR ROTATING TOOLS

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

| MODEL      | DESCRIPTION                         |
|------------|-------------------------------------|
| AHCTS-0500 | 3/4" Square Drive w/rundown fixture |
| AHCTS-2500 | 1.5" Square Drive w/rundown fixture |
| AHCTS-5000 | 1.5" Square Drive w/rundown fixture |
| AHCTS-7500 | 1.5" Square Drive w/rundown fixture |

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

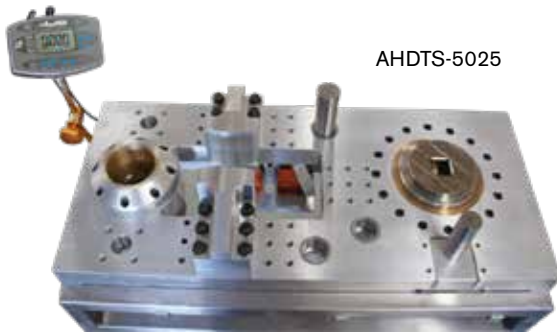


AHCTS-001K

## AHCTS-K STAND FOR HYDRAULIC TOOLS

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

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



AHDTS-5025

## AHDTS DUAL TEST STAND FOR ROTATING AND HYDRAULIC TOOLS

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

| MODEL      | DESCRIPTION  |
|------------|--|
| AHDTS-5025 | 1.5" Sq Dr dual station w/rundown fixture and reaction devices |

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

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

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

Optional Pelican Case shown (ordered separately)



25503

# AUDITOR HIGH-CAPACITY TEST STANDS

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

| Base Model Number           | Display   | Legs  | Base Size   | Rundown Fixture Capacity (ft-lb)  | Reaction Post   | Casters             | Articulated Arm and Mount | Digital Module                              |
|-----------------------------|---|---|---|---|---|---------------------|---------------------------|---|
| AHCTS-xxxx                  | 1 = ATDA<br>2 = No Embedded Display<br>3 = ATDA-DC<br>4 = ATDA-8000 Digital (7")<br>5 = ATDA-8000-10 Digital<br>6 = Standard Embedded Display<br><br>(1, 3, 4, 5 include articulated arm) | 1 = 6"<br>2 = No legs (Standard)<br>3 = 18"<br>4 = Custom | 0 = 8 x 8"<br>1 = 12 x 12"<br>3 = 14 x 19" (Standard)<br>4 = 18 x 24"<br>5 = 18 x 36"<br>6 = NA | 1 = 500<br>2 = No<br>3 = 1,000<br>4 = 2,500<br>5 = 5,000<br>6 = 7,500<br>7 = 1.5" Kit<br>Max. capacity 7,500 Ft-Lb<br>8 = 2.5" Kit<br>Max. capacity 7,500 Ft-Lb | 1 = Single 6" Post and Paddles<br>2 = No<br>3 = Multiple Posts 6"<br>4 = Paddles<br>5 = Custom<br>6 = Single 9" Post and Paddles<br>7 = Multiple Posts 9" | 1 = Yes<br>2 = No   | 1 = Yes<br>2 = No         | 1 = Yes (for Tablet or PC direct)<br>2 = No |
| Model Number<br>Digits 1-10 | Model #<br>Digit 11   | Model #<br>Digit 12                                       | Model #<br>Digit 13   | Model #<br>Digit 14   | Model #<br>Digit 15   | Model #<br>Digit 16 | Model #<br>Digit 17       | Model #<br>Digit 18                         |

### Auditor High Capacity Test Stand for Rotary Tools

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

### Auditor High Capacity Test Stand for Hydraulic Tools

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

# AUDITOR HIGH-CAPACITY TEST STANDS

## AIMTS TEST STAND FOR IMPACT TOOLS

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



**AIMTS-0500**  
Test stand for small impact tools



**AIMTS-2000**  
Test stand for large impact tools

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

Refer to Configuration Options below for required ordering options.

### AIMTS Series High Capacity Impact Test Stand Configuration Options

| Base Model #                         | Display  | Legs   | Base Size                | Rundown Fixture Capacity (ft-lb)*                     |  | Options   | Digital Module                                 |
|--------------------------------------|--|--|--------------------------|---|--|---|--|
| AIMTS-xxxx                           | 1 = ATDA<br>2 = No Embedded Display<br>3 = ATDA-DC<br>4 = ATDA-8000 Digital (7")<br>5 = ATDA-8000-10 Digital | 1 = 6"<br>2 = No legs<br>(Standard)<br>3 = 18"<br>4 = Custom | 6 = Bench Stand          | 1 = 500<br>2 = No<br>3 = 2,000<br>4 = 50<br>5 = 5,000 | 6 = 10,000<br>7 = 20,000<br>8 = 250<br>9 = 2,500 | Not available for AIMTS test stands. Enter 222 for model # digits 15-17 | 1 = Yes<br>(for Tablet or PC direct)<br>2 = No |
| Model Number<br>Digits 1-10          | Model Number<br>Digit 11   | Model Number<br>Digit 12                                     | Model Number<br>Digit 13 | Model Number<br>Digit 14                              |  | Model Number<br>Digits 15-17  | Model Number<br>Digit 18                       |
| AIMTS-0050<br>68 Nm / 50 ft-lb       |  | 2  | 6                        |   |  | 222   |  |
| AIMTS-0250<br>340 Nm / 250 ft-lb     |  | 2  | 6                        |   |  | 222   |  |
| AIMTS-0500<br>680 Nm / 500 ft-lb     |  | 2  | 6                        |   |  | 222   |  |
| AIMTS-2000<br>2,720 Nm / 2,000 ft-lb |  | 2  | 6                        |   |  | 222   |  |
| AIMTS-2500<br>3,390 Nm / 2,500 ft-lb |  | 2  | 6                        |   |  | 222   |  |
| AIMTS-5000<br>6,780 Nm / 5,000 ft-lb |  | 2  | 6                        |   |  | 222   |  |

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

# AUDITOR HIGH-CAPACITY TEST STANDS



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

## AHBTS TEST STAND WITH BRAKING SYSTEM FOR ROTATING TOOLS

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

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






Refer to Configuration Options below for required ordering options.

### AHBTS Series High Capacity Test Stand with Brake System Configuration Options

| Base Model Number                    | Display   | Legs  | Base Size   | Rundown Fixture Capacity (ft-lb) | Reaction Post   | Casters           | Articulated Arm and Mount | Digital Module                                     |
|--------------------------------------|---|---|---|----------------------------------|---|-------------------|---------------------------|--|
| AHBTS-xxxx                           | 4 = ATDA-8000 Digital (7")<br>5 = ATDA-8000-10 Digital<br>(Requires Display Controller) | 1 = 6"<br>2 = No legs (Standard)<br>3 = 18"<br>4 = Custom | 0 = 8 x 8"<br>1 = 12 x 12"<br>3 = 14 x 19" (Standard)<br>4 = 18 x 24"<br>5 = 18 x 36"<br>6 = NA | 2 = No                           | 1 = Single Post<br>2 = No<br>3 = Multiple Posts 6"<br>5 = Custom<br>6 = Single Post 9"<br>7 = Multiple Posts 9" | 1 = Yes<br>2 = No | 1 = Yes<br>2 = No         | 1 = Yes<br>2 = No<br><br>(For Tablet or PC Direct) |
| Model # Digits 1-10                  | Model # Digit 11  | Model # Digit 12  | Model # Digit 13  | Model # Digit 14                 | Model # Digit 15  | Model # Digit 16  | Model # Digit 17          | Model # Digit 18                                   |
| AHBTS-2500<br>3,400 Nm / 2,500 ft-lb |   |   |   | 2                                |   |                   |                           |  |
| AHBTS-5000<br>6,800 Nm / 5,000 ft-lb |   |   |   | 2                                |   |                   |                           |  |

# AUDITOR TORQUE WRENCHES

## TORQUE MEASUREMENT: TORQUE WRENCH

| Features and Benefits   |  |         |                             |  |    |
|---|---|--|--|--|---|
|   | ADW   | ADW-DC   | APTW   | ATW  | MOMENT ALPHA  |
| <ul style="list-style-type: none"> <li>Multiple Options from Simple to Sophisticated</li> <li>Similar Interface with other Auditor Products</li> <li>Durable</li> </ul> | * Auditor Digital Wrench  | * Auditor Digital Wrench with Data Collection  | Auditor Preset Torque Wrench   | Auditor Torque Wrench  | Digital Wrench with Torque & Angle  |
| Torque Range  | 10 - 500 Nm<br>7 - 370 ft-lb  | 10 - 500 Nm<br>7 - 370 ft-lb   | 5 - 340 Nm<br>4 - 250 ft-lb  | 5 - 200 Nm<br>4 - 148 ft-lb  | Screwdriver: 0.5 - 5 Nm<br>0.4 - 3.7 ft-lb<br>Wrench: 4 - 1,000 Nm<br>3.0 - 738 ft-lb<br>Click: 5 - 340 Nm<br>3.7 - 251 ft-lb |
|   | Digital wrench with multiple head options for line side testing/auditing          | Data-collecting digital wrench with multiple head options for line side testing/auditing | Interchangeable heads. Preset uses proprietary adjustment tool to guard against unauthorized setting changes | Transducer on a stick. Communicates with data collecting testers and analyzers     | Ensure accuracy in quality QR production applications. Wifi/Bluetooth delivery  |
| Bi-Directional accuracy of +/- X of indicated reading within the top 90% of the tester's capacity   | 1%  | 1%   | 3%   | 0.50%  | ±4%   |
| Open Protocol   |   |  |  |  | X   |
| Mechanical Click Data Collection  |   |  |  |  | X   |
| Software Included   | X   | X  |  |  | X   |

## USED IN CONJUNCTION WITH

|                        |  |  |  |   |  |
|------------------------|--|--|--|---|--|
| ATDA(DC) Data Analyzer |  |  |  | X |  |
| AUET(DC) Tester        |  |  |  | X |  |
| AUET/MTM(DC) Tester    |  |  |  | X |  |

## TORQUE WRENCH LOADERS



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

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

# AUDITOR DIGITAL WRENCH SERIES



ADW-0010K111312222



ADW-1400F125312222

## ADW DATA COLLECTING TORQUE WRENCH

- Large memory capacity
- Every torque value has associated trace file
- “Pick a Point” and “Move On” feature
- Barcode scanner
- Alpha Numeric screen for entering text
- Field replaceable batteries
- Docking station connection
- Serial connection
- Battery charger connection
- Ergonomic handle
- Switch between measure and data collection modes at any time
- Multiple files and route capability
- Data memory and simple statistics “On Board”
- Complete statistical analysis, data archiving and exporting in Audit Manager software
- Five models standard ranges 10 - 500 Nm full scale
- Torsion transducer – not length dependent
- Transducer is replaceable
- 1,400 Nm model uses different handle design

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

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

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

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

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

# AUDITOR DIGITAL WRENCH SERIES

## ADW Series Digital Torque Wrenches Configuration Options

| Base Model Number  | Style   | Data Collector    | Bar Code and Docking Station         | Square Drive Size   | Type of Transducer                                  | Engineering Unit                 | Future Options  |
|--------------------|---|-------------------|--------------------------------------|---|---|----------------------------------|---|
| ADW-xxxx           | K = Katana<br>D = Katana with Dovetail Transducer<br>F = Straight Stick | 1 = Yes<br>2 = No | 1 = Yes<br>2 = No (Serial Port Only) | 1 = 1/4"<br>2 = 3/8"<br>3 = 1/2"<br>4 = 3/4"<br>5 = 1"<br>6 = N/A | 1 = Intellect<br>2 = Industrial Standard<br>3 = N/A | 1 = Nm<br>2 = Ft-lb<br>3 = In-lb | Not yet available.<br><br>Enter 2222 for model # digits 15-18 |
| Model # Digits 1-8 | Model # Digit 9   | Model # Digit 10  | Model # Digit 11                     | Model # Digit 12  | Model # Digit 13                                    | Model # Digit 14                 | Model # Digits 15-18  |

### Non Data-Collecting (Sequential Memory)

|                                      |        |   |   |        |   |   |      |
|--------------------------------------|--------|---|---|--------|---|---|------|
| ADW-0010K2<br>10 Nm / 7.4 ft-lb      | K or D | 2 | 2 | 1 or 2 | 3 | 1 | 2222 |
| ADW-0075K2<br>75 Nm / 55 ft-lb       | K or D | 2 | 2 | 2      | 3 | 1 | 2222 |
| ADW-0180K2<br>180 Nm / 130 ft-lb     | K or D | 2 | 2 | 3      | 3 | 1 | 2222 |
| ADW-0270K2<br>270 Nm / 198 ft-lb     | K or D | 2 | 2 | 3      | 3 | 1 | 2222 |
| ADW-0500K2<br>500 Nm / 369 ft-lb     | K or D | 2 | 2 | 4      | 3 | 1 | 2222 |
| ADW-1000K2<br>1,000 Nm / 738 ft-lb   | F      | 2 | 2 | 4 or 5 | 3 | 1 | 2222 |
| ADW-1200K2<br>1,200 Nm / 885 ft-lb   | F      | 2 | 2 | 5      | 3 | 1 | 2222 |
| ADW-1000K2<br>1,400 Nm / 1,033 ft-lb | F      | 2 | 2 | 5      | 3 | 1 | 2222 |
| ADW-1200K2<br>2,000 Nm / 1,475 ft-lb | F      | 2 | 2 | 5      | 3 | 1 | 2222 |

### Data Collecting (File and Route Capability)

|                                      |   |   |  |        |   |   |      |
|--------------------------------------|---|---|--|--------|---|---|------|
| ADW-0010K1<br>10 Nm / 7.4 ft-lb      |   | 1 |  | 1 or 2 | 3 | 1 | 2222 |
| ADW-0075K1<br>75 Nm / 55 ft-lb       |   | 1 |  | 2      | 3 | 1 | 2222 |
| ADW-0180K1<br>180 Nm / 130 ft-lb     |   | 1 |  | 3      | 3 | 1 | 2222 |
| ADW-0270K1<br>270 Nm / 198 ft-lb     |   | 1 |  | 3      | 3 | 1 | 2222 |
| ADW-0500K1<br>500 Nm / 369 ft-lb     |   | 1 |  | 4      | 3 | 1 | 2222 |
| ADW-1000K2<br>1,000 Nm / 738 ft-lb   | F |   |  | 4 or 5 | 3 | 1 | 2222 |
| ADW-1200K2<br>1,200 Nm / 885 ft-lb   | F |   |  | 5      | 3 | 1 | 2222 |
| ADW-1000K2<br>1,400 Nm / 1,033 ft-lb | F |   |  | 5      | 3 | 1 | 2222 |
| ADW-1200K2<br>2,000 Nm / 1,475 ft-lb | F |   |  | 5      | 3 | 1 | 2222 |

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



# AUDITOR ELECTRONIC TORQUE WRENCHES

ALLOW PRECISE TIGHTENING AND AUDITING OF YOUR ASSEMBLY APPLICATIONS

## “TRANSDUCERS ON A STICK”

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



| MODEL     | TORQUE RANGE |             | SQUARE DRIVE |
|-----------|--------------|-------------|--------------|
|           | NM           | FT-LB       | IN           |
| ATW-0100F | 14 - 136     | 10 - 100    | 3/8          |
| ATW-0200F | 27 - 272     | 20 - 200    | 1/2          |
| ATW-0500F | 68 - 680     | 50 - 500    | 3/4          |
| ATW-1000F | 136 - 1,360  | 100 - 1,000 | 1            |

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



# AUDITOR PRESET TORQUE WRENCHES

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



## FEATURES AND BENEFITS



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






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


## TORQUE WRENCH INSERTS


| ADAPTERS   | DESCRIPTION           |
|--|-----------------------|
|  APTH-12ADP | 9 x 12 M to 14 x 18 F |
|  APTH-14ADP | 14 x 18 M to 9 x 12 F |

| RING END INSERTS  | DESCRIPTION           |
|---|-----------------------|
|  APTH-12RE50 | 1/2" Ring End, 12 mm  |
|  APTH-14RE32 | 32 mm Ring End, 14 mm |

| SQUARE DRIVE INSERTS  | DESCRIPTION  |
|---|--------------|
| 9 x 12  |              |
|  APTH-12SD25 | 1/4" Sq. Dr. |
| APTH-12SD38   | 3/8" Sq. Dr. |
| APTH-12SD50   | 1/2" Sq. Dr. |
| 14 x 18   |              |
|  APTH-14SD50 | 1/2" Sq. Dr. |

| BLANK END INSERTS  | DESCRIPTION |
|--|-------------|
|  APTH-12BLANK | 12 mm       |
| APTH-14BLANK   | 14 mm       |

| RATCHET HEADS   | DESCRIPTION  |
|---|--------------|
| 9 x 12  |              |
|  APTH-12RT25 | 1/4" Sq. Dr. |
| APTH-12RT38   | 3/8" Sq. Dr. |
| APTH-12RT50   | 1/2" Sq. Dr. |
| 14 x 18   |              |
|  APTH-14RT50 | 1/2" Sq. Dr. |
| APTH-14RT34   | 3/4" Sq. Dr. |

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

# MOMENT ALPHA DIGITAL TORQUE WRENCH

## ULTIMATE FLEXIBILITY

### ENSURE ACCURACY IN QUALITY OR PRODUCTION APPLICATIONS

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

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



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

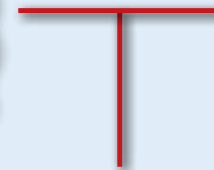
#### FEATURES

- Torque and angle measurement
- Modular system with automatic detection of accessories
- Bluetooth communication between wrench and controller
- Now available with Open Protocol
- One wrench/tablet analyzer to perform audits in full torque range from 0.5 – 1,000 Nm (with optional accessories)
  - Screwdriver mode from 0.5 – 5 Nm
  - Flexion mode (wrench) from 4 – 1,000 Nm
- Works in both clockwise and counter-clockwise operation
- Click wrench option provides tactile and audible feedback, as well as double hit and overshoot detection
- Uses standard drive adapters
- Data collection with Data storage of 50,000 readings and 1,000 traces
- Rechargeable battery pack for wrench handle

- Open Protocol
- Mechanical Click Extensions



Portable Controller



Bench-Mount Controller  
AC Power

#### Extensions



# MOMENT ALPHA DIGITAL TORQUE WRENCH

## WRENCH HANDLE



| WRENCH HANDLE | TORQUE RANGE  | LENGTH         | WEIGHT             | TORQUE TRANSDUCER ACCURACY | TIGHTENING ACCURACY | ANGLE TRANSDUCER ACCURACY |
|---------------|---|----------------|--------------------|----------------------------|---------------------|---------------------------|
| CPSKV00       | Screwdriver Mode: 0.5 - 5 Nm<br>Wrench Mode: 4 - 40 Nm (requires CPSJP81 adapter)<br>4 - 1,000 Nm (with appropriate extension*) | 7.9"<br>200 mm | 0.82 lb<br>0.37 kg | ISO 6789 < 1%              | < ±4%               | ±1%                       |

\* Wrench handle supplied with one battery. Specific extensions for specific torques available separately. Contact an AIMCO Customer Service Associate, 1-503-254-6600 or toll free 1-800-852-1368.

## CONTROLLERS



Portable Controller



Bench-Mount Controller  
AC Power

### FEATURES

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

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

# MOMENT ALPHA DIGITAL TORQUE WRENCH

## CHOOSE YOUR SYSTEM

### 1) Start with the Basics

All Moment Alpha systems start with a basic kit.

#### CPSKV01 Basic Kit

| MODEL   | DESCRIPTION  |                      |                           |
|---------|--|----------------------|---------------------------|
| CPSKV00 | Wrench Handle  |                      |                           |
| CPSJP75 | Battery Unit for Handle (includes 3 rechargeable AA batteries) |                      |                           |
| CPSJP73 | Battery Charger  |                      |                           |
| CPSJP81 | Adapter 4 - 40 Nm  | Length: 3.5" / 89 mm | Weight: 0.03 lb / 0.01 kg |



### 2) Choose Your Controller and Software

Either the portable or bench-mount controller type can be selected for either the Production or Quality systems. For software options, contact an AIMCO Customer Service Associate, 1-503-254-6600, or toll free 1-800-852-1368.

#### BENCH-MOUNT CONTROLLER



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

#### PORTABLE CONTROLLER



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

### 3) Choose Your Extensions

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



CPSK93  
40 Nm Mini  
Adapter

CPSK90  
60 Nm Adapter

#### EXTENSIONS

| MODEL   | DESCRIPTION              | LENGTH            | END EFFECTOR CONNECTION | WEIGHT            |
|---------|--------------------------|-------------------|-------------------------|-------------------|
| CPSKS86 | Extension 20 - 100 Nm    | 5.71" / 145 mm    | 14 x 18*                | 0.06 lb / 0.03 kg |
| CPSKS81 | Extension 40 - 200 Nm    | 14.41" / 366 mm   | 14 x 18*                | 1.1 lb / 0.5 kg   |
| CPSKS85 | Extension 60 - 300 Nm    | 27.06" / 688 mm   | 14 x 18*                | 2.6 lb / 1.2 kg   |
| CPSKS87 | Extension 80 - 400 Nm    | 30.27" / 769 mm   | 14 x 18*                | 3.08 lb / 1.4 kg  |
| CPSKS82 | Extension 120 - 600 Nm   | 42.72" / 1,085 mm | 14 x 18*                | 5.07 lb / 2.3 kg  |
| CPSKS98 | Extension 200 - 1,000 Nm | 70.86" / 1,800 mm | 1"                      | 5.07 lb / 2.3 kg  |

#### CLICK EXTENSIONS

| MODEL   | DESCRIPTION           | LENGTH          | END EFFECTOR CONNECTION | WEIGHT           |
|---------|-----------------------|-----------------|-------------------------|------------------|
| CPSPH05 | Extension 5 - 25 Nm   | 6.85" / 174 mm  | 9 x 12*                 | 1.15 lb / 0.5 kg |
| CPSPH10 | Extension 10 - 50 Nm  | 9.21" / 234 mm  | 9 x 12*                 | 1.4 lb / 0.6 kg  |
| CPSPH20 | Extension 20 - 100 Nm | 12.09" / 307 mm | 9 x 12*                 | 1.65 lb / 0.7 kg |
| CPSPH30 | Extension 30 - 150 Nm | 15.59" / 396 mm | 9 x 12*                 | 1.85 lb / 0.8 kg |
| CPSPH40 | Extension 40 - 200 Nm | 17.83" / 453 mm | 14 x 18*                | 3.5 lb / 1.6 kg  |
| CPSPH60 | Extension 60 - 340 Nm | 21.30" / 541 mm | 14 x 18*                | 4.3 lb / 2.0 kg  |

#### END EFFECTOR ADAPTERS

| MODEL   | DESCRIPTION                        | LENGTH       | ADAPTS                   | WEIGHT |
|---------|------------------------------------|--------------|--------------------------|--------|
| CPSKS93 | Mini Adapter 4 - 40 Nm + Detection | 1.9" / 49 mm | Adapts 14 x 18 to 9 x 12 | -      |
| CPSKS90 | Adapter 6 - 60 Nm + Detection      | 3.8" / 96 mm | Adapts 14 x 18 to 9 x 12 | -      |

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

# ITVC TORQUE CART



AIMCO's iTVC Torque Cart is designed for "lineside" or "point of use" tool validation and calibration. Our torque carts allow testing of tools on repeatable joint simulators and "in process" use on production joints, allowing users to identify process capability. Multiple torque cart configurations are available with simple to sophisticated options:

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



## FEATURES AND BENEFITS

- For testing on repeatable joint simulators or actual production joints
- Mobile test carts can be configured for testing continuous and discontinuous drive tools, including DC electric, clutch, battery, impulse, and torque wrenches
- Each cart is customizable to meet testing needs from 1–1,400 Nm
- Hydraulic braking systems available as an option where linear control of a braking ramp is desired and/or to eliminate the need to reverse each rundown
- Data management software options are available to suit specific audit or asset-tracking needs
- Torque wrench loaders are configurable to suit wrench populations

Carts can be equipped to specific customer requirements. Ancillary test stands up to 50,000 ft-lb available. Contact an AIMCO Customer Service Associate for a quote or for more details, 1-503-254-6600, or toll free 1-800-852-1368.



|               | MODEL                 | DESCRIPTION                    | LOW TORQUE |       | HIGH TORQUE |       |
|---------------|-----------------------|--------------------------------|------------|-------|-------------|-------|
|               |                       |                                | NM         | FT-LB | NM          | FT-LB |
| UFT           | <b>Mobile-Powered</b> |                                |            |       |             |       |
|               | iTVC.A                | Torque Cart, UFT Mobile BASE#  |            |       |             |       |
|               | iTVC.A2XXXXXX         | NO JOINTS                      | 0          | 0     | 0           | 0     |
|               | iTVC.A2XBCXXX         | 2 UFTs                         | 15         | 11    | 190         | 140   |
|               | iTVC.A2XBCDXX         | 3 UFTs                         | 15         | 11    | 686         | 506   |
|               | iTVC.A2ABCXXX         | 4 UFTs                         | 1          | 0.7   | 686         | 506   |
|               | iTVC.A2ABCDEP         | 4 UFTs, 1 AJKR, Printer        | 1          | 0.7   | 1,400       | 1,033 |
|               | <b>Manual</b>         |                                |            |       |             |       |
|               | iTVC.A1XXXXXX         | Torque Cart, UFT Manual BASE#  |            |       |             |       |
|               | iTVC.A1XBCXXX         | 2 UFTs                         | 15         | 11    | 190         | 140   |
|               | iTVC.A1XBCDXX         | 3 UFTs                         | 15         | 11    | 686         | 506   |
|               | iTVC.A1ABCXXX         | 4 UFTs                         | 1          | 0.7   | 686         | 506   |
| iTVC.A1ABCXEX | 3 UFTs, 1 AJKR        | 1                              | 0.7        | 1,400 | 1,033       |       |
| iTVC.A1ABCDEP | 4 UFTs, 1 AJKR        | 1                              | 0.7        | 1,400 | 1,033       |       |
| AJKR          | <b>Mobile-Powered</b> |                                |            |       |             |       |
|               | iTVC.B2XXXXXX         | Torque Cart, AJKR Mobile BASE# |            |       |             |       |
|               | iTVC.B2XBCXX          | 2 JOINTS                       | 27         | 20    | 271         | 200   |
|               | iTVC.B2XBCEX          | 3 JOINTS                       | 27         | 20    | 1,400       | 1,033 |
|               | iTVC.B2ABCEP          | 4 JOINTS                       | 6          | 4.4   | 1,400       | 1,033 |
|               | <b>Manual</b>         |                                |            |       |             |       |
|               | iTVC.B1XXXXXX         | Torque Cart, AJKR Manual BASE# |            |       |             |       |
|               | iTVC.B1XBCXX          | 2 JOINTS                       | 27         | 20    | 271         | 200   |
| iTVC.B1XBCEX  | 3 JOINTS              | 27                             | 20         | 1,400 | 1,033       |       |
| iTVC.B1ABCEP  | 4 JOINTS              | 6                              | 4.4        | 1,400 | 1,033       |       |
| BASE          | <b>Mobile-Powered</b> |                                |            |       |             |       |
|               | iTVC.X2X              | CART, NO COMPUTER              | –          | –     | –           | –     |
|               | iTVC.X2A              | CART, W/COMPUTER               | –          | –     | –           | –     |
|               | <b>Manual</b>         |                                |            |       |             |       |
|               | iTVC.X1X              | CART, NO COMPUTER              | –          | –     | –           | –     |
|               | iTVC.X1A              | CART, W/COMPUTER               | –          | –     | –           | –     |

# TRANSDUCERS

## TORQUE MEASUREMENT: TRANSDUCERS




### Features and Benefits

Superior:

- Accuracy
- Compatibility
- Durability

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

### Used in Conjunction with Analyzer

|           | Rotary  | Stationary  |   |
|-----------|---|---|---|
|           |  |  |  |
|           | ARTIS   | ASTIS   | AISI - AISF*  |
|           | Auditor Rotary Transducer Industry Standard                                       | Auditor Stationary Transducer Industry Standard                                     | Auditor Industry Standard Stationary  |
| ATC       | X   |   |   |
| AUET      | X   |   |   |
| AUET/MTM  | X   | X   | X   |
| ATDA      | X   | X   | X   |
| ATDA-8000 |   |   | X   |

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

## AUDITOR ROTARY TRANSDUCERS

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



ARTIS Series

| MODEL               | DRIVE<br>IN | MAX TORQUE |             | WEIGHT<br>LB |
|---------------------|-------------|------------|-------------|--------------|
|                     |             | NM         | IN-LB/FT-LB |              |
| ARTIS-25H-2T(A)     | 1/4 Hex     | 2          | 18 in-lb    | 1.0          |
| ARTIS-25H-5T(A)     | 1/4 Hex     | 5          | 44 in-lb    | 1.0          |
| ARTIS-25H-10T(A)    | 1/4 Hex     | 10         | 88 in-lb    | 1.0          |
| ARTIS-25H-20T(A)    | 1/4 Hex     | 20         | 180 in-lb   | 1.0          |
| ARTIS-25S-10T(A)    | 1/4 Sq.     | 10         | 88 in-lb    | 1.0          |
| ARTIS-25S-20T(A)    | 1/4 Sq.     | 20         | 180 in-lb   | 1.0          |
| ARTIS-38S-25T(A)    | 3/8 Sq.     | 25         | 225 in-lb   | 1.2          |
| ARTIS-38S-75T(A)    | 3/8 Sq.     | 75         | 50 ft-lb    | 1.2          |
| ARTIS-50S-180T(A)   | 1/2 Sq.     | 180        | 130 ft-lb   | 1.5          |
| ARTIS-75S-250T(A)   | 3/4 Sq.     | 250        | 180 ft-lb   | 2.2          |
| ARTIS-75S-500T(A)   | 3/4 Sq.     | 500        | 370 ft-lb   | 2.2          |
| ARTIS-100S-750T(A)  | 1 Sq.       | 750        | 553 ft-lb   | 4.0          |
| ARTIS-100S-1400T(A) | 1 Sq.       | 1400       | 1,025 ft-lb | 4.0          |

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

# AUDITOR™

# TRANSDUCERS

## AUDITOR STATIONARY TRANSDUCERS

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



ASTIS

ASTIS industry standard transducers can be used with multiple analyzers.

| MODEL           | MAX TORQUE |             | DRIVE IN |
|-----------------|------------|-------------|----------|
|                 | NM         | IN-LB/FT-LB |          |
| ASTIS-25D-11    | 11         | 100 in-lb   | 1/4      |
| ASTIS-25D-28    | 28         | 250 in-lb   | 1/4      |
| ASTIS-38D-135   | 135        | 100 ft-lb   | 3/8      |
| ASTIS-50D-270   | 270        | 200 ft-lb   | 1/2      |
| ASTIS-75D-1000  | 1017       | 750 ft-lb   | 3/4      |
| ASTIS-100D-1700 | 1,695 Nm   | 1,250 ft-lb | 1        |



AISI

AISI / AISF Transducers connect to the AUET/MTM, ATDA, and ATDA-8000 analyzers and mount directly to a benchtop.

| MODEL*      | MAX TORQUE |             | WEIGHT |     | W X H X D    |                    | DRIVE IN |
|-------------|------------|-------------|--------|-----|--------------|--------------------|----------|
|             | NM         | IN-LB/FT-LB | KG     | LB  | MM           | IN                 |          |
| AISI-200025 | 2.8        | 25 in-lb    | 1.13   | 2.5 | 79 x 95 x 83 | 3.13 x 3.75 x 3.25 | 1/4      |
| AISI-200100 | 11.3       | 100 in-lb   | 1.13   | 2.5 | 79 x 95 x 83 | 3.13 x 3.75 x 3.25 | 1/4      |
| AISI-200500 | 56.5       | 500 in-lb   | 1.13   | 2.5 | 79 x 95 x 83 | 3.13 x 3.75 x 3.25 | 3/8      |
| AISF-200100 | 135.6      | 100 ft-lb   | 2.25   | 5   | 100 x 65     | 4 x 3              | 1/2      |
| AISF-200250 | 339        | 250 ft-lb   | 2.25   | 5   | 100 x 65     | 4 x 3              | 1/2      |
| AISF-201000 | 1,350      | 1,000 ft-lb | 2.8    | 6   | 100 x 65     | 4 x 3              | 1        |

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

### Auditor AISI / AISF Industry Standard Transducers Configuration Options

| Base Model #             | Angle                            | Capacity   | Configuration   | Expanded Range*                              | Digital                                      | Drive Size   | Wireless                          |
|--------------------------|----------------------------------|--|---|--|--|--|-----------------------------------|
| Model #<br>Digits 1-5    | 2 = No<br><br>Model #<br>Digit 6 | 00025 = 25 In-Lb / 25 Ft-Lb<br>00050 = 50 In-Lb / 50 Ft-Lb<br>00100 = 100 In-Lb / 100 Ft-Lb<br>00250 = 250 In-Lb / 250 Ft-Lb<br>00350 = 350 In-Lb / 350 Ft-Lb<br>00500 = 500 In-Lb / 500 Ft-Lb<br>00600 = 600 In-Lb / 600 Ft-Lb<br>00750 = 750 In-Lb / 750 Ft-Lb<br>01000 = 1,000 In-Lb / 1,000 Ft-Lb<br><br>Model # Digits 7-11 | 1 = Bench Stand<br>2 = Inline<br>3 = Loader (1000 Series Only)<br><br>Model #<br>Digit 12 | 1 = Yes<br>2 = No<br><br>Model #<br>Digit 13 | 1 = Yes<br>2 = No<br><br>Model #<br>Digit 14 | 1 = 1/4" Hex (up to 100 In-Lb / 8.3 Ft-Lb)<br>2 = 1/4" Sq. (up to 100 In-Lb / 8.3 Ft-Lb)<br>3 = 3/8" Sq. (150-500 In-Lb / 12.5-41.7 Ft-Lb)<br>4 = 1/2" Sq. (1,800-3,000 In-Lb / 150-250 Ft-Lb)<br>5 = 3/4" Sq. (3,000-12,000 In-Lb / 250-1,000 Ft-Lb)<br>6 = 1" Sq. (12,000-24,000 In-Lb / 1,000-2,000 Ft-Lb)<br>7 = 1-1/2" Sq. (24,000+ In-Lb / 2,000+ Ft-Lb)<br><br>Model # Digit 15 | 2 = No<br><br>Model #<br>Digit 16 |
| <b>Stationary</b>        |                                  |  |   |  |  |  |                                   |
| AISI- (in-lb capacities) | 2                                |  |   |  |  |  | 2                                 |
| AISF- (ft-lb capacities) | 2                                |  |   |  |  |  | 2                                 |

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

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



# RUNDOWN FIXTURES

## TORQUE MEASUREMENT: RUNDOWN FIXTURES

### Features and Benefits

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



ARDFA-XXXXHD  
ARDIA-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.

## AUDITOR RUNDOWN FIXTURES

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



### ARDIA Models

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

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

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

### ARDFA Models

| MODEL*                  | RECOMMENDED TORQUE RANGE |          | SQUARE DRIVE |
|-------------------------|--------------------------|----------|--------------|
|                         | NM                       | FT-LB    |              |
| ARDFA-100(HD)(HDE)(HDS) | 13.6 - 136               | 10 - 100 | 1/2"         |
| ARDFA-150(HD)(HDE)(HDS) | 20.4 - 204               | 15 - 150 | 1/2"         |
| ARDFA-250(HD)(HDE)(HDS) | 34 - 340                 | 25 - 250 | 1/2"         |
| ARDFA-500(HD)(HDE)(HDS) | 67.8 - 678               | 50 - 500 | 3/4"         |
| ARDFA-600(HD)(HDE)(HDS) | 81.6 - 816               | 60 - 600 | 3/4"         |
| ARDFA-750(HD)(HDE)(HDS) | 101.7 - 1,017            | 75 - 750 | 3/4"         |

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



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

# JOINT KITS / JOINT SIMULATORS

## JOINT KITS

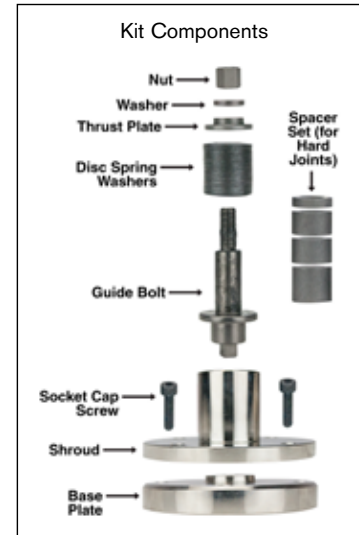
Joint kits are an essential accessory for accurate off-line testing of powered assembly tools.

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

| ROTARY KIT*   | MODEL     | DRIVE SIZE - IN |
|---|-----------|-----------------|
|  | AJKR-28   | 1/4             |
|   | AJKR-135  | 3/8             |
|   | AJKR-271  | 1/2             |
|   | AJKR-1017 | 3/4             |
|   | AJKR-1695 | 1               |
| STATIONARY KIT**  | MODEL     | DRIVE SIZE - IN |
|  | AJKS-25D  | 1/4             |
|   | AJKS-38D  | 3/8             |
|   | AJKS-50D  | 1/2             |
|   | AJKS-75D  | 3/4             |
|   | AJKS-100D | 1               |

\* AJKR for use with ARTIS external transducers.

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



## UFT SERIES HYDRAULIC MECHANICAL JOINT SIMULATORS



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

| MODEL            | BOLT SIZE | TORQUE RANGE |           | WEIGHT |      |
|------------------|-----------|--------------|-----------|--------|------|
|                  |           | NM           | FT-LB     | LB     | KG   |
| UFT-6            | M5        | 3.2 - 5.4    | 2 - 4     | 8      | 3.6  |
|                  | M6        | 5.4 - 14.7   | 4 - 11    |        |      |
| UFT-10 / UFT-S10 | M6        | 6.7 - 14.7   | 5 - 11    | 43     | 19.5 |
|                  | M8        | 14.7 - 31.4  | 11 - 23   |        |      |
|                  | M10       | 31.4 - 53.9  | 23 - 40   |        |      |
| UFT-16 / UFT-S16 | M12       | 53.9 - 88.2  | 40 - 65   | 88     | 40   |
|                  | M14       | 88.2 - 149   | 65 - 110  |        |      |
|                  | M16       | 149 - 190    | 110 - 140 |        |      |
| UFT-24*          | M18       | 190 - 294    | 140 - 217 | 108    | 49.1 |
|                  | M20       | 294 - 441    | 217 - 325 |        |      |
|                  | M24       | 441 - 686    | 325 - 506 |        |      |

\* UFT-24 medium hard/soft joints only

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

# TORQUE MEASUREMENT CABLES



## Torque Measurement Cables

| MODEL        | DESCRIPTION   | SERIAL CABLE | TRANSDUCER CABLE | ROTARY | ROTARY W/ANGLE | STATIONARY | IND STD | INTELLECT |
|--------------|---|--------------|------------------|--------|----------------|------------|---------|-----------|
| ICBL-USB*    | Connects between COM port of display to PC                                  | X            |                  |        |                |            |         |           |
| ATDBLIS*     | Connect to IS transducer w/ angle - 10 pin                                  |              | X                |        | X              |            | X       |           |
| ATDBRIS*     | Connect to IS transducer - 4 pin  |              | X                | X      |                | X          | X       |           |
| ICBL-10P*    | Intellect transducer cable. Identification chip in cable - 10 pin connector |              | X                |        |                | X          |         | X         |
| ICBL-4P*     | Intellect transducer cable. Identification chip in cable - 4 pin connector  |              | X                | X      |                | X          |         | X         |
| ICBL-5000L   | Connect from AUET/MTM & ATDA to Intellect Transducers, Analog AISI / AISF   |              | X                |        |                | X          |         | X         |
| ICBL-8000DIG | Connect from ATDA-8000 series analyzer to AISI / AIFI transducer            |              | X                |        |                |            |         |           |

\* Compatible with ATDA, AUET, ADW products

## Tester / Analyzer Compatibility

| MODEL        | ATC | AUET | AUET/MTM | AUET-DC | AUET/MTM-DC | ATDA | ATDA-DC | ATDA-8000-10-DCA (-TA)(-TP) | AISWT SWITCHBOX | ADW | ADW-DC | AIMTS TEST STAND |
|--------------|-----|------|----------|---------|-------------|------|---------|-----------------------------|-----------------|-----|--------|------------------|
| ICBL-USB     | X   | X    | X        | X       | X           | X    | X       |                             |                 | X   | X      |                  |
| ATDBLIS      |     | X    | X        | X       | X           | X    | X       |                             |                 |     |        |                  |
| ATDBRIS      |     | X    | X        | X       | X           | X    | X       |                             |                 |     |        |                  |
| ICBL-10P     |     | X    | X        | X       | X           | X    | X       |                             |                 |     |        |                  |
| ICBL-4P      |     | X    | X        | X       | X           | X    | X       |                             |                 |     |        |                  |
| ICBL-5000L   |     |      | X        |         | X           | X    | X       |                             | X               |     |        | X                |
| ICBL-8000DIG |     |      |          |         |             |      |         | X                           |                 |     |        |                  |

## Transducer Compatibility

| MODEL        | STATIONARY |                  |                   | ROTARY |
|--------------|------------|------------------|-------------------|--------|
|              | ASTIS      | ANALOG AISI/AISF | DIGITAL AISI/AISF | ARTIS  |
| ATDBLIS      |            |                  |                   | X      |
| ATDBRIS      | X          |                  |                   | X      |
| ICBL-10P     |            |                  |                   | X      |
| ICBL-4P      |            |                  |                   | X      |
| ICBL-5000L   |            | X                |                   |        |
| ICBL-8000DIG |            |                  | X                 |        |

# ACRADYNE HIGH TORQUE PNEUMATIC TOOLS

## FEATURES AND BENEFITS

AcraDyne's High Torque Pneumatic Bolting Tools offer a reliable and dependable solution for the installation and removal of heavy-duty fasteners. Appropriate for use in industries requiring high torque capability, accuracy, power, and safety.

- Modular design allows for ease of maintenance
- Interchangeable motors and gearing
- Same proven and reliable gearbox as the AcraDyne DC line
- One-hand reverse



AAP1B66600A



AAP1B76950A



AAP1B772000A



AAP1B885100A



| MODEL        | TORQUE |         | SPEED | WEIGHT | SQUARE DR. | AIR CONSUMPTION |
|--------------|--------|---------|-------|--------|------------|-----------------|
|              | (NM)   | (FT-LB) | (RPM) | (LB)   | (IN)       | (CFM)           |
| AAP1B66400A  | 400    | 300     | 57    | 9.75   | 3/4        | 22.9            |
| AAP1B66600A  | 600    | 450     | 39    | 9.75   | 3/4        | 22.9            |
| AAP1B66850A  | 850    | 625     | 27    | 9.75   | 3/4        | 22.9            |
| AAP1B76950A  | 950    | 700     | 31    | 10.4   | 3/4        | 26.3            |
| AAP1B771350A | 1,350  | 1,000   | 22    | 10.4   | 1          | 26.3            |
| AAP1B772000A | 2,000  | 1,475   | 14    | 12.7   | 1          | 26.3            |
| AAP1B772950A | 2,950  | 2,175   | 9     | 14.9   | 1          | 26.3            |
| AAP1B885100A | 5,100  | 3,775   | 8     | 23     | 1-1/2      | 31.5            |

## AIR PREPARATION UNITS

Many stacking filter/regulator combinations are available. See page 166 for options.



AFRL-4



AFRL-4HTA  
Standalone Unit

28178  
HT Air Tool/AFRL  
Carrying Kit



# ACRADYNE HIGH TORQUE HIGH-SPEED PNEUMATIC TOOLS

Our High-Torque High-Speed Pneumatic Bolting Tools offer a reliable and dependable solution for the installation and removal of heavy-duty fasteners with high torque capability, accuracy, power, and safety.

## FEATURES AND BENEFITS

- Dual motor design provides extremely fast rundown speed
- Improved torque to weight ratio
- Full swivel gearcase facilitates reaction bar positioning for ease of use and operator comfort
- Handle exhaust with low sound level
- Uses the same durable and reliable gearbox from our DC line of high torque tools
- Modular design allows for easy maintenance
- Two-piece handle construction enables flexible handle design
- Available in reversible and non-reversible models



AAP2B771400A



AAP2B772000A



AAP2B773000AR

| MODEL        | TORQUE |         | SPEED<br>(RPM) | WEIGHT |      | LENGTH |      | SQUARE DR.<br>(IN) |
|--------------|--------|---------|----------------|--------|------|--------|------|--------------------|
|              | (NM)   | (FT-LB) |                | (LB)   | (KG) | (IN)   | (MM) |                    |
| AAP2B76250A  | 250    | 185     | 660            | 10.5   | 4.8  | 10     | 255  | 3/4                |
| AAP2B76450A  | 450    | 330     | 335            | 10.5   | 4.8  | 10     | 255  | 3/4                |
| AAP2B76650A  | 650    | 480     | 223            | 10.5   | 4.8  | 10     | 255  | 3/4                |
| AAP2B76950A  | 950    | 700     | 153            | 10.5   | 4.8  | 10     | 255  | 3/4                |
| AAP2B771400A | 1,400  | 1,000   | 110            | 14.6   | 6.6  | 10     | 255  | 1                  |
| AAP2B772000A | 2,000  | 1,475   | 63             | 14.8   | 6.7  | 11.2   | 284  | 1                  |
| AAP2B773000A | 3,000  | 2,210   | 52             | 15.0   | 6.8  | 11.6   | 293  | 1                  |
| AAP2B785100A | 4,800  | 3,540   | 26.5           | 19.7   | 8.9  | 13.3   | 338  | 1.5                |

| REVERSIBLE<br>MODEL | TORQUE |         | SPEED<br>(RPM) | WEIGHT |      | LENGTH |      | SQUARE DR.<br>(IN) |
|---------------------|--------|---------|----------------|--------|------|--------|------|--------------------|
|                     | (NM)   | (FT-LB) |                | (LB)   | (KG) | (IN)   | (MM) |                    |
| AAP2B76250AR        | 250    | 185     | 660            | 12.3   | 5.6  | 12.5   | 317  | 3/4                |
| AAP2B76450AR        | 450    | 330     | 335            | 12.3   | 5.6  | 12.5   | 317  | 3/4                |
| AAP2B76650AR        | 650    | 480     | 223            | 12.3   | 5.6  | 12.5   | 317  | 3/4                |
| AAP2B76950AR        | 950    | 700     | 153            | 12.3   | 5.6  | 12.5   | 317  | 3/4                |
| AAP2B771400AR       | 1,400  | 1,000   | 110            | 16.4   | 7.4  | 12.6   | 319  | 1                  |
| AAP2B772000AR       | 2,000  | 1,475   | 63             | 16.6   | 7.5  | 13.6   | 346  | 1                  |
| AAP2B773000AR       | 3,000  | 2,210   | 52             | 16.8   | 7.6  | 14.0   | 356  | 1                  |
| AAP2B785100AR       | 4,800  | 3,540   | 26.5           | 21.5   | 9.7  | 15.8   | 400  | 1.5                |

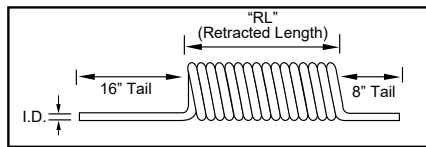
# ACRADYNE HT PNEUMATIC TOOL ACCESSORIES

## Polyurethane Hose for HT Tools



ASH-500C-15MSZ

- 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  $175^{\circ}\text{F}$
- Working pressure: 100 PSI



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.

## Single Air Hose Assemblies (Coiled)

| MODEL          | DESCRIPTION (O.D. x I.D. x LENGTH) | RETRACTED LENGTH | NPT FITTINGS |
|----------------|------------------------------------|------------------|--------------|
| ASH-500C-15MSZ | 3/4" x 1/2" x 15'                  | 13"              | 1/2"         |
| ASH-500C-25MSZ | 3/4" x 1/2" x 25'                  | 23"              | 1/2"         |



## Straight Air Hose (Sold Per Foot)

| MODEL    | DESCRIPTION |
|----------|-------------|
| 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 for HT Tools



28796  
1/2" ID

- 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 |
|------|-------|--------|------------------|--------|
| 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.

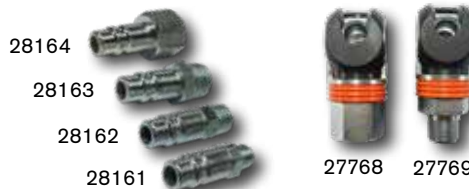
## REACTION BARS

Tool includes standard, spline attachment reaction device. See page 43 for part numbers. 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.



Reaction Bars

## Air Line Fittings



## Plugs

| MODEL | DESCRIPTION     |
|-------|-----------------|
| 28161 | 1/2" x 1/4" MPT |
| 28162 | 1/2" x 3/8" MPT |
| 28163 | 1/2" x 1/2" MPT |
| 28164 | 1/2" x 1/2" FPT |

## Quick-Change Couplers

| MODEL | DESCRIPTION |
|-------|-------------|
| 27768 | 1/2" FPT    |
| 27769 | 1/2" MPT    |



## Protective Coupler

| MODEL | DESCRIPTION |
|-------|-------------|
| 27771 | Vinyl       |



## Swivel Fitting

| MODEL  | CAPACITY                |
|--------|-------------------------|
| 500-SZ | 1/2" NPT Swivel Fitting |

# PULSE TOOLS: OVERVIEW



## HOW DOES A PULSE TOOL WORK?

The unique design of a pulse tool, combining motor power and hydraulics, leads to an assembly tool that produces smooth, controlled torque in a series of very fast (2 – 4 milliseconds) events and virtually no torque reaction.

- At free-speed, the entire pulse unit, a sealed cylinder containing hydraulic fluid and an output shaft, rotates at the same speed as the tool motor
- As resistance to rotation increases, the rotation of the output shaft slows, while the rotation of the

cylinder and the hydraulic fluid continues until they approach a seal point within the cylinder

- This seal point produces an increase in fluid pressure and transmits the energy from the rotational mass of the cylinder and fluid to the output shaft, producing torque on the fastener
- After a series of these cycles (pulses), fluid pressure builds to a point that overcomes the limit of a relief valve, allowing pressure to drop and torque to be controlled



## BENEFITS OF AIMCO PULSE TOOLS:

***Pulse tools offer advantages in all of the PERQ® elements – productivity, ergonomics, reliability and quality***

By partnering with AIMCO, manufacturers can apply the advantages of pulse tools in many ways to reduce production costs and increase profits.

- Productivity – Combining high operating speeds with one-handed operation, AIMCO pulse tools help manufacturers produce at the highest possible rates
- Ergonomics – Light weight, low vibration and no torque reaction make AIMCO pulse tools the safest assembly tools available for threaded assembly

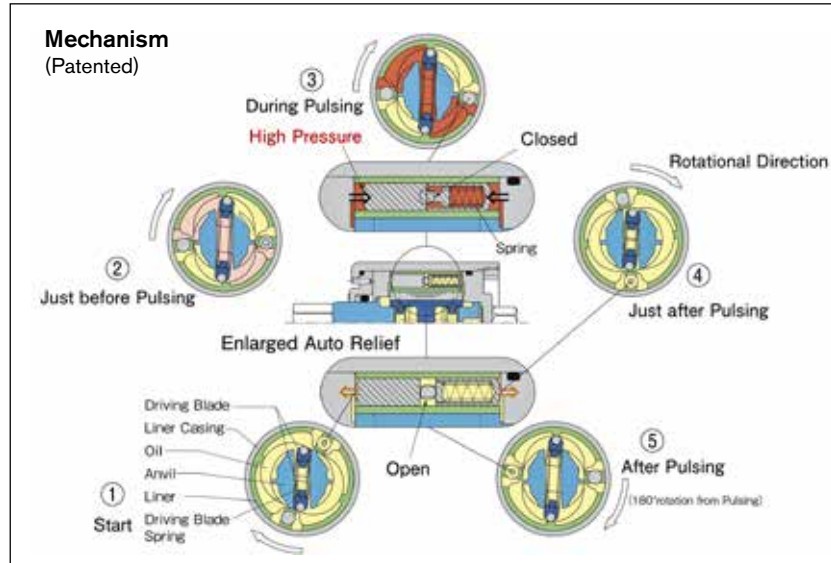
- Reliability – Advances in design and AIMCO's extensive maintenance and training programs add up to years of low cost service from any AIMCO pulse tool
- Quality – AIMCO pulse tools offer the most repeatable torque and clamp load results of any assembly tool, guaranteeing high product quality for manufacturers

# OMEGA PULSE TOOLS: UAT SERIES

## PATENTED AUTO RELIEF TECHNOLOGY:

UAT features patented Auto Relief Technology providing additional control to the application of torque during the pulsing events.

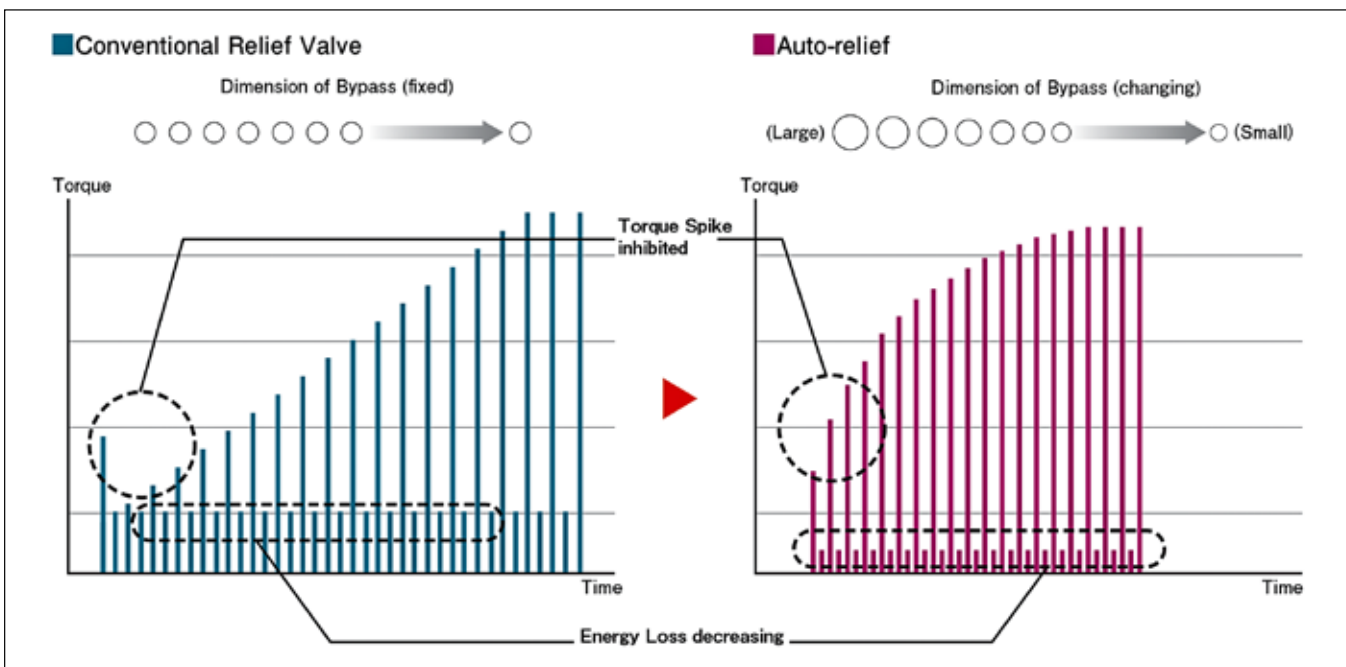
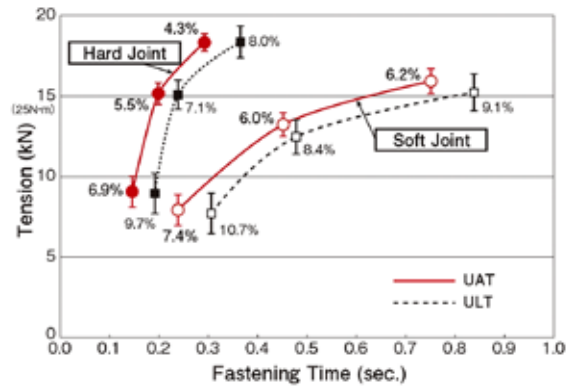
- Auto Relief eliminates initial spike of torque during a cycle. Highly effective on hard joint applications
- Auto Relief ramps up pressure within the pulse unit resulting in more pulses in less time providing a more efficient and even torque event



## A NEW LEAP FORWARD IN PRODUCTIVITY AND QUALITY:

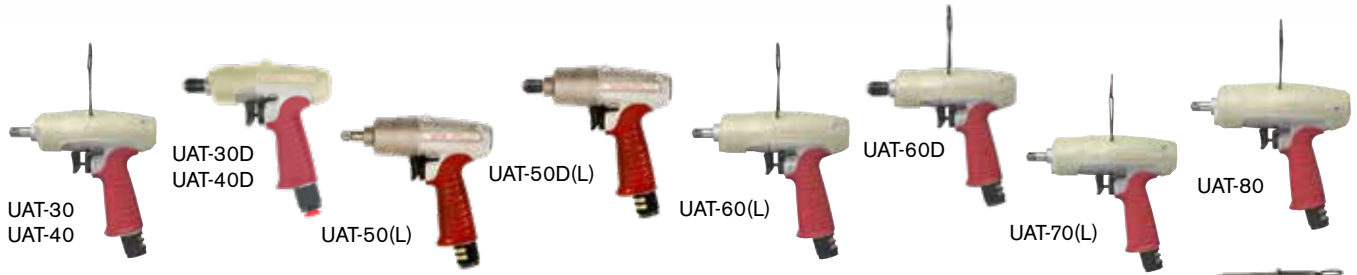
- Fastening accuracy and time can be improved by as much as 30% depending on application

### Fastening efficiency comparison (UAT vs ULT)





# OMEGA PULSE TOOLS: UAT SERIES



## Pistol Shut-Off

Recommended Air Pressure: 85 psi

| MODEL    | FREE SPEED<br>RPM | TORQUE RANGE<br>NM<br>FT-LB | WEIGHT<br>LB<br>KG | OVERALL LENGTH<br>IN<br>MM | DRIVE<br>IN | SOUND LEVEL<br>dB(A) | AIR USAGE<br>CFM |    |      |
|----------|-------------------|-----------------------------|--------------------|----------------------------|-------------|----------------------|------------------|----|------|
| UAT-30D  | 4,200             | 2.5 - 5.5                   | 1.9 - 4.1          | 1.9 0.9                    | 6.5         | 165                  | 1/4              | 76 | 10.5 |
| UAT-40   | 3,800             | 4.5 - 8                     | 3.3 - 5.9          | 2.0 0.9                    | 6.4         | 162                  | 3/8              | 75 | 8.8  |
| UAT-40D  | 3,800             | 4.5 - 8                     | 3.3 - 5.9          | 2.0 0.9                    | 6.5         | 165                  | 1/4              | 75 | 8.8  |
| UAT-50   | 4,600             | 7 - 15.5                    | 5.2 - 11.5         | 2.0 0.9                    | 6.4         | 162                  | 3/8              | 78 | 8.8  |
| UAT-50D  | 4,600             | 7 - 15.5                    | 5.2 - 11.5         | 2.0 0.9                    | 6.5         | 165                  | 1/4              | 78 | 8.8  |
| UAT-50L  | 4,000             | 7 - 15.5                    | 5.2 - 11.5         | 2.0 0.9                    | 6.4         | 162                  | 3/8              | 75 | 8.8  |
| UAT-50DL | 4,000             | 7 - 15.5                    | 5.2 - 11.5         | 2.0 0.9                    | 6.5         | 165                  | 1/4              | 75 | 8.8  |
| UAT-60   | 6,700             | 15 - 32                     | 11.1 - 23.7        | 2.1 1.0                    | 6.8         | 174                  | 3/8              | 80 | 12.3 |
| UAT-60D  | 6,700             | 15 - 32                     | 11.1 - 23.7        | 2.1 1.0                    | 7.0         | 177                  | 1/4              | 80 | 12.3 |
| UAT-60L  | 6,000             | 13 - 28                     | 9.6 - 20.7         | 2.1 1.0                    | 6.8         | 174                  | 3/8              | 77 | 8.8  |
| UAT-70   | 6,000             | 30 - 55                     | 22.2 - 40.7        | 2.3 1.1                    | 7.1         | 180                  | 3/8              | 80 | 14.0 |
| UAT-70L  | 5,300             | 25 - 48                     | 18.5 - 35.5        | 2.3 1.1                    | 7.1         | 180                  | 3/8              | 78 | 10.5 |
| UAT-80   | 5,600             | 45 - 63                     | 33.3 - 46.6        | 2.8 1.3                    | 7.3         | 186                  | 3/8              | 80 | 16.8 |
| UAT-90   | 5,700             | 50 - 85                     | 37.0 - 62.9        | 3.2 1.5                    | 7.6         | 192                  | 1/2              | 82 | 18.6 |
| UAT-90L  | 5,100             | 45 - 75                     | 33.3 - 55.5        | 3.2 1.5                    | 7.6         | 192                  | 1/2              | 79 | 15.8 |
| UAT-100  | 5,200             | 70 - 130                    | 51.8 - 96.2        | 3.7 1.7                    | 7.8         | 199                  | 1/2              | 82 | 19.3 |
| UAT-100L | 5,200             | 60 - 110                    | 44.4 - 81.4        | 3.7 1.7                    | 7.8         | 199                  | 1/2              | 79 | 16.8 |
| UAT-130  | 4,500             | 110 - 150                   | 81.4 - 111         | 5.1 2.3                    | 8.5         | 217                  | 1/2              | 82 | 24.6 |
| UAT-150  | 3,900             | 140 - 210                   | 103.6 - 155.4      | 6.4 2.9                    | 9.5         | 240                  | 3/4              | 82 | 24.6 |
| UAT-180  | 3,300             | 160 - 250                   | 118.4 - 185        | 8.1 3.7                    | 10.5        | 264                  | 3/4              | 84 | 24.6 |
| UAT-200  | 2,400             | 200 - 400                   | 148 - 296          | 12.8 5.8                   | 11.0        | 279                  | 3/4              | 85 | 35.2 |
| UAT-200L | 2,400             | 170 - 280                   | 125.8 - 207.2      | 12.8 5.8                   | 11.0        | 279                  | 3/4              | 85 | 24.6 |



Air Hose Size: 1/4" ID for UAT-30D to UAT-50, 3/8" ID for UAT-60 to UAT-100, 1/2" ID for UAT-100L to UAT-200L

Air Inlet Thread: 1/4" NPT for UAT-30D to UAT-150

Note Torque Ranges reflect residual B joint torque values

3/8" NPT for UAT-180 to UAT-200L

UAT Models containing "L" indicate models designed to run at 57 PSI air pressure.

UAT Models containing "D" indicate 1/4" quick change bit holder

Most models can be equipped with TM (Tightening Monitor) feature for use with qualifier systems. Order TM tools by adding "TM" to model number (for example, UAT-60 becomes UAT-60TM).



## Inline Shut-Off

Recommended Air Pressure: 85 psi

| MODEL     | FREE SPEED<br>RPM | TORQUE RANGE<br>NM<br>FT-LB | WEIGHT<br>LB<br>KG | OVERALL LENGTH<br>IN<br>MM | DRIVE<br>IN | SOUND LEVEL<br>dB(A) | AIR USAGE<br>CFM |    |      |
|-----------|-------------------|-----------------------------|--------------------|----------------------------|-------------|----------------------|------------------|----|------|
| UAT-30SD  | 3,400             | 2.5 - 5.5                   | 1.9 - 4.1          | 1.9 0.8                    | 8.7         | 222                  | 1/4              | 68 | 12.3 |
| UAT-40S   | 3,300             | 4.5 - 8.0                   | 3.3 - 5.9          | 1.9 0.9                    | 8.8         | 224                  | 3/8              | 70 | 7.0  |
| UAT-40SD  | 3,300             | 4.5 - 8.0                   | 3.3 - 5.9          | 1.9 0.9                    | 8.9         | 227                  | 1/4              | 70 | 7.0  |
| UAT-50S   | 3,900             | 7.0 - 15.5                  | 5.2 - 11.5         | 1.9 0.9                    | 8.8         | 224                  | 3/8              | 78 | 8.8  |
| UAT-50SD  | 3,900             | 7.0 - 15.5                  | 5.2 - 11.5         | 1.9 0.9                    | 8.9         | 227                  | 1/4              | 78 | 8.8  |
| UAT-50SL  | 3,800             | 7.0 - 15.5                  | 5.2 - 11.5         | 1.9 0.9                    | 8.8         | 224                  | 3/8              | 75 | 7.0  |
| UAT-50SDL | 3,800             | 7.0 - 15.5                  | 5.2 - 11.5         | 1.9 0.9                    | 8.9         | 227                  | 1/4              | 75 | 7.0  |
| UAT-60S   | 5,700             | 15.0 - 32.0                 | 11.1 - 23.7        | 1.9 0.9                    | 9.0         | 229                  | 3/8              | 80 | 10.5 |
| UAT-60SD  | 5,700             | 15.0 - 32.0                 | 11.1 - 23.7        | 1.9 0.9                    | 9.1         | 232                  | 1/4              | 80 | 10.5 |
| UAT-60SL  | 5,300             | 13.0 - 28.0                 | 9.6 - 20.7         | 1.9 0.9                    | 9.0         | 229                  | 3/8              | 77 | 8.8  |
| UAT-60SDL | 5,300             | 13.0 - 28.0                 | 9.6 - 20.7         | 1.9 0.9                    | 9.1         | 232                  | 1/4              | 77 | 8.8  |
| UAT-70S   | 4,700             | 30.0 - 50.0                 | 22.2 - 37.0        | 2.1 1.0                    | 9.4         | 239                  | 3/8              | 80 | 12.3 |
| UAT-70SL  | 4,400             | 25.0 - 45.0                 | 18.5 - 33.3        | 2.1 1.0                    | 9.4         | 239                  | 3/8              | 78 | 9.5  |

Air Hose Size: 1/4" ID for UAT-30 to UAT-50, 3/8" ID for UAT-60 to UAT-70


Air Inlet Thread: 1/4" NPT for UAT-30 to UAT-70

Note Torque Ranges reflect residual B joint torque values

UAT Models containing "D" indicate 1/4" quick change bit holder

UAT Models containing "L" indicate models designed to run at 57 PSI air pressure.

Most models can be equipped with TM (Tightening Monitor) feature for use with qualifier systems. Order TM tools by adding "TM" to model number (for example, UAT-60 becomes UAT-60TM).

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

# OMEGA PULSE TOOLS: UL SERIES

## OMEGA UL SERIES

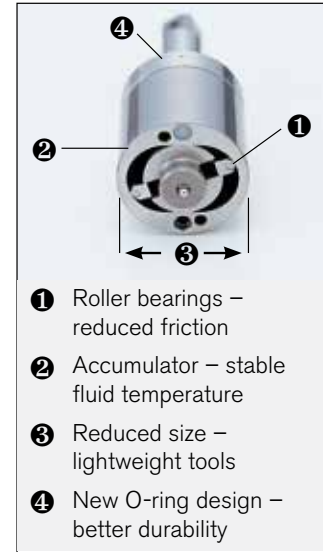
Whether the goal is improving productivity, ergonomics, reliability, or quality, the UL Series contains the technology to achieve success.

### FEATURES AND BENEFITS

- Models available from 6 – 230 Nm (4.4 – 170 Ft-lb)
- Available in Standard, Tightening Monitor, and Transducerized versions
- High power-to-weight ratio
- Reduced maintenance and extended service life
- Environmentally friendly design
- Accurate and repeatable



Omega Series Pulse Unit



### UL Series Pistol Non Shut-Off

Recommended Air Pressure: 85 psi

| MODEL  | FREE SPEED | TORQUE RANGE |               | WEIGHT |     | OVERALL LENGTH |     | DRIVE   | SOUND LEVEL | AIR USAGE |
|--------|------------|--------------|---------------|--------|-----|----------------|-----|---------|-------------|-----------|
|        | RPM        | NM           | FT-LB         | LB     | KG  | IN             | MM  |         |             |           |
| UL-30D | 5,700      | 6 - 12       | 4.4 - 8.9     | 1.5    | 0.7 | 5.4            | 137 | 1/4 hex | 75          | 7.0       |
| UL-30  | 5,700      | 6 - 12       | 4.4 - 8.9     | 1.5    | 0.7 | 5.2            | 133 | 3/8 sq. | 75          | 7.0       |
| UL-40D | 6,100      | 11 - 20      | 8.1 - 14.8    | 1.5    | 0.7 | 5.4            | 137 | 1/4 hex | 75          | 7.0       |
| UL-40  | 6,100      | 13 - 22      | 9.6 - 16.3    | 1.5    | 0.7 | 5.2            | 133 | 3/8 sq. | 75          | 7.0       |
| UL-50D | 6,400      | 18 - 28      | 13.3 - 20.7   | 1.7    | 0.8 | 5.8            | 146 | 1/4 hex | 78          | 10.5      |
| UL-50  | 6,400      | 22 - 35      | 16.3 - 25.9   | 1.7    | 0.8 | 5.5            | 140 | 3/8 sq. | 78          | 10.5      |
| UL-60D | 7,000      | 22 - 35      | 16.3 - 25.9   | 1.8    | 0.8 | 5.6            | 143 | 1/4 sq. | 80          | 14.0      |
| UL-60  | 7,000      | 32 - 50      | 23.7 - 37.0   | 1.8    | 0.8 | 5.5            | 140 | 3/8 sq. | 80          | 14.0      |
| UL-70  | 5,700      | 40 - 65      | 29.6 - 48.1   | 2.1    | 1.0 | 6.0            | 153 | 3/8 sq. | 80          | 15.8      |
| UL-80  | 5,900      | 45 - 70      | 33.3 - 50.0   | 2.5    | 1.1 | 6.4            | 162 | 3/8 sq. | 80          | 16.8      |
| UL-90  | 6,000      | 60 - 100     | 44.4 - 74.0   | 2.9    | 1.3 | 6.7            | 170 | 1/2 sq. | 82          | 18.6      |
| UL-100 | 5,400      | 80 - 130     | 59.2 - 96.2   | 3.7    | 1.7 | 7.0            | 177 | 1/2 sq. | 80          | 20.3      |
| UL-130 | 4,400      | 100 - 160    | 74.0 - 118.4  | 5.1    | 2.3 | 7.8            | 197 | 1/2 sq. | 83          | 22.7      |
| UL-150 | 3,800      | 150 - 230    | 109.9 - 169.6 | 6.6    | 3.0 | 8.4            | 213 | 3/4 sq. | 84          | 24.7      |




### UL Series Inline Non Shut-Off

Recommended Air Pressure: 85 psi

| MODEL   | FREE SPEED | TORQUE RANGE |             | WEIGHT |     | OVERALL LENGTH |     | DRIVE   | SOUND LEVEL | AIR USAGE |
|---------|------------|--------------|-------------|--------|-----|----------------|-----|---------|-------------|-----------|
|         | RPM        | NM           | FT-LB       | LB     | KG  | IN             | MM  |         |             |           |
| UL-30SD | 5,000      | 6 - 12       | 4.4 - 8.9   | 1.4    | 0.6 | 8.2            | 209 | 1/4 hex | 75          | 8.1       |
| UL-30S  | 5,000      | 6 - 12       | 4.4 - 8.9   | 1.4    | 0.6 | 8.1            | 205 | 3/8 sq. | 72          | 8.1       |
| UL-40SD | 5,000      | 9 - 20       | 6.7 - 14.8  | 1.4    | 0.6 | 8.2            | 209 | 1/4 hex | 75          | 8.1       |
| UL-40S  | 5,000      | 11 - 22      | 8.1 - 16.3  | 1.4    | 0.6 | 8.1            | 205 | 3/8 sq. | 72          | 8.1       |
| UL-50SD | 6,400      | 18 - 28      | 13.3 - 20.7 | 1.6    | 0.7 | 8.4            | 214 | 1/4 hex | 78          | 12.3      |
| UL-50S  | 6,400      | 22 - 35      | 16.3 - 25.9 | 1.6    | 0.7 | 8.2            | 208 | 3/8 sq. | 78          | 12.3      |
| UL-60SD | 6,700      | 22 - 35      | 16.3 - 25.9 | 1.7    | 0.8 | 8.3            | 212 | 1/4 hex | 80          | 15.8      |
| UL-60S  | 6,700      | 32 - 50      | 23.7 - 37.0 | 1.7    | 0.8 | 8.2            | 209 | 3/8 sq. | 80          | 15.8      |
| UL-70S  | 5,400      | 36 - 60      | 26.6 - 44.4 | 1.9    | 0.9 | 8.8            | 223 | 3/8 sq. | 84          | 14.0      |

Air Hose Size: 1/4 I.D. for UL-30 (D/SD) - UL-50 (D/SD) - 3/8" I.D. for UL-60 (D/SD) - UL-150 (D/SD) Air Inlet: N.P.T. 1/4  
All pulse tools ending in "D" include a 1/4" Hex quick-change bit holder.

NOTE: Torque ranges reflect residual B joint torque values

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

# OMEGA PULSE: ULT SERIES



ULT-150



ULT-180



ULT-40C  
ULT-50C



ULT-60C



ULT-70C



ULT-70CH

## ULT Series Pistol / Angle Shut-Off



| MODEL         | FREE SPEED | TORQUE RANGE |             | WEIGHT |      | OVERALL LENGTH |     | DRIVE        | SOUND LEVEL | AIR USAGE |
|---------------|------------|--------------|-------------|--------|------|----------------|-----|--------------|-------------|-----------|
|               | RPM        | NM           | FT-LB       | LB     | KG   | IN             | MM  | IN           | dB(A)       | CFM       |
| <b>Pistol</b> |            |              |             |        |      |                |     |              |             |           |
| ULT-150       | 3,700      | 140 - 210    | 104 - 155   | 6.4    | 2.9  | 9.5            | 240 | 3/4" Sq. Dr. | 82          | 24.7      |
| ULT-180       | 3,300      | 160 - 250    | 118 - 185   | 8.1    | 3.7  | 10.4           | 264 | 3/4" Sq. Dr. | 82          | 24.7      |
| <b>Angle</b>  |            |              |             |        |      |                |     |              |             |           |
| ULT-40C       | 3,500      | 4.5 - 7.5    | 3.3 - 5.6   | 2.9    | 1.30 | 9.8            | 250 | 3/8" Sq. Dr. | 70          | 7.0       |
| ULT-50C       | 4,500      | 7.0 - 15.5   | 5.2 - 11.5  | 3.0    | 1.35 | 9.8            | 250 | 3/8" Sq. Dr. | 78          | 8.6       |
| ULT-60C       | 5,200      | 13 - 28      | 9.6 - 20.7  | 3.2    | 1.45 | 10.3           | 261 | 3/8" Sq. Dr. | 80          | 10.5      |
| ULT-70C       | 4,400      | 20 - 35      | 14.8 - 25.9 | 3.6    | 1.65 | 10.8           | 275 | 3/8" Sq. Dr. | 82          | 12.3      |
| ULT-70CH      | 2,500      | 30 - 50      | 22.2 - 37.0 | 4.1    | 1.85 | 11.4           | 290 | 1/2" Sq. Dr. | 82          | 12.3      |

"L" following model number denotes Low Air Pressure type  
 "H" within model number denotes High Torque type

NOTE: Torque ranges reflect residual B joint torque values



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

# ACRA-PULSE SERIES



U-350D



UXR-2000



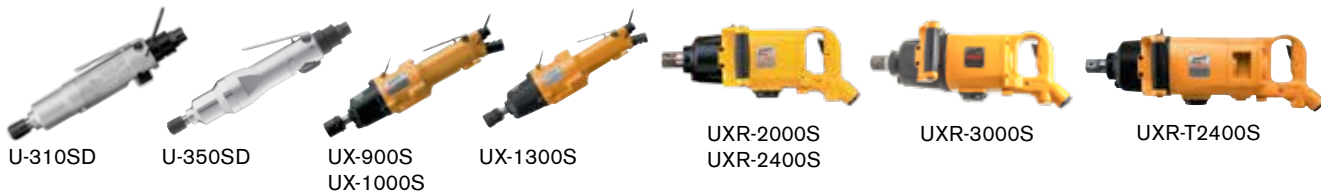
UX-ST800

## Acra-Pulse Pistol Tools

Recommended Air Pressure: 85 psi

| MODEL   | FREE SPEED RPM | TORQUE RANGE*<br>NM FT-LB   |           | OVERALL LENGTH<br>MM IN                         |      | WEIGHT<br>LB KG |     | FROM CENTER TO OUTSIDE<br>MM IN |     | DRIVE SIZE   | NOISE LEVEL dB(A) | AIR HOSE I.D. | AIR INLET N.P.T. | AIR USAGE CFM |
|---|----------------|---|-----------|---|------|-----------------|-----|---------------------------------|-----|--------------|-------------------|---------------|------------------|---------------|
| <b>Non Shut-Off, 1/4" Hex Dr.</b>                                 |                | 1/4" Quick Change Chuck Standard  |           | Air Hose Size: 1/4" I.D. Air Inlet: N.P.T. 1/4" |      |                 |     |                                 |     |              |                   |               |                  |               |
| U-350D  | 10,500         | 3.5 - 5.8   | 2.5 - 4.2 | 154   | 6.1  | 1.7             | 0.8 | 22.0                            | 0.9 | 1/4" Hex     | 74                | 1/4"          | 1/4"             | 5.3           |
| <b>Non Shut-Off, 3/4" Sq. Dr.</b>                                 |                | Torque Control in Right-Hand Rotation Standard Left-Hand Rotation also available for UXR-2000 |           | Air Hose Size: 1/2" I.D. Air Inlet: N.P.T. 3/8" |      |                 |     |                                 |     |              |                   |               |                  |               |
| UXR-2000  | 4,200          | 300 - 450   | 220 - 330 | 282   | 11.1 | 14.3            | 6.5 | 47.0                            | 1.8 | 3/4" Sq. Dr. | 85                | 1/2"          | 3/8"             | 31.5          |
| <b>Non Shut-Off, 3/8" Sq. Dr. Auto Reversing Stud Bolt Wrench</b> |                | Air Hose Size: 3/8" I.D. Air Inlet: N.P.T. 1/4"   |           |   |      |                 |     |                                 |     |              |                   |               |                  |               |
| UX-ST800  | 7,300          | 35 - 55   | 25 - 40   | 195   | 7.7  | 3.8             | 1.8 | 28.0                            | 1.1 | 3/8" Sq. Dr. | 75                | 3/8"          | 1/2"             | 10.5          |

\* NOTE: Torque range reflects residual B joint torque values



U-310SD

U-350SD

UX-900S  
UX-1000S

UX-1300S

UXR-2000S  
UXR-2400S

UXR-3000S

UXR-T2400S

## Acra-Pulse Inline Tools

Recommended Air Pressure: 85 psi

| MODEL                             | FREE SPEED RPM | TORQUE RANGE*<br>NM FT-LB   |           | OVERALL LENGTH<br>MM IN   |      | WEIGHT<br>LB KG |      | FROM CENTER TO OUTSIDE<br>MM IN |     | DRIVE SIZE   | NOISE LEVEL dB(A) | AIR HOSE I.D. | AIR INLET NPT | AIR USAGE CFM |
|-----------------------------------|----------------|---|-----------|---|------|-----------------|------|---------------------------------|-----|--------------|-------------------|---------------|---------------|---------------|
| <b>Non Shut-Off, 1/4" Hex Dr.</b> |                | 1/4" Quick Change Chuck Standard  |           | Air Hose Size: 1/4" I.D. Air Inlet: N.P.T. 1/4"                                       |      |                 |      |                                 |     |              |                   |               |               |               |
| U-310SD                           | 11,000         | 2.5 - 3.1   | 1.8 - 2.2 | 222   | 8.7  | 1.5             | 0.6  | 18.0                            | 0.7 | 1/4" Hex     | 74                | 1/4"          | 1/4"          | 5.3           |
| U-350SD                           | 10,500         | 3.5 - 5.8   | 2.5 - 4.2 | 238   | 9.4  | 1.5             | 0.7  | 22.0                            | 0.7 | 1/4" Hex     | 74                | 1/4"          | 1/4"          | 5.3           |
| <b>Non Shut-Off, 1/2" Sq. Dr.</b> |                | Air Hose Size: 3/8" I.D. Air Inlet: N.P.T. 1/4"                                       |           |   |      |                 |      |                                 |     |              |                   |               |               |               |
| UX-900S                           | 7,600          | 45 - 75   | 35 - 55   | 310   | 12.2 | 3.9             | 1.8  | 37.5                            | 1.1 | 1/2" Sq. Dr. | 75                | 3/8"          | 1/4"          | 14.9          |
| UX-1000S                          | 6,800          | 50 - 95   | 40 - 70   | 320   | 12.6 | 4.6             | 2.1  | 39.0                            | 1.1 | 1/2" Sq. Dr. | 75                | 3/8"          | 1/4"          | 17.9          |
| UX-1300S                          | 6,200          | 80 - 130  | 60 - 95   | 336   | 13.2 | 6.6             | 2.6  | 42.0                            | 1.3 | 1/2" Sq. Dr. | 77                | 3/8"          | 1/4"          | 19.4          |
| <b>Non Shut-Off, 3/4" Drive</b>   |                | TM = Models equipped with a tightening monitor feature for use with qualifier systems |           |   |      |                 |      |                                 |     |              |                   |               |               |               |
| UXR-2000S(TM)                     | 4,200          | 300 - 450   | 220 - 330 | 340   | 13.4 | 15.4            | 7.0  | 47.0                            | 1.8 | 3/4" Sq. Dr. | 85                | 1/2"          | 3/8"          | 31.6          |
| <b>Non Shut-Off, 1" Sq. Dr.</b>   |                | TM = Models equipped with a tightening monitor feature for use with qualifier systems |           |   |      |                 |      |                                 |     |              |                   |               |               |               |
| UXR-2400S(TM)                     | 4,000          | 400 - 650   | 290 - 470 | 385   | 15.2 | 23.7            | 11.0 | 55.0                            | 2.1 | 1" Sq. Dr.   | 85                | 1/2"          | 1/2"          | 35.2          |
| UXR-3000S(TM)                     | 4,400          | 500 - 850   | 360 - 630 | 455   | 17.9 | 29.3            | 13.3 | 62.0                            | 2.1 | 1" Sq. Dr.   | 85                | 1/2"          | 1/2"          | 37.1          |
| <b>Shut-Off, 1" Sq. Dr.</b>       |                | Inside Trigger Standard   |           | TM = Models equipped with a tightening monitor feature for use with qualifier systems |      |                 |      |                                 |     |              |                   |               |               |               |
| UXR-T2400S(TM)                    | 3,600          | 360 - 650   | 260 - 470 | 444   | 17.5 | 26.5            | 12.0 | 61.5                            | 2.4 | 1" Sq. Dr.   | 85                | 1/2"          | 1/2"          | 35.3          |

\* NOTE: Torque range reflects residual B joint torque values



UX-500C

UX-612C

UX-700C

UX-800C


UX-1000C

## Acra-Pulse Angle Tools

Recommended Air Pressure: 85 psi

| MODEL                             | FREE SPEED RPM | TORQUE RANGE*<br>NM FT-LB |             | WEIGHT<br>LB KG | OVERALL LENGTH<br>MM IN |     | DRIVE SIZE | NOISE LEVEL dB(A) | AIR HOSE I.D. | AIR INLET N.P.T. | AIR USAGE CFM |      |
|-----------------------------------|----------------|---------------------------|-------------|-----------------|-------------------------|-----|------------|-------------------|---------------|------------------|---------------|------|
| <b>Non Shut-Off, 3/8" Sq. Dr.</b> |                |                           |             |                 |                         |     |            |                   |               |                  |               |      |
| UX-500C                           | 9,300          | 13 - 20                   | 10.0 - 15.0 | 2.8             | 1.3                     | 270 | 10.6       | 3/8" Sq. Dr.      | 82            | 1/4"             | 1/4"          | 8.8  |
| UX-612C                           | 9,800          | 16 - 28                   | 12.0 - 20.0 | 3.0             | 1.4                     | 283 | 11.1       | 3/8" Sq. Dr.      | 85            | 3/8"             | 1/4"          | 11.2 |
| UX-700C                           | 9,500          | 20 - 36                   | 16.0 - 28.0 | 3.7             | 1.7                     | 273 | 10.8       | 3/8" Sq. Dr.      | 85            | 3/8"             | 1/4"          | 12.3 |
| UX-800C                           | 9,000          | 29 - 43                   | 20.0 - 31.0 | 4.3             | 1.9                     | 285 | 11.2       | 3/8" Sq. Dr.      | 85            | 3/8"             | 1/4"          | 14.1 |
| <b>Non Shut-Off, 1/2" Sq. Dr.</b> |                |                           |             |                 |                         |     |            |                   |               |                  |               |      |
| UX-1000C                          | 6,800          | 50 - 80                   | 40.0 - 58.0 | 6.8             | 3.1                     | 365 | 14.4       | 1/2" Sq. Dr.      | 90            | 3/8"             | 1/4"          | 17.9 |

\* NOTE: Torque ranges reflect residual B joint torque values

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

# UTM SERIES FASTENING COUNTER

## Flexible Poka-Yoke for Quality and Line Control

The UTM-1500 Fastening Counter helps you verify that your assembly procedures are being followed. Parameter setup is simple and can be programmed at the front panel or via a PC. The UTM-1500 provides audible and visual Accept/Reject indications on all rundowns, ensuring that all your fastening is secure.



### FEATURES AND BENEFITS

- For use with tools that have the TM feature installed, including AIMCO pulse tools, AIMCO angle nutrunners, AIMCO clutch screwdrivers, and all pistol or lever-start screwdrivers
- Automatically set up pressure values
- Communication and line control:
  - PLC communication inputs (5)/outputs (8)
  - Remote parameter switch selection
  - Variable relays for interfacing with process equipment
  - Optional network interfaces available
- Qualification of "good cycle"



### PROCESS VERIFICATION

- Four selectable parameters
- Cycle counting and batch counting
- Programmable timers for detection of double hits, cross-threads, or premature trigger release

### A COMPLETE TURNKEY SYSTEM INCLUDES:

- New or retrofitted TM tool
  - Retrofit most existing AIMCO tools for under \$200. Contact an AIMCO Customer Service Associate, 1-503-254-6600, or toll free 1-800-852-1368.
  - Order TM tools by adding "TM" to model number. (Example: UAT-70 becomes UAT-70TM)
- UTM-1500 Fastening Counter
- Digital Pressure Switch (878-845-1)
- 5 m Sensor Cable (910-831-0) or 10 m Sensor Cable (910-832-0)

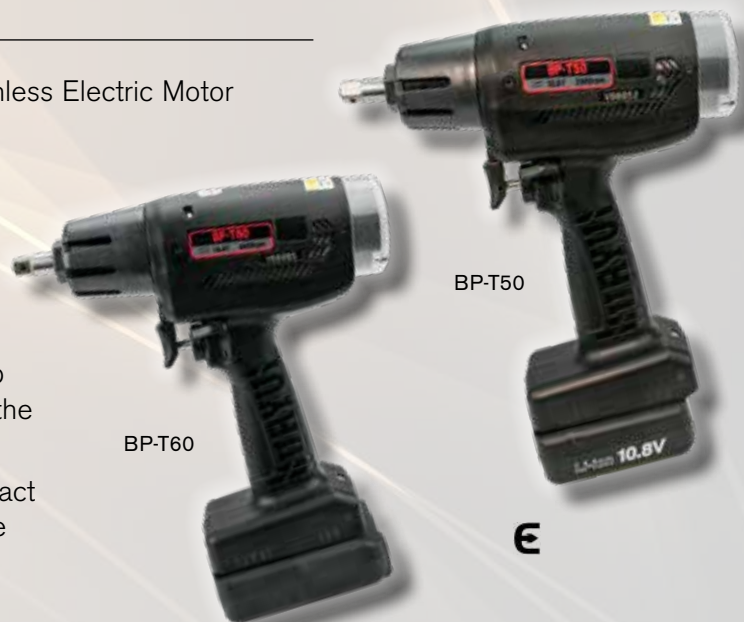
| MODEL     | VOLTAGE & FREQUENCY | OPERATIONAL AMBIENT TEMPERATURE | OPERATIONAL AMBIENT & HUMIDITY | DIMENSIONS                                     | WEIGHT |     |
|-----------|---------------------|---------------------------------|--------------------------------|--|--------|-----|
|           |                     |                                 |                                |  | LB     | KG  |
| UTM-1500A | 115 V / 50 Hz       | 0 - 50° C (non-freezing)        | 90% RH or less (no dew)        | 200 mm x 210 mm x 100 mm<br>7.9" x 8.3" x 3.9" | 4.5    | 2.0 |
| UTM-1500E | 230 V / 60 Hz       | 0 - 50° C (non-freezing)        | 90% RH or less (no dew)        | 200 mm x 210 mm x 100 mm<br>7.9" x 8.3" x 3.9" | 4.5    | 2.0 |

# BP-T PULSE SERIES CORDLESS TOOLS

**“Operator First” design means a lighter-weight, ergonomic pulse tool**

## FEATURES AND BENEFITS

- Direct Power Train and High-Efficiency Brushless Electric Motor deliver reduced noise and vibration
- Hydraulic Impulse Unit delivers reaction-free tightening
- Cooling fan improves heat management, increasing duty cycle up to 20% over the UDBP-TA series
- High-capacity Li-Ion battery pack provides up to 20% more fastener runs per charge than the UDBP-TA series
- The Ergonomic Handle coupled with a Compact Design provides an improved user experience



| MODEL*           | CAPACITY (NOMINAL BOLT SIZE) |          | TORQUE RANGE |          | FREE SPEED | OVERALL LENGTH |     | WEIGHT W/O SOCKET BIT W/ BATTERY |      | WEIGHT W/O SOCKET BIT W/OUT BATTERY |      | FROM CENTER TO OUTSIDE |     | SQ. DR OR HEX SIZE |         | SOUND LEVEL dB(A) | BATTERY VOLTAGE (CAPACITY) |
|------------------|------------------------------|----------|--------------|----------|------------|----------------|-----|----------------------------------|------|-------------------------------------|------|------------------------|-----|--------------------|---------|-------------------|----------------------------|
|                  | MM                           | IN       | NM           | FT-LB    |            | MM             | IN  | KG                               | LB   | KG                                  | LB   | MM                     | IN  | MM                 | IN      |                   |                            |
| BP-T40-(B)(KIT)  | 5                            | No. 10   | 4.5-8        | 3.3-5.9  | 3,300      | 197            | 7.8 | 1.4                              | 3.08 | 1.15                                | 2.53 | 27                     | 1.1 | 9.5 Hex            | 3/8 Sq. | 75                | 10.8V (2.0Ah)              |
| BP-T40D-(B)(KIT) | 5                            | No. 10   | 4.5-8        | 3.3-5.9  | 3,300      | 200            | 7.9 | 1.4                              | 3.08 | 1.15                                | 2.53 | 27                     | 1.1 | 6.35 Hex           | 1/4 Hex | 75                | 10.8V (2.0Ah)              |
| BP-T50-(B)(KIT)  | 6-8                          | 1/4-5/16 | 7-15         | 5.1-11.1 | 3,900      | 197            | 7.8 | 1.4                              | 3.08 | 1.15                                | 2.53 | 27                     | 1.1 | 9.5 Sq.            | 3/8 Sq. | 76                | 10.8V (2.0Ah)              |
| BP-T50D-(B)(KIT) | 6-8                          | 1/4-5/16 | 6.5-13       | 4.8-9.6  | 3,900      | 200            | 7.9 | 1.4                              | 3.08 | 1.15                                | 2.53 | 27                     | 1.1 | 6.35 Hex           | 1/4 Hex | 76                | 10.8V (2.0Ah)              |
| BP-T60-(B)(KIT)  | 8                            | 5/16     | 13-26        | 9.6-19.2 | 4,800      | 202            | 8.0 | 1.6                              | 3.52 | 1.25                                | 2.75 | 27                     | 1.1 | 9.5 Sq.            | 3/8 Sq. | 76                | 14.4V (2.0Ah)              |
| BP-T60D-(B)(KIT) | 8                            | 5/16     | 13-26        | 9.6-19.2 | 4,800      | 205            | 8.1 | 1.6                              | 3.52 | 1.25                                | 2.75 | 27                     | 1.1 | 6.35 Hex           | 1/4 Hex | 77                | 14.4V (2.0Ah)              |

\* Base models come with no battery. Batteries are available separately or in tool/kit 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.



10.8 V Battery:  
EYFB32



14.4 V Battery:  
EYFB41



Battery Charger: EY0L82B

## BATTERIES AND BATTERY CHARGER

| BATTERY MODEL # | DESCRIPTION                                      | VOLTAGE | TYPE   | CAPACITY |
|-----------------|--|---------|--------|----------|
| EYFB32          | Battery for BP-T40, BP-T40D, BP-T50, and BP-T50D | 10.8V   | Li-Ion | 2.0Ah    |
| EYFB41          | Battery for BP-T60 and BP-T60D                   | 14.4V   | Li-Ion | 2.0Ah    |

| CHARGER MODEL # | DESCRIPTION            | WEIGHT            | INPUT VOLTAGE | DIMENSIONS               | BATTERY CAPACITY |
|-----------------|------------------------|-------------------|---------------|--------------------------|------------------|
| EY0L82B         | 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      |

## BODY JACKET



**10C-840-1**  
for BP-T40/BP-T50 Series

**10E-840-1**  
for BP-T60 Series

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

# UBX-T SERIES CORDLESS PULSE TOOLS

## REVOLUTIONARY

*Quantum Leap Forward in Hydraulic Pulse Technology  
Mated to a Powerful Battery Tool*

**Innovative Elliptical Movement  
Design with larger blades  
and elimination of springs  
*Lengthens Service Intervals*  
by as much as **400%** with  
a high degree of accuracy  
and a reaction-free operating  
experience**



UBX-T70 Battery Oil Pulse Tool

### *Easier, Less Frequent Maintenance*

- Pulse unit contains fewer parts, making it easier to service
- Less precise fluid fill requirements do not compromise tool performance

### *Improved Operator Comfort*

- Short duration, non-mechanical pulsing delivers torque to the fastener with near reaction-free feel
- Lighter tool weight
- Minimal vibration

### *Increased Quality and Performance*

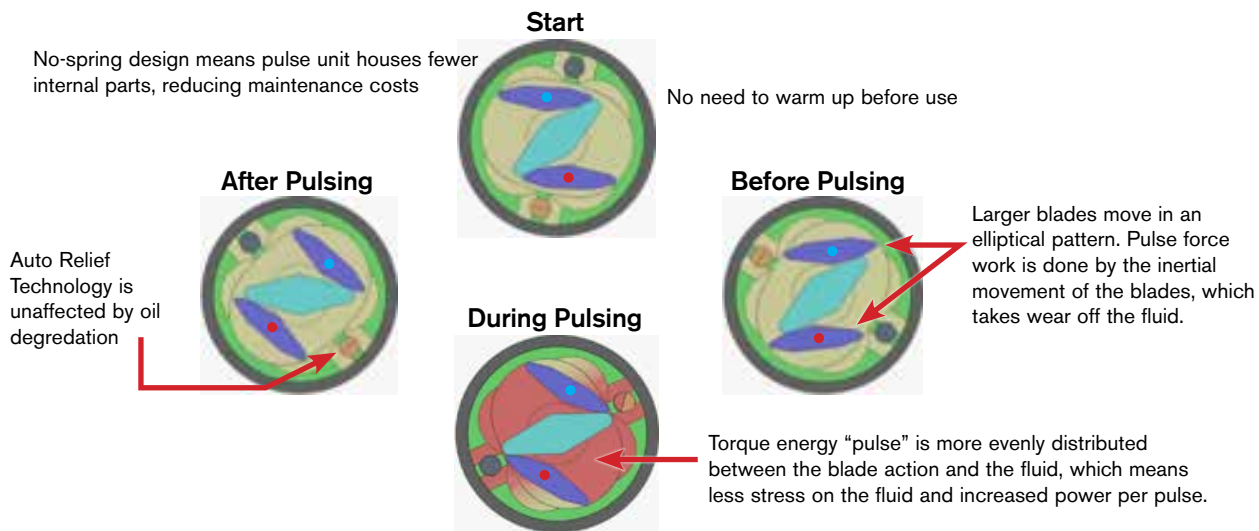
- Elliptical movement produces more power per pulse
- High pulse frequency and crisp tool shut off results in accurate delivery of torque
- Cycle times on most joints are reduced for more efficient production

### *Reduced Cost of Ownership*

- Longer fluid life means tool remains in service longer between maintenance
- Maintenance only takes "soft parts" and fewer of those parts
- Fluid costs have been reduced by 40% (when using OEM recommended fluid)

# UBX-T SERIES CORDLESS PULSE TOOLS

## UBX Pulse Unit: Increased Output and Durability



## UBX-T70 SHUT-OFF BATTERY OIL PULSE TOOL

The first tool released in the UBX series is the UBX-T70 Shut-Off Battery Oil Pulse Tool. It features all of the advantages of the innovative UBX pulse unit technology, as well as:

### Additional Features and Benefits

- Weight reduced by 0.3 lb (140 g) compared to the UDBP-TA70(P)
- On-board LED indicates fastening results
- Number of fastening per minute: 8 (fastening time 0.4 sec.)
- Fastener quantity per full charge: 600 (on a B joint with 1 sec or less freerun)



| MODEL    | NOMINAL BOLT SIZE |            | TORQUE  |         | WEIGHT W/O BATTERY |                  | FREE SPEED | LENGTH |     | HEIGHT |     | SQ. DRIVE |
|----------|-------------------|------------|---------|---------|--------------------|------------------|------------|--------|-----|--------|-----|-----------|
|          | MM                | IN         | NM      | FT-LB   | KG                 | LB               | RPM        | MM     | IN  | MM     | IN  | IN        |
| UBX-T70* | 8 - 12            | 5/16 - 1/2 | 25 - 55 | 18 - 41 | w/o battery: 1.28  | w/o battery: 2.8 | 4,800      | 187    | 7.4 | 242    | 9.5 | 3/8       |

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

## BATTERIES AND BATTERY CHARGER

| BATTERY MODEL # | DESCRIPTION            | VOLTAGE           | TYPE          | CAPACITY                 |                  |
|-----------------|------------------------|-------------------|---------------|--------------------------|------------------|
| EYFB41          | Battery for UBX-T70    | 14.4V             | Li-Ion        | 2.0Ah                    |                  |
| CHARGER MODEL # | DESCRIPTION            | WEIGHT            | INPUT VOLTAGE | DIMENSIONS               | BATTERY CAPACITY |
| EY0L82B         | 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      |



14.4 V Battery: EYFB41



Battery Charger: EY0L82B



# UDP-TA DIRECT PLUG-IN PULSE SERIES

## DIRECT PLUG IN, SHUT OFF PULSE TOOLS

### FEATURES AND BENEFITS

- Direct Wall Plug in – Tool plugs directly to 100 – 115 VAC wall power with circuit protection breaker box or integrated power cable balancer
- Brushless (IPM) Motor provides long motor life with integrated trigger activated fan for increased duty cycle
- Patented Auto Relief Pulse Unit Technology
- Lightweight, high impact, rugged plastic housing for superior ergonomics
- Optional power cable integrated balancer available



UDP-TA40(B)



UDP-TA50D(B-TL)

| MODEL  | TORQUE RANGE |            | RPM<br>FREE SPEED | OVERALL LENGTH |       | WEIGHT |     | DRIVE    |
|--|--------------|------------|-------------------|----------------|-------|--------|-----|----------|
|  | NM           | FT-LB      |                   | IN             | MM    | LB     | KG  |          |
| <b>Bottom Cable Exit Models (denoted by B)</b> |              |            |                   |                |       |        |     |          |
| UDP-TA40 (B)                                   | 4.5 - 8.0    | 3.3 - 5.9  | 3,300             | 7.1            | 179.5 | 3.0    | 1.4 | 3/8" Sq. |
| UDP-TA40D (B)                                  | 4.5 - 8.0    | 3.3 - 5.9  | 3,300             | 7.2            | 182.5 | 3.0    | 1.4 | 1/4" Hex |
| UDP-TA50 (B)                                   | 7.0 - 15.5   | 5.2 - 11.5 | 3,900             | 7.1            | 179.5 | 3.0    | 1.4 | 3/8" Sq. |
| UDP-TA50D (B)                                  | 7.0 - 15.5   | 5.2 - 11.5 | 3,900             | 7.2            | 182.5 | 3.0    | 1.4 | 1/4" Hex |
| UDP-TA55 (B)                                   | 12.5 - 25.0  | 9.3 - 18.5 | 4,800             | 7.3            | 184.5 | 3.0    | 1.4 | 3/8" Sq. |

| <b>Top Cable Exit Models (denoted by (B-TL) )</b> |             |            |       |     |       |     |     |          |
|---|-------------|------------|-------|-----|-------|-----|-----|----------|
| UDP-TA40 (B-TL)                                   | 4.5 - 8.0   | 3.3 - 5.9  | 3,300 | 7.1 | 179.5 | 3.0 | 1.4 | 3/8" Sq. |
| UDP-TA40D (B-TL)                                  | 4.5 - 8.0   | 3.3 - 5.9  | 3,300 | 7.2 | 182.5 | 3.0 | 1.4 | 1/4" Hex |
| UDP-TA50 (B-TL)                                   | 7.0 - 15.5  | 5.2 - 11.5 | 3,900 | 7.1 | 179.5 | 3.0 | 1.4 | 3/8" Sq. |
| UDP-TA50D (B-TL)                                  | 7.0 - 15.5  | 5.2 - 11.5 | 3,900 | 7.2 | 182.5 | 3.0 | 1.4 | 1/4" Hex |
| UDP-TA55 (B-TL)                                   | 12.5 - 25.0 | 9.3 - 18.5 | 4,800 | 7.3 | 184.5 | 3.0 | 1.4 | 3/8" Sq. |

### OPTIONAL ACCESSORIES

| MODEL      | DESCRIPTION                        |
|------------|------------------------------------|
| UCB-25     | Power Cable Balancer               |
| UCB-TA-CBL | 110VAC Wall-to-Breaker Power Cable |
| 910-629-0  | Breaker Unit                       |
| 910-618-0  | 5M UDP Tool to Breaker Cable       |
| 910-619-0  | 10M UDP Tool to Breaker Cable      |
| 910-627-0  | 5M UDP Extension Cable*            |

\* Extension Cables connect between Tool and Breaker Cables



UCB-25  
Power Cable  
Balancer



910-619-0  
10M Tool-to-Breaker Cable



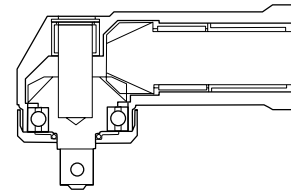
910-629-0 Breaker Unit  
UCB-TA-CBL Wall-to-Breaker  
Power Cable

# UAN & URW SERIES NUTRUNNERS

## UAN SERIES ANGLE NUTRUNNERS

Designed for fastening in tight quarters or applications not served well by a pulse tool. The UAN Series transfers torque through beveled angle gears, continuously driving the fastener. When the resistance to rotation overcomes the spring resistance on the clutch, the tool will disengage at the adjusted torque value. Low reaction force characteristics on hard joints make it comfortable for the operator to use. Ideal for applications ranging from 6 – 60 Nm (4 – 44 ft-lb).

- Torque Control
- Electronically Monitored or Controlled type



UAN-611R-30C

### Angle/Inline Torque Control UAN Series

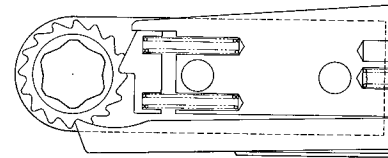
Recommended Air Pressure: 85 psi

| MODEL        | TORQUE RANGE |             | FREE SPEED<br>RPM | OVERALL LENGTH |      | ANGLE HEAD HEIGHT |     | FROM CENTER TO OUTSIDE |     | WEIGHT LESS SOCKET |     | SQUARE DRIVE<br>IN | NOISE LEVEL<br>dB(A) | AIR USAGE<br>CFM |
|--------------|--------------|-------------|-------------------|----------------|------|-------------------|-----|------------------------|-----|--------------------|-----|--------------------|----------------------|------------------|
|              | NM           | FT-LB       |                   | MM             | IN   | MM                | IN  | MM                     | IN  | KG                 | LB  |                    |                      |                  |
| <b>ANGLE</b> |              |             |                   |                |      |                   |     |                        |     |                    |     |                    |                      |                  |
| UAN-611R-60C | 6.5 - 12.0   | 4.3 - 8.6   | 620               | 383            | 15.1 | 47                | 1.9 | 14.0                   | 0.5 | 1.6                | 3.5 | 3/8                | 80                   | 21.2             |
| UAN-611R-50C | 8.5 - 15.0   | 5.7 - 10.8  | 470               | 373            | 14.7 | 47                | 1.9 | 14.0                   | 0.5 | 1.6                | 3.5 | 3/8                | 80                   | 21.2             |
| UAN-611R-40C | 10.0 - 18.0  | 7.2 - 12.9  | 400               | 373            | 14.7 | 47                | 1.9 | 14.0                   | 0.5 | 1.6                | 3.5 | 3/8                | 80                   | 21.2             |
| UAN-611R-30C | 13.0 - 25.0  | 9.3 - 18.0  | 270               | 373            | 14.7 | 47                | 1.9 | 14.0                   | 0.5 | 1.6                | 3.5 | 3/8                | 80                   | 21.2             |
| UAN-701R-60C | 20.0 - 31.0  | 14.5 - 23.1 | 600               | 445            | 17.5 | 47                | 1.9 | 14.0                   | 0.5 | 2.4                | 5.3 | 3/8                | 85                   | 31.8             |
| UAN-701R-40C | 28.0 - 45.0  | 21.0 - 33.3 | 400               | 455            | 17.9 | 51                | 2.0 | 18.0                   | 0.7 | 2.4                | 5.3 | 3/8                | 85                   | 31.8             |
| UAN-701R-30C | 37.0 - 60.0  | 27.5 - 44.1 | 300               | 455            | 17.9 | 58                | 2.3 | 18.0                   | 0.7 | 2.4                | 5.3 | 1/2                | 85                   | 31.8             |

Air Hose Size: 3/8 I.D. Air Inlet: N.P.T. 1/4

## URW SERIES IN-LINE RATCHET WRENCHES

Designed to set flush over the fastener head, the URW Series is ideal for narrow fastening spaces. Motor torque is transferred from a gear driven, dual lobed cam that pushes a spring loaded push rod, rotating the socket one tooth at a time. A wide variety of socket sizes, head thicknesses, and tool lengths allow the URW Series access to many difficult applications.



URW-8



URW-9N



URW-10N




URW-12N

### URW Series Ratchet Wrenches

Recommended Air Pressure: 85 psi

| MODEL                | MAX TORQUE |       | FREE SPEED<br>RPM | OVERALL LENGTH |      | WEIGHT |     | MIN/MAX HEX SOCKET SIZE |             | AIR USAGE<br>CFM |
|----------------------|------------|-------|-------------------|----------------|------|--------|-----|-------------------------|-------------|------------------|
|                      | NM         | FT-LB |                   | MM             | IN   | LB     | KG  | MM                      | IN          |                  |
| <b>STRAIGHT HEAD</b> |            |       |                   |                |      |        |     |                         |             |                  |
| URW-6                | 11         | 8.1   | 210               | 292            | 11.5 | 2.5    | 1.2 | 6 - 12                  | 1/4 - 7/16  | 9.9              |
| URW-8N               | 16         | 11.8  | 260               | 300            | 11.8 | 4.2    | 1.9 | 7 - 15                  | 7/16 - 9/16 | 19.5             |
| URW-8                | 16         | 11.8  | 240               | 360            | 14.2 | 5.0    | 2.3 | 7 - 15                  | 7/16 - 9/16 | 19.8             |
| URW-9N               | 31         | 22.9  | 140               | 380            | 15.0 | 5.2    | 2.4 | 7 - 15                  | 7/16 - 9/16 | 23.7             |
| URW-10N              | 57         | 42.2  | 155               | 394            | 15.5 | 5.8    | 2.7 | 10 - 19                 | 9/16 - 3/4  | 25.0             |
| URW-12N              | 59         | 43.7  | 145               | 397            | 15.6 | 5.9    | 2.7 | 12 - 23                 | 3/8 - 13/16 | 25.0             |

Air Hose Size: 3/8 I.D. Air Inlet: N.P.T. 1/4

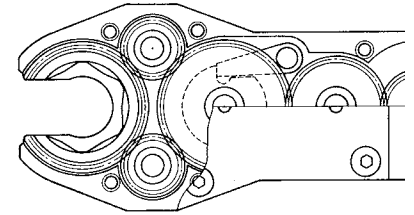
\*  logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

# TUBENUT & GEARED NUTRUNNERS

## UOW SERIES OPEN-END NUTRUNNERS

Designed for tubenut fastening, the UOW Series can transfer torque through a variety of options.

- Stall Type – Depending on the application requirements, the standard UOW Series will stall when torque resistance matches power output
- Mechanical Shut-off Type – For greater torque accuracy and less reaction impulse to the operator, the UOW-T Series incorporates a mechanical clutch to shut off the tool at the preset torque
- Electronically Monitored Type – For critical torque applications requiring monitoring or controlling of the fastening torque, the UOW-M Series utilizes a transducer to signal the clutch shut-off
- UOW series incorporates a one-hand, two-step throttle, which automatically reverses the socket to a preset open position



UOW-11-10

UOW-11-14

UOW-11-22

UOW-11-30

UOW-T60-22

UGW-8N

## UOW / UOW-T Series Tubenut Wrenches

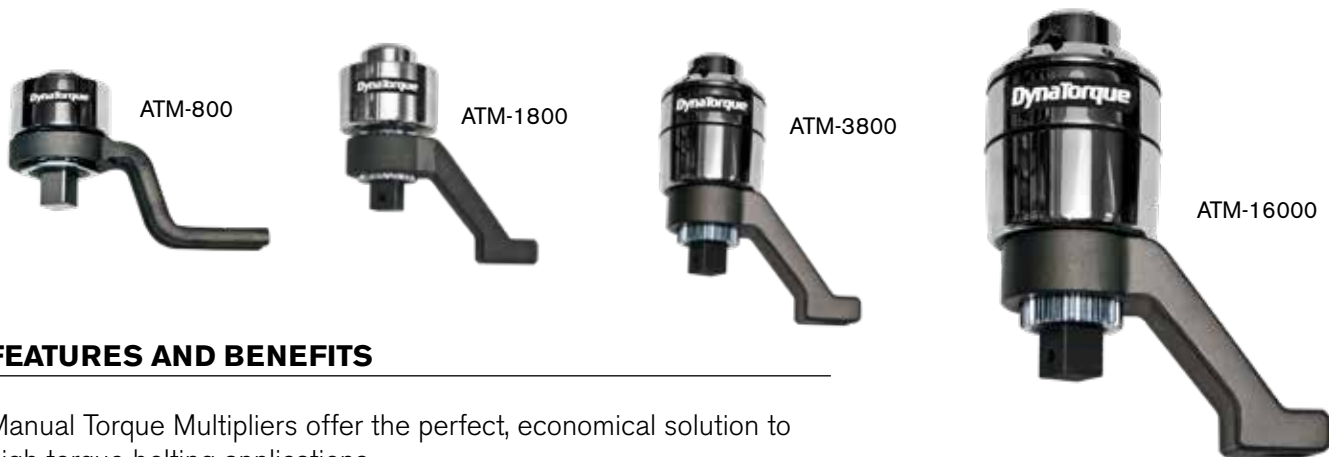
Recommended Air Pressure: 85 psi

| MODEL                  | MAX TORQUE/RANGE |            | FREE SPEED<br>RPM | OVERALL LENGTH |      | WEIGHT |     | MIN/MAX HEX SOCKET SIZE |              | NOISE LEVEL<br>dB(A) | AIR USAGE<br>CFM |
|------------------------|------------------|------------|-------------------|----------------|------|--------|-----|-------------------------|--------------|----------------------|------------------|
|                        | NM               | FT-LB      |                   | MM             | IN   | LB     | KG  | MM                      | IN           |                      |                  |
| <b>Stall</b>           |                  |            |                   |                |      |        |     |                         |              |                      |                  |
| UOW-11-10              | 13               | 9.6        | 390               | 295            | 11.7 | 3.3    | 1.5 | 7 - 12                  | 1/4 - 7/16   | 76                   | 10.5             |
| UOW-11-14              | 16               | 11.8       | 290               | 311            | 12.3 | 3.5    | 1.6 | 10 - 17                 | 7/16 - 5/8   | 76                   | 10.5             |
| UOW-11-22              | 24               | 17.8       | 220               | 326            | 12.8 | 3.9    | 1.8 | 11 - 24                 | 7/16 - 5/8   | 76                   | 10.5             |
| UOW-11-30              | 32               | 23.7       | 160               | 347            | 13.7 | 4.4    | 2.0 | 14 - 36                 | 5/8 - 1-3/16 | 76                   | 10.5             |
| <b>Shut-Off Clutch</b> |                  |            |                   |                |      |        |     |                         |              |                      |                  |
| UOW-T60-10             | 4 - 14           | 3.0 - 10.4 | 300               | 370            | 14.6 | 4.6    | 2.1 | 7 - 12                  | 1/4 - 7/16   | 76                   | 10.5             |
| UOW-T60-14             | 5 - 17           | 3.7 - 12.6 | 240               | 385            | 15.1 | 4.9    | 2.2 | 10 - 17                 | 7/16 - 5/8   | 76                   | 10.5             |
| UOW-T60-22             | 7 - 24           | 5.2 - 17.8 | 170               | 400            | 15.8 | 5.2    | 2.4 | 11 - 24                 | 7/16 - 5/8   | 76                   | 10.5             |
| UOW-T60-30             | 10 - 32          | 7.4 - 23.7 | 130               | 420            | 16.6 | 5.7    | 2.6 | 14 - 36                 | 5/8 - 1-3/16 | 76                   | 10.5             |
| <b>Gear Wrenches</b>   |                  |            |                   |                |      |        |     |                         |              |                      |                  |
| UGW-6N                 | 18               | 13.3       | 530               | 310            | 12.2 | 3.1    | 1.4 | 9 - 12                  | 3/8 - 7/16   | 76                   | 10.5             |
| UGW-8N                 | 23               | 17.0       | 410               | 322            | 12.7 | 3.2    | 1.5 | 10 - 17                 | 7/16 - 5/8   | 76                   | 10.5             |

Air Hose Size: 3/8 I.D.

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

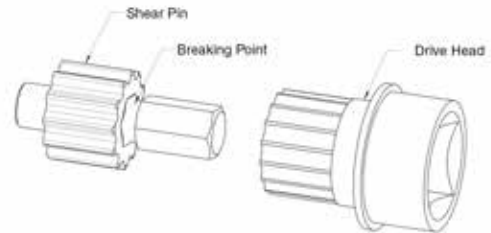
# DYNATORQUE MANUAL TORQUE MULTIPLIERS



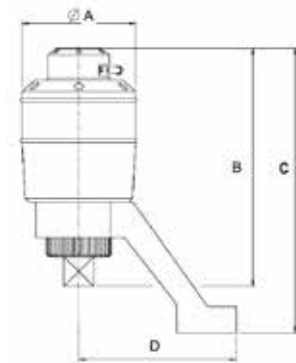
## FEATURES AND BENEFITS

Manual Torque Multipliers offer the perfect, economical solution to high torque bolting applications.

- Superior power to weight ratio
- Delivered torque accuracy +/- 4%
- Anti-Wind Up safety feature (2,800 NM models and up) prevents input device from springing backward when released
- True torque multiplication ratios
- Standard reaction arms supplied. Custom reaction arms/nose extensions available to suit specific applications
- No preventative maintenance required
- Overload protected by shear-drive design (spare torsion shaft included). Easily replace sheared-off pins at the work site



| MODEL     | INPUT IN | OUTPUT IN | RATIO | MAX TORQUE OUTPUT |        | A (MM) | B (MM) | C (MM) | D (MM) | WEIGHT* |      |
|-----------|----------|-----------|-------|-------------------|--------|--------|--------|--------|--------|---------|------|
|           |          |           |       | Nm                | Ft-Lb  |        |        |        |        | LB      | KG   |
| ATM-800   | 1/2      | 3/4       | 1:3.5 | 800               | 590    | 65     | 105    | 132    | 130    | 2.9     | 1.3  |
| ATM-1800  | 3/4      | 1         | 1:3.6 | 1,800             | 1,327  | 90     | 150    | 188    | 132    | 6.6     | 3.0  |
| ATM-2800  | 1/2      | 1         | 1:1.3 | 2,800             | 2,066  | 95     | 200    | 240    | 132    | 11.5    | 5.2  |
| ATM-3800  | 3/4      | 1         | 1:1.3 | 3,800             | 2,804  | 95     | 200    | 240    | 132    | 11.5    | 5.2  |
| ATM-5000  | 3/4      | 1.5       | 1:1.7 | 5,000             | 3,690  | 120    | 215    | 272    | 150    | 15.4    | 7.0  |
| ATM-8000  | 3/4      | 1.5       | 1:4.9 | 8,000             | 5,904  | 132    | 268    | 344    | 200    | 25.4    | 11.5 |
| ATM-12000 | 3/4      | 1.5       | 1:5.8 | 12,000            | 8,856  | 156    | 272    | 348    | 200    | 30.9    | 14.0 |
| ATM-16000 | 3/4      | 2.5       | 1:7.5 | 16,000            | 11,808 | 215    | 292    | 370    | 225    | 57.3    | 26.0 |



\* Weight shown does not include weight of reaction device.

## CARRYING CASE

All DynaTorque Multipliers are supplied in a rugged, weather-resistant, portable carrying case.



# US-LT PNEUMATIC SCREWDRIVERS

## TORQUE CONTROL AUTOMATIC SHUT-OFF TYPE

- Precise repeatability improves quality
- Minimal wear on internal parts for longer life
- Quick shut off for minimum torque reaction
- Speed choice for flexibility
- Easy external torque adjustment
- Midrange air motor provides high speed during entire cycle
- Ideal for industrial torque control applications



## Torque Control Light Touch (LT) Series – Push-To-Start Inline

Recommended Air Pressure: 85 psi

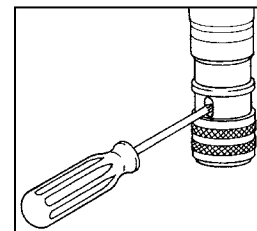
| MODEL       | TORQUE RANGE |             | FREE SPEED<br>RPM | OVERALL LENGTH |     | WEIGHT |     | FROM CENTER TO OUTSIDE |     | NOISE LEVEL<br>dB(A) | AIR USAGE<br>CFM |
|-------------|--------------|-------------|-------------------|----------------|-----|--------|-----|------------------------|-----|----------------------|------------------|
|             | NM           | IN-LB       |                   | MM             | IN  | LB     | KG  | MM                     | IN  |                      |                  |
| US-LT10B    | 0.2 - 0.6    | 1.8 - 5.3   | 1,000             | 191            | 7.5 | 0.6    | 0.3 | 12.0                   | 0.5 | 75                   | 5.2              |
| US-LT20B-10 | 0.4 - 1.1    | 3.1 - 9.7   | 1,000             | 180            | 7.1 | 0.7    | 0.3 | 13.0                   | 0.5 | 70                   | 5.6              |
| US-LT20B-18 | 0.3 - 0.7    | 2.2 - 6.2   | 1,800             | 180            | 7.1 | 0.7    | 0.3 | 13.0                   | 0.5 | 70                   | 5.6              |
| US-LT30B-11 | 1.1 - 2.1    | 9.7 - 18.5  | 1,100             | 187            | 7.4 | 0.9    | 0.4 | 15.5                   | 0.6 | 70                   | 7.0              |
| US-LT30B-17 | 0.7 - 1.5    | 6.2 - 13.2  | 1,700             | 187            | 7.4 | 0.9    | 0.4 | 15.5                   | 0.6 | 70                   | 7.0              |
| US-LT30B-23 | 0.4 - 1.0    | 3.5 - 8.8   | 2,300             | 187            | 7.4 | 0.9    | 0.4 | 15.5                   | 0.6 | 71                   | 7.0              |
| US-LT40B-08 | 1.6 - 4.0    | 14.1 - 35.2 | 800               | 209            | 8.2 | 1.4    | 0.7 | 16.5                   | 0.6 | 70                   | 10.5             |
| US-LT40B-15 | 1.0 - 2.2    | 6.2 - 19.4  | 1,500             | 209            | 8.2 | 1.4    | 0.7 | 16.5                   | 0.6 | 70                   | 10.5             |
| US-LT40B-21 | 1.0 - 1.7    | 6.2 - 15.0  | 2,100             | 209            | 8.2 | 1.4    | 0.7 | 16.5                   | 0.6 | 74                   | 10.5             |
| US-LT50B-05 | 5.0 - 10.2   | 44.0 - 92.4 | 480               | 240            | 9.5 | 2.2    | 1.0 | 19.5                   | 0.8 | 74                   | 17.5             |
| US-LT50B-08 | 3.0 - 5.5    | 26.4 - 48.4 | 800               | 240            | 9.5 | 2.2    | 1.0 | 19.5                   | 0.8 | 75                   | 17.5             |
| US-LT50B-17 | 1.5 - 2.6    | 9.7 - 23.0  | 1,700             | 240            | 9.5 | 2.2    | 1.0 | 19.5                   | 0.8 | 75                   | 17.5             |

Air Hose Size: 1/4 I.D. for US-LT10B - US-LT40B Series - 3/8" I.D. for US-LT50B Series  
Each model is equipped with its standard and alternate clutch springs

Air Inlet: 1/8 for US-LT10B - US-LT20B Series - 1/4" for US-LT30B - US-LT50B Series

### External Torque Adjustment (Air Shut-Off)

Set the hand driver into the key hole on the Adjusting Gear, turn clockwise to increase torque. Turn counter clockwise to decrease torque.



# US-LT PNEUMATIC SCREWDRIVERS



US-LT30B\_C Series



US-LT40B\_C Series



US-LT40\_C Series



US-LT30BL Series



US-LT40BL Series

## Torque Control Light Touch (LT) Series – Angle & Lever

Recommended Air Pressure: 85 psi

| MODEL        | TORQUE RANGE<br>SOFT JOINT |             | FREE<br>SPEED<br>RPM | OVERALL<br>LENGTH |      | WEIGHT |     | FROM CENTER<br>TO OUTSIDE |     | HEX BIT OR<br>DRIVE SIZE<br>IN | NOISE<br>LEVEL<br>dB(A) | AIR<br>USAGE<br>CFM |
|--------------|----------------------------|-------------|----------------------|-------------------|------|--------|-----|---------------------------|-----|--------------------------------|-------------------------|---------------------|
|              | NM                         | IN-LB       |                      | MM                | IN   | LB     | KG  | MM                        | IN  |                                |                         |                     |
| <b>Angle</b> |                            |             |                      |                   |      |        |     |                           |     |                                |                         |                     |
| US-LT30B-11C | 1.1 - 2.1                  | 3.5 - 18.5  | 1,100                | 298               | 10.7 | 1.5    | 0.7 | 36                        | 1.4 | 1/4                            | 73                      | 7.0                 |
| US-LT30B-17C | 0.7 - 1.5                  | 3.5 - 13.2  | 1,700                | 295               | 10.7 | 1.5    | 0.7 | 36                        | 1.4 | 1/4                            | 73                      | 7.0                 |
| US-LT40B-03C | 5.0 - 10.0                 | 44 - 88     | 300                  | 359               | 14.2 | 2.4    | 1.1 | 35.5                      | 1.4 | 3/4                            | 72                      | 10.5                |
| US-LT40B-05C | 2.3 - 5.7                  | 20.0 - 49.5 | 500                  | 322               | 13.0 | 2.1    | 0.9 | 38.5                      | 1.5 | 1/4                            | 75                      | 10.5                |
| US-LT40B-08C | 1.6 - 4.0                  | 8.7 - 34.7  | 800                  | 320               | 12.8 | 2.0    | 0.9 | 36                        | 1.4 | 1/4                            | 75                      | 10.5                |
| US-LT40B-15C | 1.0 - 2.2                  | 8.7 - 19.4  | 1,500                | 320               | 12.8 | 2.0    | 0.9 | 36                        | 1.4 | 1/4                            | 75                      | 10.5                |
| US-LT40-03C  | 5.0 - 10.0                 | 43.4 - 86.8 | 300                  | 360               | 14.2 | 2.4    | 1.1 | 35.5                      | 1.4 | 1/4 Sq.                        | 72                      | 10.5                |
| US-LT40-05C  | 2.3 - 5.7                  | 20.0 - 50.2 | 500                  | 322               | 13.0 | 2.1    | 0.9 | 35.5                      | 1.4 | 1/4 Sq.                        | 75                      | 10.5                |
| US-LT40-08C  | 1.6 - 4.0                  | 8.7 - 34.7  | 800                  | 320               | 12.8 | 2.0    | 0.9 | 32                        | 1.3 | 1/4 Sq.                        | 75                      | 10.5                |
| <b>Lever</b> |                            |             |                      |                   |      |        |     |                           |     |                                |                         |                     |
| US-LT30BL-11 | 1.1 - 2.1                  | 9.7 - 18.5  | 1,100                | 229               | 8.2  | 1.2    | 0.5 | 15                        | 0.6 | 1/4                            | 70                      | 5.2                 |
| US-LT30BL-17 | 0.7 - 1.5                  | 6.2 - 13.2  | 1,700                | 229               | 8.2  | 1.2    | 0.5 | 15                        | 0.6 | 1/4                            | 70                      | 5.2                 |
| US-LT30BL-23 | 0.4 - 1.0                  | 3.5 - 8.8   | 2,300                | 229               | 8.2  | 1.2    | 0.5 | 15                        | 0.6 | 1/4                            | 70                      | 5.2                 |
| US-LT40BL-08 | 1.6 - 4.0                  | 14.1 - 35.2 | 800                  | 249               | 9.8  | 1.5    | 0.7 | 17                        | 0.7 | 1/4                            | 70                      | 5.6                 |
| US-LT40BL-15 | 1.0 - 2.2                  | 8.8 - 19.4  | 1,500                | 249               | 9.8  | 1.5    | 0.7 | 17                        | 0.7 | 1/4                            | 70                      | 5.6                 |

Angle Head Height: 32 - 36mm Air Inlet: N.P.T. 1/4" Air Hose Size: 1/4" I.D. for all models



US-LT31PB Series



US-LT41PB Series



US-LT51PB Series



US-LT60P Series

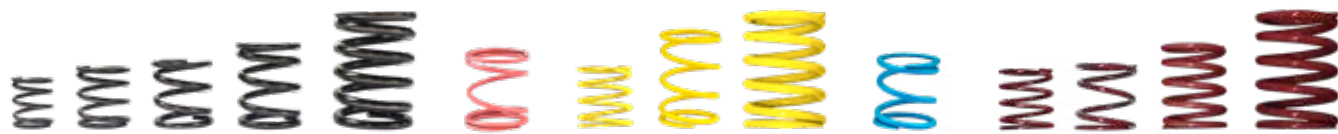
## Torque Control Light Touch (LT) Series – Pistol

Recommended Air Pressure: 85 psi

| MODEL        | TORQUE RANGE<br>(SOFT JOINT) |              | FREE<br>SPEED<br>RPM | OVERALL<br>LENGTH |     | WEIGHT |     | FROM CENTER<br>TO OUTSIDE |     | NOISE<br>LEVEL<br>dB(A) | AIR<br>USAGE<br>CFM |
|--------------|------------------------------|--------------|----------------------|-------------------|-----|--------|-----|---------------------------|-----|-------------------------|---------------------|
|              | NM                           | IN-LB        |                      | MM                | IN  | LB     | KG  | MM                        | IN  |                         |                     |
| US-LT31PB-05 | 2.4 - 5.0                    | 21.1 - 44.0  | 500                  | 189               | 8.2 | 1.9    | 0.9 | 16                        | 0.6 | 70                      | 7.0                 |
| US-LT31PB-11 | 1.1 - 2.1                    | 9.7 - 18.5   | 1,100                | 170               | 7.0 | 1.6    | 0.7 | 16                        | 0.6 | 70                      | 7.0                 |
| US-LT31PB-17 | 0.7 - 1.5                    | 6.2 - 13.2   | 1,700                | 170               | 7.0 | 1.6    | 0.7 | 16                        | 0.6 | 70                      | 7.0                 |
| US-LT31PB-23 | 0.4 - 1.0                    | 3.5 - 8.8    | 2,300                | 170               | 7.0 | 1.6    | 0.7 | 16                        | 0.6 | 70                      | 7.0                 |
| US-LT41PB-08 | 1.6 - 4.0                    | 14.0 - 35.2  | 800                  | 175               | 7.7 | 1.9    | 0.9 | 17                        | 0.6 | 70                      | 10.5                |
| US-LT41PB-15 | 1.0 - 2.2                    | 8.8 - 19.4   | 1,500                | 175               | 7.7 | 1.9    | 0.9 | 17                        | 0.6 | 70                      | 10.5                |
| US-LT41PB-21 | 1.0 - 1.7                    | 8.8 - 15.0   | 2,500                | 175               | 7.7 | 1.9    | 0.9 | 17                        | 0.6 | 74                      | 10.5                |
| US-LT51PB-05 | 5.0 - 10.5                   | 44.0 - 92.4  | 480                  | 198               | 8.5 | 2.6    | 1.2 | 20                        | 0.8 | 74                      | 17.5                |
| US-LT51PB-08 | 3.0 - 5.5                    | 26.4 - 48.4  | 800                  | 198               | 8.5 | 2.6    | 1.2 | 20                        | 0.8 | 75                      | 17.5                |
| US-LT51PB-17 | 1.5 - 2.6                    | 13.2 - 22.9  | 1,700                | 198               | 8.5 | 2.6    | 1.2 | 20                        | 0.8 | 75                      | 17.5                |
| US-LT60P-03* | 7.0 - 20.0                   | 61.6 - 176.0 | 320                  | 230               | 9.1 | 3.7    | 1.7 | 22                        | 0.9 | 75                      | 21.0                |
| US-LT60P-07* | 4.0 - 10.0                   | 35.2 - 88.0  | 650                  | 230               | 9.1 | 3.7    | 1.7 | 22                        | 0.9 | 76                      | 21.0                |
| US-LT60P-11* | 4.0 - 7.0                    | 35.2 - 61.6  | 1,100                | 230               | 9.1 | 3.7    | 1.7 | 22                        | 0.9 | 77                      | 21.0                |

Air Hose Size: 1/4 I.D. for US-LT31PB & US-LT41PB Series Air Inlet: N.P.T. 1/4" 3/8 I.D. for US-LT31PB-05, US-LT51PB Series & US-LT60P Series  
\* Optional 3/8" Sq. Drive available for US-LT60P Series ADD (P) to Model Number

# US-LT PNEUMATIC SCREWDRIVER ACCESSORIES



## Optional Clutch Springs

| MODEL                    | CLUTCH SPRINGS PROVIDED |                | RECOMMENDED TORQUE RANGE HARD JOINT |             | CLUTCH SPRING CODE NUMBER |
|--------------------------|-------------------------|----------------|-------------------------------------|-------------|---------------------------|
|                          | Standard                | Option         | Nm                                  | in-lb       |                           |
| US-LT10B                 | Black                   |                | 0.20 - 0.60                         | 1.7 - 5.2   | 976-379-0                 |
| US-LT20B-10              | Black                   |                | 0.34 - 1.10                         | 3.0 - 9.5   | 976-432-0                 |
|                          |                         | Red            | 0.20 - 0.70                         | 1.7 - 6.1   | 976-431-0                 |
|                          |                         | Yellow         | 0.15 - 0.34                         | 1.3 - 3.0   | 976-430-0                 |
| US-LT20B-18              | Red                     |                | 0.24 - 0.67                         | 2.2 - 6.1   | 976-431-0                 |
|                          |                         | Yellow         | 0.15 - 0.34                         | 1.3 - 3.0   | 976-430-0                 |
| US-LT20B-26              | Yellow                  |                | 0.15 - 0.34                         | 1.3 - 3.0   | 976-430-0                 |
| US-LT31PB-05             | Red                     |                | 2.35 - 5.00                         | 20.9 - 44.0 | 976-493-0                 |
|                          |                         | Pink           | 0.98 - 2.74                         | 8.7 - 24.3  | 976-471-0                 |
| US-LT30 Series, 1100 rpm | Blue                    |                | 0.98 - 2.1                          | 8.7 - 18.5  | 976-472-0                 |
|                          |                         | Red            | 0.67 - 1.76                         | 6.1 - 15.6  | 976-493-0                 |
|                          |                         | Pink           | 0.39 - 0.98                         | 3.5 - 8.7   | 976-471-0                 |
|                          |                         | (not included) | 1.22 - 2.74                         | 10.8 - 24.3 | 976-504-0                 |
| US-LT30 Series, 1700 rpm | Red                     |                | 0.67 - 1.47                         | 6.1 - 13.0  | 976-493-0                 |
|                          |                         | Pink           | 0.39 - 0.98                         | 3.5 - 8.7   | 976-471-0                 |
| US-LT30 Series, 2300 rpm | Pink                    |                | 0.39 - 0.98                         | 3.5 - 8.7   | 976-471-0                 |
| US-LT40-03C              | Red                     |                | 4.90 - 9.80                         | 43.4 - 86.8 | 976-516-0                 |
| US-LT40 Series, 800 rpm  | Black                   |                | 1.57 - 3.92                         | 13.9 - 34.7 | 976-515-0                 |
|                          |                         | Red            | 0.98 - 2.17                         | 8.7 - 19.1  | 976-516-0                 |
|                          |                         | Yellow         | 0.98 - 1.67                         | 8.7 - 14.8  | 976-517-0                 |
| US-LT40 Series, 1500 rpm | Red                     |                | 0.98 - 2.17                         | 8.7 - 19.1  | 976-516-0                 |
|                          |                         | Yellow         | 0.98 - 1.67                         | 8.7 - 14.8  | 976-517-0                 |
| US-LT40 Series, 2100 rpm | Yellow                  |                | 0.98 - 1.67                         | 8.7 - 14.8  | 976-517-0                 |
| US-LT50 Series, 500 rpm  | Black                   |                | 4.9 - 10.3                          | 43.4 - 91.1 | 976-620-0                 |
|                          |                         | Red            | 2.9 - 5.4                           | 26.1 - 47.7 | 976-614-0                 |
|                          |                         | Yellow         | 1.4 - 2.5                           | 13.0 - 22.6 | 976-588-0                 |
| US-LT50 Series, 800 rpm  | Red                     |                | 2.7 - 5.4                           | 24.3 - 47.7 | 976-614-0                 |
|                          |                         | Yellow         | 1.4 - 2.5                           | 13.0 - 22.6 | 976-588-0                 |
| US-LT50 Series, 1700 rpm | Yellow                  |                | 1.4 - 2.6                           | 13.0 - 23.0 | 976-588-0                 |



408-088-2

## Silencer Assemblies

| MODEL          | DIRECT TYPE SILENCER | LEADER HOSE ASSEMBLY | EXHAUST HOSE ASSEMBLY |
|----------------|----------------------|----------------------|-----------------------|
| US-LT10 Series | N/A                  | 934-201-0            | 459-885-1             |
| US-LT20 Series | N/A                  | 934-201-0            | 455-885-1             |
| US-LT30 Series | 408-088-2            | 934-150-0            | 408-885-0             |
| US-LT40 Series | 496-088-1            | 934-150-0            | -                     |

# US & US-LD PNEUMATIC SCREWDRIVERS



US-LD40P-15



US-LD50P-08



US-3.5ACB

## Direct Drive Series

Recommended Air Pressure: 72 psi

| MODEL         | MAX TORQUE       |       |                  |       | FREE SPEED<br>RPM | OVERALL LENGTH |     | WEIGHT |     | FROM CENTER TO OUTSIDE |     | NOISE LEVEL<br>dB(A) | AIR USAGE<br>CFM |
|---------------|------------------|-------|------------------|-------|-------------------|----------------|-----|--------|-----|------------------------|-----|----------------------|------------------|
|               | SOFT JOINT<br>NM | FT-LB | HARD JOINT<br>NM | FT-LB |                   | MM             | IN  | LB     | KG  | MM                     | IN  |                      |                  |
| <b>Pistol</b> |                  |       |                  |       |                   |                |     |        |     |                        |     |                      |                  |
| US-LD40P-08   | 4.8              | 3.6   | 5.7              | 4.2   | 940               | 130            | 5.1 | 1.5    | 0.7 | 17                     | 0.7 | 70                   | 14.0             |
| US-LD40P-15   | 3.0              | 2.2   | 3.2              | 2.4   | 1,700             | 130            | 5.1 | 1.5    | 0.7 | 17                     | 0.7 | 70                   | 14.0             |
| US-LD40P-21   | 2.0              | 1.5   | 2.8              | 2.1   | 2,500             | 130            | 5.1 | 1.5    | 0.7 | 17                     | 0.7 | 74                   | 14.0             |
| US-LD50P-05   | 10.0             | 7.4   | 11.2             | 8.3   | 500               | 153            | 6.0 | 2.0    | 0.9 | 20                     | 0.8 | 74                   | 17.5             |
| US-LD50P-08   | 6.5              | 4.8   | 7.8              | 5.8   | 900               | 153            | 6.0 | 2.0    | 0.9 | 20                     | 0.8 | 75                   | 17.5             |
| US-LD50P-17   | 3.5              | 2.6   | 5.9              | 4.4   | 1,900             | 150            | 5.9 | 2.0    | 0.9 | 20                     | 0.8 | 75                   | 17.5             |

| ANGLE     | MAX TORQUE       |       |                  |       | CAPACITY<br>(SCREW SIZE) |       | FREE SPEED<br>RPM | OVERALL LENGTH |    | WEIGHT |     | FROM CENTER TO OUTSIDE |     | NOISE LEVEL<br>dB(A) | AIR USAGE<br>CFM |
|-----------|------------------|-------|------------------|-------|--------------------------|-------|-------------------|----------------|----|--------|-----|------------------------|-----|----------------------|------------------|
|           | SOFT JOINT<br>NM | FT-LB | HARD JOINT<br>NM | FT-LB | MM                       | IN    |                   | MM             | IN | LB     | KG  | MM                     | IN  |                      |                  |
| US-3.5ACB | 1.75             | 1.1   | 2.5              | 1.8   | 4                        | No. 8 | 2,000             | 200            | 79 | 1.4    | 0.7 | 10.0                   | 0.4 | 85                   | 7.0              |

Air Hose Size: 1/4" I.D. Air Inlet: N.P.T. 1/4"



US-3.5B



US-5

## Cushion Clutch Series

Recommended Air Pressure: 57 psi

| MODEL   | CAPACITY<br>(SCREW SIZE) |        | FREE SPEED<br>RPM | OVERALL LENGTH |     | WEIGHT LESS BIT |     | FROM CENTER TO OUTSIDE |     | NOISE LEVEL<br>dB(A) | AIR USAGE<br>CFM |
|---------|--------------------------|--------|-------------------|----------------|-----|-----------------|-----|------------------------|-----|----------------------|------------------|
|         | MM                       | IN     |                   | MM             | IN  | LB              | KG  | MM                     | IN  |                      |                  |
| US-3.5B | 4                        | No. 8  | 2,000             | 214            | 8.5 | 1.4             | 0.6 | 17                     | 0.7 | 75                   | 7.0              |
| US-5    | 5                        | No. 10 | 1,400             | 236            | 7.1 | 2.4             | 1.1 | 21                     | 0.8 | 75                   | 7.0              |

Air Hose Size: 1/4" I.D. Air Inlet: N.P.T. 1/4"



US-350PW



US-450PW



US-652PW



US-450WB

## Impact Series

Recommended Air Pressure: 85 psi

| MODEL           | CAPACITY<br>(SCREW SIZE) |        | FREE SPEED<br>RPM | OVERALL LENGTH |     | WEIGHT LESS BIT |     | FROM CENTER TO OUTSIDE |     | NOISE LEVEL<br>dB(A) | AIR USAGE<br>CFM |
|-----------------|--------------------------|--------|-------------------|----------------|-----|-----------------|-----|------------------------|-----|----------------------|------------------|
|                 | MM                       | IN     |                   | MM             | IN  | LB              | KG  | MM                     | IN  |                      |                  |
| <b>Pistol</b>   |                          |        |                   |                |     |                 |     |                        |     |                      |                  |
| US-350PW        | 4                        | No. 8  | 15,000            | 121            | 4.8 | 1.2             | 0.5 | 17                     | 0.7 | 81                   | 7.0              |
| US-450PW        | 5                        | No. 10 | 14,000            | 151            | 5.9 | 1.7             | 0.8 | 17                     | 0.7 | 79                   | 7.0              |
| US-652PW        | 6                        | 1/4    | 9,000             | 155            | 6.1 | 1.9             | 0.9 | 23                     | 0.9 | 79                   | 12.4             |
| <b>Straight</b> |                          |        |                   |                |     |                 |     |                        |     |                      |                  |
| US-6W           | 6                        | 1/4    | 9,500             | 187            | 7.4 | 1.8             | 0.8 | 22.5                   | 0.9 | 85                   | 10.5             |
| US-450WB        | 5                        | No. 10 | 11,000            | 161            | 6.3 | 1.2             | 0.6 | 18.5                   | 0.7 | 80                   | 7.0              |

Air Hose Size: 1/4" I.D. Air Inlet: N.P.T. 1/4"  
(R) Denotes Directional Muffled Rear Exhaust option

Recommended air pressure: 57 psi for US-350PW, US-450PW, US-6W, and US-450WB / 72 psi for US-652PW.  
NOTE: Additional models available. Please contact AIMCO, 1-503-254-6600, or toll free 1-800-852-1368



# Signature Series SHUT-OFF IMPACT CORDLESS TOOLS

Tested and PROVEN to BEAT the competition in vibration and noise levels. These tools outperform the competition in number of rundowns per battery charge.



## SHUT-OFF IMPACT TOOLS

The Signature Series Impact Shut-Off Pistol Tool can operate as a standard impact wrench or as an impact wrench with a programmable shut-off point, preventing over-torquing. These innovative tools deliver a torque range of 3–120 Nm (2–89 ft-lb). No torque reaction, coupled with the ergonomic, lightweight design and reduced vibration, helps to prevent user injury.



## 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)

| MODEL      | TORQUE RANGE |         | MAX TORQUE |       | FRE<br>E SPEED | BATTERY<br>(V) | WEIGHT |     | ANVIL SIZE | NOISE LEVEL dB(A) |
|------------|--------------|---------|------------|-------|----------------|----------------|--------|-----|------------|-------------------|
|            | NM           | FT-LB   | NM         | FT-LB |                |                | LB     | KG  |            |                   |
| SIW-P2525Q | 3 - 25       | 2 - 18  | 40         | 30    | 2,400          | 20             | 2.2    | 1   | 1/4 QC     | 71                |
| SIW-P3225Q | 6 - 32       | 4 - 24  | 90         | 66    | 2,400          | 20             | 2.2    | 1   | 1/4 QC     | 71                |
| SIW-P3238  | 6 - 32       | 4 - 24  | 90         | 66    | 2,400          | 20             | 2.2    | 1   | 3/8 Sq Dr  | 71                |
| SIW-P5538  | 15 - 55      | 11 - 41 | 120        | 90    | 2,400          | 20             | 2.4    | 1.1 | 3/8 Sq Dr  | 71                |
| SIW-P5550  | 15 - 55      | 11 - 41 | 120        | 90    | 2,400          | 20             | 2.4    | 1.1 | 1/2 Sq Dr  | 71                |
| SIW-P10050 | 25 - 100     | 18 - 74 | 180        | 133   | 2,400          | 20             | 2.4    | 1.1 | 1/2 Sq Dr  | 71                |
| SIW-P12050 | 30 - 120     | 22 - 89 | 210        | 155   | 2,400          | 20             | 2.9    | 1.3 | 1/2 Sq Dr  | 71                |

Shut-Off Impact Tools Include: Body Jacket, Bail, and one (1) 18V Li-Ion Battery

## BATTERY AND CHARGER

The Signature Series Shut-Off Impact Tool battery features a slim profile design and a slide mount connection to the tool, which ensures durability and makes changing out batteries quick and easy.

| BATTERY MODEL # | VOLTAGE / CAPACITY | TYPE                   |
|-----------------|--------------------|------------------------|
| SIW-B20LI       | 20V, 2.0 Ah        | Li-Ion                 |
| SIW-B20LI-HC    | 20V, 4.0 Ah        | Li-Ion                 |
| CHARGER MODEL # | OUTPUT             | INPUT                  |
| SIW-C18-20      | 18 - 20V, 4.0 A    | 100 - 240VAC, 50-60 Hz |



## ACCESSORIES

| MODEL #  | DESCRIPTION                  |
|----------|------------------------------|
| BJ10091  | Grey Body Jacket Cover       |
| SIW-PBL  | Suspension Bail              |
| SIW-38PR | Pin Retainer Kit, 3/8" Drive |
| SIW-50PR | Pin Retainer Kit, 1/2" Drive |



# Signature Series PRECISION CLUTCH CORDLESS TOOLS

Quick shut-off, precision clutch minimizes torque reaction and ensures precise application of torque.

## PRECISION CLUTCH TOOLS

Signature Series precision clutch tools feature a quick-releasing clutch that delivers accuracy across multiple joint types. Constructed of precision machined parts, this tool guarantees accuracy and durability over the life of the tool.

## FEATURES AND BENEFITS

- LED indicator provides simple process information to the operator. The signal is visible from any angle
- Press button for easy F/R operation
- LED light for working in dark areas
- Trigger repeat protection avoids double hits on already seated screws
- Easily attached sliding battery system
- Mini USB port for connection to optional programmer (SPC-2PGM)
- Li-Ion battery pack delivers longer run time
- Ergonomic handle design provides outstanding balance and weight and is ideal for accessing hard-to-reach locations
- Angle tool enables multiple head positions



SPC-P2325Q



SPC-A21625

| MODEL                | TORQUE RANGE |             | FREE SPEED RPM RANGE<br>(PROGRAMMABLE WITH<br>PROGRAMMER ACCESSORY) | BATTERY<br>VOLTAGE | TOOL WEIGHT (W/O BATTERY) |     | ANVIL<br>SIZE |
|----------------------|--------------|-------------|---|--------------------|---------------------------|-----|---------------|
|                      | NM           | FT-LB       |   |                    | LB                        | KG  |               |
| <b>Pistol*</b>       |              |             |   |                    |                           |     |               |
| SPC-P2325Q           | .8 - 3       | .6 - 2.2    | 500 - 1,550   | 18V                | 2.1                       | .95 | 1/4" QC       |
| SPC-P2625Q           | 1 - 6        | .7 - 4.4    | 300 - 1,000   | 18V                | 2.1                       | .95 | 1/4" QC       |
| SPC-P2925Q           | 1.5 - 9      | 1.1 - 6.6   | 300 - 800   | 18V                | 2.1                       | .95 | 1/4" QC       |
| SPC-P21225Q          | 2 - 12       | 1.5 - 8.8   | 250 - 600   | 18V                | 2.1                       | .95 | 1/4" QC       |
| <b>Right Angle**</b> |              |             |   |                    |                           |     |               |
| SPC-A21025Q          | 3 - 12       | 2.2 - 8.8   | 400 - 1,000   | 18V                | 3.5                       | 1.6 | 1/4" QC       |
| SPC-A21025           | 3 - 12       | 2.2 - 8.8   | 400 - 1,000   | 18V                | 3.5                       | 1.6 | 1/4" Sq       |
| SPC-A21038           | 3 - 12       | 2.2 - 8.8   | 400 - 1,000   | 18V                | 3.5                       | 1.6 | 3/8" Sq       |
| SPC-A21625Q          | 5 - 18       | 3.7 - 13.3  | 300 - 600   | 18V                | 3.5                       | 1.6 | 1/4" hex      |
| SPC-A21625           | 5 - 18       | 3.7 - 13.3  | 300 - 600   | 18V                | 3.5                       | 1.6 | 1/4" Sq       |
| SPC-A21638           | 5 - 18       | 3.7 - 13.3  | 300 - 600   | 18V                | 3.5                       | 1.6 | 3/8" Sq       |
| SPC-A23038           | 8 - 30       | 5.9 - 22    | 250 - 480   | 18V                | 3.5                       | 1.6 | 3/8" Sq       |
| SPC-A23538           | 10 - 35      | 7.4 - 25.8  | 220 - 330   | 18V                | 3.5                       | 1.6 | 3/8" Sq       |
| SPC-A25038           | 10 - 50      | 7.4 - 37    | 200 Non-Programmable Fixed Speed***                                 | 18V                | 5.3                       | 2.4 | 3/8" Sq       |
| SPC-A27038           | 20 - 70      | 14.8 - 51.7 | 170 Non-Programmable Fixed Speed***                                 | 18V                | 6.3                       | 2.9 | 3/8" Sq       |
| SPC-A210050          | 35 - 100     | 26 - 74     | 119 Non-Programmable Fixed Speed***                                 | 18V                | 7.4                       | 3.4 | 1/2" Sq       |

\* Pistol Grip Tools include: Torque Adjustment Tool and one (1) 18V Li-Ion Battery

\*\* Angle Nutrunners include: Torque Adjustment Tool, Head Indexing Spanner Wrench, and one (1) 18V Li-Ion Battery

\*\*\* High torque tools feature fixed RPM

## BATTERY AND CHARGER

The AIMCO Signature Series Precision Clutch Tool battery and charging system could not be more simple. One universal battery and charger interface with all of the Signature Series Precision Clutch tools. Each tool utilizes the same lightweight 18V Li-Ion battery, which provides superior battery life. The charger accepts input AC power of 100–240VAC, making use simple anywhere in the world.



SPC-B218LI

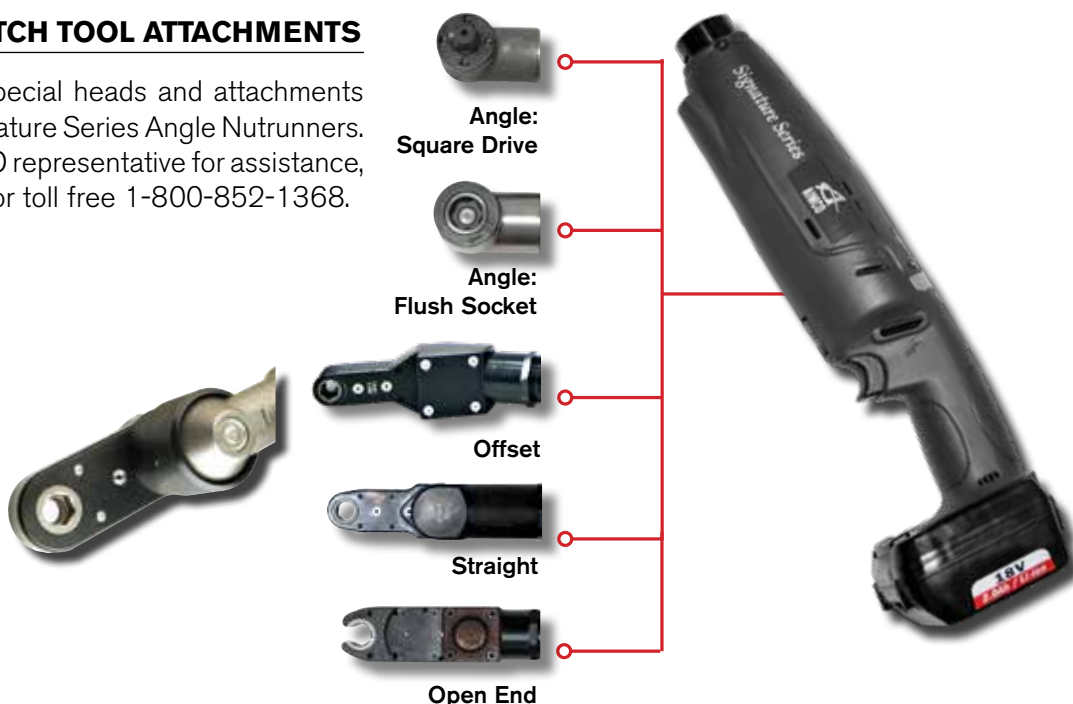


SPC-C218-19

| BATTERY MODEL # | VOLTAGE            | TYPE                   | CAPACITY   | WEIGHT        |
|-----------------|--------------------|------------------------|--|---------------|
| SPC-B218LI      | 18V                | Li-Ion                 | 2.0 Ah   | .8 Lb/.4 kg   |
| SPC-B218LI-HC   | 18V                | Li-Ion                 | 4.0 Ah   | 1.4 Lb/.64 kg |
| CHARGER MODEL # | OUTPUT             | INPUT                  | DIMENSIONS (W/O BATTERY)                                       | WEIGHT        |
| SPC-C218-19     | 18V-19.2V<br>3.0 A | 100-240VAC<br>50-60 Hz | 6.25" deep x 5" wide x 3.5" tall<br>158.75 mm x 127 mm x 89 mm | 1.2 Lb/.54 kg |

## PRECISION CLUTCH TOOL ATTACHMENTS

A wide variety of special heads and attachments can be fitted to Signature Series Angle Nutrunners. Contact your AIMCO representative for assistance, 1-503-254-6600, or toll free 1-800-852-1368.



SPC-QC

## QUICK CLIP

The two piece Quick Clip comes with a belt clip and a stretch cord attachment for the Signature Series Precision Clutch pistol tool. The patented ball feature allows for quick and easy release.

## BODY JACKETS

Prevent damage to the workpiece.

| MODEL  | DESCRIPTION  |
|--|--|
|  BJ10082 | Clear Body Jacket for Signature Series Precision Clutch Pistol Tools     |
|  BJ10083 | Clear Body Jacket for Signature Series Precision Clutch Angle Nutrunners |

## TOOL SPEED PROGRAMMER

Each Signature Series battery tool has programmable features that enhance operator efficiency. Programmable features include:

- Tool speed control from minimum (1,500 rpm) to maximum (2,400 rpm) speed in 50 rpm increments
- Forward/Reverse Mode - Three setting options
- Two-stage trigger delay control
- Screw count / impact count
- Supervisor level "lock-out" control

Additionally, the Signature Series battery tool has an integrated mini USB connector that couples to the Signature Series Programmer module. Simply connect the tool to the Programmer Module and flash the tool to the desired RPM. The programmed RPM will remain until a change is desired.



SPC-2PGM

## TOOL BASKETS



21226

AIMCO tool baskets can be affixed to a bench or rack and can be used for either a pistol or right angle tool.

# Signature Series

Signature Series tools can be adapted to a wide range of application-specific configurations. Contact your AIMCO Customer Service Associate for assistance, 1-503-254-6600, or toll free 1-800-852-1368.

# ELECTRIC SCREWDRIVERS

## Electra<sup>®</sup> SERIES

- Available in push-to-start and lever start styles
- Ergonomic design – Lightweight, compact housings ensure operator comfort during operation
- Accurate torque control – Precise controlled fastening with automatic shut-off clutches
- External brush replacement – Virtually no down time for brush replacement
- External torque adjustment – Torque level can be easily adjusted by simply turning the external adjustment ring



- UL Listed and CE Certified – Drivers meet electrical safety standards in both the U.S. and Europe
- Direct plug-in style – Offers easy and convenient start-up (certain models), simply plug it in
- State-of-the-art motor design – Ensures comfortable grip temperature for operator and extended motor life

### Electra<sup>®</sup> Series Specifications

| MODEL  | TORQUE RANGE |             | FREE SPEED<br>RPM | WEIGHT |     | LENGTH |     | HEX DRIVE |     | POWER SOURCE                             |
|--|--------------|-------------|-------------------|--------|-----|--------|-----|-----------|-----|--|
|  | IN-LB        | KGF-CM      |                   | LB     | KG  | IN     | MM  | IN        | MM  |  |
| <b>Push-To-Start Direct Plug-In Series</b>                               |              |             |                   |        |     |        |     |           |     |  |
| AE-5681<br>(Includes torque cover)                                       | 3.5 - 15.6   | 4 - 18.0    | 1,000             | 1.2    | 0.5 | 9.3    | 237 | 1/4       | 6.4 | 115V AC*                                 |
| AE-8681<br>(Includes pistol grip handle adapter)                         | 15 - 45      | 23.0 - 51.8 | 600               | 1.6    | 0.7 | 10.6   | 269 | 1/4       | 6.4 | 115V AC*                                 |
| <b>Low-Voltage Lever Start Series (Requires External Power Supply)</b>   |              |             |                   |        |     |        |     |           |     | <b>POWER SUPPLY:</b>                     |
| AE-2020  | .35 - 1.3    | .40 - 1.5   | 720               | 0.7    | 0.3 | 8.0    | 203 | 1/4       | 6.4 | See page 135 for required power supplies |
| AE-4020  | .9 - 5       | 1.0 - 6.0   | 720               | 0.7    | 0.3 | 8.0    | 203 | 1/4       | 6.4 |  |
| AE-4520  | 1.3 - 8.7    | 1.5 - 10.0  | 720               | 0.7    | 0.3 | 8.0    | 203 | 1/4       | 6.4 |  |
| AE-7010  | 6.1 - 17.4   | 7.0 - 20.0  | 750               | 1.4    | 0.6 | 9.3    | 236 | 1/4       | 6.4 |  |
| AE-8010  | 10.4 - 26.0  | 12.0 - 29.9 | 550               | 1.4    | 0.6 | 9.3    | 236 | 1/4       | 6.4 |  |
| <b>Low-Voltage Push-To-Start Series (Requires External Power Supply)</b> |              |             |                   |        |     |        |     |           |     | <b>POWER SUPPLY:</b>                     |
| AE-7010PS  | 6.1 - 17.4   | 7.0 - 20.0  | 750               | 1.4    | 0.6 | 9.3    | 236 | 1/4       | 6.4 | See page 135 for                         |
| AE-8010PS  | 10.4 - 26.0  | 12.0 - 29.9 | 550               | 1.4    | 0.6 | 9.3    | 236 | 1/4       | 6.4 | power supplies                           |

\* 220V AC is available upon request. Contact AIMCO at 1-503-254-6600, or toll free 1-800-852-1368.

## ELECTRA<sup>®</sup> LOW ESD SERIES

- Grounded bit – Grounded chuck assembly routes any existing charge to ground
- Carbonized housing – Handle material and buttons are constructed of carbonized plastic throughout, enabling any charge received by the handle to be routed to ground
- Long-Lasting ESD resistant handle – Material will maintain its integrity for the life of the handle, unlike coatings or paints



### Electra<sup>®</sup> Low ESD Series Specifications

| MODEL       | TORQUE RANGE |            | FREE SPEED<br>RPM | WEIGHT |     | LENGTH |     | HEX DRIVE |     | POWER SOURCE |
|-------------|--------------|------------|-------------------|--------|-----|--------|-----|-----------|-----|--------------|
|             | IN-LB        | KGF-CM     |                   | LB     | KG  | IN     | MM  | IN        | MM  |              |
| AE-4520ESD* | 1.3 - 8.7    | 1.5 - 10.0 | 720               | 0.9    | 0.4 | 8.0    | 204 | 1/4       | 6.4 | 35V DC       |
| AE-5681ESD  | 3.5 - 15.6   | 4 - 18.0   | 1,000             | 1.2    | 0.5 | 9.3    | 237 | 1/4       | 6.4 | 115V AC**    |

\* Low-voltage units require an external power supply.

\*\* 220V AC is available upon request. Contact AIMCO at 1-503-254-6600, or toll free 1-800-852-1368.

# ELECTRIC SCREWDRIVERS

## ELECTRA® SLIP CLUTCH SERIES

- High-speed performance – For quick and consistent assembly and disassembly
- Maximum ergonomics and convenience – Offers a combination of a slip clutch with a high speed motor to provide low torque reaction; one of the best power-to-weight ratios in the industry
- Added maintenance feature – LED light indicates when to change brushes. Brush cap contains a switch that shuts off the power during brush replacement
- Direct 110V plug-in – Eliminates the need for an external power supply



AE-2015



- 1/4" hex quick change chuck for easy bit changes
- External torque collar for easy torque adjustment.

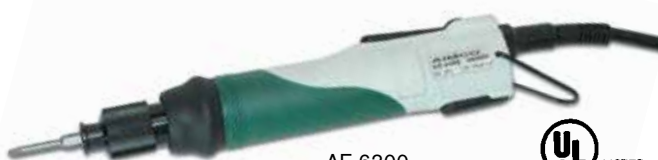
### Electra® Slip Clutch Series Specifications

| MODEL   | RECOMMENDED TORQUE RANGE |            | FREE SPEED<br>RPM | WEIGHT |     | LENGTH |     | HEX DRIVE |     | POWER SOURCE     |
|---------|--------------------------|------------|-------------------|--------|-----|--------|-----|-----------|-----|------------------|
|         | IN-LB                    | KG-F-CM    |                   | LB     | KG  | IN     | MM  | IN        | MM  |                  |
| AE-2015 | 4.3 - 21.7               | 5.0 - 25.0 | 1,000             | 1.2    | .55 | 9.2    | 234 | 1/4       | 6.4 | 110 V / 120V AC* |

\*\* 220V AC is available upon request. Contact AIMCO at 1-503-254-6600, or toll free 1-800-852-1368.

## PRECISION SERIES

- For low torque applications
- Featuring ergonomic design
- Comes with options such as long-life brushless motors and adjustable speed power supplies



AE-6300  
AE-6450



## STANDARD MODELS

- Optional speed control power supply – Enables infinite control from 20% to 100% of maximum tool speed and adjustable soft start to minimize cross threading
- Ergonomic housing – Oval shape conforms to hand
- Duralite – Casing material provides a secure grip
- Feather touch integrated lever reduces travel and stress. Requires only 2 mm of travel to activate
- External torque control – Twist and go

## EXTENDED LIFE MODELS

- Sealed Swiss motor – For higher duty cycles, longer life, and less maintenance. Sealed casing means no brush changes are necessary
- Extended warranty on tool motor – Three year standard motor warranty
- Compact power supply – Makes setup a breeze

### Precision Series Specifications

| MODEL                | TORQUE RANGE |            | FREE SPEED<br>RPM | WEIGHT |     | LENGTH |     | HEX DRIVE<br>IN |  |
|----------------------|--------------|------------|-------------------|--------|-----|--------|-----|-----------------|--|
|                      | IN-LB        | KG-F-CM    |                   | LB     | KG  | IN     | MM  |                 |  |
| <b>Standard</b>      |              |            |                   |        |     |        |     |                 |  |
| AE-6300              | .85 - 5.0    | 1.0 - 5.8  | 725               | 0.9    | 0.4 | 8.5    | 216 | 1/4             |  |
| AE-6450              | 1.3 - 8.7    | 1.5 - 10.0 | 770               | 0.9    | 0.4 | 8.5    | 216 | 1/4             |  |
| <b>High Speed</b>    |              |            |                   |        |     |        |     |                 |  |
| AE-6300S             | .35 - 4.3    | 0.4 - 5.0  | 920               | 0.9    | 0.4 | 8.5    | 216 | 1/4             |  |
| AE-6450S             | 1.3 - 8.7    | 1.5 - 10.0 | 920               | 0.9    | 0.4 | 8.5    | 216 | 1/4             |  |
| <b>Extended Life</b> |              |            |                   |        |     |        |     |                 |  |
| AE-6300M             | 1.0 - 5.5    | 1.1 - 6.3  | 550               | 0.9    | 0.4 | 8.5    | 216 | 1/4             |  |

# ELECTRIC SCREWDRIVERS

## Electra® Series Accessories – Power Supplies



AE-224PS  
AE-278PS

APM-30

| MODEL    | COMPATIBLE SCREWDRIVERS                                   |  | TOOL RPM | VOLTAGE CONVERSION          | DIMENSIONS                          | WEIGHT |     |
|----------|---|--|----------|-----------------------------|-------------------------------------|--------|-----|
|          | LB  | KG   |          |                             |                                     |        |     |
| AE-224PS | AE-2020<br>AE-2020ESD<br>AE-4020<br>AE-4520<br>AE-4520ESD | AE-6300<br>AE-6300S<br>AE-6450<br>AE-6450S | 720      | 110V AC - 220V AC<br>35V DC | 2.6 x 1.6 x 5.0<br>66 x 41 x 127 mm | 1.0    | .45 |
| AE-278PS | AE-7010<br>AE-7010PS                                      | AE-8010<br>AE-8010PS                       | STANDARD | 110V AC - 220V AC<br>30V DC | 1.6 x 5.0 x 2.6<br>41 x 127 x 66 mm | 1.0    | .45 |
| APM-30   | AE-6300M  |  | 550      | 110V AC - 220V AC<br>30V DC | 2.1 x 3.4 x 1.9<br>53 x 87 x 48 mm  | 0.4    | 0.2 |



## DIGITAL FASTENING COUNTER

The AM Series fastener counter verifies and error-proofs the assembly process.

- Buzzer notifies of missing screws, incomplete fastening, and thread damage
- Counts up to 60,000 units and up to 99 screws per unit
- Connects easily to automation equipment using standard input/output signals
- Large LCD screen is easy to read. A green screen indicates OK fastening, a red screen indicates NG

| MODEL | COMPATIBLE SCREWDRIVERS                                 |
|-------|---|
| AM-45 | For AE-2020, AE-4020, AE-4520<br>Standard and ESD types |
| AM-65 | For AE-7010, AE-7010PS, AE-8010<br>and AE-8010PS        |

## OPTIONAL ACCESSORIES



### Angle Head Attachments

Available for lever start series.  
Not available for Low ESD Series.



### Pistol Grip Handle

Converts to a pistol style driver for horizontal fastening. Available for Trigger Start only (included with AE-8681).



### Torque Cover

Prevents accidental torque adjustment by the operator (included with AE-5681).

| ITEM                   | MODEL     | COMPATIBLE SCREWDRIVERS                    |
|------------------------|-----------|--|
| Angle Head Attachments | AE-2045A  | For AE-2020, AE-4020, AE-4520              |
|                        | AE-7080A  | For AE-7010, AE-8010                       |
| Pistol Grip Handle     | AE-PG7080 | For AE-7010, AE-7010PS, AE-8010, AE-8010PS |
| Torque Cover           | AE-TC2040 | For AE-2020, AE-4020, AE-4520              |
|                        | AE-TC7080 | For AE-7010, AE-7010PS, AE-8010, AE-8010PS |
|                        | 4H2055    | For AE-8681                                |

# IMPACT TOOLS

## UW-SERIES IMPACT TOOLS

UW-Series impact tools offer fast, economical operation in high-volume heavy assembly applications.



UW-6SLRDK  
UW-6SLRK



UW-61ERK



UW-8SHRK



UW-9SRK



UW-10SHRK



UW-13SRK



UW-131ERK

## Twin Hammer Pistol 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-6SLRDK | 6        | 1/4  | 6.9 - 18              | 5 - 13   | 8,500     | 175            | 6.9 | 1.0    | 2.1 | 31.0                   | 1.2 | 1/4 Hex                | 91                | 12.4                    |
| UW-6SLRK  | 6        | 1/4  | 7.8 - 19              | 6 - 14   | 8,500     | 175            | 6.9 | 1.0    | 2.1 | 31.0                   | 1.2 | 1/4 Sq.                | 92                | 12.4                    |
| UW-61ERK  | 8        | 5/16 | 14 - 40               | 10 - 30  | 7,300     | 150            | 5.9 | 1.5    | 3.3 | 29.5                   | 1.2 | 3/8 Sq.                | 91                | 12.4                    |
| UW-8SHRK  | 8        | 5/16 | 18 - 40               | 13 - 30  | 7,300     | 172            | 6.8 | 1.6    | 3.4 | 31.0                   | 1.2 | 1/2 Sq.                | 93                | 14.0                    |
| UW-9SRK   | 10       | 3/8  | 35 - 87               | 26 - 64  | 7,000     | 178            | 7.0 | 1.8    | 3.9 | 34.0                   | 1.3 | 1/2 Sq.                | 93                | 16.0                    |
| UW-10SHRK | 12       | 1/2  | 47 - 170              | 35 - 125 | 6,000     | 183            | 7.2 | 2.1    | 4.7 | 30.5                   | 1.4 | 1/2 Sq.                | 95                | 16.0                    |
| UW-13SRK  | 13       | 1/2  | 88 - 250              | 65 - 184 | 6,000     | 215            | 8.5 | 2.6    | 5.7 | 37.5                   | 1.5 | 1/2 Sq.                | 95                | 16.0                    |
| UW-131ERK | 13       | 1/2  | 84 - 260              | 62 - 192 | 5,500     | 205            | 8.1 | 3.0    | 6.5 | 37.5                   | 1.5 | 1/2 Sq.                | 97                | 19.4                    |

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.



UW-6SSLRDK



UW-6SSHRDK  
UW-6SSHRK



UW-13SSK



UW-401L

## Twin Hammer Inline 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-6SSRK   | 6        | 1/4   | 9.8 - 26              | 7 - 19      | 7,500     | 225            | 8.9  | 1.0    | 2.1  | 29.5                   | 1.2 | 3/8 Sq.                | 91                | 10.5                    |
| UW-6SSLRDK | 6        | 1/4   | 6.9 - 18              | 5 - 13      | 8,500     | 239            | 9.4  | 0.9    | 1.9  | 31.0                   | 1.3 | 1/4 Hex                | 91                | 10.5                    |
| UW-6SSHRDK | 8        | 5/16  | 15 - 30               | 11 - 22     | 7,300     | 249            | 9.8  | 1.3    | 2.8  | 27.5                   | 1.1 | 1/4 Hex                | 91                | 12.4                    |
| UW-6SSHRK  | 8        | 5/16  | 22 - 50               | 16 - 37     | 7,300     | 249            | 9.8  | 1.3    | 2.8  | 27.5                   | 1.1 | 3/8 Sq.                | 91                | 12.4                    |
| UW-13SSK   | 13       | 1/2   | 89 - 250              | 66 - 184    | 6,300     | 281            | 11.1 | 3.2    | 7.0  | 39.0                   | 1.5 | 1/2 Sq.                | 97                | 19.4                    |
| UW-401     | 38       | 1-1/2 | 880 - 2,500           | 649 - 1,844 | 3,200     | 494            | 19.5 | 15.1   | 33.2 | 62.5                   | 2.5 | 1 Sq.                  | 110               | 42.4                    |
| UW-401L    | 38       | 1-1/2 | 790 - 2,300           | 583 - 1,696 | 3,200     | 654            | 25.8 | 16.5   | 36.3 | 62.5                   | 2.5 | 1 Sq.                  | 110               | 42.4                    |

Air Hose Size: 3/8" I.D., 1/2" I.D. for UW-401 and UW-401L models 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.

### Impact Tools Model Number Key

UW-\_SH = Pistol grip  
UW-\_SSH = Straight handle  
UW-\_CSH = Angle head  
UW-\_P = Pistol grip for 140 and 381 series

+

L = Long anvil  
R = Rear exhaust

+

K = Lightweight  
DK = Driver-type anvil, lightweight



# IMPACT TOOLS



UW-6CSHRK



UW-13CSK

## 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  | 275                    | 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.



UW-140P(WR)



UW-220P  
UW-220PL



UW-251P



UW-381  
UW-381L



UW-381P

## Swing Hammer 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-140P(WR) | 12       | 1/2   | 70 - 210              | 52 - 155      | 6,500     | 200            | 7.9   | 2.7    | 5.9  | 33.0                   | 1.3 | 1/2 Sq.                | 93                | 25.0                    |
| UW-220P     | 19       | 3/4   | 300 - 700             | 221 - 516     | 5,500     | 230            | 9.1   | 2.8    | 9.6  | 42.0                   | 1.7 | 3/4 Sq.                | 95                | 25.0                    |
| UW-220PL    | 19       | 3/4   | 300 - 700             | 221 - 516     | 5,500     | 350            | 13.8  | 4.4    | 10.3 | 42.0                   | 1.7 | 3/4 Sq.                | 95                | 25.0                    |
| UW-251P     | 25       | 1     | 600 - 1,000           | 443 - 738     | 5,500     | 276            | 10.9  | 8.0    | 17.6 | 55.0                   | 2.0 | 1 Sq.                  | 95                | 28.0                    |
| UW-381      | 38       | 1-1/2 | 760 - 2,000           | 561 - 1,475   | 4,700     | 395            | 115.6 | 9.5    | 20.9 | 58.5                   | 2.3 | 1 Sq.                  | 100               | 31.5                    |
| UW-381L     | 38       | 1-1/2 | 1,400 - 2,000         | 1,033 - 1,475 | 4,700     | 543            | 21.4  | 10.0   | 20.9 | 58.5                   | 2.3 | 1 Sq.                  | 100               | 31.5                    |
| UW-381P     | 38       | 1-1/2 | 760 - 2,000           | 561 - 1,475   | 4,700     | 276            | 10.9  | 10.0   | 20.9 | 58.5                   | 2.3 | 1 Sq.                  | 99                | 31.5                    |

Air Hose Size: 3/8" for UW-140P(WR)

1/2" I.D. for other models

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

Air Inlet: N.P.T. 1/4" for UW-140P(WR)

N.P.T. 3/8" for UW-220P and UW-251P series

N.P.T. 1/2" for UW-381 series



UW-550



UW-75S

## Twin Hammer Jumbo 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-550 | 55       | 2-1/4 | 2,500 - 5,800         | 1,844 - 4,278  | 3,500     | 525            | 20.7 | 36.0   | 79.0  | 78.0                   | 3.1 | 1-1/2 Sq.              | 112               | 79.0                    |
| UW-75S | 76       | 3     | 7,800 - 17,000        | 5,753 - 12,539 | 1,400     | 670            | 26.4 | 56.0   | 123.0 | 96.0                   | 3.8 | 1-1/2 Sq.              | 112               | 114.0                   |

Air Hose Size: 3/4" I.D.

Air Inlet: N.P.T. 1"

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

## Stud Bolt Wrench

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-ST6SHK | 8        | 5/16 | 22 - 49               | 16 - 36 | 6,500     | 170            | 6.7 | 1.7    | 3.7 | 24.0                   | 1.0 | 3/8 Sq.                | 92                | 14.0                    |

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.



UW-ST6SHK

# GRINDERS



UAG-40SBL-136



UAG-50SBL-109  
UAG-50SBL-120



UAG-70SBL-76

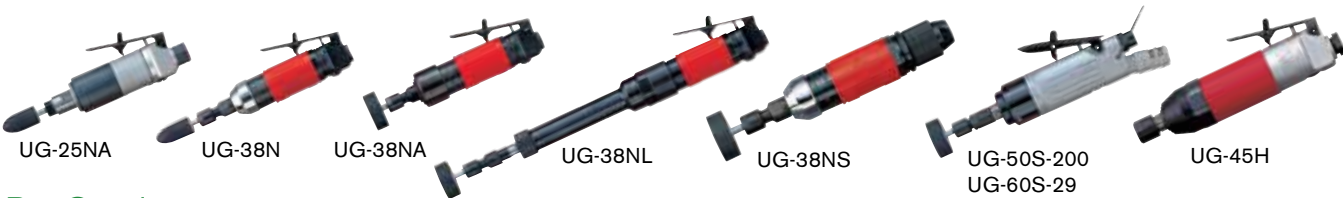


UAG-90SBL-59

## Angle Grinders

Recommended Air Pressure: 85 psi

| MODEL*        | CAPACITY<br>(WHEEL SIZE) |    | SPEED<br>RPM | RATED<br>HORSEPOWER<br>HP | OVERALL<br>LENGTH |      | OVERALL<br>HEIGHT |     | WEIGHT |     | NOISE<br>LEVEL<br>dB(A) | AVERAGE AIR<br>CONSUMPTION<br>CFM |
|---------------|--------------------------|----|--------------|---------------------------|-------------------|------|-------------------|-----|--------|-----|-------------------------|-----------------------------------|
|               | IN                       | IN |              |                           | MM                | IN   | MM                | IN  | KG     | LB  |                         |                                   |
| UAG-40SBL-136 | 4                        |    | 13,600       | 1.0                       | 246               | 9.7  | 76                | 3.0 | 1.3    | 2.9 | 84                      | 34.0                              |
| UAG-50SBL-109 | 5                        |    | 10,900       | 1.0                       | 246               | 9.7  | 76                | 3.0 | 1.4    | 3.1 | 82                      | 34.0                              |
| UAG-50SBL-120 | 5                        |    | 12,000       | 1.0                       | 246               | 9.7  | 76                | 3.0 | 1.4    | 3.1 | 82                      | 34.0                              |
| UAG-70SBL-76  | 7                        |    | 7,600        | 2.0                       | 300               | 11.8 | 98                | 3.9 | 2.9    | 6.4 | 83                      | 57.0                              |
| UAG-90SBL-59  | 9                        |    | 5,900        | 2.5                       | 308               | 12.1 | 98                | 3.9 | 3.3    | 7.3 | 88                      | 67.0                              |



## Die Grinders

Recommended Air Pressure: 85 psi

| MODEL*     | COLLET<br>CHUCK SIZE |    | SPEED<br>RPM | RATED<br>HORSEPOWER<br>HP | OVERALL LENGTH |      | WEIGHT |     | NOISE LEVEL<br>dB(A) | AVERAGE AIR<br>CONSUMPTION<br>CFM |
|------------|----------------------|----|--------------|---------------------------|----------------|------|--------|-----|----------------------|-----------------------------------|
|            | IN                   | IN |              |                           | MM             | IN   | KG     | LB  |                      |                                   |
| UG-25NA    | 1/4                  |    | 23,500       | 0.3                       | 153            | 6.0  | 0.5    | 1.2 | 82                   | 10.7                              |
| UG-38N     | 1/4                  |    | 25,000       | 0.4                       | 164            | 6.5  | 0.6    | 1.3 | 85                   | 10.7                              |
| UG-38NA    | 1/4                  |    | 22,000       | 0.4                       | 165            | 6.5  | 0.7    | 1.4 | 75                   | 14.0                              |
| UG-38NL    | 1/4                  |    | 21,000       | 0.4                       | 317            | 12.5 | 0.9    | 2.0 | 85                   | 10.7                              |
| UG-38NS    | 1/4                  |    | 25,000       | 0.4                       | 174            | 6.8  | 0.6    | 1.3 | 85                   | 10.7                              |
| UG-50S-200 | 1/4                  |    | 23,000       | 0.3                       | 198            | 7.8  | 0.6    | 1.3 | 73                   | 14.0                              |
| UG-45H     | 1/4                  |    | 18,000       | 0.5                       | 196            | 7.7  | 0.8    | 1.8 | 76                   | 22.0                              |
| UG-60S-29* | 1/4                  |    | 2,900        | 0.5                       | 227            | 8.9  | 1.1    | 2.3 | 77                   | 18.0                              |

\* UG-60S-29 includes spanner wrench to tighten collet

## Mini Angle Die Grinders

Recommended Air Pressure: 85 psi

| MODEL*      | COLLET<br>CHUCK SIZE |    | SPEED<br>RPM | RATED<br>HORSEPOWER<br>HP | OVERALL LENGTH |     | OVERALL HEIGHT |     | WEIGHT<br>KG LB | NOISE<br>LEVEL<br>dB(A) | AVERAGE AIR<br>CONSUMPTION<br>CFM |      |
|-------------|----------------------|----|--------------|---------------------------|----------------|-----|----------------|-----|-----------------|-------------------------|-----------------------------------|------|
|             | IN                   | IN |              |                           | MM             | IN  | MM             | IN  |                 |                         |                                   |      |
| UG-20A-200  | 1/4                  |    | 20,000       | 0.2                       | 131            | 5.2 | 80             | 3.2 | 0.5             | 1.1                     | 75                                | 10.7 |
| UG-20A-120  | 1/4                  |    | 12,000       | 0.2                       | 131            | 5.2 | 80             | 3.2 | 0.5             | 1.1                     | 76                                | 10.7 |
| UG-50S-200A | 1/4                  |    | 20,000       | 0.3                       | 195            | 7.7 | 87             | 3.4 | 0.9             | 2.0                     | 75                                | 14.0 |



UG-50S-200A



UG-65EB

UG-65EBL



UG-650EL

## Lightweight Grinders

Recommended Air Pressure: 85 psi

| MODEL*   | CAPACITY<br>(WHEEL SIZE) |    | SPEED<br>RPM | RATED<br>HORSEPOWER<br>HP | OVERALL LENGTH |      | WEIGHT |     | NOISE LEVEL<br>dB(A) | AVERAGE AIR<br>CONSUMPTION<br>CFM |
|----------|--------------------------|----|--------------|---------------------------|----------------|------|--------|-----|----------------------|-----------------------------------|
|          | IN                       | IN |              |                           | MM             | IN   | KG     | LB  |                      |                                   |
| UG-65EB  | 2.5                      |    | 14,600       | 0.6                       | 242            | 9.8  | 1.3    | 2.8 | 95                   | 22.0                              |
| UG-65EBL | 2.5                      |    | 14,600       | 0.6                       | 272            | 10.7 | 1.4    | 3.1 | 95                   | 22.0                              |
| UG-650EL | 2.5                      |    | 14,600       | 0.6                       | 420            | 16.5 | 1.6    | 3.4 | 85                   | 22.0                              |

## Horizontal Grinder

Recommended Air Pressure: 85 psi

| MODEL       | CAPACITY<br>(WHEEL SIZE) |    | SPEED<br>RPM | RATED<br>HORSEPOWER<br>HP | OVERALL LENGTH |      | WEIGHT |     | NOISE<br>LEVEL<br>dB(A) | AVERAGE AIR<br>CONSUMPTION<br>CFM |
|-------------|--------------------------|----|--------------|---------------------------|----------------|------|--------|-----|-------------------------|-----------------------------------|
|             | IN                       | IN |              |                           | MM             | IN   | KG     | LB  |                         |                                   |
| UG-1250L-72 | 5                        |    | 7,200        | 1.0                       | 436            | 17.2 | 2.8    | 6.2 | 88                      | 32.7                              |



UG-1250L-72

\*Air Hose Size: 3/8" I.D. - 1/2" I.D. (UG-1250L-72) Air Inlet: N.P.T. 1/4" - N.P.T. 3/8" (UAG-90SBL-59 and UG-1250L-72)

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

# SANDERS AND DRILLS

## Sander

Recommended Air Pressure: 85 psi

| MODEL   | CAPACITY<br>(WHEEL SIZE) |  | SPEED<br>RPM | RATED<br>HORSEPOWER<br>HP | OVERALL<br>LENGTH |     | WEIGHT |     | NOISE<br>LEVEL<br>dB(A) | AVERAGE AIR<br>CONSUMPTION<br>CFM |
|---------|--------------------------|--|--------------|---------------------------|-------------------|-----|--------|-----|-------------------------|-----------------------------------|
|         | IN                       |  |              |                           | MM                | IN  | KG     | LB  |                         |                                   |
| UP-25DB | 5                        |  | 10,000       | 0.3                       | 212               | 8.3 | 1.7    | 3.7 | 73                      | 7.0                               |



UP-25DB

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.



UD-50-22  
UD-50-200



UD-50-45



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-60S-15  
UD-60S-29



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



UD-60S-15C  
UD-60S-29C

## Drills

Recommended Air Pressure: 85 psi

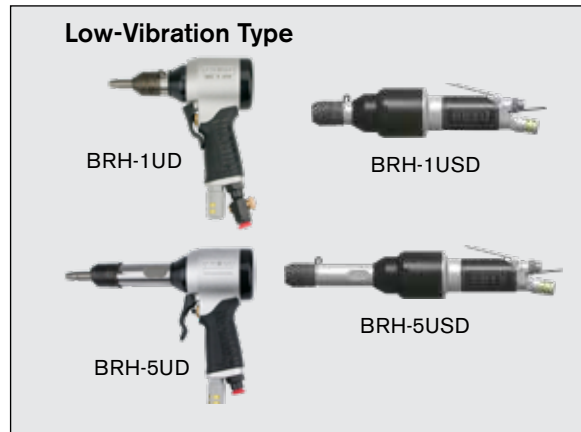
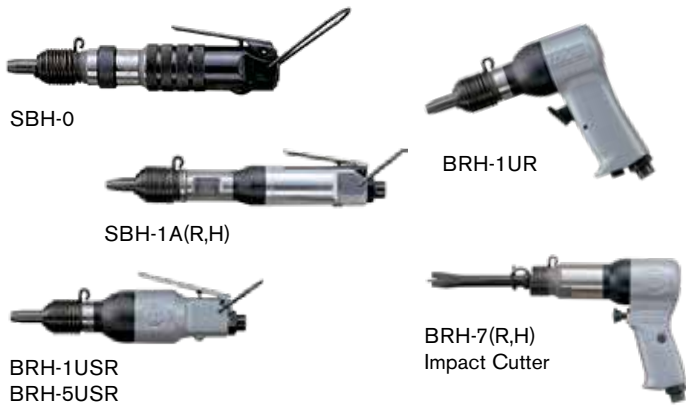
| MODEL         | CAPACITY |      | SPEED<br>RPM | OVERALL<br>LENGTH |      | WEIGHT WITH<br>CHUCK |      | FROM CENTER TO<br>OUTSIDE |     | NOMINAL<br>CHUCK SIZE<br>IN | TYPE OF<br>SPINDLE<br>IN-THR'D | NOISE<br>LEVEL<br>dB(A) | AVERAGE AIR<br>CONSUMPTION<br>CFM |
|---------------|----------|------|--------------|-------------------|------|----------------------|------|---------------------------|-----|-----------------------------|--------------------------------|-------------------------|-----------------------------------|
|               | MM       | IN   |              | MM                | IN   | KG                   | LB   | MM                        | IN  |                             |                                |                         |                                   |
| <b>Pistol</b> |          |      |              |                   |      |                      |      |                           |     |                             |                                |                         |                                   |
| UD-50-200     | 3        | 1/8  | 23,000       | 135               | 5.3  | 0.7                  | 1.5  | 21.0                      | 0.8 | 5/16                        | 3/8-24UNF                      | 73                      | 14                                |
| UD-50-45      | 6        | 1/4  | 5,000        | 145               | 5.7  | 0.9                  | 1.9  | 21.0                      | 0.8 | 5/16                        | 3/8-24UNF                      | 72                      | 14                                |
| UD-50-22      | 8        | 5/16 | 2,200        | 140               | 5.5  | 0.9                  | 2.0  | 21.0                      | 0.8 | 5/16                        | 3/8-24UNF                      | 72                      | 14                                |
| UD-60-29      | 8        | 5/16 | 2,900        | 167               | 6.6  | 1.1                  | 2.4  | 22.5                      | 0.9 | 5/16                        | 3/8-24UNF                      | 77                      | 18                                |
| UD-60-20      | 8        | 5/16 | 2,000        | 180               | 7.1  | 1.2                  | 2.6  | 22.5                      | 0.9 | 5/16                        | 3/8-24UNF                      | 77                      | 18                                |
| UD-60-15      | 8        | 5/16 | 1,600        | 180               | 7.1  | 1.2                  | 2.6  | 22.5                      | 0.9 | 5/16                        | 3/8-24UNF                      | 76                      | 18                                |
| UD-60-07      | 13       | 1/2  | 700          | 219               | 8.6  | 1.4                  | 3.1  | 22.5                      | 0.9 | 1/2                         | 1/2-20UNF                      | 75                      | 18                                |
| UD-60-04      | 13       | 1/2  | 500          | 220               | 8.6  | 1.4                  | 3.1  | 22.5                      | 0.9 | 1/2                         | 1/2-20UNF                      | 75                      | 18                                |
| UD-80-12      | 13       | 1/2  | 1,200        | 216               | 8.5  | 1.8                  | 4.0  | 26.0                      | 1.0 | 1/2                         | 1/2-20UNF                      | 79                      | 23                                |
| UD-80-07      | 13       | 1/2  | 700          | 239               | 9.4  | 2.3                  | 5.1  | 26.0                      | 1.0 | 1/2                         | 1/2-20UNF                      | 79                      | 23                                |
| UD-80-04      | 16       | 5/8  | 400          | 247               | 9.7  | 2.9                  | 6.4  | 26.0                      | 1.0 | 5/8                         | 5/8-16UNF                      | 79                      | 23                                |
| <b>Inline</b> |          |      |              |                   |      |                      |      |                           |     |                             |                                |                         |                                   |
| UD-50S-45     | 6        | 1/4  | 5,000        | 210               | 8.3  | 0.9                  | 1.9  | 21.0                      | 0.8 | 5/16                        | 3/8-24UNF                      | 77                      | 14                                |
| UD-50S-22     | 8        | 5/16 | 2,200        | 205               | 8.1  | 0.8                  | 1.8  | 21.0                      | 0.8 | 5/16                        | 3/8-24UNF                      | 77                      | 14                                |
| UD-60S-29     | 8        | 5/16 | 2,900        | 227               | 8.9  | 1.1                  | 2.3  | 22.5                      | 0.9 | 5/16                        | 3/8-24UNF                      | 77                      | 18                                |
| UD-60S-15     | 8        | 5/16 | 1,600        | 238               | 9.4  | 1.2                  | 2.5  | 22.5                      | 0.9 | 5/16                        | 3/8-24UNF                      | 77                      | 18                                |
| <b>Angle</b>  |          |      |              |                   |      |                      |      |                           |     |                             |                                |                         |                                   |
| UD-50S-45A    | 4        | #8   | 5,000        | 253               | 10   | 0.9                  | 1.98 | 21.0                      | 0.8 | -                           | 1/4-28UNF                      | 79                      | 14                                |
| UD-50S-45A*   | 4        | #8   | 5,000        | 253               | 10   | 0.9                  | 1.98 | 21.0                      | 0.8 | -                           | 1/4-28UNF                      | 79                      | 14                                |
| UD-60S-29C    | 8        | 5/16 | 2,900        | 276               | 10.9 | 1.5                  | 3.3  | 22.5                      | 0.9 | 5/16                        | 3/8-24UNF                      | 79                      | 18                                |
| UD-60S-15C    | 8        | 5/16 | 1,600        | 283               | 11.1 | 1.6                  | 3.5  | 22.5                      | 0.9 | 5/16                        | 3/8-24UNF                      | 79                      | 18                                |

\* UD-50S-45A\* comes with a cone jaw chuck installed.

Air Hose Size: 3/8" I.D. Air Inlet: N.P.T. 1/4"

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

# PERCUSSION TOOLS

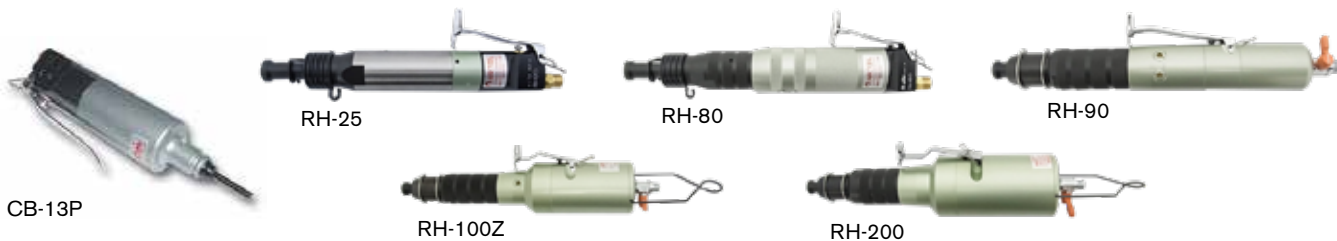


## Riveting Hammers / Impact Cutter

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                   | #5           | #3       | 2,800             | 122            | 4.9  | 1.1    | 2.4 | 14.3            | 0.6 | 38            | 1.5 | 95                | 12.0                        |
| BRH-5UD                   | 1/4          | #10      | 1,800             | 189            | 7.4  | 1.4    | 3.1 | 12.7            | 0.5 | 100           | 4.0 | 95                | 13.0                        |
| BRH-1USD                  | #5           | #3       | 2,800             | 143            | 5.6  | 1.4    | 3.1 | 14.3            | 0.6 | 38            | 1.5 | 95                | 12.0                        |
| 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



## 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  |
| CB-13P  | 1.7           | 4.04 x 9.86               | -              | -     | 3.0    | 0.12 | 185    | 7.3  | 0.7    | 0.3 |
| 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.

# SCREW PRESENTERS: OVERVIEW

*For semi-automated assembly, look no further – AIMCO's Acra-Feed screw presenters provide:*

## PRODUCTIVITY

- 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
- Quick feed rate from oscillating hopper design – up to two (2) screws per second
- Large hopper holds approximately 1,000 – 1,500 fasteners
- Solid design – no tie downs or straps required

## FLEXIBILITY

- Perfect for contract or dedicated assembly
- Switch rails in minutes for different screw sizes

## ERGONOMICS

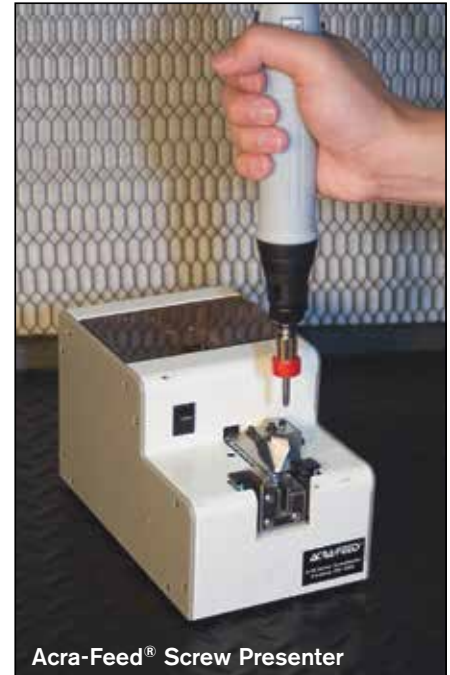
- Allows for fewer arm and hand movements

## RELIABILITY

- Heavy duty industrial design
- Modular design for easy repairs

## QUALITY

- Uses existing or our new torque control drivers
- Keeps stray fasteners from getting into assemblies



Acra-Feed® Screw Presenter

# ACRA-FEED®

## 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.

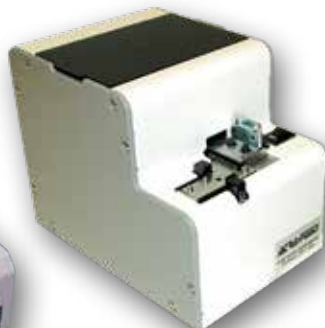


**3** Bring screw to workpiece and fasten parts.

# A-50 SCREW PRESENTERS



A-50BRBT-1  
Robotic Screw  
Presenter



A-50BRBTC-4  
Compact Robotic  
Screw Presenter



A-50B-1  
Standard Screw Presenter

## Standard Screw Presenters

| MODEL     | ADDITIONAL RAIL<br>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.

## Robotic Screw Presenters

| MODEL       | ADDITIONAL RAIL<br>PART NO. | SCREW SIZE |     | MAX SCREW LENGTH |    |
|-------------|-----------------------------|------------|-----|------------------|----|
|             |                             | IN         | MM  | IN               | MM |
| A-50ARB-0   | AR-RBT-0                    | #0         | 1.4 | .39              | 10 |
| A-50ARB-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-3  | BR-RBT-3                    | #3         | 2.6 | .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.

## Compact Robotic Screw Presenters

| MODEL         | ADDITIONAL RAIL<br>PART NO. | NOMINAL SCREW SIZE |     | MAX SCREW LENGTH |    |
|---------------|-----------------------------|--------------------|-----|------------------|----|
|               |                             | IN                 | MM  | IN               | MM |
| A-50ARBTC-0   | AR-RBTC-0                   | #0                 | 1.4 | .390             | 10 |
| A-50ARBTC-1.7 | AR-RBTC-1.7                 | -                  | 1.7 | .390             | 10 |
| A-50BRBTC-1   | BR-RBTC-1                   | #1                 | 2.0 | .700             | 18 |
| A-50BRBTC-2   | BR-RBTC-2                   | #2                 | 2.3 | .700             | 18 |
| A-50BRBTC-3   | BR-RBTC-3                   | #3                 | 2.6 | .700             | 18 |
| A-50BRBTC-4   | BR-RBTC-4                   | #4                 | 3.0 | .700             | 18 |
| A-50CRBTC-6   | CR-RBTC-6                   | #6                 | 3.5 | .700             | 18 |
| A-50CRBTC-8   | CR-RBTC-8                   | #6-8               | 4.0 | .700             | 18 |
| A-50CRBTC-10  | CR-RBTC-10                  | #10                | 5.0 | .700             | 18 |

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

## Optional Accessories

| MODEL                    | PART NO.                       |
|--------------------------|--------------------------------|
| Mag-O-Net Bit Magnetizer | AM1/4Z, AM5Z, AM3/16Z, AM5/16Z |

## WHICH TO USE...?

### Standard Screw Presenters

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

### Robotic Screw Presenters

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

### Compact Robotic Screw Presenters

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

# 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

- Longest warranty in the industry – 3 years
- 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
- There are more Acra-Feed systems in use than any other system



A2100



A315V

| 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               |
| A315V Series | M2-M5 (#2 - #10)  | 1/4-1        | 6-25 | 450cc (500-2,500 pcs)*     | 60 screws/min*      | 74          | 10 x 21 x 16              |

\* Dependent on screw size

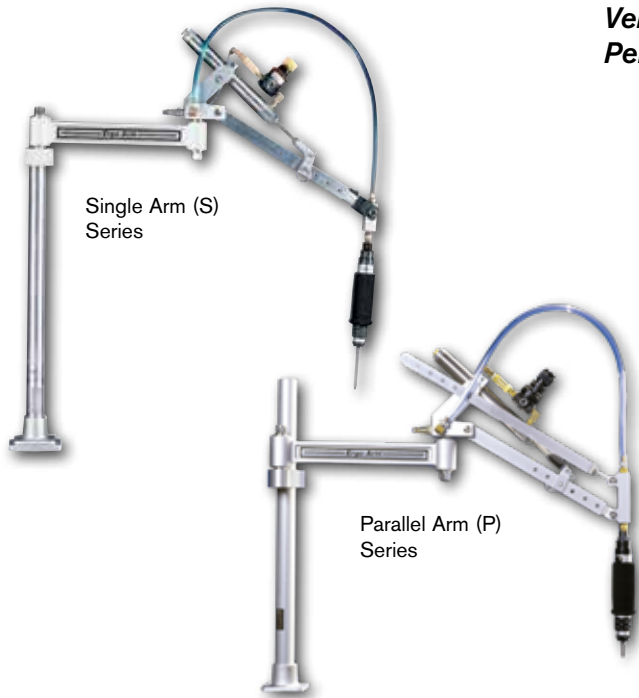
Delivery Hose: 10 ft Air Pressure: 85 psi

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**

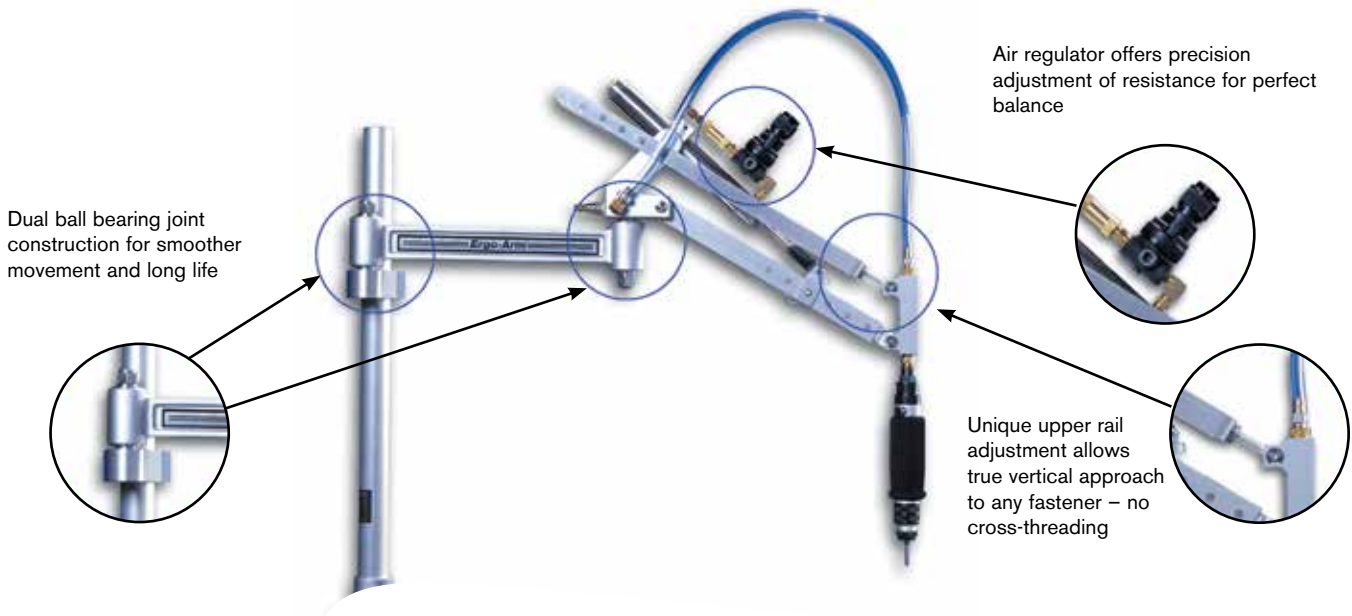
AIMCO's Ergo Arms reduce operator fatigue for electric and pneumatic tools. The versatile, easy-to-assemble kits include both single and parallel rails for customizing tool rigidity to the customer's preference.

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

## SPECIAL FEATURES OF ERGO ARMS





# ERGO ARM TOOL SUPPORT SYSTEMS

## ERGO ARM FEATURES AND BENEFITS



### PARALLEL ARM SERIES

#### AD-D1098-P, AD-D1098-PAC, AD-D1098-PACE

- Allows for freedom of movement
- Vertical adjustment eliminates cross-threading
- Fixtured tool increases repeatability
- Adjustable reach
- Available in air or oil cylinder models
- Electric tool mount standard on PACE model

### SINGLE ARM SERIES

#### AD-D1098-S, AD-D1098-SAC

- Full tool rotation
- Allows for freedom of movement
- Adjustable reach
- Compatible with automatic screw feeder
- Available in air or oil cylinder models

| MODEL                      | ARM STYLE | TOOL MOUNT     | REACH  |           | CAPACITY |       | MAXIMUM TORQUE* |    |
|----------------------------|-----------|----------------|--------|-----------|----------|-------|-----------------|----|
|                            |           |                | IN     | MM        | LB       | KG    | IN-LB           | NM |
| <b>AIR CYLINDER SERIES</b> |           |                |        |           |          |       |                 |    |
| AD-D1098-SAC               | Single    | Air manifold   | 4 - 33 | 102 - 838 | 0 - 15   | 0 - 7 | 110             | 12 |
| AD-D1098-PAC               | Parallel  | Air manifold   | 4 - 33 | 102 - 838 | 0 - 15   | 0 - 7 | 110             | 12 |
| AD-D1098-PACE              | Parallel  | Electric       | 4 - 33 | 102 - 838 | 0 - 15   | 0 - 7 | 110             | 12 |
| <b>OIL CYLINDER SERIES</b> |           |                |        |           |          |       |                 |    |
| AD-D1098-S                 | Single    | Air manifold** | 4 - 33 | 102 - 838 | 0 - 15   | 0 - 7 | 110             | 12 |
| 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

\*\* For single arm electric tool mount, order EAP-202ED-KIT

# LINEAR ARMS

## ALA AND AFA SERIES LINEAR ARMS

### *Ergonomic Support for Electric and Pneumatic Tools Reduces Operator Fatigue*



AIMCO's linear arms are lightweight and designed for smooth and easy handling of electric and pneumatic tools. Arms are available in torque ranges of 5 Nm to 400 Nm and with reaches ranging from 12.5 in. to 36 in.

The ALA Series (AIMCO Linear Arm) is constructed with precision linear slides and bearings for precise tool movements. The AFA Series (AIMCO Folding Arm) is configured with aluminum alloy beams connected by an elbow joint for working with tools in tight spaces.

#### 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

### ALA Series

- Constructed of lightweight aluminum
- Improves fastening quality and productivity
- Maintains Perpendicularity of the tool to the application
- Absorbs torque reaction
- Counterbalances tool mass

### AFA Series

- All features of the ALA Series
- Folding elbow joint allows for closer reach to post for tight workspaces

| MODEL                              | MAX. TORQUE |       | MAX. TOOL WEIGHT |      | REACH    |             | TOOL DIAMETER |           |
|------------------------------------|-------------|-------|------------------|------|----------|-------------|---------------|-----------|
|                                    | NM          | FT-LB | KG               | LB   | MM       | IN          | MM            | IN        |
| <b>ALA Series Linear Arm</b>       |             |       |                  |      |          |             |               |           |
| ALA5-200                           | 5           | 3.7   | 2                | 4.4  | 317- 519 | 12.5 - 20.4 | 23 - 40       | 1.0 - 1.6 |
| ALA15-200                          | 15          | 11.1  | 3                | 6.6  | 317- 519 | 12.5 - 20.4 | 23 - 40       | 1.0 - 1.6 |
| ALA10-400                          | 10          | 7.4   | 2                | 4.4  | 517- 919 | 20.4 - 36.2 | 23 - 40       | 1.0 - 1.6 |
| ALA40-300                          | 40          | 29.5  | 3                | 6.6  | 417- 719 | 16.4 - 28.3 | 32 - 47       | 1.3 - 1.9 |
| ALA200-400                         | 200         | 147.5 | 10               | 22.0 | 517- 919 | 20.4 - 36.2 |               |           |
| ALA400-400                         | 400         | 295   | 20               | 44.0 | 517- 919 | 20.4 - 36.2 |               |           |
| <b>AFA Series With Folding Arm</b> |             |       |                  |      |          |             |               |           |
| AFA5-400                           | 5           | 3.7   | 2                | 4.4  | 0 - 470  | 0 - 18.5    | 23 - 40       | 1.0 - 1.6 |
| AFA15-400                          | 15          | 11.1  | 3                | 6.6  | 0 - 470  | 0 - 18.5    | 23 - 40       | 1.0 - 1.6 |
| AFA10-550                          | 10          | 7.4   | 2                | 4.4  | 0 - 620  | 0 - 24.2    | 23 - 40       | 1.0 - 1.6 |

# JIB ARMS

## ABMJ SERIES BENCH-MOUNT JIB ARMS



**Customize Bench-Mount Jib Arms to Meet all Application Requirements**

AIMCO's Bench Mount Jibs Arms (ABMJ Series) include a jib, two sliding trolleys, and a base – just attach an AIMCO telescopic or anti-rotation torque arm or torque tube for a completely customized system.

### Tools recommended for use with this arm:

- Tool Balancers (ASB/TW Series)
- ACA Series Telescoping Carbon Arms

## FEATURES AND BENEFITS

- Constructed of lightweight aluminum
- Two-Point secure for horizontal job for sound structure and safety
- Includes 2 sliding trolleys and base plate for easy mounting
- As many as 4 beams can be attached to a pillar
- Adjustable height adjustment for jib mount

Carbon Arm, Tool, and Balancer shown for concept. Items sold separately



| MODEL                                    | HEIGHT |     | BEAM LENGTH |      | MAX. TOOL WEIGHT |      | PIVOT RANGE |
|--|--------|-----|-------------|------|------------------|------|-------------|
|  | MM     | IN  | MM          | IN   | KG               | LB   |             |
| <b>ABMJ Series - Bench-Mount Jib Arm</b> |        |     |             |      |                  |      |             |
| ABMJ 1200-600                            | 1,200  | 472 | 600         | 23.6 | 6                | 13.2 | 180°        |
| ABMJ 1200-1000                           | 1,200  | 472 | 1,000       | 39.4 | 6                | 13.2 | 180°        |
| ABMJ 2000-1000                           | 1,200  | 472 | 1,000       | 39.4 | 4                | 8.8  | 180°        |

# CARBON TORQUE ARMS

## ACA SERIES TELESCOPIC CARBON ARMS



**Telescopic Torque Reaction Arms Provide Complete Ergonomics in the Hand-Tightening Phase**

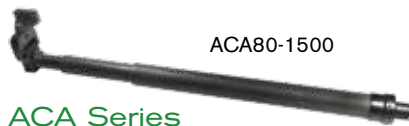
ACA Series Carbon Arms are lightweight, yet strong devices designed to absorb torque reactive forces. Highly flexible and modular, they adapt to a wide range of tools, and eliminate hazards to operators during fastening processes.

### 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



ACA80-1500

### ACA Series

| 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-V15-1000

### ACA-V Series

| 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-V40-2500  | 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  
X,Y Axis Encoders**  
(Requires ACA-POSIX System or  
AcraDyne's Gen IV Smart Arm System)

| MODEL          | MIN.<br>LENGTH<br>MM | MAX.<br>LENGTH<br>MM | MAX<br>TORQUE<br>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                 |



**Balancer Kits  
For ACA-P2 Series**

| MODEL       | MIN.<br>CAPACITY<br>(KG) | MAX.<br>CAPACITY<br>(KG) |
|-------------|--------------------------|--------------------------|
| 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                       |

### 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) |
|---|---------------------|--------------------------------------|---------------------|---------------------|
| <b>FOR TELESCOPIC ARMS</b>  |                     |                                      |                     |                     |
| <b>Base Tool Holders</b>  |                     |                                      |                     |                     |
|    | 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                  |
| <b>Multi-Position Tool Holders</b>  |                     |                                      |                     |                     |
|   | 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                  |
| <b>Swivel Tool Holders</b>  |                     |                                      |                     |                     |
|  | 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

## ACTT & ACPTT SERIES CARBON TORQUE TUBES



ACPTT Series  
Anti-Rotation Torque  
Tube with articulation  
support



ACTT 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 Torque Tubes

| MODEL             | MIN. LENGTH<br>MM | MAX. LENGTH<br>MM | MAX TORQUE<br>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

| 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            |



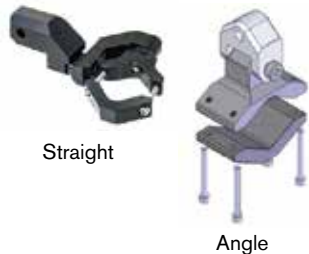
### ACSA ARTICULATING SUPPORT ARM

ACPTT Torque Tube\*

| 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            |

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

### 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-40S-2745   | Straight Tool Holder, 40/80 Nm Arms | 27                  | 45                  |



# 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.

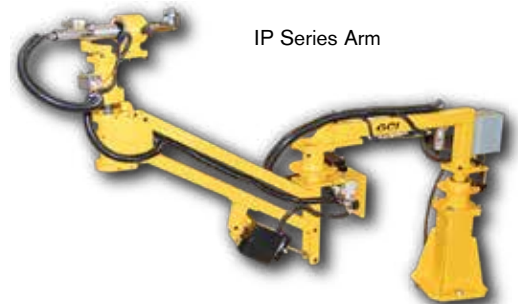
GCI arms can be designed as Smart Arms with two encoder options: PC-based AdaptiCS software (see page 155) and AcraDyne's Gen IV smart arm system with process visualization (see page 16). This complete Smart Arm system error-proofs even the most complex torque applications.

#### 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 155)



IP Series Arm



Carbon Fiber Arm

Rugged tablet PC option for Smart Arm

# GCI TORQUE REACTION ARMS

## GCI Torque Arm Specifications

| 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



Parking brake and main rotation stops



Remote starts



Tool sleeve

Discrete brake tooling rotation



### Additional Smart Arm Features



Discrete brake end rotation with encoder

Encoded tool sleeve



# 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

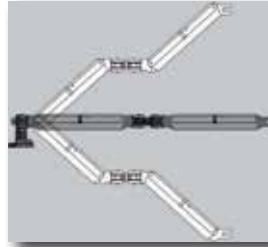


# 3arm ZERO GRAVITY ARMS

## 3arm Series 1



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



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

| MODEL  | ORIENTATION     | REACH |        | MAX WEIGHT |
|--------|-----------------|-------|--------|------------|
|        |                 | VERT. | HORIZ. | LB         |
| 1SN1DS | Floor Mounted   | 42    | 44     | 22         |
| 1AM1DS | Ceiling Mounted | 42    | 44     | 22         |

Compatible Head Members (160): B, BA, C, E, EA, F, G, K, N, T

### BRAKE OPTIONS

|     |              |
|-----|--------------|
| LOO | Not Required |
|-----|--------------|

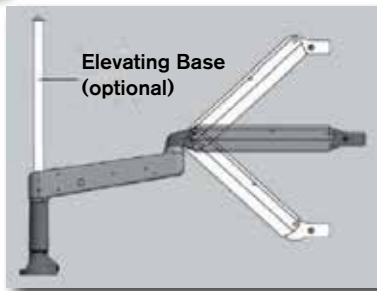
To build your 3arm, choose the following

| Arm Model | Head Member | Brake Option |
|-----------|-------------|--------------|
|           |             |              |

## 3arm Series 2



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.



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

| MODEL | ORIENTATION     | REACH |        | MAX WEIGHT |
|-------|-----------------|-------|--------|------------|
|       |                 | VERT. | HORIZ. | LB         |
| 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 (160): B, BA, C, E, EA, F, G, K, N

### BRAKE OPTIONS

|     |              |
|-----|--------------|
| LOO | Not Required |
|-----|--------------|

To build your 3arm, choose the following

| Arm Model | Head Member | Brake Option |
|-----------|-------------|--------------|
|           |             |              |



# 3arm ZERO GRAVITY ARMS

## 3arm Series 3



| Reach             | Max Weight | Max Torque |
|-------------------|------------|------------|
| Vertical: 42 in   | 77 lb      | 650 Nm     |
| Horizontal: 68 in |            | 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.

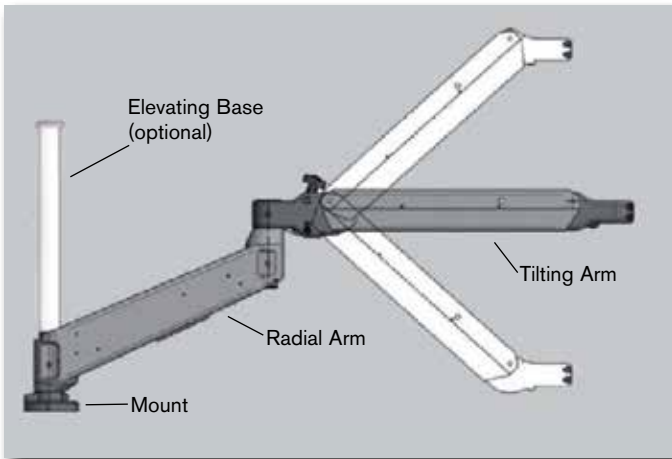
| MODEL                  | ORIENTATION              | REACH |        | MAX WEIGHT |
|------------------------|--------------------------|-------|--------|------------|
|                        |                          | VERT. | HORIZ. | LB         |
| <b>Floor Mounted</b>   |                          |       |        |            |
| 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 (160): 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 |
|-----------|-------------|--------------|
|           |             |              |

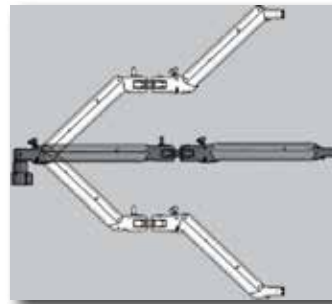


# 3arm ZERO GRAVITY ARMS

## 3arm Series 4



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.



|  |                            |  |
|--|----------------------------|--|
| <b>Reach</b><br>Vertical: 54 in<br>Horizontal: 58 in | <b>Max Weight</b><br>53 lb | <b>Max Torque</b><br>300 Nm<br>221 ft-lb |
|--|----------------------------|--|

| MODEL | ORIENTATION                | REACH |        | MAX WEIGHT |
|-------|----------------------------|-------|--------|------------|
|       |                            | VERT. | HORIZ. | LB         |
| 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 (160): All

| BRAKE OPTIONS |                        |
|---------------|------------------------|
| L00           | Not Required           |
| L11           | Manual                 |
| L22           | Pneumatic              |
| L50           | Manual Locking Base    |
| L92           | Tool Trigger Activated |

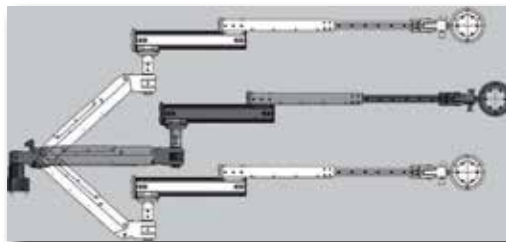
To build your 3arm, choose the following

| Arm Model | Head Member | Brake Option |
|-----------|-------------|--------------|
|           |             |              |

## 3arm Series 6



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.



|  |                            |
|--|----------------------------|
| <b>Reach</b><br>Vertical: 26 in<br>Horizontal: 82 in | <b>Max Weight</b><br>42 lb |
|--|----------------------------|

| MODEL  | DESCRIPTION | REACH |        | MAX WEIGHT |
|--------|-------------|-------|--------|------------|
|        |             | VERT. | HORIZ. | LB         |
| BPRASC | Model 800   | 26    | 68     | 42         |
| BPRASM | Model 1200  | 26    | 82     | 26         |

Compatible Head Members (160):  
BPRASC - All  
BPRASM - N,T

| 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.

|  |   |  |   |  |  |  |
|--|---|--|---|--|--|--|
| <br>Vertical Flat                         | <br>Vertical with Ring                 | <br>Vertical Adjustable                           | <br>Flat Articulated                 | <br>Flat Articulated with Ring | <br>Articulated Adjustable    | <br>Quick Change                      |
| <br>Heavy-Duty Applications               | <br>Magnetic Articulated Drill         | <br>Universal Strap                               | <br>Vertical Pneumatic Ball & Socket | <br>Constant Pressure Support  | <br>Multiposition Articulated | <br>Double Articulated Flat           |
| <br>Heavy-Duty Multiposition Articulated | <br>Swing Revolver                    | <br>Revolver Pistol                              | <br>Vertical & Horizontal           | <br>Revolver                  | <br>Giraffe Multiposition    | <br>Heavy-Duty Giraffe Multiposition |
| <br>Giraffe Revolver                    | <br>Multiposition Articulated Pistol | <br>Heavy-Duty Multiposition Articulated Pistol | <br>Fork                           |  |  |  |

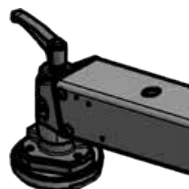
## 3arm Brake Options



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



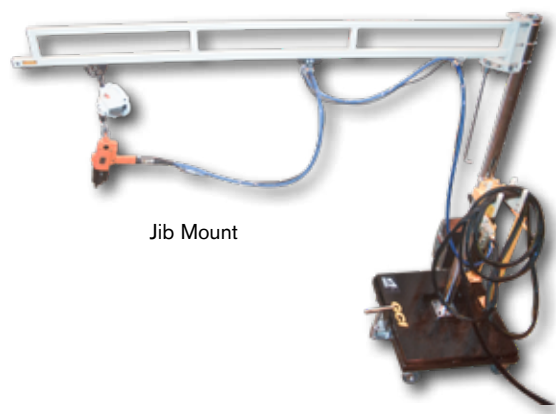
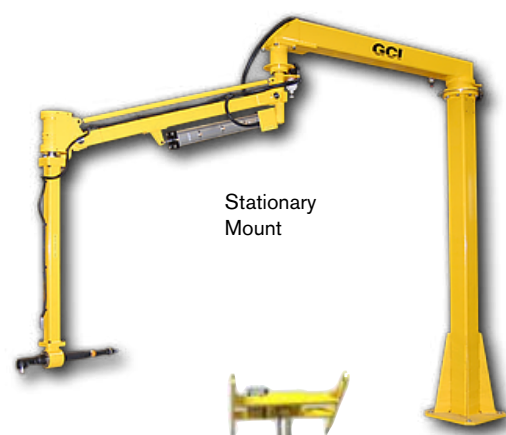
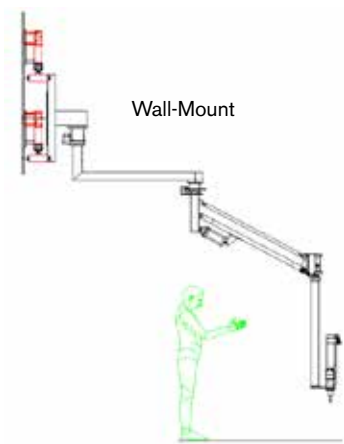
# SUPPORT SYSTEM TOOL-MOUNTING OPTIONS

## 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.

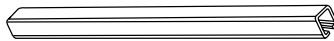


# WORKSTATION COMPONENTS AND ASSEMBLIES

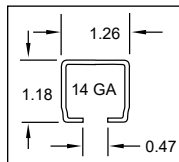
## COMPONENTS

### TRACK

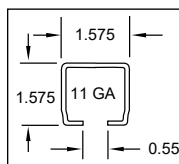
Steel with beige polyester finish. Use for vertical and horizontal workstation support.



| 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  |
| AT5-12*     | 12 ft track |



### TRACK NUT (ATN-3/5)

Zinc plated steel. Use to attach accessories to track, as end stops, or to isolate rolling accessories.

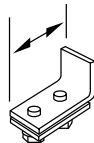
- ATN-3 for 30 lb. track
- ATN-5 for 50 lb. track



### END STOP (AES-3/5)

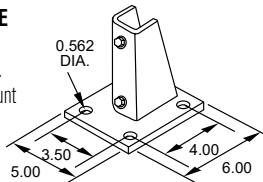
Zinc oxide finish. Use to prevent balancer trolley from "overtouring" horizontal track.

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

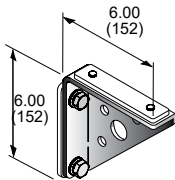
- AEP-3 for 30 lb. track
- AEP-5 for 50 lb. track



### ANGLE BRACKET (AB-3/5)

Black polyester finish. Use to mount horizontal track to vertical track.

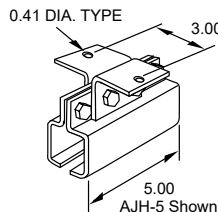
- AB-3 for 30 lb. track
- AB-5 for 50 lb. track



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

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

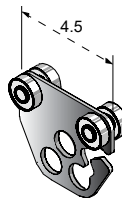
- AJH-3 for 30 lb. track
- AJH-5 for 50 lb. track



### 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.

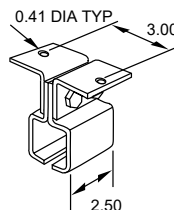
- ABT-3 for 30 lb track (1.00 dia)
- ABT-5 for 50 lb track (1.25 dia)



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

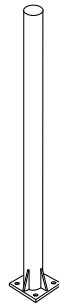
Black polyester finish. Use to suspend track at right angle.

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



### VERTICAL COLUMN (AVC-5\*)

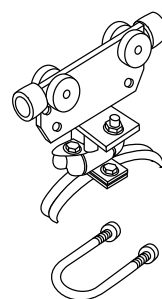
Beige polyester finish, 3" diameter x 9 ft upright steel column with welded base. Use as floor mount for extra stability with jibs or workstation components.



### HOSE/CABLE TROLLEY

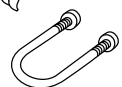
Black polyester finish. Use for moving cable or hose festoon. Supports hose cable OD .60-.94.

- AIC3-2 for 30 lb. track
- AIC5-2 for 50 lb. track



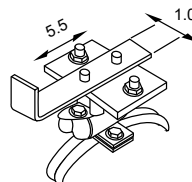
### U-BOLTS (AUB-5)

Zinc plated steel. Use to secure boom bracket, or any flat metal plate, to AVC-5 (sold individually).



### END CLAMP (AEC5-2)

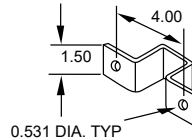
Black polyester finish. Use as end stop with hose carrier for festoon. Cable/hose OD .60-.94.



### 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



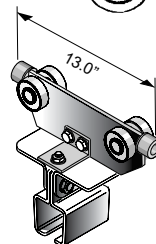
### TOOL CLIP (SH-5)

Steel clip with safety latch. Use for tool attachment and as replacement clip for lightweight tool balancers. Measures 2.37" long.



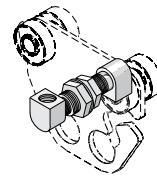
### ROLLING HANGER (ABT5-R)

Black polyester finish. Use as support for rolling track. Allows X/Y axis movement, includes ball bearing wheels.



### 90° CONNECTOR FOR 3/8" HOSE (WSCH)

3/8" I.D. Brass. Use to provide stable transfer point from air line to tool. 90 degree connector attaches to ABT-5.



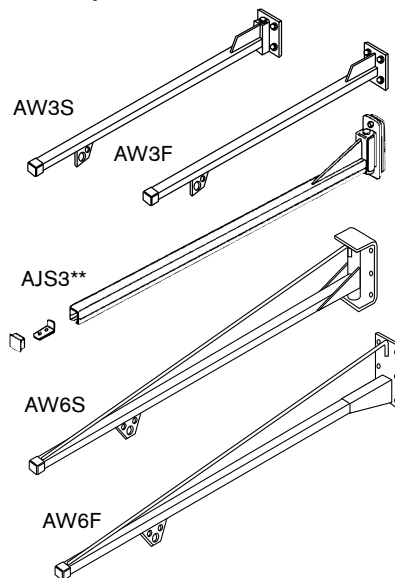
## WALL- AND FLOOR- MOUNTED JIBS

### 3 FT. SWINGING JIB (AW3S)

### 3 FT. FIXED JIB (AW3F)

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

Jibs are mounted to wall or beams to create free standing workstations. End stop, end cap, and balancer trolley included. Maximum weight: 30 lb.



### 6 FT. SWINGING JIB (AW6S)

### 6 FT. FIXED JIB (AW6F)

Jibs can be wall mounted or attached to vertical column (AVC-5) to create a freestanding workstation. End stop, end caps, and balancer trolley are included. Maximum weight: 50 lb.

All complete assemblies are beige polyester finish and include balancer trolley, end caps, and end stops. Floor mounted assemblies are not able to ship via UPS.

### 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.

\*\* Additional freight may apply

\*\* AJS3 Does not include balancer trolley

# WORKSTATION COMPONENTS AND ASSEMBLIES

## FLOOR MOUNTED 3 FT. SWINGING JIB\* (AW3FMS)

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

Maximum weight: 30 lb  
Column height: 6 ft

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

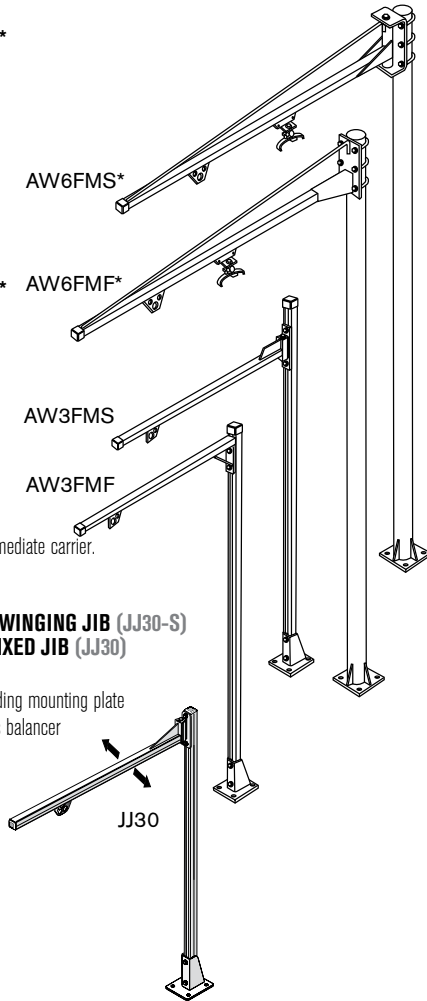
## FLOOR MOUNTED 6 FT. FIXED JIB\* (AW6FMF\*)

Maximum weight: 50 lb  
Column height: 9 ft

\*Units include end stop,  
balancer trolley and intermediate carrier.

## BENCH MOUNTED SWINGING JIB (JJ30-S) BENCH MOUNTED FIXED JIB (JJ30)

Maximum weight: 30 lb  
Column height: 48" including mounting plate  
3 ft. swinging jib includes balancer  
trolley, end stop, and cap

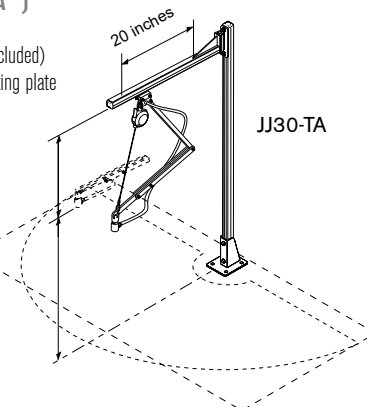


## AIMCO WORKSTATION KIT

### BENCH MOUNTED WORKSTATION WITH TORQUE ARM (JJ30-TA\*\*)

- 5 lb. maximum weight (RPA-3 included)
- 5' column height including mounting plate
- 38" jib length (swinging)
- 15 ft-lb torque rating
- 3/8" NPT inlet
- 1/4" NPT outlet
- Beige polyester finish
- 1/4" braided air hose
- 21" maximum vertical arm travel

\*\*Additional freight may apply  
\*\*For use with pneumatic tools only



## 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)



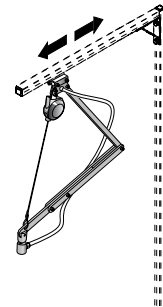
- 50 lb maximum weight capacity
- 48" uprights
- 36" extensions
- Table mounts included
- 6' tool rail with rolling trolley included
- All necessary hardware included

### 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.



### TOOL BASKET (21226)

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

AIMCO can customize a workstation for you.  
Contact an AIMCO Customer Service Associate 1-503-254-6600, 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 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
- Safety chain provision (TW-3 through TW-15 models)
- Automatic safety lock plus manual drum lock (TW-22 through TW-70)

| 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-3  | 2.2 - 6.6     | 1.0 - 3.0  | 4.5 - 6.0                  | 4.3-ft stranded steel cable 5/32" dia. |
| TW-5  | 5.5 - 11.0    | 2.5 - 5.0  | 8.0 - 10.5                 | 4.3-ft stranded steel cable 5/32" dia. |
| TW-9  | 9.9 - 19.8    | 4.5 - 9.0  | 15.0 - 19.0                | 4.3-ft stranded steel cable 5/32" dia. |
| TW-15 | 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.   |

## 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-OC Gravity Defying and Hand Adjustable Balancer



ASB-3C  
ASB-5C

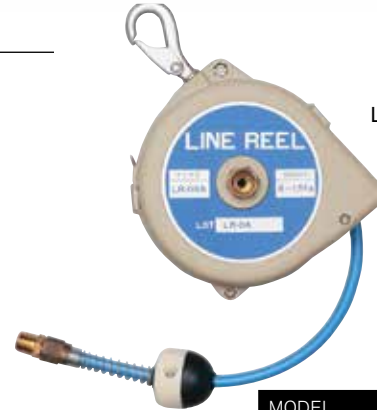
| MODEL  | CAPACITY     |              | STROKE  |        | WEIGHT |        |
|--------|--------------|--------------|---------|--------|--------|--------|
|        | LB           | KG           | IN      | CM     | LB     | KG     |
| ASB-0C | 1.1 - 3.3 lb | 0.5 - 1.5 kg | 51.1 in | 130 cm | 1.5 lb | 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 degree upper swivel
- Maximum 142 PSI



LR-09B-90/200

| 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



RPA Series

### 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

| 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

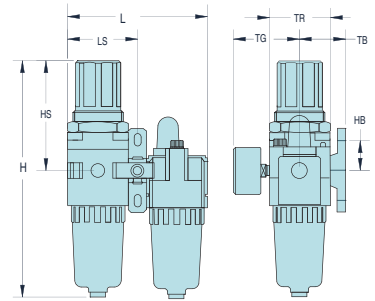
Stacking filter/regulator combinations provide air filtration and precise regulation in a single unit for easy mounting and installation.

### FEATURES AND BENEFITS

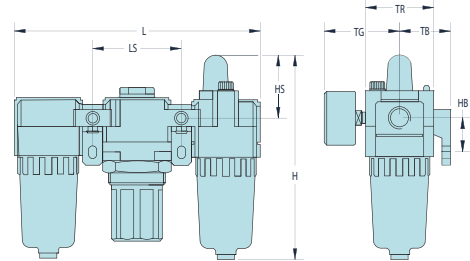
- All models include L-mount bracket, gauge, and metal bowl shields
- Polycarbonate filter and lubricator bowls (metal bowls standard on AFRL-8)
- 25-micron filter included on all models
- Regulating range: 7 – 125 PSI
- Custom order upgrade items include metal bowl, 5 micron filter, semi-automatic filter 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



AFRL-2-C  
AFRL-3-C



AFRL-3  
AFRL-4  
AFRL-8



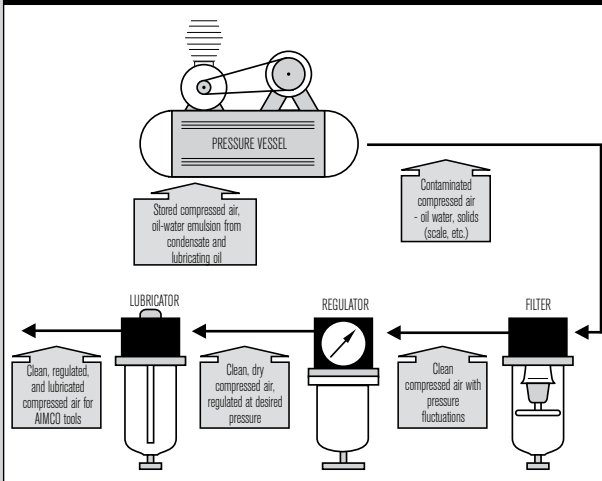
28178  
HT Air Tool/AFRL  
Carrying Kit



AFRL-4HTA  
Standalone Unit

| 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:

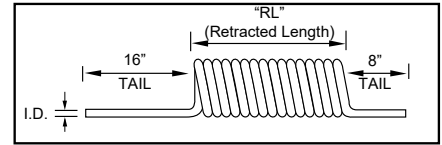
- Total air flow (CFM) required for application
- Size of incoming air line and size of air line required by tool
- Air supply pressure (PSI)
- Allowable pressure drop
- Does the application require lubrication?
- Does the overall system have the required capacity?

# AIR LINE

## 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<br>(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

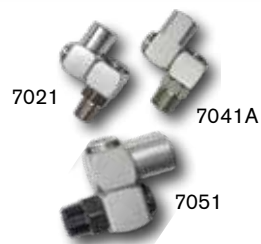
Manual ball couplers designed for use with ergonomic twist plugs. Brass with nitrile seals, rated to 300 PSI, from -40° to +250° F.

| 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 |



## 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       |

## 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 |



## 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 |



## 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 |
|--------|----------|--------|-----------|----------|
| 7021AG | 1/4" NPT | 3 oz   | Up to 125 | 25       |
| 7041AG | 3/8" NPT | 3 oz   | Up to 125 | 50       |



## 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.

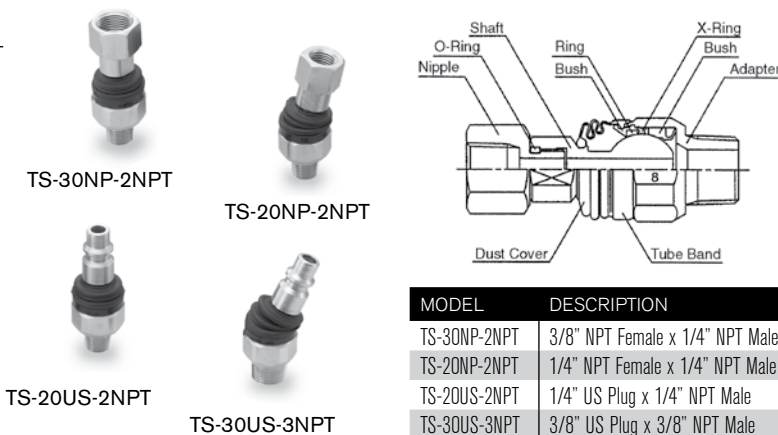


| MODEL     | DESCRIPTION                     |
|-----------|---------------------------------|
| 222P-6-4  | 3/8" NPT F x 1/4" NPT M Adapter |
| 222P-8-6  | 1/2" NPT F x 3/8" NPT M Adapter |
| 222P-12-8 | 3/4" NPT F x 1/2" NPT M Adapter |
| 209P-6-4  | 1/4" NPT F x 3/8" NPT M Bushing |
| 209P-8-6  | 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



| MODEL        | DESCRIPTION                     |
|--------------|---------------------------------|
| TS-30NP-2NPT | 3/8" NPT Female x 1/4" NPT Male |
| TS-20NP-2NPT | 1/4" 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

## 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

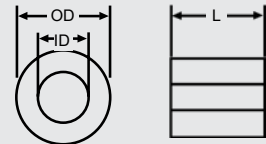
#### FEATURES AND BENEFITS

- Easy, cost effective alternative to traditional magnetic bit holder and insert bit 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 NO | INNER DIAMETER (ID) | OUTER DIAMETER (OD) | L MM |
|---------|---------------------|---------------------|------|
| AM1/4Z  | 7 mm                | 19 mm               | 10   |
| AM5Z    | 6 mm                | 17.5 mm             | 10   |
| AM3/16Z | 3/16 in             | 17.5 mm             | 10   |
| AM5/16Z | 5/16 in             | 20 mm               | 10   |

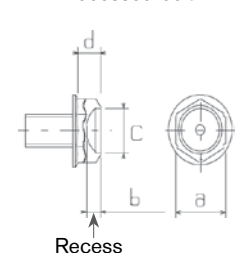
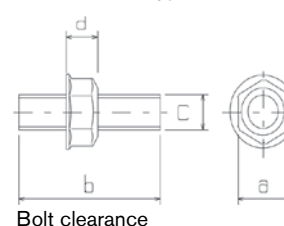
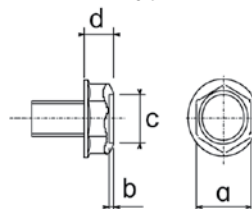


## MARKER SOCKETS

Marker Sockets paint the bolt head at the same time the torque is checked. Sockets are designed to your specification.

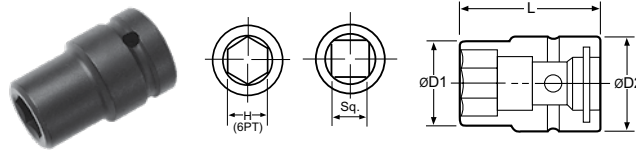
- Unit consists of a marker socket, an ink cartridge, a spring, and the cartridge cap
- Cartridge can be inserted/taken off easily for ink management
- Easily replaceable paint point
- Can be used with either oil-based or water-based inks
- When ordering, provide dimensions shown.

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



# STANDARD FASTENER TOOLS

## IMPACT SOCKETS



|                                    | PART NO     | HEX   | D1<br>MM | D1<br>IN | D2<br>MM | D2<br>IN | L<br>MM | L<br>IN |
|------------------------------------|-------------|-------|----------|----------|----------|----------|---------|---------|
| <b>3/8" Square Drive</b>           |             |       |          |          |          |          |         |         |
| SAE                                | A31/4       | 1/4"  | 10       | 0.39     | 19       | 0.75     | 34      | 1.34    |
|                                    | A35/16      | 5/16" | 12       | 0.47     | 19       | 0.75     | 34      | 1.34    |
|                                    | A33/8       | 3/8"  | 15       | 0.59     | 19       | 0.75     | 34      | 1.34    |
| METRIC                             | A306        | 6 mm  | 10       | 0.39     | 19       | 0.75     | 34      | 1.34    |
|                                    | A307        | 7 mm  | 13       | 0.49     | 20       | 0.79     | 32      | 1.26    |
|                                    | A308        | 8 mm  | 14       | 0.55     | 20       | 0.79     | 32      | 1.26    |
| <b>3/8" Square Drive, Deep</b>     |             |       |          |          |          |          |         |         |
|                                    | A307-2      | 7 mm  | 13       | 0.49     | 20       | 0.79     | 50      | 1.97    |
|                                    | A307-2.75   | 7 mm  | 13       | 0.49     | 20       | 0.79     | 70      | 2.76    |
|                                    | A308-2      | 8 mm  | 14       | 0.55     | 20       | 0.79     | 50      | 1.97    |
| <b>3/8" Square Drive, Magnetic</b> |             |       |          |          |          |          |         |         |
| SAE                                | A31/4MP     | 1/4"  | 10       | 0.39     | 19       | 0.75     | 34      | 1.34    |
|                                    | A35/16MP    | 5/16" | 12       | 0.47     | 19       | 0.75     | 34      | 1.34    |
|                                    | A33/8MP     | 3/8"  | 15       | 0.59     | 19       | 0.75     | 34      | 1.34    |
| METRIC                             | A308MP      | 8 mm  | 14       | 0.55     | 20       | 0.79     | 32      | 1.26    |
|                                    | A310MP      | 10 mm | 17       | 0.65     | 20       | 0.79     | 32      | 1.26    |
|                                    | A311MP      | 11 mm | 17       | 0.65     | 19       | 0.75     | 34      | 1.34    |
| <b>1/2" Square Drive</b>           |             |       |          |          |          |          |         |         |
| SAE                                | A43/8       | 3/8"  | 16       | 0.63     | 25       | 0.98     | 38      | 1.50    |
|                                    | A47/16      | 7/16" | 18       | 0.69     | 25       | 0.98     | 38      | 1.50    |
|                                    | A41/2       | 1/2"  | 19       | 0.75     | 25       | 0.98     | 50      | 1.97    |
| METRIC                             | A408        | 8 mm  | 16       | 0.61     | 25       | 0.98     | 40      | 1.58    |
|                                    | A409        | 9 mm  | 16       | 0.63     | 25       | 0.98     | 40      | 1.58    |
|                                    | A410        | 10 mm | 18       | 0.69     | 25       | 0.98     | 40      | 1.58    |
| <b>1/2" Square Drive, Deep</b>     |             |       |          |          |          |          |         |         |
| SAE                                | A43/8-3.25  | 3/8"  | 17       | 0.67     | 25       | 0.98     | 82      | 3.23    |
|                                    | A47/16-3.25 | 7/16" | 19       | 0.73     | 25       | 0.98     | 82      | 3.23    |
|                                    | A41/2-3.25  | 1/2"  | 22       | 0.85     | 25       | 0.98     | 82      | 3.23    |

|                                    | PART NO   | HEX    | D1<br>MM | D1<br>IN | D2<br>MM | D2<br>IN | L<br>MM | L<br>IN |
|------------------------------------|-----------|--------|----------|----------|----------|----------|---------|---------|
| METRIC                             | A410-2    | 10 mm  | 18       | 0.69     | 25       | 0.98     | 50      | 1.97    |
|                                    | A410-3    | 10 mm  | 18       | 0.69     | 25       | 0.98     | 75      | 2.95    |
|                                    | A410-3.25 | 10 mm  | 17       | 0.67     | 25       | 0.98     | 82      | 3.23    |
|                                    | A411-3.25 | 11 mm  | 19       | 0.73     | 25       | 0.98     | 82      | 3.23    |
| <b>1/2" Square Drive, Magnetic</b> |           |        |          |          |          |          |         |         |
|                                    | A408MP    | 8 mm   | 16       | 0.61     | 25       | 0.98     | 40      | 1.58    |
|                                    | A410MP    | 10 mm  | 18       | 0.69     | 25       | 0.98     | 40      | 1.58    |
|                                    | A412MP    | 12 mm  | 21       | 0.81     | 25       | 0.98     | 40      | 1.58    |
| <b>3/4" Square Drive</b>           |           |        |          |          |          |          |         |         |
| SAE                                | A611/16   | 11/16" | 30       | 1.18     | 44       | 1.73     | 50      | 1.97    |
|                                    | A63/4     | 3/4"   | 32       | 1.26     | 44       | 1.73     | 50      | 1.97    |
|                                    | A613/16   | 13/16" | 35       | 1.38     | 44       | 1.73     | 50      | 1.97    |
| METRIC                             | A614      | 14 mm  | 24       | 0.95     | 38       | 1.50     | 55      | 2.17    |
|                                    | A616      | 16 mm  | 27       | 1.06     | 44       | 1.73     | 50      | 1.97    |
|                                    | A617      | 17 mm  | 30       | 1.18     | 38       | 1.50     | 55      | 2.17    |
| <b>3/4" Square Drive, Deep</b>     |           |        |          |          |          |          |         |         |
| SAE                                | A611/16-4 | 11/16" | 31       | 1.22     | 44       | 1.73     | 100     | 3.94    |
|                                    | A63/4-4   | 3/4"   | 33       | 1.30     | 44       | 1.73     | 100     | 3.94    |
|                                    | A613/16-4 | 13/16" | 36       | 1.42     | 44       | 1.73     | 100     | 3.94    |
| METRIC                             | A617-4    | 17 mm  | 31       | 1.22     | 44       | 1.73     | 100     | 3.94    |
|                                    | A618-4    | 18 mm  | 32       | 1.26     | 44       | 1.73     | 100     | 3.94    |
|                                    | A619-4    | 19 mm  | 33       | 1.30     | 38       | 1.50     | 100     | 3.94    |
| <b>1" Square Drive</b>             |           |        |          |          |          |          |         |         |
| SAE                                | A87/8     | 7/8"   | 37       | 1.46     | 54       | 2.13     | 59      | 2.32    |
|                                    | A815/16   | 15/16" | 38       | 1.50     | 54       | 2.13     | 59      | 2.32    |
|                                    | A81       | 1"     | 41       | 1.61     | 54       | 2.13     | 59      | 2.32    |
| METRIC                             | A817      | 17 mm  | 31       | 1.22     | 50       | 1.97     | 63      | 2.48    |
|                                    | A819      | 19 mm  | 33       | 1.30     | 50       | 1.97     | 63      | 2.48    |
|                                    | A821      | 21 mm  | 37       | 1.46     | 50       | 1.97     | 63      | 2.48    |

Additional types and sizes of fastener tools, as well as custom parts, are available upon request. Contact an AIMCO Customer Service Associate at 1-503-254-6600, or toll free 1-800-852-1368.

## 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

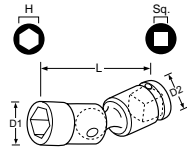


CVF Series  
with Bit  
Attachment



# STANDARD FASTENER TOOLS

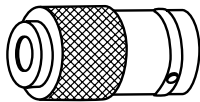
## UNIVERSAL SOCKETS



| PART NO                  | HEX   | D1<br>MM | D1<br>IN | D2<br>MM | D2<br>IN | L<br>MM | L<br>IN |
|--------------------------|-------|----------|----------|----------|----------|---------|---------|
| <b>3/8" Square Drive</b> |       |          |          |          |          |         |         |
| A310U                    | 10 mm | 16       | 0.63     | 20       | 0.79     | 55      | 2.17    |
| A311U                    | 11 mm | 16       | 0.63     | 20       | 0.79     | 60      | 2.36    |

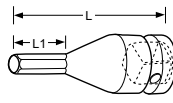
| PART NO                  | HEX   | D1<br>MM | D1<br>IN | D2<br>MM | D2<br>IN | L<br>MM | L<br>IN |
|--------------------------|-------|----------|----------|----------|----------|---------|---------|
| <b>1/2" Square Drive</b> |       |          |          |          |          |         |         |
| A412U                    | 12 mm | 20.5     | 0.81     | 25       | 0.98     | 70      | 2.76    |
| A413U                    | 13 mm | 19       | 0.75     | 24       | 0.95     | 70      | 2.76    |

## QUICK CHANGE CHUCKS



| PART NO      | SQ<br>DRIVE | HEX   | D1<br>MM | D1<br>IN | L<br>MM | L<br>IN |
|--------------|-------------|-------|----------|----------|---------|---------|
| ADC-2S       | 1/4"        | 1/4"  | 19       | 0.75     | 38      | 1.50    |
| ADC-3S       | 3/8"        | 1/4"  | 20       | 0.79     | 42      | 1.65    |
| ADC-4S       | 1/2"        | 1/4"  | 19       | 0.75     | 46      | 1.81    |
| ADC-3SH7/16Z | 3/8"        | 7/16" | 25       | 0.98     | 46      | 1.81    |
| ADC-4SH7/16Z | 1/2"        | 7/16" | 33       | 1.30     | 55      | 2.17    |

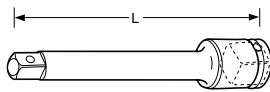
## ALLEN SOCKETS



| PART NO                  | HEX  | L1<br>MM | L1<br>IN | L<br>MM | L<br>IN |
|--------------------------|------|----------|----------|---------|---------|
| <b>3/8" Square Drive</b> |      |          |          |         |         |
| A314C                    | 1/4" | 10       | 0.39     | 42      | 1.65    |
| A304C                    | 4 mm | 10       | 0.39     | 42      | 1.65    |

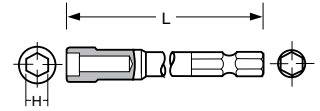
| PART NO                  | HEX  | L1<br>MM | L1<br>IN | L<br>MM | L<br>IN |
|--------------------------|------|----------|----------|---------|---------|
| <b>1/2" Square Drive</b> |      |          |          |         |         |
| A414C                    | 1/4" | 25       | 0.98     | 50      | 1.97    |
| A405C                    | 5 mm | 25       | 0.98     | 50      | 1.97    |

## EXTENSIONS



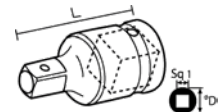
| PART NO | SQ<br>DRIVE | HEX    | L<br>MM | L<br>IN | D<br>MM | D<br>IN |
|---------|-------------|--------|---------|---------|---------|---------|
| A375E   | 3/8"        | 3/8"   | 75      | 2.95    | 20      | 0.79    |
| A405E   | 1/2"        | 1/2"   | 51      | 2.01    | 30      | 1.18    |
| A610E   | 3/4"        | 3/4"   | 100     | 3.94    | 44      | 1.73    |
| A810E   | 1"          | 1"     | 102     | 4.02    | 54      | 2.13    |
| A1220E  | 1-1/4"      | 1-1/4" | 200     | 7.87    | 60      | 2.36    |
| A1418E  | 1-1/2"      | 1-1/2" | 178     | 7.01    | 84      | 3.31    |
| A2426E  | 2-1/2"      | 2-1/2" | 264     | 10.39   | 137     | 5.39    |

## NUTSETTERS



| PART NO     | HEX    | L<br>MM | L<br>IN |
|-------------|--------|---------|---------|
| A3B1/4-2    | 1/4"   | 50      | 1.97    |
| A3B1/4-2.5  | 1/4"   | 63      | 2.50    |
| A3B5/16-2   | 5/16"  | 50      | 1.97    |
| A3B5/16-2.5 | 5/16"  | 63      | 2.50    |
| A3B3/8-2    | 3/8"   | 50      | 1.97    |
| A3B3/8-2.5  | 3/8"   | 63      | 2.50    |
| A3B05-2.75  | 5 mm   | 70      | 2.76    |
| A3B55-1.2   | 5.5 mm | 30      | 1.18    |
| A3B55-2.75  | 5.5 mm | 70      | 2.76    |
| A3B55-4     | 5.5 mm | 100     | 3.94    |
| A3B06-2.75  | 6 mm   | 70      | 2.76    |
| A3B07-1.2   | 7 mm   | 30      | 1.18    |
| A3B07-2     | 7 mm   | 50      | 1.97    |
| A3B07-2.75  | 7 mm   | 70      | 2.76    |
| A3B07-4     | 7 mm   | 100     | 3.94    |
| A3B08-1.2   | 8 mm   | 30      | 1.18    |
| A3B08-2     | 8 mm   | 50      | 1.97    |
| A3B08-2.75  | 8 mm   | 70      | 2.76    |
| A3B08-4     | 8 mm   | 100     | 3.94    |
| A3B08-6     | 8 mm   | 150     | 5.91    |
| A3B08-8     | 8 mm   | 200     | 7.87    |
| A3B09-2.75  | 9 mm   | 70      | 2.76    |
| A3B09-4     | 9 mm   | 100     | 3.94    |
| A3B10-1.2   | 10 mm  | 30      | 1.18    |
| A3B10-2     | 10 mm  | 50      | 1.97    |
| A3B10-2.75  | 10 mm  | 70      | 2.76    |
| A3B11-2.75  | 11 mm  | 70      | 2.76    |
| A3B12-1.2   | 12 mm  | 30      | 1.18    |
| A3B13-2.75  | 13 mm  | 70      | 2.76    |
| A3B14-2.75  | 14 mm  | 70      | 2.76    |
| A3B16-2.75  | 16 mm  | 70      | 2.76    |
| A3B17-2.75  | 17 mm  | 70      | 2.76    |

## SOCKET ADAPTERS

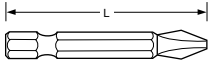


| PART NO | FEMALE<br>SQ. DRIVE | MALE<br>SQ. DRIVE | D<br>MM | D<br>IN | L<br>MM | L<br>IN |
|---------|---------------------|-------------------|---------|---------|---------|---------|
| A302A   | 3/8"                | 1/4"              | 22      | 0.87    | 35      | 1.38    |
| A403A   | 1/2"                | 3/8"              | 25      | 0.98    | 37      | 1.46    |
| A504A   | 5/8"                | 1/2"              | 35      | 1.38    | 47      | 1.86    |
| A604A   | 3/4"                | 1/2"              | 38      | 1.50    | 53      | 2.09    |
| A806A   | 1"                  | 3/4"              | 50      | 1.97    | 70      | 2.76    |
| A128A   | 1-1/4"              | 1"                | 60      | 2.36    | 76      | 2.99    |
| A#508A  | Spline #5           | 1"                | 60      | 2.36    | 90      | 3.54    |

Additional types and sizes of fastener tools, as well as custom parts, are available upon request. Contact an AIMCO Customer Service Associate at 1-503-254-6600, or toll free 1-800-852-1368.

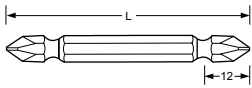
# STANDARD FASTENER TOOLS

## PHILLIPS POWER BITS



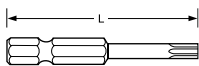
| PART NO   | POINT SIZE | L MM | L IN |
|-----------|------------|------|------|
| A3S0-2    | 0          | 50   | 1.97 |
| A3S1-2    | 1          | 50   | 1.97 |
| A3S1-2.75 | 1          | 70   | 2.76 |
| A3S1-3    | 1          | 75   | 2.95 |
| A3S1-3.5  | 1          | 90   | 3.54 |
| A3S1-4    | 1          | 100  | 3.94 |
| A3S1-6    | 1          | 150  | 5.91 |
| A3S2-1.2  | 2          | 30   | 1.18 |
| A3S2-1.6  | 2          | 40   | 1.57 |
| A3S3-2    | 3          | 50   | 1.97 |
| A3S3-2.75 | 3          | 70   | 2.76 |

### Double-Ended



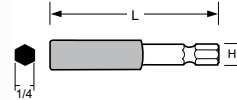
| PART NO | POINT SIZE | L MM | L IN  |
|---------|------------|------|-------|
| A3W1-3  | 1          | 75   | 2.94  |
| A3W1-4  | 1          | 100  | 3.94  |
| A3W2-2  | 2          | 50   | 1.97  |
| A3W2-3  | 2          | 75   | 2.94  |
| A3W2-4  | 2          | 100  | 3.94  |
| A3W2-6  | 2          | 150  | 5.91  |
| A3W2-8  | 2          | 200  | 7.87  |
| A3W2-10 | 2          | 250  | 9.84  |
| A3W2-12 | 2          | 300  | 11.81 |
| A3W3-2  | 3          | 50   | 1.97  |
| A3W3-3  | 3          | 75   | 2.94  |
| A3W3-4  | 3          | 100  | 3.94  |
| A3W3-6  | 3          | 150  | 5.91  |
| A3W3-8  | 3          | 200  | 7.87  |

## TORX POWER BITS



| PART NO   | TORX SIZE | L MM | L IN |
|-----------|-----------|------|------|
| A3T6-2    | T6        | 50   | 1.97 |
| A3T7-2    | T7        | 50   | 1.97 |
| A3T7-2.75 | T7        | 70   | 2.76 |
| A3T7-3.5  | T7        | 90   | 3.54 |
| A3T7-6    | T7        | 150  | 5.91 |
| A3T8-2    | T8        | 50   | 1.97 |
| A3T9-2.75 | T9        | 70   | 2.76 |

## BIT HOLDERS



| PART NO            | L MM | L IN |
|--------------------|------|------|
| 1/4" Hex, Magnetic |      |      |
| A3BHM-3            | 75   | 2.94 |
| A3BHM-4            | 100  | 3.94 |
| A3BHM-6            | 150  | 5.91 |
| A3BHM-8            | 200  | 7.87 |
| A3BHM-10           | 250  | 9.84 |

## BIT AND NUTSETTER PART NUMBER NOMENCLATURE

### Precedes Part Number

#### BITS

|  |   |
|--|---|
| A3S = Phillips® Power Drive              | AM = Electric Type Slotted                |
| A3W = Double Ended Phillips®             | ATW = Electric Type Tri-Wing®             |
| A3S = Phillips® Insert                   | AT = Electric Hios Type                   |
| A3S = Phillips® Insert Reduced Nose      | Torx®                                     |
| A3M = Slotted Power Drive                | A26S = Electric Driver Phillips®          |
| A3BM = Slotted Insert                    | A26M = Electric Driver Slotted            |
| A3MT = Slotted Power Drive Reduced Nose  | A26C = Electric Driver Allen Socket Head  |
| A3C = Allen Socket Head Power Drive      | A3BHM = Insert Bit Holder (Magnetic Type) |
| A38C = Allen Socket Head Insert          | A3BHD = Insert Bit Holder (Non Magnetic)  |
| A3R = Square Recess Power Drive          |   |
| A3RT = Square Recess Turned Down (Power) |   |
| A38R = Square Recess Insert              |   |
| A3T = Torx® Power Drive                  |   |
| A38T = Torx® Insert                      |   |
| A3TS = Torq-Set® Power Drive             |   |
| A38TS = Torq-Set® Insert                 |   |
| A3TA = Triangle Power Drive              |   |
| A3TW = Tri-Wing® Power Drive             |   |
| A38TW = Tri-Wing® Insert                 |   |
| A7 = 7/16 Power Drive                    |   |
| AS = Electric Type Phillips®             |   |

#### NUTSETTERS

|                                     |
|-------------------------------------|
| A3B = Nutsetter                     |
| A3BMP = Magnetic (MP) Pressed Type  |
| A3BMS = Magnetic (MS) Spring Loaded |
| A3BMT = Magnetic (MT) Tube Type     |
| A3BU = Universal Nutsetter          |

#### MAG-O-NETS

|                       |
|-----------------------|
| AM = AIMCO Mag-O-Net® |
|-----------------------|

### Contained within Part Number

#### BITS

|   |
|---|
| PZ = Pozidriv®                          |
| PZACR = Pozidriv® ACR®                  |
| SDV = Supadriv®                         |
| TR = Torx® Tamper Resistant             |
| ACRI = ACR® Installation                |
| ACR = ACR® Remove                       |
| ACRB = ACR® 4x4 Both Install and Remove |
| E4 = Electric 4 mm diameter             |
| E5 = Electric 5 mm diameter             |
| RS = Reduced Shank                      |

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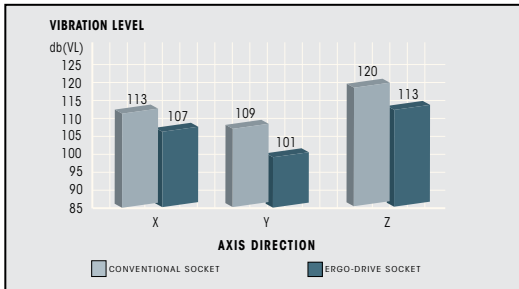
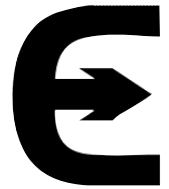
# ERGO-DRIVE SERIES

## ERGO-DRIVE® SOCKETS PROTECT...



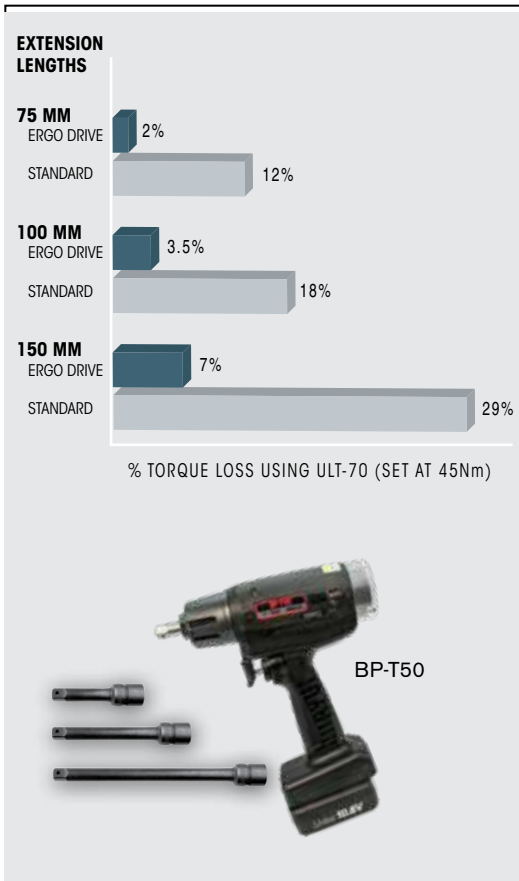
### ...YOUR INVESTMENT!

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.



### ...YOUR ASSEMBLERS!

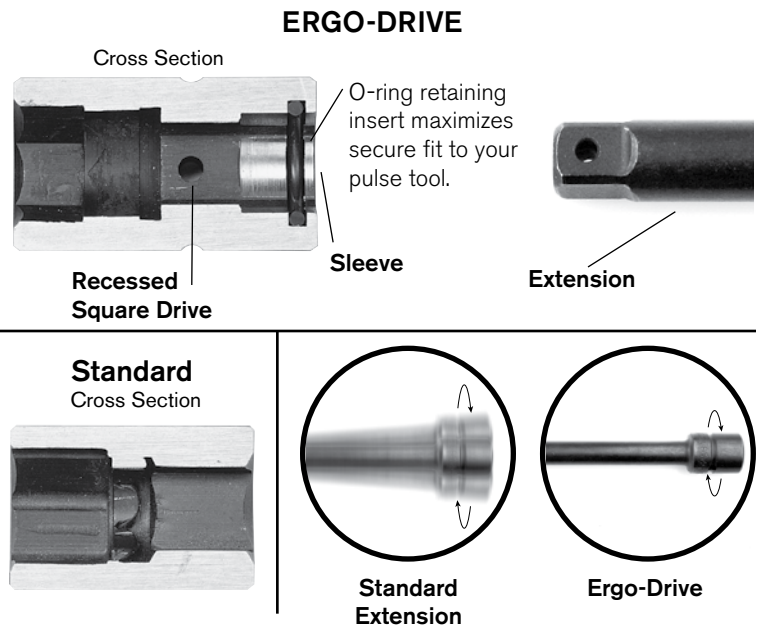
ERGO-DRIVE sockets cause significantly less vibration during fastening than conventional sockets. This allows your assemblers to do their jobs without the worry of vibration related injuries.



### ...YOUR PRODUCTS!

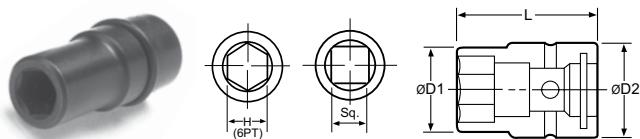
By reducing run-out and vibration, ERGO-DRIVE sockets allow the most repeatable, accurate rundowns to take place, ensuring excellent product quality.

## ERGO-DRIVE VS. STANDARD



# ERGO-DRIVE FASTENER TOOLS

## ERGO-DRIVE SOCKETS



| PART NO | HEX | D1<br>MM | D1<br>IN | D2<br>MM | D2<br>IN | L<br>MM | L<br>IN |
|---------|-----|----------|----------|----------|----------|---------|---------|
|---------|-----|----------|----------|----------|----------|---------|---------|

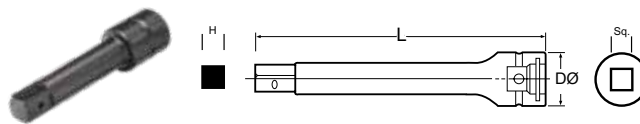
| 3/8" Square Drive |       |    |      |    |      |    |      |
|-------------------|-------|----|------|----|------|----|------|
| A312EDS           | 1/4"  | 10 | 0.39 | 19 | 0.75 | 44 | 1.73 |
| A306EDS           | 1/2"  | 20 | 0.77 | 22 | 0.87 | 44 | 1.73 |
| A308EDS           | 6 mm  | 10 | 0.39 | 19 | 0.75 | 44 | 1.73 |
| A310EDS           | 8 mm  | 14 | 0.55 | 20 | 0.79 | 42 | 1.65 |
| A312EDS           | 10 mm | 17 | 0.65 | 20 | 0.79 | 42 | 1.65 |
| A314EDS           | 12 mm | 20 | 0.79 | 20 | 0.79 | 42 | 1.65 |
| A316EDS           | 14 mm | 22 | 0.87 | 20 | 0.79 | 42 | 1.65 |
| A318EDS           | 16 mm | 25 | 0.98 | 20 | 0.79 | 45 | 1.77 |
| A318EDS           | 18 mm | 27 | 1.06 | 20 | 0.79 | 45 | 1.77 |

| 1/2" Square Drive |       |    |      |    |      |    |      |
|-------------------|-------|----|------|----|------|----|------|
| A412EDS           | 1/2"  | 19 | 0.75 | 25 | 0.98 | 50 | 1.97 |
| A413EDS           | 13 mm | 22 | 0.85 | 25 | 0.98 | 52 | 2.05 |
| A414EDS           | 14 mm | 23 | 0.89 | 25 | 0.98 | 52 | 2.05 |
| A415EDS           | 15 mm | 24 | 0.93 | 25 | 0.98 | 52 | 2.05 |
| A416EDS           | 16 mm | 25 | 0.98 | 25 | 0.98 | 52 | 2.05 |
| A417EDS           | 17 mm | 28 | 1.10 | 28 | 1.10 | 54 | 2.13 |
| A418EDS           | 18 mm | 29 | 1.14 | 28 | 1.10 | 54 | 2.13 |
| A419EDS           | 19 mm | 30 | 1.18 | 28 | 1.10 | 54 | 2.13 |

| 3/4" Square Drive |        |    |      |    |      |    |      |
|-------------------|--------|----|------|----|------|----|------|
| A61-1/8EDS        | 1-1/8" | 44 | 1.73 | 44 | 1.73 | 64 | 2.52 |
| A61-1/4EDS        | 1-1/4" | 49 | 1.91 | 44 | 1.73 | 66 | 2.60 |
| A61-1/2EDS        | 1-1/2" | 57 | 2.24 | 44 | 1.73 | 68 | 2.68 |
| A618EDS           | 18 mm  | 31 | 1.22 | 44 | 1.73 | 60 | 2.36 |
| A624EDS           | 24 mm  | 40 | 1.52 | 40 | 1.73 | 65 | 2.36 |

| 1" Square Drive |        |     |      |    |      |     |      |
|-----------------|--------|-----|------|----|------|-----|------|
| A815/16EDS      | 15/16" | 38  | 1.50 | 54 | 2.13 | 69  | 2.72 |
| A8100EDS        | 100 mm | 136 | 5.35 | 76 | 2.99 | 120 | 4.72 |

## ERGO-DRIVE EXTENSIONS



| PART NO | SQ<br>DRIVE | H | L<br>MM | L<br>IN | D<br>MM | D<br>IN |
|---------|-------------|---|---------|---------|---------|---------|
|---------|-------------|---|---------|---------|---------|---------|

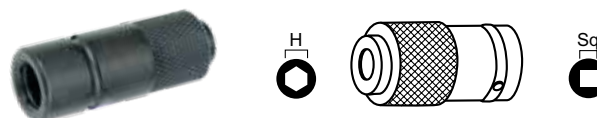
| 3/8" Square Drive |      |      |     |       |    |      |
|-------------------|------|------|-----|-------|----|------|
| A352EDE           | 3/8" | 3/8" | 52  | 2.05  | 20 | 0.79 |
| A3100EDE          | 3/8" | 3/8" | 100 | 3.94  | 20 | 0.79 |
| A375EDE           | 3/8" | 3/8" | 75  | 2.95  | 20 | 0.79 |
| A3150EDE          | 3/8" | 3/8" | 150 | 5.91  | 20 | 0.79 |
| A3190EDE          | 3/8" | 3/8" | 190 | 7.48  | 20 | 0.79 |
| A3254EDE          | 3/8" | 3/8" | 254 | 10.00 | 20 | 0.79 |
| A3300EDE          | 3/8" | 3/8" | 300 | 11.81 | 20 | 0.79 |
| A3320EDE          | 3/8" | 3/8" | 320 | 12.60 | 20 | 0.79 |

| 1/2" Square Drive |      |      |     |       |    |      |
|-------------------|------|------|-----|-------|----|------|
| A464EDE           | 1/2" | 1/2" | 64  | 2.52  | 28 | 1.10 |
| A476EDE           | 1/2" | 1/2" | 76  | 2.99  | 28 | 1.10 |
| A4125EDE          | 1/2" | 1/2" | 125 | 4.92  | 28 | 1.10 |
| A4204EDE          | 1/2" | 1/2" | 204 | 8.03  | 28 | 1.10 |
| A4254EDE          | 1/2" | 1/2" | 254 | 10.00 | 28 | 1.10 |
| A4355EDE          | 1/2" | 1/2" | 355 | 13.98 | 28 | 1.10 |

| 3/4" Square Drive |      |      |     |      |    |      |
|-------------------|------|------|-----|------|----|------|
| A676EDE           | 3/4" | 3/4" | 76  | 2.99 | 40 | 1.58 |
| A6100EDE          | 3/4" | 3/4" | 100 | 3.94 | 40 | 1.58 |
| A6150EDE          | 3/4" | 3/4" | 150 | 5.91 | 40 | 1.58 |
| A6200EDE          | 3/4" | 3/4" | 200 | 7.87 | 40 | 1.58 |

| 1" Square Drive |    |    |     |      |    |      |
|-----------------|----|----|-----|------|----|------|
| A8150EDE        | 1" | 1" | 150 | 5.91 | 54 | 2.13 |
| A8200EDE        | 1" | 1" | 200 | 7.87 | 54 | 2.13 |

## ERGO-DRIVE QUICK CHANGE CHUCKS



| PART NO | SQUARE DRIVE | HEX |
|---------|--------------|-----|
|---------|--------------|-----|

| 3/8" Square Drive |      |       |
|-------------------|------|-------|
| ADC-3SEDSQ        | 3/8" | 1/4"  |
| ADC-3SEDSQH7/16   | 3/8" | 7/16" |

| 1/2" Square Drive |      |       |
|-------------------|------|-------|
| ADC-4SEDSQ        | 1/2" | 1/4"  |
| ADC-4SEDSQH7/16   | 1/2" | 7/16" |

Additional types and sizes of fastener tools, as well as custom parts, are available upon request. Contact an AIMCO Customer Service Associate at 1-503-254-6600, or toll free 1-800-852-1368.

# CUSTOM BITS, SOCKETS, AND EXTENSIONS

## CUSTOM BITS, SOCKETS, AND EXTENSIONS FOR THE POWER TOOL USER

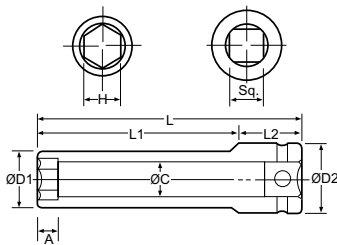
AIMCO can provide specials for virtually any application. From design to delivery, AIMCO's quick response ensures high quality, tight tolerance specials.

Specials are available in every style including:

- Deep Socket
- Extended Socket
- Universal
- Allen Head
- Torx Head
- Socket Adapter
- Nut Runner Socket
- Nut Runner Joint
- Nutsetter
- Magnetic Nutsetter
- Universal Nutsetter
- Screwdriver Bits



Sample request forms are shown. Your detailed requirements will allow AIMCO to quickly respond with custom solutions for your fastening requirements.

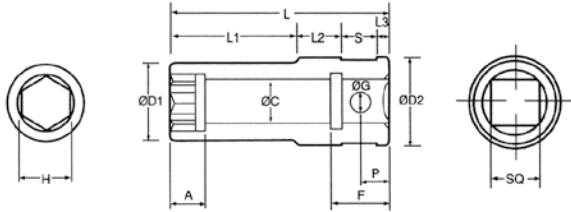
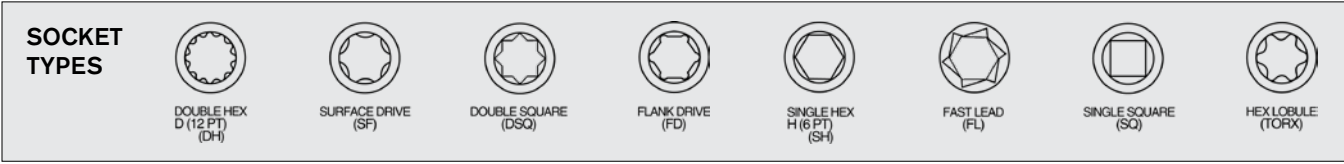


### SOCKET

| MAGNET |    |    |
|--------|----|----|
| MP     | MT | MS |
| •      | •  | •  |
| •      | •  | •  |

|      | H | L | L1 | L2 | A | ØC | ØD1 | ØD2 | Sq. |
|------|---|---|----|----|---|----|-----|-----|-----|
| SIZE | • | • | •  | •  | • | •  | •   | •   | •   |
| TYPE | • | • | •  | •  | • | •  | •   | •   | •   |

# SPECIAL PARTS

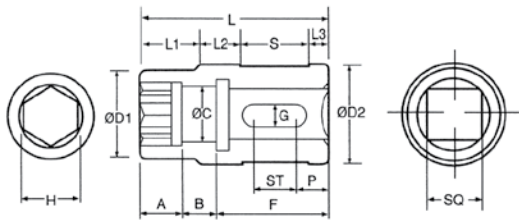


**NUTRUNNER SOCKET TYPE A**

Min. Qty. 10

| Magnet<br>MP MT MS | H | L | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | S | ØD <sub>1</sub> | A | ØC | ØG | P | F | ØD <sub>2</sub> | Sq. | Qty. |
|--------------------|---|---|----------------|----------------|----------------|---|-----------------|---|----|----|---|---|-----------------|-----|------|
| SIZE               |   |   |                |                |                |   |                 |   |    |    |   |   |                 |     |      |
| TYPE               |   |   |                |                |                |   |                 |   |    |    |   |   |                 |     |      |

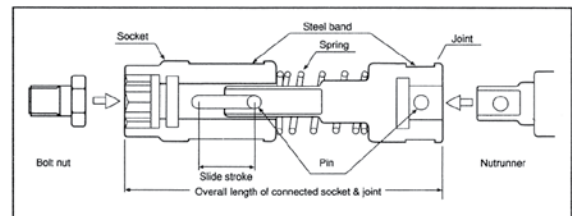
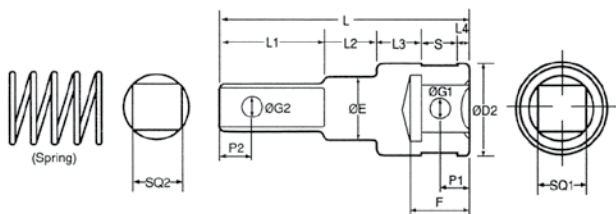
✓ Box for Ergo-Drive



**NUTRUNNER SOCKET TYPE B**

Min. Qty. 10

| H    | L | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | S | ØD <sub>1</sub> | A | B | ØC | G | P | F | ST | ØD <sub>2</sub> | Sq. | Qty. |
|------|---|----------------|----------------|----------------|---|-----------------|---|---|----|---|---|---|----|-----------------|-----|------|
| SIZE |   |                |                |                |   |                 |   |   |    |   |   |   |    |                 |     |      |
| TYPE |   |                |                |                |   |                 |   |   |    |   |   |   |    |                 |     |      |

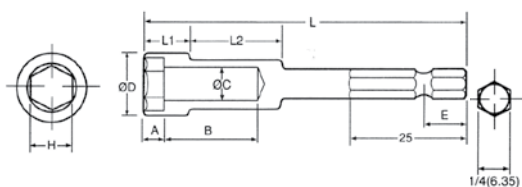


**NUTRUNNER JOINT TYPE B**

Min. Qty. 10

| SQ <sub>2</sub> | L | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>4</sub> | S | P <sub>1</sub> | ØG <sub>2</sub> | ØE | F | ØG <sub>1</sub> | P <sub>2</sub> | ØD <sub>2</sub> | SQ <sub>1</sub> | Qty. |
|-----------------|---|----------------|----------------|----------------|----------------|---|----------------|-----------------|----|---|-----------------|----------------|-----------------|-----------------|------|
|                 |   |                |                |                |                |   |                |                 |    |   |                 |                |                 |                 |      |

✓ Box for Ergo-Drive



**NUT SETTER**

Min. Qty. 10

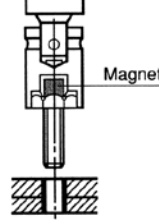
| H    | ØD | L | E | L <sub>1</sub> | L <sub>2</sub> | A | B | ØC | Qty. |
|------|----|---|---|----------------|----------------|---|---|----|------|
| SIZE |    |   |   |                |                |   |   |    |      |
| TYPE |    |   |   |                |                |   |   |    |      |



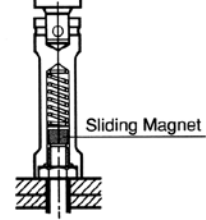
# SPECIAL PARTS

## MAGNETIC STYLES:

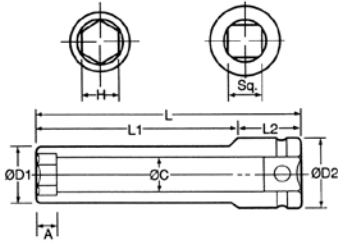
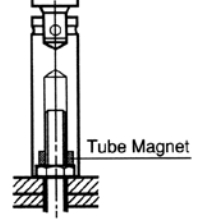
MP (Press-inserted) Type



MS (Sliding) Type



MT (Tube) Type

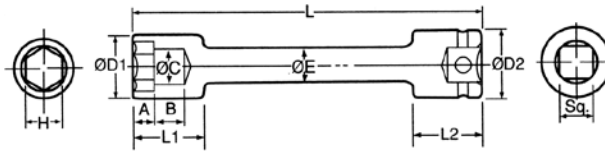


## SOCKET

Min. Qty. 10

| Magnet |    |    | H    | L | L <sub>1</sub> | L <sub>2</sub> | A | $\varnothing C$ | $\varnothing D_1$ | $\varnothing D_2$ | Sq. | Qty. |
|--------|----|----|------|---|----------------|----------------|---|-----------------|-------------------|-------------------|-----|------|
| MP     | MT | MS | SIZE |   |                |                |   |                 |                   |                   |     |      |
|        |    |    | TYPE |   |                |                |   |                 |                   |                   |     |      |

√ Box for Ergo-Drive

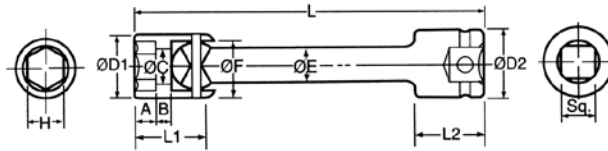


## EXTENSION SOCKET

Min. Qty. 10

| Magnet |    |    | H    | L | L <sub>1</sub> | L <sub>2</sub> | A | B | $\varnothing C$ | $\varnothing D_1$ | $\varnothing D_2$ | $\varnothing E$ | Sq. | Qty. |
|--------|----|----|------|---|----------------|----------------|---|---|-----------------|-------------------|-------------------|-----------------|-----|------|
| MP     | MT | MS | SIZE |   |                |                |   |   |                 |                   |                   |                 |     |      |
|        |    |    | TYPE |   |                |                |   |   |                 |                   |                   |                 |     |      |

√ Box for Ergo-Drive



## UNIVERSAL SOCKET

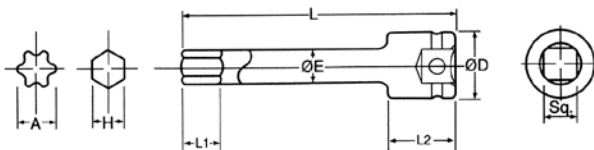
Min. Qty. 10

| Magnet |    |    | H    | L | L <sub>1</sub> | L <sub>2</sub> | A | B | $\varnothing C$ | $\varnothing D_1$ | $\varnothing D_2$ | $\varnothing E$ | $\varnothing F$ | Sq. | Qty. |
|--------|----|----|------|---|----------------|----------------|---|---|-----------------|-------------------|-------------------|-----------------|-----------------|-----|------|
| MP     | MT | MS | SIZE |   |                |                |   |   |                 |                   |                   |                 |                 |     |      |
|        |    |    | TYPE |   |                |                |   |   |                 |                   |                   |                 |                 |     |      |

√ Box for Ergo-Drive

## ALLEN HEAD/TORX HEAD

Min. Qty. 10

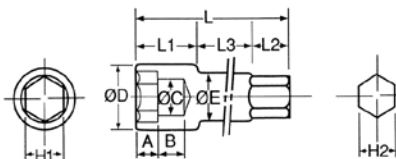


| Torx | H | L | L <sub>1</sub> | L <sub>2</sub> | $\varnothing D$ | $\varnothing E$ | Sq. | Qty. |
|------|---|---|----------------|----------------|-----------------|-----------------|-----|------|
|      |   |   |                |                |                 |                 |     |      |

√ Box for Ergo-Drive

## SOCKET ADAPTER

Min. Qty. 10

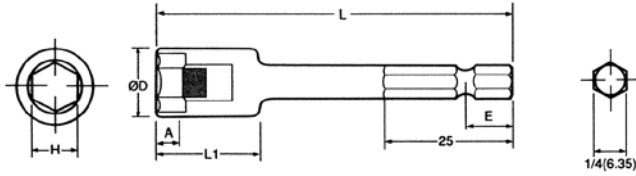


| H <sub>1</sub> | L | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | $\varnothing D$ | A | B | $\varnothing C$ | $\varnothing E$ | H <sub>2</sub> | Qty. |
|----------------|---|----------------|----------------|----------------|-----------------|---|---|-----------------|-----------------|----------------|------|
| SIZE           |   |                |                |                |                 |   |   |                 |                 |                |      |
| TYPE           |   |                |                |                |                 |   |   |                 |                 |                |      |

# SPECIAL PARTS

## (MP) MAGNETIC NUT SETTER

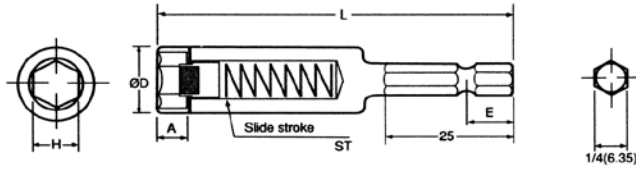
Min. Qty. 10



|      | H | L | E | L <sub>1</sub> | ØD | A | Qty. |
|------|---|---|---|----------------|----|---|------|
| SIZE |   |   |   |                |    |   |      |
| TYPE |   |   |   |                |    |   |      |

## (MS) MAGNETIC NUT SETTER

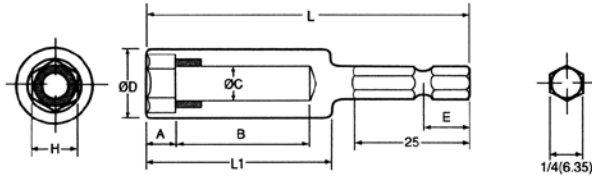
Min. Qty. 10



|      | H | L | E | ØD | A | ST | Qty. |
|------|---|---|---|----|---|----|------|
| SIZE |   |   |   |    |   |    |      |
| TYPE |   |   |   |    |   |    |      |

## (MT) MAGNETIC NUT SETTER

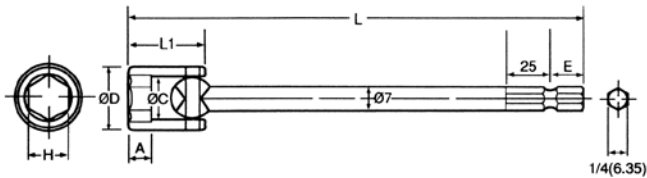
Min. Qty. 10



|      | H | L | E | L <sub>1</sub> | ØD | A | B | ØC | Qty. |
|------|---|---|---|----------------|----|---|---|----|------|
| SIZE |   |   |   |                |    |   |   |    |      |
| TYPE |   |   |   |                |    |   |   |    |      |

## UNIVERSAL NUT SETTER

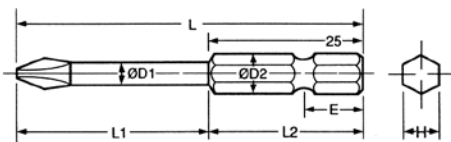
Min. Qty. 10



|  | H | L | E | L <sub>1</sub> | A | ØC | ØD | Qty. |
|--|---|---|---|----------------|---|----|----|------|
|  |   |   |   |                |   |    |    |      |

## SCREWDRIVER BIT

Min. Qty. 500



| Point Size | L | L <sub>1</sub> | L <sub>2</sub> | ØD <sub>1</sub> | ØD <sub>2</sub> | E | H | Qty. |
|------------|---|----------------|----------------|-----------------|-----------------|---|---|------|
|            |   |                |                |                 |                 |   |   |      |

CIRCLE ONE:



# CONVERSION CHARTS

## FRACTION • DECIMAL • METRIC CONVERSIONS (TO .32)

| DECIMAL | MM     | DECIMAL | MM    | DECIMAL | MM      | DECIMAL | MM     |         |       |        |         |
|---------|--------|---------|-------|---------|---------|---------|--------|---------|-------|--------|---------|
| 1/32    | .03125 | .7938   | 9/32  | .28125  | 7.1438  | 17/32   | .53125 | 13.4938 | 25/32 | .78125 | 19.8438 |
| 1/16    | .0625  | 1.5875  | 5/16  | .3125   | 7.9375  | 9/16    | .5625  | 14.2875 | 13/16 | .8125  | 20.6375 |
| 3/32    | .09375 | 2.3812  | 11/32 | .34375  | 8.7312  | 19/32   | .59375 | 15.0812 | 27/32 | .84375 | 21.4312 |
| 1/8     | .125   | 3.175   | 3/8   | .375    | 9.525   | 5/8     | .625   | 15.875  | 7/8   | .875   | 22.225  |
| 5/32    | .15625 | 3.9688  | 13/32 | .40625  | 10.3188 | 21/32   | .65625 | 16.6688 | 29/32 | .90625 | 23.0188 |
| 3/16    | .1875  | 4.7625  | 7/16  | .4375   | 11.1125 | 11/16   | .6875  | 17.4625 | 15/16 | .9375  | 23.8125 |
| 7/32    | .21875 | 5.5562  | 15/32 | .46875  | 11.9062 | 23/32   | .71875 | 18.2562 | 31/32 | .96875 | 24.6062 |
| 1/4     | .25    | 6.35    | 1/2   | .5      | 12.7    | 3/4     | .75    | 19.05   | 1     | 1.0    | 25.4    |

## THREAD SIZE TO HEX SIZE

| METRIC BOLT SIZE | SOCKET HEX SIZE (MM) | METRIC BOLT SIZE | SOCKET HEX SIZE (MM) | UNC BOLT SIZE | SOCKET HEX SIZE (IN) | SAE BOLT SIZE | SOCKET HEX SIZE (IN) |
|------------------|----------------------|------------------|----------------------|---------------|----------------------|---------------|----------------------|
| M 2              | 4                    | M 27             | 41                   | 1/4           | 7/16                 | 1/4           | 7/16                 |
| M 2.3            | 4.5                  | M 30             | 46                   | 5/16          | 1/2                  | 5/16          | 1/2                  |
| M 2.6            | 5                    | M 33             | 50                   | 3/8           | 9/16                 | 3/8           | 9/16                 |
| M 3              | 5.5                  | M 36             | 55                   | 7/16          | 11/16                | 7/16          | 5/8                  |
| M 3.5            | 6                    | M 39             | 60                   | 1/2           | 3/4                  | 1/2           | 3/4                  |
| M 4              | 7                    | M 42             | 65                   | 9/16          | 7/8                  | 9/16          | 7/8                  |
| M 5              | 8                    | M 45             | 70                   | 5/8           | 15/16                | 5/8           | 15/16                |
| (M 5-6)          | 9                    | M 48             | 75                   | 3/4           | 1-1/8                | 3/4           | 1-1/16               |
| M 6              | 10                   | M 52             | 80                   | 7/8           | 1-5/16               | 7/8           | 1-1/4                |
| M 7              | 11                   | M 56             | 85                   | 1             | 1-1/2                | 1-1/8         | 1-7/16               |
| M 8              | 13                   | M 60             | 90                   | 1-1/8         | 1-11/16              | 1-1/4         | 1-13/16              |
| (M 8)            | 14                   | M 64             | 95                   | 1-1/4         | 1-7/8                | 1-3/8         | 2                    |
| M 10             | 16                   | M 68             | 100                  | 1-3/8         | 2-1/16               | 1-1/2         | 2-3/16               |
| (M 10)           | 17                   | M 72             | 105                  | 1-1/2         | 2-1/4                |               |                      |
| M 12             | 18                   | M 76             | 110                  | 1-3/4         | 2-5/8                |               |                      |
| (M 12)           | 19                   | M 80             | 115                  | 2             | 3                    |               |                      |
| M 14             | 21                   | M 85             | 120                  | 2-1/4         | 3-3/8                |               |                      |
| (M 14)           | 22                   | M 90             | 130                  | 2-1/2         | 3-3/4                |               |                      |
| M 16             | 24                   | M 95             | 135                  |               |                      |               |                      |
| M 18             | 27                   | M 100            | 145                  |               |                      |               |                      |
| M 20             | 30                   | M 105            | 150                  |               |                      |               |                      |
| (M 22)           | 32                   | M 110            | 155                  |               |                      |               |                      |
| M 22             | 34                   | M 115            | 165                  |               |                      |               |                      |
| M 24             | 36                   | M 120            | 170                  |               |                      |               |                      |

## TORQUE CONVERSION FACTORS

| UNITS TO BE CONVERTED | = | SAE    |        |         | METRIC |        |         | INTERNATIONAL SYSTEM - S.I. |       |        |
|-----------------------|---|--------|--------|---------|--------|--------|---------|-----------------------------|-------|--------|
|                       |   | OZF-IN | LBF-IN | LBF-FT  | GF-CM  | KGF-CM | KGF-M   | MNM                         | CNM   | NM     |
| 1 ozf-in              | = | 1      | 0.0625 | 0.005   | 72     | 0.072  | 0.0007  | 7.062                       | 0.706 | 0.007  |
| 1 lbf-in              | = | 16     | 1      | 0.083   | 1152.1 | 1.152  | 0.0115  | 113                         | 11.3  | 0.113  |
| 1 lbf-ft              | = | 192    | 12     | 1       | 13826  | 13.83  | 0.138   | 1356                        | 135.6 | 1.356  |
| 1 gf-cm               | = | 0.014  | 0.0009 | 0.00007 | 1      | 0.001  | 0.00001 | 0.098                       | 0.01  | 0.0001 |
| 1 kgf-cm              | = | 13.89  | 0.868  | 0.072   | 1000   | 1      | 0.01    | 98.07                       | 9.807 | 0.098  |
| 1 kgf-m               | = | 1389   | 86.8   | 7.233   | 100000 | 100    | 1       | 9807                        | 980.7 | 9.807  |
| 1 mN-m                | = | 0.142  | 0.009  | 0.0007  | 10.2   | 0.01   | 0.0001  | 1                           | 0.1   | 0.001  |
| 1 cN-m                | = | 1.42   | 0.088  | 0.007   | 102    | 0.102  | 0.001   | 10                          | 1     | 0.01   |
| 1 N-m                 | = | 141.6  | 8.851  | 0.738   | 10197  | 10.20  | 0.102   | 1000                        | 100   | 1      |









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