

CATALOG • 2016



*ACHIEVING ASSEMBLY EXCELLENCE*

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



For over 40 years AIMCO has been working with manufacturers around the world, we are the complete global source for all assembly, fastening, and critical bolting needs. AIMCO can effectively and swiftly meet your needs whether you're in Thailand fastening a 3 mm nut at 3 Nm, or in Tennessee, USA torquing the last lug nut. AIMCO provides the tools and solutions, on a global scale, that guarantee the success of your project. It is with great pride that AIMCO can say the products that we manufacture are **MADE IN THE USA.**

# TABLE OF CONTENTS

## ACRADYNE®

GEN IV CONTROLLER	10-12
CONTROLLER SOFTWARE	13
1000 SERIES NUTRUNNERS	14-15
1000, 2000 & 5000 SERIES PISTOL GRIP NUTRUNNERS	16-17
2000, 3000 & 5000 SERIES ANGLE / INLINE NUTRUNNERS	18-21
5000 SERIES FIXTURED NUTRUNNERS	22
TUBENUT NUTRUNNERS AND SPECIALTY GEARHEADS	23
HOLD & DRIVE NUTRUNNERS	24
MID-EXIT CABLE NUTRUNNERS	25
RIV-NUT NUTRUNNERS	26
HT SERIES D/C TOOLS	27
HT SERIES D/C ANGLE TOOLS	28
HT SERIES DUAL LEVER AND GEARHEAD TOOLS	29
HT SERIES NOSE EXTENSIONS AND ACCESSORIES	30
TOOL / SPINDLE SELECTION GUIDE	32-33
ACCESSORIES	34-36
HT SERIES PNEUMATIC TOOLS	37
HT SERIES PNEUMATIC TOOL ACCESSORIES	38
ACRADYNE® SYSTEMS	39

## URYU

FIXTURED F-SERIES NUTRUNNERS	40-43
CONTROLLERS	44-48
CONTROLLED PULSE TOOLS AND CONTROLLER	49-54
CONTROLLER ACCESSORIES	55-56

## AUDITOR™

TORQUE MEASUREMENT: OVERVIEW	57-59
TORQUE MEASUREMENT SYSTEMS	60
TORQUE MEASUREMENT TESTERS	61-63
TORQUE MEASUREMENT ANALYZERS	64-69
TOOL MANAGER / AUDIT MANAGER	70
HIGH-CAPACITY TEST STANDS	71-73
AUDITOR TORQUE WRENCHES	74-77
SCS TORQUE WRENCHES	78-81
TORQUE CARTS	82-83
DATAPRO + SNET SOFTWARE	84
TRANSDUCERS	85-86
RUNDOWN FIXTURES / JOINT SIMULATORS	87-89
TORQUE MEASUREMENT CABLES	90
APPENDICES	92-95

## POWER TOOLS

AIMCO PULSE TOOLS: OVERVIEW	96-97
UAT SERIES	98-99
OMEGA PULSE TOOLS: UL SERIES	100
ACRA-PULSE® SERIES	101-103
UDBP PULSE SERIES CORDLESS TOOLS	104-105
UDP-TA SERIES	106
NUTRUNNERS: OVERVIEW	107
NUTRUNNERS	108-109
DYNATORQUE MANUAL TORQUE MULTIPLIERS	110-111
SCREWDRIVERS: OVERVIEW	112
PNEUMATIC SCREWDRIVERS	113-115
SIGNATURE SERIES CORDLESS TOOLS	116-118
ELECTRIC SCREWDRIVERS	119-121
IMPACT TOOLS	122
GRINDERS AND SANDERS	123
DRILLS & PERCUSSION TOOLS	124

## ASSEMBLY SYSTEMS

SCREW PRESENTERS: OVERVIEW	125
A-50 SCREW PRESENTERS	126
ACRA-FEED AUTOMATIC SCREW FEED SYSTEMS	127

## TOOL SUPPORT SYSTEMS

BALANCERS / RETRACTORS	128-129
ERGO-ARM® TOOL SUPPORT SYSTEMS	130
ERGO-ARM® ACCESSORIES / LINEAR ARM	131
CUSTOM REACTION DEVICES	131
CARBON TORQUE ARMS / TUBES	132-133
WORKSTATION COMPONENTS AND ASSEMBLIES	134-135
AIR PREPARATION UNITS	136
AIR LINE	137-138

## FASTENER TOOLS

STANDARD FASTENER TOOLS	139-141
ERGO-DRIVE® SERIES <b>E</b> *	142-143
CUSTOM / SPECIAL PARTS	144-147
CONVERSION CHARTS	148

AIMCO



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

ERGO-DRIVE sockets are uniquely designed to seat deeper on the tool anvil while an O-ring inside the socket fits tight onto the anvil to reduce vibration. By reducing run-out and vibration, ERGO-DRIVE sockets allow the most repeatable, accurate rundowns, ensuring 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 142 for ERGO-DRIVE details.



## PRODUCTIVITY

*The speed and efficiency of the assembly process*

Every manufacturer wants to produce finished goods in the most cost-effective manner possible. Whether the customer is 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

*The relationship between assembler and the assembly process*

Employees are the most important assets of any company. Protecting these individuals from job related health issues is critical. To help its customers face the challenges surrounding ergonomics, AIMCO focuses on providing products that combine a lack of torque reaction, low vibration, light weight, as well as quiet and simple operation. 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

*The total cost of tool maintenance and repair*

To keep production lines running, tools must perform reliably. 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 adhere to process requirements*

The most important challenge faced by many companies is to meet the customer's demands for quality. AIMCO provides assembly tools that have been 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.



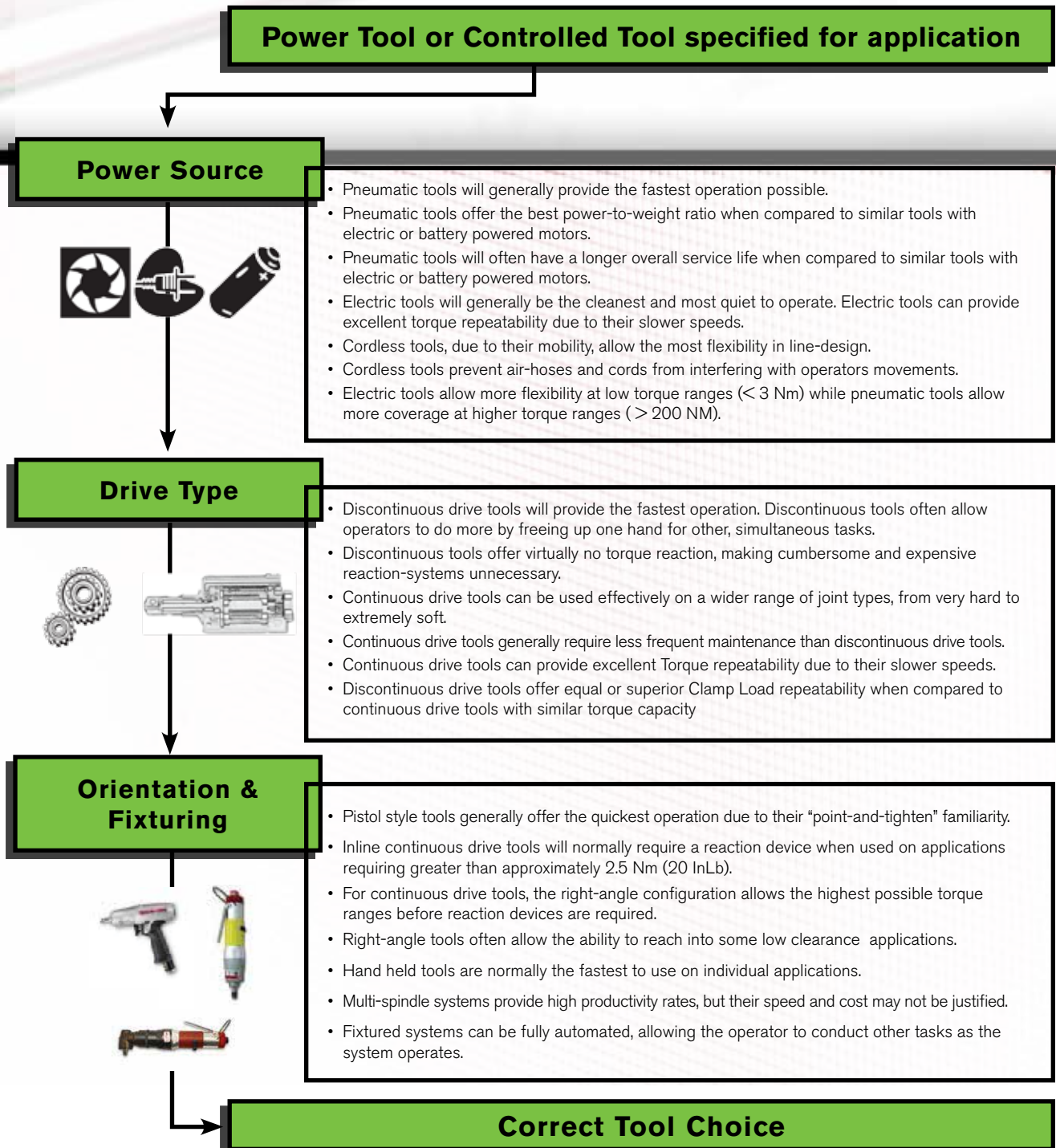


PERQ<sup>®</sup> is the industry-standard formula that matches the needs of manufacturers with the assembly tools they use in their processes.

AIMCO and its distributors evaluate each manufacturer based on the PERQ<sup>®</sup> formula to determine that company's unique blend of the PERQ<sup>®</sup> elements – productivity, ergonomics, reliability and quality – we then provide tooling options that will 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<sup>®</sup> with AIMCO's vast experience and unequalled service will enable any manufacturer to succeed in the global marketplace.

Each of the PERQ<sup>®</sup> elements acts as a gear – each interacts with the others to affect the overall profitability of the manufacturing process. AIMCO looks at each step in the manufacturing process to determine the best type of tool, or equipment, for that application. Only AIMCO, with its extensive product lineup, can offer the manufacturer the ideal tool for the job, whether it be continuous drive or pulse tool, electric, pneumatic or battery powered.





## OVERVIEW

### *The speed and efficiency of the assembly process*

AIMCO's commitment to you doesn't end with the purchase of our tools. 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.

One of the many benefits of purchasing AIMCO tools is the opportunity to attend our Tool-U training. AIMCO believes this is one of the greatest assets we can offer you. AIMCO has spent valuable time

and dollars in setting up a training program at our corporate headquarters in Portland, Oregon, that will enable your team to receive effective technical and practical training. Our training program is not performed in just one corner of our facility; virtually our entire facility is accessed for training individuals tailored to their specific needs and applications. This is essential for the continued success of our training.



Tool Training & Support

The objective of the Tool-U program is to train your team from a technical aspect, learning how to effectively trouble shoot in order to reduce down time, as well as testing and proper use of the tool for maximum performance.

We do not depend on just one individual to train our customers; AIMCO utilizes a team of experts to share their knowledge with you. Our training programs have been designed to cover all elements influencing the fastening process. The first key to success is

understanding the mechanics of the fastened joint; AIMCO then explores the synergy between the joint, power tool, torque measurement and operator handling. The knowledge you gain from participating in the Tool University program can be applied to almost any assembly process regardless of the tool brand.

AIMCO is so committed to ensuring you receive proper training that this program is offered to our customers at no charge.



# SERVICE

## OVERVIEW

*The speed and efficiency of the assembly process*

AIMCO's Technical and Repair Service departments are one of the biggest value adds in the industry. We don't just work for you, we work with you. AIMCO's Repair and Technical Field Services provide support unmatched by our competitors. 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.



## GUARANTEED

*The relationship between assembler and the assembly process*

When AIMCO receives tools and equipment for servicing, they are pre-tested and inspected to identify issues and provide pertinent feedback to the user on getting the most out of their tool investment. We provide precise repair estimates giving the best value for your money. 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.







## **CUSTOMER SERVICE**

*The total cost of tool maintenance and repair*

To keep production lines running, tools must perform reliably. 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.

## **FOLLOW THROUGH**

*The ability of the tool to adhere to process requirements*

The most important challenge faced by most companies is to meet its customer's demands for quality. AIMCO provides assembly tools that have been tested and proven to meet the most stringent engineering specifications. 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 CONTROLLER



## GEN IV CONTROLLER


The AcraDyne Gen IV controller 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 Controller is the core of the modular AcraDyne DC system. One controller will command any tool in the AcraDyne line from 0.5 Nm to 8100 Nm, all with one cable.

## FEATURES AND BENEFITS

- Backward compatible – Works with any Gen III tool from 0.5 Nm – 8100 Nm.
- Bright LED screen – View Torque, Angle, Bolt Count, Parameter Set, Job/Sequence easily from a distance.
- Graphical Screen with on-board software that is the same on all devices.
- Web browser based programing – 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.
- Backup & Restore through USB or Ethernet.
- Removable Flash Memory.
- Assignable I/O (8 X 8).
- Rundown storage – 10,000, including the curves.
- Event log – 5000.
- Real-time curve viewing.
- Programmable Calibration and Service alerts.
- Top exit tool cable option available.



## NETWORKING CAPABILITIES

- Ethernet Protocols including Open Protocol, Ethernet/IP & PFCS.
- Modular field bus connectivity: PROFIBUS, DeviceNET, Modbus TCP, or any Fieldbus offered by 
- Data collection.
- Serial protocols and string output.
- Bar Code Scanning & printing.
- Multi-spindle synchronization.

# ACRADYNE® GEN IV CONTROLLER

**Four Digit Torque Display**

**Secondary Display**  
Allows user to easily set and toggle through information:

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

**Optional 7" Graphical Display**

- Runs the same software on PC for ease of use.
- Real Time Graphing for Application Review.
- Selectable Run Screens.
- Touch-screen



**LED 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.

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*	DEVICENET	PROFIBUS
iEC4E	X	L/D		X	X	X		
iEC4EV(T)	X	L/D	X	X	X	X		
iEC4EG(T)	X	L/D/G		X	X	X		
iEC4EGV(T)	X	L/D/G	X	X	X	X		
iEC4ED	X	L/D		X	X	X	X	
iEC4EP	X	L/D		X	X	X		X
iEC4EVD	X	L/D	X	X	X	X	X	
iEC4EVP(T)	X	L/D	X	X	X	X		X
iEC4EGD	X	L/D/G		X	X	X	X	
iEC4EGP	X	L/D/G		X	X	X		X
iEC4EGVD	X	L/D/G	X	X	X	X	X	
iEC4EGVP	X	L/D/G	X	X	X	X		X

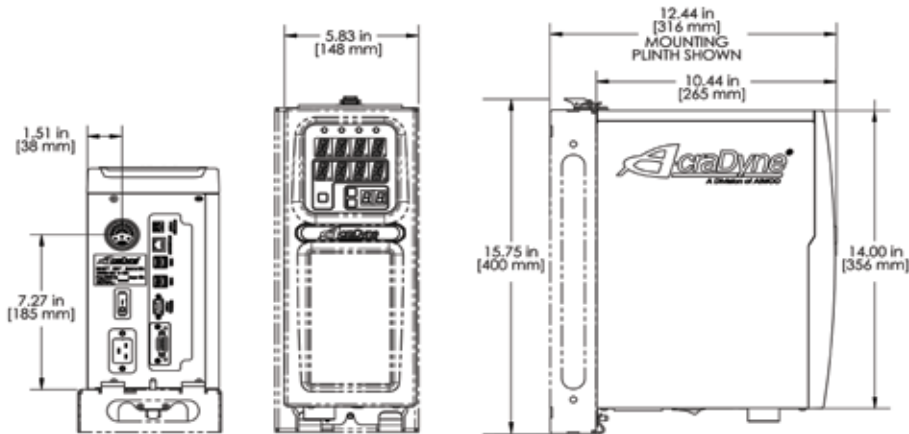
\* Ethernet channel supports The Open Protocol, Toolsnet, EtherNet/IP, Modbus/TCP, and other protocols.  
Add (-T) to model number for top exit tool cable option

# ACRADYNE® GEN IV CONTROLLER

## NETWORK CONNECTIVITY



## DIMENSIONS



WIDTH	HEIGHT	DEPTH	WEIGHT
5.83 in / 148 mm	15.75 in / 400 mm	12.44 in / 316 mm	15.65 lbs / 7.1 kg

## 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.

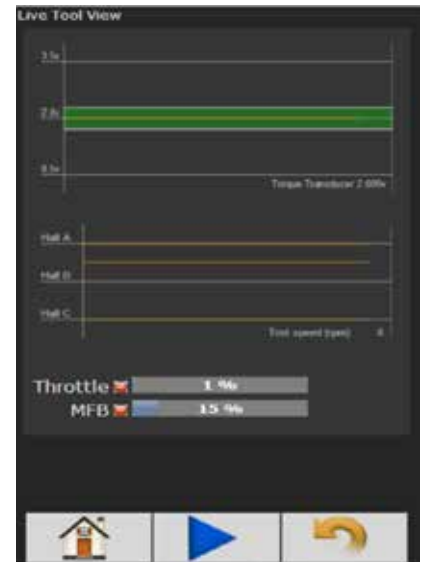
The software is based on a standard web browser. This allows you to connect the AcraDyne controller with any computer, tablet, or smart device. Connect through Ethernet, USB, or wirelessly via a network to which both devices are connected.



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 one of the up to 10000 stored in memory to program the application for optimal performance



Tool programming and diagnostics for repair, calibration and advanced troubleshooting



Several run screens to choose from. The large screen indicators are helpful in viewing real time results of the rundown from a distance

# ACRADYNE® 1000 SERIES NUTRUNNERS

## FEATURES AND BENEFITS

Superior -

- Size
- Speed
- Duty Cycle



Angle



Fixtured  
Rear Exit Cable



In-line



Fixtured  
Bottom Exit Cable



Push-to-Start



## APPLICATION DATA

1000 SERIES	NM	MAX TORQUE FT-LB	NM	TORQUE RANGE FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
<b>ANGLE*</b>									
AEN4C12004B	4	3	1 - 4	0.7 - 3	3,111	2.0		0.91	1/4 Q.C.
AEN4C12009B	9	6.6	2.3 - 9	1.7 - 6.6	1,750	2.2		1.00	3/8 sq. dr.
AEN4C12014B	14	10	3.5 - 14	2.6 - 10	875	2.2		1.00	3/8 sq. dr.
AEN4C12018B	18	13	4.5 - 18	3.3 - 13	691	2.2		1.00	3/8 sq. dr.
AEN4C12022B	22	16	5.5 - 22	4.1 - 16	560	2.2		1.00	3/8 sq. dr.
<b>IN-LINE**</b>									
AES4A12003B(V)(Q)	3	2.2	0.8 - 3	0.6 - 2.2	2,625	2.0		0.91	3/8 sq. dr.
AES4A12006B(V)(Q)	6	4.4	1.5 - 6	1.1 - 4.4	2,625	2.0		0.91	3/8 sq. dr.
AES4A12011B(V)(Q)	11	8.1	2.8 - 11	2 - 8.1	1,313	2.2		1.00	3/8 sq. dr.
AES4A12014B(V)(Q)	14	10	3.5 - 14	2.6 - 10	1,037	2.2		1.00	3/8 sq. dr.
AES4A12018B(V)	18	13	4.5 - 18	3.3 - 13	840	2.2		1.00	3/8 sq. dr.
AES4A12022B(V)	22	16	5.5 - 22	4.1 - 16	656	2.2		1.00	3/8 sq. dr.
<b>PUSH-TO-START</b>									
AEL4A12003B(Q)	3	2.2	0.8 - 3	0.6 - 2.2	2,625	2.0		0.91	3/8 sq. dr.
AEL4A12006B(Q)	6	4.4	1.5 - 6	1.1 - 4.4	2,625	2.0		0.91	3/8 sq. dr.
AEL4A12011B(Q)	11	8.1	2.8 - 11	2 - 8.1	1,313	2.2		1.00	3/8 sq. dr.
AEL4A12014B(Q)	14	10	3.5 - 14	2.6 - 10	1,037	2.2		1.00	3/8 sq. dr.
AEL4A12018B	18	13	4.5 - 18	3.3 - 13	840	2.2		1.00	3/8 sq. dr.
AEL4A12022B	22	16	5.5 - 22	4.1 - 16	656	2.2		1.00	3/8 sq. dr.
<b>FIXTURED***</b>									
AEF4(A)(C)(X)12003B(B)	3	2.2	0.8 - 3	0.6 - 2.2	2,625	2.0		0.91	3/8 sq. dr.
AEF4(A)(C)(X)12006B(B)	6	4.4	1.5 - 6	1.1 - 4.4	2,625	2.0		0.91	3/8 sq. dr.
AEF4(A)(C)(X)12011B(B)	11	8.1	2.8 - 11	2 - 8.1	1,313	2.2		1.00	3/8 sq. dr.
AEF4(A)(C)(X)12014B(B)	14	10	3.5 - 14	2.6 - 10	1,037	2.2		1.00	3/8 sq. dr.
AEF4(A)(C)(X)12018B(B)	18	13	4.5 - 18	3.3 - 13	840	2.2		1.00	3/8 sq. dr.
AEF4(A)(C)(X)12022B(B)	22	16	5.5 - 22	4.1 - 16	656	2.2		1.00	3/8 sq. dr.

\* Add "F" to part numbers for flush socket.

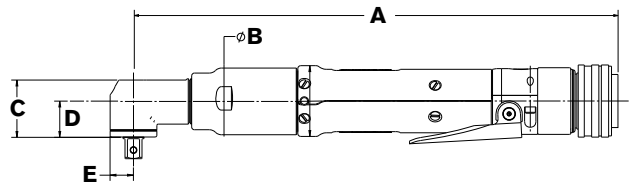
\*\* "V" indicates extended Ergo-Drive output  Replace "V" with "Q" for 1/4" quick change output.

\*\*\* Add "A" to part numbers for 1/2" sliding spindle models. Add "C" to part numbers for 1-3/4" sliding spindle models. Add "X" to part numbers for fixed 3/8" square drive output models.

\*\*\* Add "B" to part numbers for bottom exit cable.

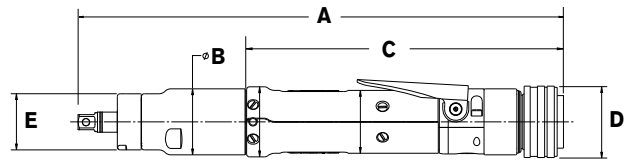
\*  logo indicates where ERGO-DRIVE sockets/extensions benefit tool operation.

# ACRADYNE® 1000 SERIES NUTRUNNERS



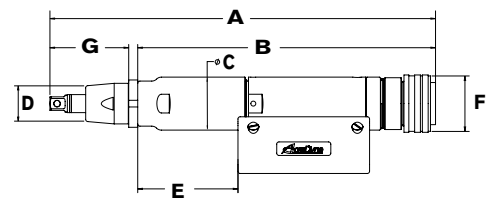
## DIMENSIONS

ANGLE	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)	MM	IN	(E)	MM
AEN4C12004B	11.65		295.9	1.47		37.3	.98		24.8	.62		15.8	.40		10.2
AEN4C12009B	11.00		279.5	1.47		37.3	1.29		32.8	.82		20.9	.52		13.1
AEN4C12014B	11.66		296.4	1.47		37.3	1.29		32.8	.82		20.9	.52		13.1
AEN4C12018B	11.66		296.4	1.47		37.3	1.29		32.8	.82		20.9	.52		13.1
AEN4C12022B	11.66		296.4	1.47		37.3	1.29		32.8	.82		20.9	.52		13.1



## DIMENSIONS

INLINE	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)	MM	IN	(E)	MM
AES4A12003B	11.12		282.7	1.47		37.3	7.38		187.5	1.59		40.4	1.25		31.8
AES4A12006B	11.12		282.7	1.47		37.3	7.38		187.5	1.59		40.4	1.25		31.8
AES4A12011B	11.44		290.5	1.47		37.3	7.38		187.5	1.59		40.4	1.25		31.8
AES4A12014B	11.44		290.5	1.56		39.6	7.38		187.5	1.59		40.4	1.25		31.8
AES4A12018B	11.44		290.5	1.47		37.3	7.38		187.5	1.59		40.4	1.25		31.8
AES4A12022B	11.44		290.5	1.47		37.3	7.38		187.5	1.59		40.4	1.25		31.8
PUSH-TO-START	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)	MM	IN	(E)	MM
AEL4A12003B	11.31		287.3	1.56		39.6	7.38		187.5	1.59		40.4	1.25		31.8
AEL4A12006B	11.32		287.4	1.56		39.6	7.38		187.5	1.59		40.4	1.25		31.8
AEL4A12011B	11.62		295.4	1.56		39.6	7.38		187.5	1.59		40.4	1.25		31.8
AEL4A12014B	11.62		295.4	1.56		39.6	7.38		187.5	1.59		40.4	1.25		31.8
AEL4A12018B	11.62		295.4	1.56		39.6	7.38		187.5	1.59		40.4	1.25		31.8
AEL4A12022B	11.62		295.4	1.56		39.6	7.38		187.5	1.59		40.4	1.25		31.8



## DIMENSIONS

FIXTURED	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)	MM	IN	(E)	MM	IN	(F)	MM	IN	(G)	MM
AEF4A12003B	11.53		292.9	9.10		231.04	1.47		37.3	1.13		28.57	2.06		52.2	1.59		40.4	2.18		55.5
AEF4A12006B	11.53		292.9	9.10		231.04	1.47		37.3	1.13		28.57	2.06		52.2	1.59		40.4	2.18		55.5
AEF4A12011B	12.20		309.8	9.10		231.04	1.47		37.3	1.13		28.57	2.72		69.1	1.59		40.4	2.18		55.5
AEF4A12014B	12.20		309.8	9.10		231.04	1.47		37.3	1.13		28.57	2.72		69.1	1.59		40.4	2.18		55.5
AEF4A12018B	12.20		309.8	9.10		231.04	1.47		37.3	1.13		28.57	2.72		69.1	1.59		40.4	2.18		55.5
AEF4A12022B	12.20		309.8	9.10		231.04	1.47		37.3	1.13		28.57	2.72		69.1	1.59		40.4	2.18		55.5
AEF4C12003B	15.32		389.2	9.10		231.04	1.47		37.3	1.13		28.57	2.06		52.2	1.59		40.4	5.98		151.8
AEF4C12006B	15.32		389.2	9.10		231.04	1.47		37.3	1.13		28.57	2.06		52.2	1.59		40.4	5.98		151.8
AEF4C12011B	15.99		406.1	9.10		231.04	1.47		37.3	1.13		28.57	2.72		69.1	1.59		40.4	5.98		151.8
AEF4C12014B	15.99		406.1	9.10		231.04	1.47		37.3	1.13		28.57	2.72		69.1	1.59		40.4	5.98		151.8
AEF4C12018B	15.99		406.1	9.10		231.04	1.47		37.3	1.13		28.57	2.72		69.1	1.59		40.4	5.98		151.8
AEF4C12022B	15.99		406.1	9.10		231.04	1.47		37.3	1.13		28.57	2.72		69.1	1.59		40.4	5.98		151.8
AEF4X12003B	9.35		237.5	9.10		231.04	1.47		37.3	1.13		28.57	2.06		52.2	1.59		40.4	.80		20.4
AEF4X12006B	9.35		237.5	9.10		231.04	1.47		37.3	1.13		28.57	2.06		52.2	1.59		40.4	.80		20.4
AEF4X12011B	10.00		254.4	9.10		231.04	1.47		37.3	1.13		28.57	2.72		69.1	1.59		40.4	.80		20.4
AEF4X12014B	10.00		254.4	9.10		231.04	1.47		37.3	1.13		28.57	2.72		69.1	1.59		40.4	.80		20.4
AEF4X12018B	10.00		254.4	9.10		231.04	1.47		37.3	1.13		28.57	2.72		69.1	1.59		40.4	.80		20.4
AEF4X12022B	10.00		254.4	9.10		231.04	1.47		37.3	1.13		28.57	2.72		69.1	1.59		40.4	.80		20.4

# ACRADYNE® PISTOL GRIP NUTRUNNERS

## FEATURES AND BENEFITS

- Cable configurations available in rear exit, bottom exit, or right angle exit.
- Configured with AcraDyne's multi-function button (MFB) enabling flexibility in operation.
- On-board lights and audible signal for operator feedback.
- Push-To-Start models also available.



Top Exit Cable



Rear Exit Cable



Bottom Exit Cable

## APPLICATION DATA

1000 SERIES*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
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 SQ. DR*
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 SQ. DR*
AEP4(A)(R)(T)12011B(V)(Q)	11		8.1	2.8 - 11		2 - 8.1	1,313	2.3		1.04	3/8 SQ. DR.
AEP4(A)(R)(T)12014B(V)(Q)	14		10	3.5 - 14		2.6 - 10	1,037	2.3		1.04	3/8 SQ. DR.
AEP4(A)(R)(T)12018B(V)	18		13	4.5 - 18		3.3 - 13	840	2.3		1.04	3/8 SQ. DR.
AEP4(A)(R)(T)12022B(V)	22		16	5.5 - 22		4.1 - 16	656	2.3		1.04	3/8 SQ. DR.

2000 SERIES*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
AEP4(A)(R)(T)22020B(V)	20		14	5 - 20		3.7 - 14	1,313	2.4		1.09	3/8 SQ. DR.
AEP4(A)(R)(T)22025B(V)	25		18	6.3 - 25		4.6 - 18	1,037	2.4		1.09	3/8 SQ. DR.
AEP4(A)(R)(T)22030B(V)	30		22	7.5 - 30		5.5 - 22	840	2.4		1.09	3/8 SQ. DR.
AEP4(A)(R)(T)22035B(V)	35		25	8.8 - 35		6.5 - 25	747	2.4		1.09	3/8 SQ. DR.
AEP4(A)(R)(T)22040B(V)	40		29	10 - 40		7.4 - 29	656	2.4		1.09	3/8 SQ. DR.

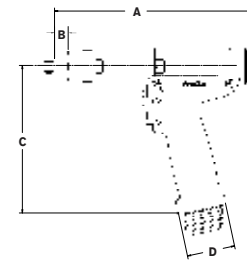
\* Add "Q" to part numbers for 1/4" quick change output standard

Add "A" to part numbers for bottom exit cable models,

Add "R" to part numbers for rear exit cable models,


Add "T" to part numbers for top exit cable models,

"V" indicates extended Ergo-Drive output  Replace "V" with "Q" for 1/4" quick change output.  
Push To Start models available by special order.



## DIMENSIONS

1000 SERIES	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)	MM
AEP412003BV	7.34		186.3	0.54		13.7	6.01		152.6	1.96		49.7
AEP412006BV	7.34		186.3	0.54		13.7	6.01		152.6	1.96		49.7
AEP412011BV	8.00		203.3	0.54		13.7	6.01		152.6	1.96		49.7
AEP412014BV	8.00		203.3	0.54		13.7	6.01		152.6	1.96		49.7
AEP412018BV	8.00		203.3	0.54		13.7	6.01		152.6	1.96		49.7
AEP412022BV	8.00		203.3	0.54		13.7	6.01		152.6	1.96		49.7
2000 SERIES	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)	MM
AEP422020BV	8.66		219.9	0.56		14.2	6.87		174.4	1.96		49.7
AEP422025BV	8.66		219.9	0.56		14.2	6.87		174.4	1.96		49.7
AEP422030BV	8.66		219.9	0.56		14.2	6.87		174.4	1.96		49.7
AEP422035BV	8.66		219.9	0.56		14.2	6.87		174.4	1.96		49.7
AEP422040BV	8.66		219.9	0.56		14.2	6.87		174.4	1.96		49.7

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



# ACRADYNE® PISTOL GRIP NUTRUNNERS



AEP35075AV  
AEP35090AV  
AEP35110AV  
AEP35135AV  
AEP35170AV



AEP35280A  
AEP35350A  
AEP35420A  
AEP35515A  
AEP35635A

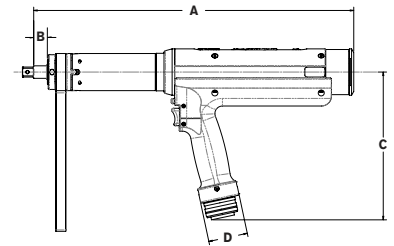
## APPLICATION DATA

5000 SERIES	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
AEP35075AV(T)	75		55	19 - 75	14 - 55		944	9.2		4.17	1/2 SQ. DR.
AEP35090AV(T)	90		66	23 - 90	17 - 66		767	9.2		4.17	1/2 SQ. DR.
AEP35110AV(T)	110		81	28 - 110	21 - 81		634	9.2		4.17	1/2 SQ. DR.
AEP35135AV(T)	135		99	34 - 135	25 - 99		515	9.2		4.17	1/2 SQ. DR.
AEP35170AV(T)	170		125	43 - 170	32 - 125		418	9.2		4.17	1/2 SQ. DR.
AEP35280A(T)	280		206	70 - 280	52 - 207		236	13.6		6.17	3/4 SQ. DR.
AEP35350A(T)	350		258	88 - 350	65 - 258		192	13.6		6.17	3/4 SQ. DR.
AEP35420A(T)	420		310	105 - 420	78 - 310		159	13.6		6.17	3/4 SQ. DR.
AEP35515A(T)	515		380	128 - 515	95 - 380		129	13.6		6.17	3/4 SQ. DR.
AEP35635A(T)	635		468	159 - 635	117 - 469		104	13.6		6.17	3/4 SQ. DR.

"V" indicates extended Ergo-Drive output.



Add "T" to part numbers for top exit cable models.



## DIMENSIONS

5000 SERIES	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)	MM
AEP35075AV	15.95		405.2	.68		17.4	7.37		187.1	1.96		49.7
AEP35090AV	15.95		405.2	.68		17.4	7.37		187.1	1.96		49.7
AEP35110AV	15.95		405.2	.68		17.4	7.37		187.1	1.96		49.7
AEP35135AV	15.95		405.2	.68		17.4	7.37		187.1	1.96		49.7
AEP35170AV	15.95		405.2	.68		17.4	7.37		187.1	1.96		49.7
AEP35280A	18.43		468.2	1.11		28.1	7.37		187.1	1.96		49.7
AEP35350A	18.43		468.2	1.11		28.1	7.37		187.1	1.96		49.7
AEP35420A	18.43		468.2	1.11		28.1	7.37		187.1	1.96		49.7
AEP35515A	18.43		468.2	1.11		28.1	7.37		187.1	1.96		49.7
AEP35635A	18.43		468.2	1.11		28.1	7.37		187.1	1.96		49.7

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

# ACRADYNE® ANGLE NUTRUNNERS

## FEATURES AND BENEFITS

AcraDyne® angle nutrunners provide are the perfect solution to space-limited fastening applications that are not practical with inline or pistol model tools. A compact, durable head houses a precision right angle gear set which fits into the tightest of spaces and delivers a highly accurate fastening cycle. Lightweight materials and a uniform body diameter provide a comfortable grip and an ergonomically placed start lever allows for simple control.

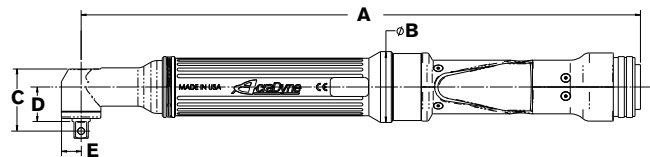


## APPLICATION DATA

2000 SERIES*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
AEN32015C(DL)	15		11	3 - 15		2.2 - 11	1,481	2.7		1.22	3/8 SQ. DR.
AEN32025C(F)(DL)	25		18	5 - 20		3.7 - 15	833	2.7		1.22	3/8 SQ. DR.
AEN32030C(F)(DL)	30		22	6 - 30		4.4 - 22	803	2.8		1.27	3/8 SQ. DR.
AEN32040C(F)(DL)	40		30	8 - 40		5.9 - 29	574	2.8		1.27	3/8 SQ. DR.
3000 SERIES*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
AEN33042C(F)	42		31	9.5 - 42		7 - 31	1,095	4.4		2.00	3/8 SQ. DR.
AEN33053C(F)	53		39	12 - 53		8 - 39	865	4.4		2.00	3/8 SQ. DR.
AEN33060C(F)(DL)	60		44	12 - 60		9 - 44	845	6.6		2.99	1/2 SQ. DR.
AEN33090C(F)(DL)	90		66	18 - 90		13 - 66	568	6.6		2.99	1/2 SQ. DR.
AEN33120C(F)(DL)	120		89	24 - 120		18 - 88	442	9.3		4.22	1/2 SQ. DR.
AEN33200C(F)(DL)	200		148	40 - 200		29 - 147	245	9.4		4.26	3/4 SQ. DR.
AEN33210C(F)(DL)	210		95	50 - 210		37 - 155	234	10.0		4.54	3/4 SQ. DR.
AEN33300C(F)(DL)	300		221	60 - 300		42 - 221	151	10.0		4.54	3/4 SQ. DR.
AEN33375C(F)(DL)	375		277	75 - 375		55 - 276	151	10.0		4.54	3/4 SQ. DR.

\* Add "F" to part numbers for flush socket.

Add "DL" to part numbers for double levers.



## DIMENSIONS

2000 SERIES	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)	MM	IN	(E)	MM
AEN32015C	14.61		371	1.85		47	1.37		34.8	.90		22.9	.52		13.1
AEN32025C	14.61		371	1.85		47	1.37		34.8	.90		22.9	.52		13.1
AEN32030C	14.42		366.2	1.85		47	1.65		41.8	1.16		29.4	.70		17.8
AEN32040C	14.42		366.2	1.85		47	1.65		41.8	1.16		29.4	.70		17.8
3000 SERIES	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)	MM	IN	(E)	MM
AEN33042C	16.63		422.33	1.85		47	1.66		42.11	1.17		29.67	.7		17.78
AEN33053C	16.63		422.33	1.85		47	1.66		42.11	1.17		29.67	.7		17.78
AEN33060C	18.92		480.53	1.85		47	1.90		48.36	1.37		34.90	.83		20.96
AEN33090C	18.92		480.53	1.85		47	1.90		48.36	1.37		34.90	.83		20.96
AEN33120C	21.00		533.46	1.85		47	2.78		70.59	2.08		52.81	1.05		26.67
AEN33200C	23.21		589.64	1.85		47	2.59		65.75	1.89		47.98	1.05		26.67
AEN33210C	23.58		598.88	1.85		47	2.90		73.53	1.97		50.04	1.25		31.75
AEN33300C	23.58		598.88	1.85		47	2.90		73.53	1.97		50.04	1.25		31.75
AEN33375C	23.58		598.88	1.85		47	2.90		73.53	1.97		50.04	1.25		31.75

# ACRADYNE® ANGLE NUTRUNNERS

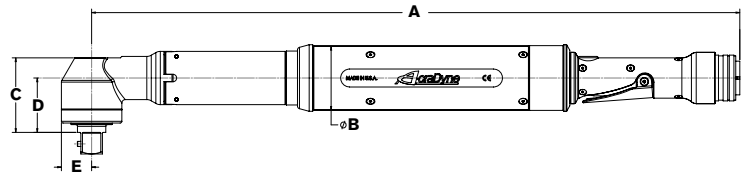


AEN 5000 Series Models

## APPLICATION DATA

5000 SERIES*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
AEN35090B(F)	90		66	23 - 90		17 - 66	607	6.9		3.13	1/2 SQ. DR.
AEN35140B(F)	140		103	35 - 140		26 - 103	472	10.4		4.72	3/4 SQ. DR.
AEN35175B(F)	175		129	44 - 175		33 - 129	384	10.5		4.76	3/4 SQ. DR.
AEN35225B(F)	225		166	56 - 225		41 - 166	291	12.3		5.58	3/4 SQ. DR.
AEN35285B(F)	285		210	71 - 285		52 - 210	236	12.3		5.58	3/4 SQ. DR.
AEN35350B(F)	350		258	88 - 350		65 - 258	191	12.3		5.58	3/4 SQ. DR.

\* Add "F" to part numbers for flush socket.



## DIMENSIONS

5000 SERIES	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)	MM	IN	(E)	MM
AEN35090B	22.59		573.7	2.31		58.7	1.90		48.4	1.37		34.9	.81		20.6
AEN35140B	22.52		571.9	2.31		58.7	2.59		65.8	1.89		48	1.05		26.7
AEN35175B	22.52		571.9	2.31		58.7	2.59		65.8	1.89		48	1.05		26.7
AEN35225B	22.88		581.1	2.31		58.7	2.90		73.5	1.97		50	1.25		31.8
AEN35285B	22.88		581.1	2.31		58.7	2.90		73.5	1.97		50	1.25		31.8
AEN35350B	22.88		581.1	2.31		58.7	2.90		73.5	1.97		50	1.25		31.8

# ACRADYNE® IN-LINE NUTRUNNERS

## FEATURES AND BENEFITS

AcraDyne® inline nutrunners are the perfect choice for fixtured fastening applications because of their compact size and durability. A uniform body diameter and a hex shaped mounting point allow for simple installation into fixture plates. Simply machine a female hex into a steel plate, insert the nutrunner, secure with the factory supplied nut and your fastening machine is assembled. A reaction bar for use in handheld applications is also included with all AcraDyne® inline nutrunners.



AES 2000 Series Models

AES 3000 Series Models

## APPLICATION DATA

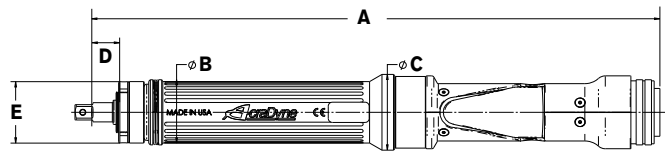
2000 SERIES*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
AES32010C(V)(Q)	10		7.4	2 - 8		1.5 - 5.9	2,222	2.5		1.13	3/8 SQ. DR.*
AES32020C(V)(Q)	20		15	4 - 16		3.0 - 12	1,250	2.5		1.13	3/8 SQ. DR.*
AES32025C(V)(Q)	25		18	5 - 20		3.7 - 15	893	3.2		1.45	3/8 SQ. DR.*
AES32038C(V)	38		28	7.5 - 30		5.5 - 22	595	4.2		1.91	3/8 SQ. DR.

3000 SERIES*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
AES33040C(V)(-2)	40		30	8 - 32		5.9 - 24	1,314	6.4		2.90	1/2 SQ. DR.
AES33060C(V)(-2)	60		44	12 - 48		8.9 - 35	883	6.4		2.90	1/2 SQ. DR.
AES33100C(V)(-2)	100		74	20 - 80		15 - 59	489	8.1		3.67	1/2 SQ. DR.
AES33150C(V)(-2)	150		111	30 - 120		22 - 89	329	8.1		3.67	1/2 SQ. DR.
AES33230B(V)(-2)	230		170	46 - 184		34 - 136	221	8.1		3.67	1/2 SQ. DR.
AES33400C	400		295	80 - 320		59 - 236	122	13.0**		5.90**	3/4 SQ. DR.
AES33600C	600		440	120 - 480		89 - 354	82	13.0**		5.90**	3/4 SQ. DR.

\* Add "Q" to part numbers for 1/4" quick change output standard. Add "V" to part numbers for standard spindle models. Add "-2" to part numbers for 2" sliding spindle models, and add 2.3 lb to the weight listed.

\*\*Includes reaction bar and fixture nut



## DIMENSIONS

2000 SERIES	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)	MM	IN	(E)	MM
AES32010CV	13.85		351.7	1.59		40.4	1.85		47	.56		14.3	1.50		38.1
AES32020CV	13.85		351.7	1.59		40.4	1.85		47	.56		14.3	1.50		38.1
AES32025CV	13.85		351.7	1.59		40.4	1.85		47	.56		14.3	1.50		38.1
AES32038CV	16.69		424	1.50		38.1	1.85		47	.51		12.9	1.50		38.1

3000 SERIES	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)	MM	IN	(E)	MM
AES33040CV	18.24		463.38	1.94		49.28	1.85		47	.68		17.17	1.85		47
AES33060CV	18.24		463.38	1.94		49.28	1.85		47	.68		17.17	1.85		47
AES33100CV	22.56		572.99	1.94		49.28	1.85		47	.68		17.17	1.85		47
AES33150CV	22.56		572.99	1.94		49.28	1.85		47	.68		17.17	1.85		47
AES33230CV	22.56		572.99	1.94		49.28	1.85		47	.68		17.17	1.85		47
AES33400C	24.90		532.36	1.94		49.28	1.85		47	1.11		28.08	2.64		67.1
AES33600C	24.90		532.36	1.94		49.28	1.85		47	1.11		28.08	2.64		67.1

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

# ACRADYNE® IN-LINE NUTRUNNERS

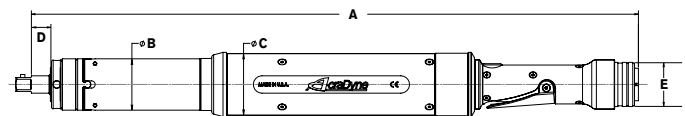


AES 5000 Series Models

## APPLICATION DATA

5000 SERIES	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
AES35075AV	75		55	19 - 75		14 - 55	944	9.2		4.17	1/2 SQ. DR.
AES35090AV	90		66	23 - 90		17 - 66	767	9.2		4.17	1/2 SQ. DR.
AES35110AV	110		81	28 - 110		21 - 81	634	9.2		4.17	1/2 SQ. DR.
AES35135AV	135		100	34 - 135		25 - 100	515	9.2		4.17	1/2 SQ. DR.
AES35170AV	170		126	43 - 170		32 - 126	418	9.2		4.17	1/2 SQ. DR.
AES35280A	280		207	70 - 280		52 - 207	236	12.8		5.81	3/4 SQ. DR.
AES35350A	350		258	88 - 350		65 - 258	192	12.8		5.81	3/4 SQ. DR.
AES35420A	420		310	105 - 420		78 - 310	159	12.8		5.81	3/4 SQ. DR.
AES35515A	515		380	128 - 515		95 - 380	129	12.8		5.81	3/4 SQ. DR.
AES35635A	635		469	159 - 635		117 - 469	104	12.8		5.81	3/4 SQ. DR.

"V" indicates extended Ergo-Drive output.



## DIMENSIONS

5000 SERIES	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)	MM	IN	(E)	MM
AES35075AV	21.86		555.2	1.85	47	2.31	58.7	.68	17.4	1.78	45.2				
AES35090AV	21.86		555.2	1.85	47	2.31	58.7	.68	17.4	1.78	45.2				
AES35110AV	21.86		555.2	1.85	47	2.31	58.7	.68	17.4	1.78	45.2				
AES35135AV	21.86		555.2	1.85	47	2.31	58.7	.68	17.4	1.78	45.2				
AES35170AV	21.86		555.2	1.85	47	2.31	58.7	.68	17.4	1.78	45.2				
AES35280A	24.22		615.1	2.64	67.1	2.31	58.7	1.11	28.1	1.78	45.2				
AES35350A	24.22		615.1	2.64	67.1	2.31	58.7	1.11	28.1	1.78	45.2				
AES35420A	24.22		615.1	2.64	67.1	2.31	58.7	1.11	28.1	1.78	45.2				
AES35515A	24.22		615.1	2.64	67.1	2.31	58.7	1.11	28.1	1.78	45.2				
AES35635A	24.22		615.1	2.64	67.1	2.31	58.7	1.11	28.1	1.78	45.2				

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

# ACRADYNE® FIXTURED NUTRUNNERS



Standard Spindle, Rear Exit Cable



Standard Spindle, Bottom Exit Cable



2" Sliding Spindle, Rear Exit Cable



2" Sliding Spindle, Bottom Exit Cable

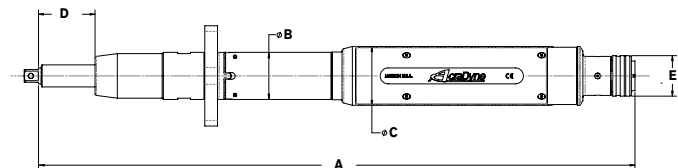
## APPLICATION DATA

5000 SERIES*	NM	MAX TORQUE FT-LB	NM	TORQUE RANGE FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
AEF35075A(V)(VB)(-2)(B-2)	75	55	19 - 75	14 - 55	944	9.6	4.35	4.35	1/2 SQ. DR.
AEF35090A(V)(VB)(-2)(B-2)	90	66	23 - 90	17 - 66	767	9.6	4.35	4.35	1/2 SQ. DR.
AEF35110A(V)(VB)(-2)(B-2)	110	81	28 - 110	21 - 81	634	9.6	4.35	4.35	1/2 SQ. DR.
AEF35135A(V)(VB)(-2)(B-2)	135	100	34 - 135	25 - 100	515	9.6	4.35	4.35	1/2 SQ. DR.
AEF35170A(V)(VB)(-2)(B-2)	170	125	43 - 170	32 - 125	418	9.6	4.35	4.35	1/2 SQ. DR.
AEF35280A(V)(VB)(-2)(B-2)	280	207	70 - 280	52 - 207	236	13.6	6.17	6.17	3/4 SQ. DR.
AEF35350A(V)(VB)(-2)(B-2)	350	258	88 - 350	65 - 258	192	13.6	6.17	6.17	3/4 SQ. DR.
AEF35420A(V)(VB)(-2)(B-2)	420	310	105 - 420	77 - 310	159	13.6	6.17	6.17	3/4 SQ. DR.
AEF35515A(V)(VB)(-2)(B-2)	515	380	128 - 515	95 - 380	129	13.6	6.17	6.17	3/4 SQ. DR.
AEF35635A(V)(VB)(-2)(B-2)	635	469	159 - 635	117 - 469	104	13.6	6.17	6.17	3/4 SQ. DR.

\* Add "V" to part numbers for standard spindle with rear exit cable models. Add "VB" to part numbers for standard spindle with bottom exit cable models.

\* Add "-2" to part numbers for 2" sliding spindle with rear exit cable models. Add "B-2" to part numbers for 2" sliding spindle with bottom exit cable models.

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



## DIMENSIONS

5000 SERIES	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)	MM	IN	(E)	MM
AEF35075AV	17.67		448.8	1.85		47	2.31		58.7	.72		18.4	1.59		40.4
AEF35090AV	17.67		448.8	1.85		47	2.31		58.7	.72		18.4	1.59		40.4
AEF35110AV	17.67		448.8	1.85		47	2.31		58.7	.72		18.4	1.59		40.4
AEF35135AV	17.67		448.8	1.85		47	2.31		58.7	.72		18.4	1.59		40.4
AEF35170AV	17.67		448.8	1.85		47	2.31		58.7	.72		18.4	1.59		40.4
AEF35075A-2	23.43		595.1	1.85		47	2.31		58.7	2.22		56.4	1.59		40.4
AEF35090A-2	23.43		595.1	1.85		47	2.31		58.7	2.22		56.4	1.59		40.4
AEF35110A-2	23.43		595.1	1.85		47	2.31		58.7	2.22		56.4	1.59		40.4
AEF35135A-2	23.43		595.1	1.85		47	2.31		58.7	2.22		56.4	1.59		40.4
AEF35170A-2	23.43		595.1	1.85		47	2.31		58.7	2.22		56.4	1.59		40.4
AEF35280A	18.43		468.2	1.11		28.1	7.37		187.1	1.96		49.7	20.4		518
AEF35350A	18.43		468.2	1.11		28.1	7.37		187.1	1.96		49.7	20.4		518
AEF35420A	18.43		468.2	1.11		28.1	7.37		187.1	1.96		49.7	20.4		518
AEF35515A	18.43		468.2	1.11		28.1	7.37		187.1	1.96		49.7	20.4		518
AEF35635A	18.43		468.2	1.11		28.1	7.37		187.1	1.96		49.7	20.4		518

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

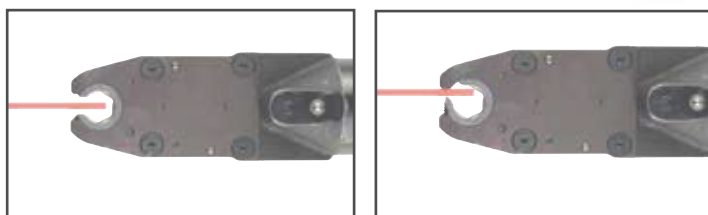
# ACRADYNE<sup>®</sup> TUBENUT NUTRUNNERS AND SPECIALTY GEARHEADS

## FEATURES AND BENEFITS

- Patented Safety Algorithm.
- Transducer senses resistance in the initial 90 degrees of rotation and returns to open upon any resistance encountered.
- Durable tubenut head design.
- Simple, one-touch back to open operation for maximum productivity.



### WITH INNOVATIVE SAFETY SENSOR TECHNOLOGY!



## APPLICATION DATA

1000 SERIES*	MAX TORQUE		TORQUE RANGE		FREE SPEED	WEIGHT (-) SOCKET	OUTPUT DRIVE
	NM	FT-LB	NM	FT-LB	RPM		
AET4AA12018B	18	13	3.6 - 14	2.7 - 11	516	3.1	7 - 12
AET4AB12025B	25	18	5 - 20	3.7 - 15	387	3.1	10 - 17
AET4A12025B-KD	25	18	5 - 20	3.7 - 15	387	3.1	10 - 17

2000 SERIES*	MAX TORQUE		TORQUE RANGE		FREE SPEED	WEIGHT (-) SOCKET	OUTPUT DRIVE
	NM	FT-LB	NM	FT-LB	RPM		
AET32020C(DL)	20	15	4 - 16	3.0 - 12	622	3.1	7 - 12
AET32025C(DL)	25	18	5 - 20	3.7 - 15	466	4.0	10 - 17
AET32035C(DL)	35	26	7 - 28	5.2 - 21	347	4.5	13 - 24
AET32050C(DL)	50	37	10 - 40	7.4 - 30	257	5.6	17 - 32

\* Add "DL" to part numbers for double levers. Request specific socket size when placing your order. AIMCO offers a wide variety of socket sizes to fit your needs. Contact AIMCO at 1-800-852-1368.

## SPECIALTY GEARHEADS

AIMCO can provide specialized heads for almost any application. Tubenut, Hold and Drive, Crow Foot, Offsets and Sliding Spindles are just a few of the head styles available. Whatever your requirements are, we will help select the head configuration to get the job done.



# ACRADYNE® HOLD & DRIVE NUTRUNNERS

## FEATURES AND BENEFITS

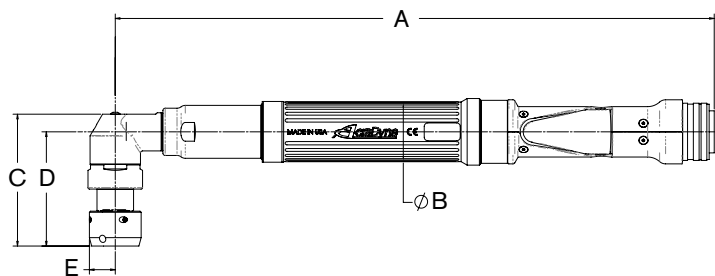
- Torques Ranging from 20 Nm – 200 Nm.
- Very Robust modern design.
- 1" and 2" travels are standard.
- Sockets and holders are custom to order.



## APPLICATION DATA

MODEL*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	WEIGHT LB		MIN/MAX SOCKET
AEH4F12020B-(1,2)	20		15	4 - 16		3 - 12	533	-1=2.8, -2=3.0		9/16 (14 MM) / 13/16 (21 MM)
AEH4F12026B-(1,2)	26		19	5 - 21		4 - 15	432	-1=2.8, -2=3.1		9/16 (14 MM) / 13/16 (21 MM)
AEH32025C-(1,2)	25		18	5 - 20		4 - 15	833	-1 = 3.5, -2=3.5		9/16 (14 MM) / 13/16 (21 MM)
AEH32030C-(1,2)	30		22	6 - 30		4 - 22	803	-1 = 3.5, -2=3.6		9/16 (14 MM) / 13/16 (21 MM)
AEH32040C-(1,2)	40		30	8 - 40		6 - 29	574	-1 = 3.5, -2=3.7		9/16 (14 MM) / 13/16 (21 MM)
AEH33042C-(1,2)	42		31	10 - 42		7 - 31	1,095	-1=5.6, -2=5.8		9/16 (14 MM) / 13/16 (21 MM)
AEH33053C-(1,2)	53		39.	12 - 53		8 - 39	865	-1=5.6, -2=5.8		9/16 (14 MM) / 13/16 (21 MM)
AEH33060C-(1,2)	60		44	12 - 60		9 - 44	845	-1=7.3, -2=7.5		5/8 (16 MM) / 1-1/4, (32 MM)
AEH33090C-(1,2)	90		66	18 - 90		13 - 66	568	-1=7.3, -2=7.6		5/8 (16 MM) / 1-1/4, (32 MM)
AEH33120C-(1,2)	120		89	24 - 120		18 - 88	442	-1=10.0, -2=10.3		5/8 (16 MM) / 1-1/4, (32 MM)
AEH33200C-(1,2)	200		148	40 - 200		29 - 147	245	-1=10.0, -2=10.4		5/8 (16 MM) / 1-1/4, (32 MM)
AEH35140B-(1,2)	140		103	35 - 140		26 - 103	472	-1=10.6, -2=11.0		5/8 (16 MM) / 1-1/4, (32 MM)
AEH35175B-(1,2)	175		129	44 - 175		33 - 129	384	-1=10.6, -2=11.1		5/8 (16 MM) / 1-1/4, (32 MM)

\* Add "1" to part numbers for 1" travel. Add "2" to part numbers for 2" travel.



## DIMENSIONS

MODEL	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)*	MM	IN	(E)	MM
AEH4F12020C-1	14.59		370.7	1.59		40.4	3.72		94.4	3.17		80.6	.76		19.3
AEH4F12026C-1	14.59		370.7	1.59		40.4	3.72		94.4	3.17		80.6	.76		9.3
AEH32025C-1	14.59		370.7	1.85		47	3.72		94.4	3.17		80.6	.76		19.3
AEH32030C-1	14.59		370.7	1.85		47	3.72		94.4	3.17		80.6	.76		19.3
AEH32040C-1	14.59		370.7	1.85		47	3.72		94.4	3.17		80.6	.76		19.3
AEH33053C-1	16.79		426.5	1.85		47	3.72		94.4	3.17		80.6	.76		19.3
AEH33060C-1	18.92		480.53	1.96		49.8	4.04		102.5	3.37		85.66	.94		23.9
AEH33090C-1	18.92		480.53	1.96		49.8	4.04		102.5	3.37		85.66	.94		23.9
AEH33120C-1	21.00		533.49	1.96		49.8	4.87		123.66	4.09		103.82	1.13		28.6
AEH33200C-1	23.21		589.5	1.96		49.8	4.87		123.66	4.09		103.82	1.13		28.6
AEH35140C-1	22.52		572.0	2.31		58.7	4.87		123.66	4.09		103.82	1.13		28.6
AEH35170C-1	22.52		572.0	2.31		58.7	4.87		123.66	4.09		103.82	1.13		28.6



# ACRADYNE® MID-EXIT CABLE NUTRUNNERS

## FEATURES AND BENEFITS

- Length
  - The tool's length is reduced by the cable exiting in front of the grip surface.
- Ergonomics
  - Torque reaction is reduced relative to pistol style tools.
  - The hand is positioned farther away from the application for more leverage. This is maximized by the cable being in front of the hand. The handle is inline putting less stress 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.
  - The front position of the cable provides easy cable management. This is especially beneficial where one plane has length constraints and at 90° is free from obstruction (vertical for Doors-On).

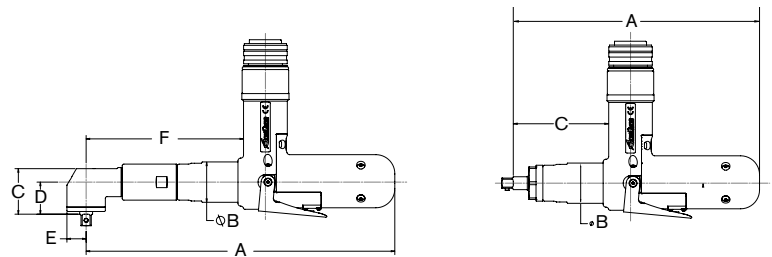


## APPLICATION DATA

Specialized heads and blades available by request. Contact AIMCO at 1-800-852-1368.

MODEL*	NM	MAX TORQUE FT-LB	NM	TORQUE RANGE FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET KG	OUTPUT DRIVE
AEN4C22015BM(F)	15	11	3.75 - 15	2.77 - 11	700	2.6	1.18	3/8 SQ. DR.
AEN4F22030BM(F)	30	22	7.5 - 30	5.53 - 22	675	3.3	1.50	3/8 SQ. DR.
AEN4F22037BM(F)	37	29	9.25 - 37	6.82 - 29	533	3.3	1.50	3/8 SQ. DR.
AEN4F22044BM(F)	44	32	11 - 40	8.11 - 29	432	3.3	1.50	3/8 SQ. DR.
AES4A22020BVM	20	15	5 - 20	3.7 - 15	1050	2.4	1.09	3/8 SQ. DR.
AES4A22025BVM	25	18	6.3 - 25	4.6 - 18	830	2.4	1.09	3/8 SQ. DR.
AES4A22030BVM	30	22	7.5 - 30	5.5 - 22	672	2.4	1.09	3/8 SQ. DR.
AES4A22040BVM	40	30	10 - 40	7.4 - 30	525	2.4	1.09	3/8 SQ. DR.

\* Add "F" to part numbers for flush socket.



## DIMENSIONS

MODEL	IN	(A) MM	IN	(B) MM	IN	(C) MM	IN	(D) MM	IN	(E) MM	IN	(F) MM
AEN4C22015BM	9.02	229.1	1.47	37.3	1.29	32.8	.82	20.9	.52	13.1	5.53	140.4
AEN4D22023BM	11.1	280.3	1.47	37.3	1.42	36.1	.92	23.4	.56	14.1	5.67	144.1
AEN4D22029BM	11.1	280.3	1.47	37.3	1.42	36.1	.92	23.4	.56	14.1	5.67	144.1
AEN4D22035BM	11.1	280.3	1.47	37.3	1.42	36.1	.92	23.4	.56	14.1	5.67	144.1
AEN4F22030BM	11.24	285.6	1.47	37.3	1.66	42.1	1.17	29.7	.70	17.8	5.73	145.6
AEN4F22037BM	11.24	285.6	1.47	37.3	1.66	42.1	1.17	29.7	.70	17.8	5.73	145.6
AEN4F22044BM	11.24	285.6	1.47	37.3	1.66	42.1	1.17	29.7	.70	17.8	5.73	145.6
AES4A22020BM	9.0	228.1	1.47	37.3	3.49	88.6						
AES4A22025BM	9.0	228.1	1.47	37.3	3.49	88.6						
AES4A22030BM	9.0	228.1	1.47	37.3	3.49	88.6						
AES4A22040BM	9.0	228.1	1.47	37.3	3.49	88.6						

# ACRADYNE® RIV-NUT NUTRUNNERS

## FEATURES AND BENEFITS

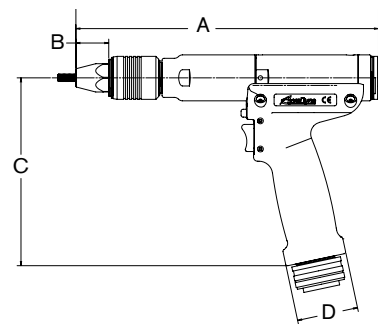
- Top and Rear exit cable are standard.
- Straight, Fixtured and Push to Start models are available by request. Contact AIMCO at 1-800-852-1368.



## APPLICATION DATA

MODEL*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
AEP4(A,R,T)12011BR	11		8.1	2.8 - 11		2 - 8.1	1,313	2.3		1.04	3/8 SQ. DR.
AEP4(A,R,T)12014BR	14		10	3.5 - 14		2.6 - 10	1,037	2.3		1.04	3/8 SQ. DR.
AEP4(A,R,T)12018BR	18		13	4.5 - 18		3.3 - 13	840	2.3		1.04	3/8 SQ. DR.
AEP4(A,R,T)12022BR	22		16	5.5 - 22		4.1 - 16	656	2.3		1.04	3/8 SQ. DR.
AEP4(A,R,T)22020BR	20		15	5 - 20		3.7 - 15	1,313	2.4		1.09	3/8 SQ. DR.
AEP4(A,R,T)22025BR	25		18	6.3 - 25		4.6 - 18	1,037	2.4		1.09	3/8 SQ. DR.
AEP4(A,R,T)22030BR	30		22	7.5 - 30		5.5 - 22	840	2.4		1.09	3/8 SQ. DR.
AEP4(A,R,T)22040BR	40		30	10 - 40		7.4 - 30	656	2.4		1.09	3/8 SQ. DR.

\* Add "A" to part numbers for bottom exit cable models, Add "R" to part numbers for rear exit cable models, Add "T" to part numbers for top exit cable models,



## DIMENSIONS

MODEL	IN	(A)	MM	IN	(B)	MM	IN	(C)	MM	IN	(D)*	MM
AEP412011BR	9.68		245.9	1.05		26.7	6.87		174.5	1.96		49.8
AEP412014BR	9.68		245.9	1.05		26.7	6.87		174.5	1.96		49.8
AEP412018BR	9.68		245.9	1.05		26.7	6.87		174.5	1.96		49.8
AEP412022BR	9.68		245.9	1.05		26.7	6.87		174.5	1.96		49.8
AEP422020BR	10.18		258.6	1.05		26.7	6.87		174.5	1.96		49.8
AEP422025BR	10.18		258.6	1.05		26.7	6.87		174.5	1.96		49.8
AEP422030BR	10.18		258.6	1.05		26.7	6.87		174.5	1.96		49.8
AEP422040BR	10.18		258.6	1.05		26.7	6.87		174.5	1.96		49.8

# ACRADYNE® HIGH TORQUE D/C TOOLS

## FEATURES AND BENEFITS

Critical high torque assembly and bolting applications demand tools that will deliver torque with superior performance and durability. The precision design of AcraDyne's HT Series combines these features in an electric tool that beats the competition on productivity and ergonomics. AcraDyne's transducer torque control system provides consistent, reliable torque values as well as the ability to monitor rotational angle during the tightening process. When combined with AcraDyne's Controllers, customers have a high torque critical bolting system that can handle the toughest and most important bolting jobs. The faster speed, coupled with its extreme accuracy, makes this bolting system an outstanding cost effective investment.

- Transducerized closed-loop control, NOT current control like most High Torque products available.
- One of the only high torque tools in the world with the transducer at the output.
- Torque is measured at the output, not before the gearing like competing products.
- No effect on results caused by gear wear like all other tools available.
- The torque reported is the torque delivered to the fastener.
- Most accurate high torque tools in the world.
- Up to three times faster than the competition.
- Interchangeable Tools, Cables, and Controllers – Calibrations are specific to the tool not the system as a whole.
- Universal Controller for all AcraDyne® tools.
- On-tool LEDs for Accept / Reject signals.
- Designed and **MADE IN THE USA.**



**PISTOL TYPE  
(AEP)**



**REAR MOUNTED PISTOL  
(AED)**



**AXIAL TYPE  
(AEJ)**



**FIXTURED TYPE  
(AEF)**



**STRAIGHT LEVER TYPE  
(AES)**

MODEL* (HANDLE TYPE)	SERIES	APPROX. TORQUE		APPROX. SPEED rpm	WEIGHT		LENGTH		DIA.		DRIVE in	SOUND LEVEL dB(A)
		Nm	ft-lb		kg	lb	mm	in	mm	in		
( )4(A)(B)66250B	6000	250	185	315	5.3	12	305	12	66	2.6	0.75	66
( )4(A)(B)66425B	6000	425	315	165	5.3	12	305	12	66	2.6	0.75	66
( )4(A)(B)66625B	6000	625	460	106	5.5	12	305	12	66	2.6	0.75	66
( )4(A)(B)66925B	6000	925	682	72	5.5	12	305	12	66	2.6	0.75	66
( )4(A)(B)771200B	7000	1200	885	65	7.3	16	310	12.2	76	3.0	1	66
( )4(A)(B)773000B	7000	3000	2,213	25	8.2	18	345	13.6	76	3.0	1	66
( )4(A)(B)884200B1	8000	4,200	3,100	12	11.8	26	391	15.4	86	3.6	1	66
( )4(A)(B)884200B	8000	4,200	3,100	12	11.8	26	391	15.4	86	3.6	1.5	66
( )4(A)(B)885000B	8000	5,000	3,700	9	11.8	26	391	15.4	86	3.6	1.5	66
( )4(A)(B)896500B	8000/9000	6,500	4,800	7	16.4	36	429	16.9	101	4.0	1.5	66
( )4(A)(B)898100B	8000/9000	8,100	6,000	5	16.4	36	429	16.9	101	4.0	1.5	66

\* The fifth digit of the model number is "A" for fixed gearcase models and "B" for clutched gearcase models. Add "B" to the end of the model number for bottom exit cable (fixture type). Above data is for clutched gearcase models. For no-clutched models, reduce weight by 1.5 lb (0.7 kg) and length by 2 in (51 mm).

# ACRADYNE® HIGH TORQUE D/C ANGLE TOOLS

## FEATURES AND BENEFITS

- Transducerized closed-loop control like all AcraDyne HT-Series tools.
- Torque is measured at the output, not before the gearing like competing products.
- A unique solution: Low profile head, small diameter, lever operated tools with the transducer at the output.
- No effect on results caused by gear wear, like other angle tools. The torque reported is the torque delivered to the fastener.
- Most accurate right-angle high torque 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 8,100 Nm available by special order.



AEN3571000A



AEN356540A



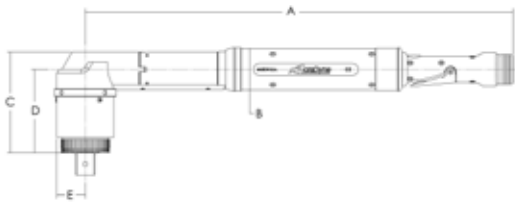
AEN3571600A



AEN3572600A

## SPECIFICATIONS

MODEL	MAX. TORQUE*		TORQUE RANGE		FREE SPEED RPM	WEIGHT		OUTPUT DRIVE
	nm	ft-lbs.	nm	ft-lbs.		lbs.	kg	
AEN356540A	540	398	135-540	100-398	109	13.1	5.95	3/4" Square Drive
AEN3571000A	1000	737	250-1000	184-737	61	16.3	7.39	1" Square Drive
AEN3571600A	1600	1180	400-1600	295-1180	33	16.7	7.57	1" Square Drive
AEN3572600A	2600	1917	650-2600	479-1917	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

## DUAL LEVER TOOLS

### FEATURES AND BENEFITS

- Additional safety when using a tool with a reaction bar or nose extension.
- Requires the operator to use both hands when starting the tool, which keeps hands clear of the application.
- Helps to avoid accidental starting of the tool.
- Available in two handle types: "Handle Bar" style (F) and Straight (S) tool with side handle.



MODEL* (HANDLE TYPE)	SERIES	APPROX. TORQUE		APPROX. SPEED rpm	WEIGHT		LENGTH		DIA.		DRIVE in	SOUND LEVEL dB(A)
		Nm	ft-lb		kg	lb	mm	in	mm	in		
AE(S)(F)4(A)(B)66250BDL	6000	250	185	315	5.3	12	305	12	66	2.6	0.75	66
AE(S)(F)4(A)(B)66425BDL	6000	425	315	165	5.3	12	305	12	66	2.6	0.75	66
AE(S)(F)4(A)(B)66625BDL	6000	625	460	106	5.5	12	305	12	66	2.6	0.75	66
AE(S)(F)4(A)(B)66925BDL	6000	925	682	72	5.5	12	305	12	66	2.6	0.75	66
AE(S)(F)4(A)(B)771200BDL	7000	1,200	885	65	7.3	16	310	12.2	76	3.0	1	66
AE(S)(F)4(A)(B)773000BDL	7000	3,000	2,213	25	8.2	18	345	13.6	76	3.0	1	66
AE(S)(F)4(A)(B)884200B1DL	8000	4,200	3,100	12	11.8	26	391	15.4	86	3.6	1	66
AE(S)(F)4(A)(B)884200BDL	8000	4,200	3,100	12	11.8	26	391	15.4	86	3.6	1.5	66
AE(S)(F)4(A)(B)885000BDL	8000	5,000	3,700	9	11.8	26	391	15.4	86	3.6	1.5	66
AE(S)(F)4(A)(B)896500BDL	8000/9000	6,500	4,800	7	16.4	36	429	16.9	101	4.0	1.5	66
AE(S)(F)4(A)(B)898100BDL	8000/9000	8,100	6,000	5	16.4	36	429	16.9	101	4.0	1.5	66

\* The fifth digit of the model number is "A" for fixed gearcase models and "B" for clutched gearcase models.

- Above data is for clutched gearcase models. For no-clutched models, reduce weight by 1.5 lb (0.7 kg) and length by 2 in (51 mm).

- For Straight Type Tools Choose the Position of the Handle by Adding (L) for Left Side and (R) for Right Side

## HT GEARHEAD TOOLS

### FEATURES AND BENEFITS

- Custom made to fit virtually any application.
- Same high durability gearing as on AcraDyne's standard HT Series tools.
- Model types available:
  - o HT Offset Gearhead tools
  - o HT Right Angle with Offset Gearhead Tools
  - o HT Right Angle Air Tools with Offset Gearhead
- Torque ranges from 250 Nm to 8100 Nm.



# ACRADYNE® HIGH TORQUE NOSE EXTENSIONS



## NOSE EXTENSIONS

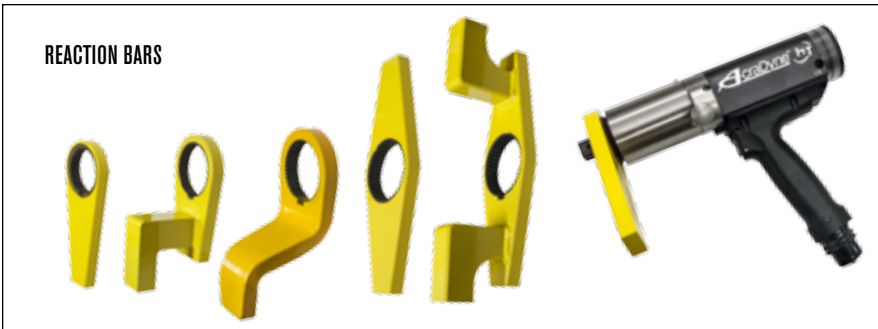
### FEATURES AND BENEFITS

- Ideal for hard-to-reach applications when a torque tube, or arm, is not desirable.
- Used as a cost-effective, more flexible option to a multiple spindle system.
- Common Applications:
  - Wheel install and repair stations.
  - Large flange assembly



## REACTION BARS

Each tool includes a standard spline-attachment reaction device. Custom reaction devices are also available; contact your AIMCO sales representative for more details, 1-800-852-1368.



MODEL	DESCRIPTION
26810	Single Ended, Flat, 6000 Series
26815	Single Ended, 2.375" Offset, 6000 Series
26830	Double Ended, Flat, 6000 Series
26885	Single Ended, 4.00" Offset, 6000 Series
26800	Single Ended, Flat, 7000 Series
27200	Single Ended, 3.10" Offset, 7000 Series
26820	Double Ended, Flat, 7000 Series
26890	Single Ended, 4.00" Offset, 7000 Series
25277	Single Ended, flat, 8000 Series
25274	Single Ended, 3.35" offset, 8000 Series
25275	Single Ended, 4.00" offset, 8000 Series
25278	Double Ended, flat, 8000 Series
25276	Double Ended, 3.35" offset, 8000 Series
27255	Single Ended, flat, 9000 Series
26840	Single Ended, 3.35" offset, 9000 Series

## ACCESSORIES

Custom accessories are also available for your application; contact your AIMCO Sales Representative for more details, 1-800-852-1368.



MODEL	DESCRIPTION
26477	Swivel Bail Assembly, 6000 Series
26478	Swivel "D" Handle Assembly, 6000 Series
26479	Stationary Bail Assembly, 6000 Series
26337	Rear Fixed Hoist Ring Sub-Assembly, 7000/8000 Series
26327	Swivel Bail Assembly, 7000 Series
26328	Swivel "D" Handle Assembly, 7000 Series
26336	Fixed Handle Sub-Assembly, 7000 Series
26337	Rear Fixed Hoist Ring Sub-Assembly, 7000 Series
25291	Swivel Handle, 8000 Series
25287	Swivel Bail Hoist, 8000 Series
25497	Rear fixed hoist ring, 8000 Series
25289	Fixed hoist (handle not included), 8000 Series
25280	Auxiliary Handle, 8000 Series
27045	Sliding Spindle, 7000 Series
28549	Sliding Spindle, 6000 Series



# 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	0.91																				
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	1481	14.8	376.7	2.7	1.22																				
AEN32025C	833	14.8	376.7	2.7	1.22																				
AEN32030C	803	14.6	371.9	2.8	1.27																				
AEN32040C	574	14.6	371.9	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	19.1	485.7	6.6	2.99																				
AEN33090C	568	19.1	485.7	6.6	2.99																				
AEN33120C	442	21.2	539.0	9.3	4.22																				
AEN33200C	245	23.4	594.4	9.4	4.26																				
AEN33210C	234	23.6	599.9	10.0	4.54																				
AEN33300C	151	23.8	603.8	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	2222	14.3	363.7	2.5	1.13																				
AES32020CV	1250	14.3	363.7	2.5	1.13																				
AES32025CV	893	14.3	363.7	3.2	1.45																				
AES32038CV	595	17.2	435.9	4.2	1.91																				
AES33040CV	1314	18.7	475.7	6.4	2.90																				
AES33060CV	883	18.7	475.7	6.4	2.90																				
AES33100CV	489	23.1	585.7	8.1	3.67																				
AES33150CV	329	23.1	585.7	8.1	3.67																				
AES33230CV	221	23.1	585.7	8.1	3.67																				
AES33400CV	122	25.5	647.7	13.0*	5.90*																				
AES33600CV**	82	25.5	647.7	13.0*	5.90*																				
AES35075AV	944	21.9	555.2	9.2	4.17																				
AES35090AV	767	21.9	555.2	9.2	4.17																				
AES35110AV	634	21.9	555.2	9.2	4.17																				
AES35135AV	515	21.9	555.2	9.2	4.17																				
AES35170AV	418	21.9	555.2	9.2	4.17																				
AES35280A	236	24.2	615.1	12.8	5.81																				
AES35350A	192	24.2	615.1	12.8	5.81																				
AES35420A	159	24.2	615.1	12.8	5.81																				
AES35515A***	129	24.2	615.1	12.8	5.81																				
AES35635A****	104	24.2	615.1	12.8	5.81																				

\*Includes reaction bar and fixture nut.

\*\*Torque Range: 120-480 Nm Max Torque: 600 Nm

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

Recommended Torque Range

Max Torque



# 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	7.6	194.2	2.2	1.00																								
AEP4_12006B	2,625	7.6	194.2	2.2	1.00																								
AEP4_12011BV	1,313	7.5	191.2	2.3	1.04																								
AEP4_12014BV	1,037	7.5	191.2	2.3	1.04																								
AEP4_12018BV	840	7.5	191.2	2.3	1.04																								
AEP4_12022BV	656	7.5	191.2	2.3	1.04																								
AEP4_2020BV	1,313	14.3	363.7	2.4	1.09																								
AEP4_2025BV	1,037	14.3	363.7	2.4	1.09																								
AEP4_2030BV	840	17.2	435.9	2.4	1.09																								
AEP4_2035BV	747	17.2	435.9	2.4	1.09																								
AEP4_2040BV	656	17.2	435.9	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	11.3	288.1	3.1	1.41																								
AET4A12025B	387	11.3	288.1	3.1	1.41																								
AET4A12025B-KD	387	15.9	402.6	3.1	1.41																								
AET32020C	622	14.8	375.9	3.1	1.41																								
AET32025C	466	15.5	393.7	4.0	1.81																								
AET32035C	347	16.0	406.4	4.5	2.04																								
AET32050C	257	16.4	416.6	5.6	2.54																								

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

## HIGH TORQUE SERIES - *AcraDyne* HT

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				
( )4(A)(B)66200B	315	12	305	12	5.3																							
( )4(A)(B)66425B	165	12	305	12	5.3																							
( )4(A)(B)66625B	106	11.8	299	12.5	5.7																							
( )4(A)(B)66925B	72	11.8	299	12.5	5.7																							
( )4(A)(B)771200B	65	11.5	292	12.5	5.7																							
( )4(A)(B)773000B	25	12.9	328	18	8.1																							
( )4(A)(B)884200B1	12	14.8	376	27	12.3																							
( )4(A)(B)884200B	12	14.8	376	27	12.3																							
( )4(A)(B)885000B	9	14.8	376	27	12.3																							
( )4(A)(B)896500B	7	18.0	457	34	15.0																							
( )4(A)(B)898100B	5	18.0	457	34	15.0																							

Recommended Torque Range

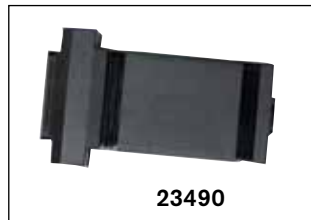
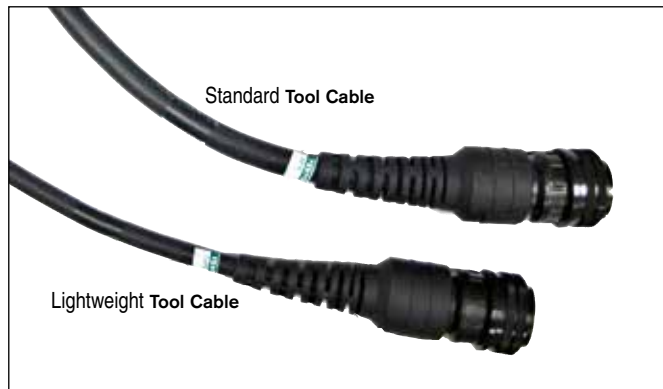
Max Torque

# 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.

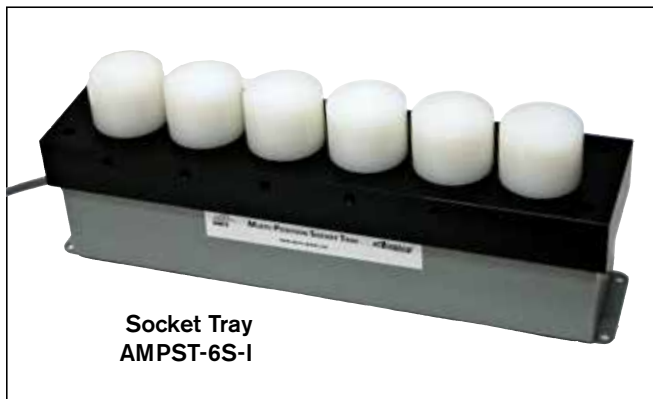
- Flexible polyurethane cover for maximum durability, abrasion and transmission fluid resistant.
- Quick disconnects at both ends facilitate tool changeover and troubleshooting.
- The CAN data/signal is via RJ45 for products such as the KDM, socket tray or computer.



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
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		
26709	G3 Tool to G1 Cable (Cable Tester only)		
26700	Cable Tester Unit, G3		
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		
	*Lightweight cables are for use only with 1000 & 2000 Series tools.		
<b>EXTENSION</b>			
24320	Extension cable 10M	10	32.8
25518	Extension cable 20M	20	65.6
<b>DATA</b>			
20403	Data/signal connection cable - Accessories to controller	2.0	7
23490	I/O Wiring Connector - Simple Module to facilitate connections to I/O on iEC Controllers		
AEC-CIM	Interface module which allows communication between a computer and an AcraDyne® controller through USB or CAN connections. All necessary cables included.		

## SOCKET TRAY

- 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.
- Can also be used with UEC style controllers.



**Socket Tray  
AMPST-6S-1**

MODEL	DESCRIPTION
AMPST-2-1	2 Position Socket Tray for iEC Controllers
AMPST-4-1	4 Position Socket Tray for iEC Controllers
AMPST-6S-1	6 Position Socket Tray for iEC Controllers, Straight Line
AMPST-6-1	6 Position Socket Tray for iEC Controllers
AMPST-8-1	8 Position Socket Tray for iEC Controllers

## SLIDING SPINDLES



MODEL	DESCRIPTION
20712	Sliding Spindle 2" Stroke 2000 Series Tools
20848	Sliding Spindle 2" Stroke 3000 Series Tools

## TOOL BAILS

- AcraDyne's spring bails are designed for use with any of the AcraDyne® 1000, 2000 or 3000 Series tools.
- The 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
26327	Swivel Bail Assembly for 7000 Series Tools
26332	Stationary Bail Assembly for 7000 Series Tools
26629	Stationary Bail Assembly for 9000 Series Tools
26630	Hoist Swivel Bail Assembly for 9000 Series Tools
26632	Stationary Bail Assembly for 9000 Series Tools
26568	Cable Bail to Hang Tool Vertically for Gen III Cables
21159	2000/3000 Vertical Tool Hanger for Gen 1 Tools
21208	Spring Bail for 2000 Series Tools
23662	Rotating Bail for 2000 Series Tools
23575	Rotating Bail for 3000 Series Tools

## UNIVERSAL TOOL BASKET



**Universal Tool Basket  
21226**

# ACRADYNE® ACCESSORIES



20322



20853



27816

## CONTROLLER BRACKETS

MODEL	DESCRIPTION
20322	Wall Plate Bolts to wall allows controller bracket (23362) to hang without hard fastening
20853	Table Stand Free standing platform enables controller Bracket (23362) to simply hang from.
27816	Mounting Bracket for Gen IV Controller

## 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 Straight and Pistol 1000/2000 Series
24924	Mounting Flange for Straight and Pistol 1000/2000 Series
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

## LIGHT TOWER



23730



Light Tower Bracket  
for Gen IV Controller

28489



## TOOL BODY JACKETS

Keep your tools protected and avoid accidental damage to the application 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

## BARCODE READER



MODEL	DESCRIPTION
LS4208	RS232 Barcode Reader Kit
LS4278	RS232 Wireless Barcode Reader Kit

# 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 in a variety of industries that require high torque capability, accuracy, power, and safety.

- Modular design allows for ease of maintenance.
- Motors and gearing are interchangeable.
- Durable and reliable gearbox
- Proven air motor
- Faster Free Speed
- One-Hand Reverse



AAP1B66600A



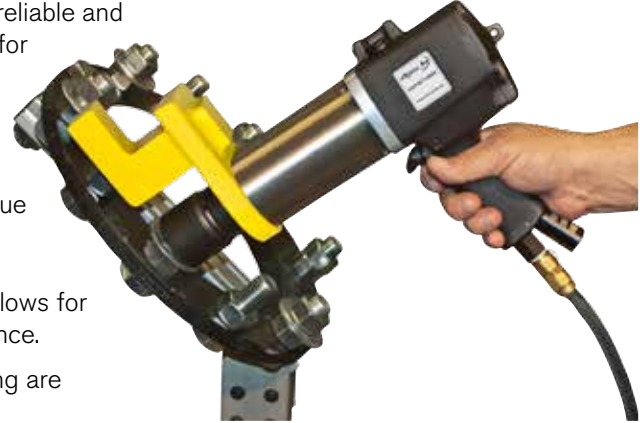
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AAP1B771800A



AAP1B885100A1



See page 136 for  
Air Preparation Units

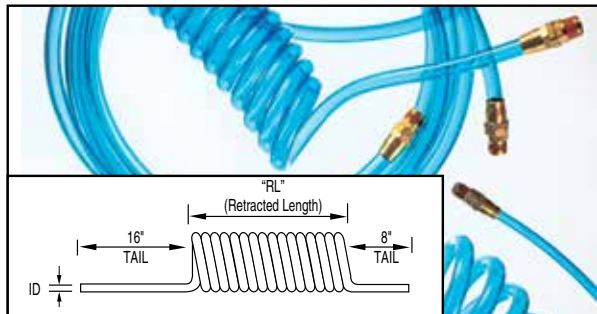


MODEL	TORQUE (Nm)	TORQUE (Ft-lb)	SPEED (rpm)	WEIGHT (lb)	SQUARE DR. (in)	AIR CONSUMPTION (CFM)
AAP1B66400A	400	300	70	9.75	3/4	22.9
AAP1B66600A	600	450	50	9.75	3/4	22.9
AAP1B66850A	850	625	36	9.75	1	22.9
AAP1B76950A	950	700	37	10.4	1	26.3
AAP1B771350A	1350	1000	22	10.4	1	26.3
AAP1B771800A	1800	1325	15	14.9	1	26.3
AAP1B772950A	2950	2175	9	14.9	1	26.3
AAP1B885100A1	5100	3775	7.5	23	1	31.5
AAP1B885100A	5100	3775	7.5	23	1-1/2	31.5

# ACRADYNE® HT PNEUMATIC TOOL ACCESSORIES

## AIR LINE

### AIMCO AIR HOSE



- Durable Polyurethane or Rubber hose.
- Excellent recoil memory.
- Maximum flexibility and lightweight.
- Polyurethane available in transparent hose color (opaque available).
- Custom colors available.
- High chemical resistance.

### REACTION BARS

Each tool includes a standard spline-attachment reaction device. See 30 for part numbers. Custom reaction devices are also available; contact your AIMCO Sales Representative for more details, 1-800-852-1368.



### SINGLE AIR HOSE ASSEMBLIES (COILED)

MODEL	WORKING PRESSURE 100 PSI	DESCRIPTION (OD x ID 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"

### SINGLE AIR HOSE (COILED) CUSTOM LENGTHS

Custom length coil assemblies and special colors are available in minimum order quantities.

### STRAIGHT AIR HOSE (SOLD PER FOOT)

MODEL	DESCRIPTION
ASH-500Z	1/2" I.D.

- Assemblies include reusable swivel fitting.
- Burst pressure 428 PSI @ 68° F.
- Working temperature: -104° F to 175° F.
- Straight hose is available by the foot with, or without, hose fittings.
- Ask about full reel pricing. Call 1-800-852-1368.

### AIR HOSE 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



#### BRASS FITTINGS

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

### 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



## MULTIPLE NUTRUNNING SYSTEMS

AIMCO has the capability to 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.



## SMALL ENGINE MANUFACTURER

- Air cooled small vehicle engine assembly.
- Ten spindle 2.4–2.8 kgf-m.
- Integrated PLC control of system functions.
- Supplied overhead rail follows line and returns powerhead to home position.
- Powerhead features single lever control and visual confirmation of accepted torque.

## 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.
- Even torque distribution - Where there is uneven torque distribution, part damage or distortion could occur with possible fastener failure or loss of residual clamp load.
- Snug, threshold, final torque in one pass - No need for multiple torque stage sequencing. Fixtured nutrunners save time and effort.
- No missed fasteners - With multiple nutrunners there is 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.

## ENGINE MANUFACTURER

- Gasoline generator assembly.
- Six spindle 30 Nm
- Replaced hand assembly with rotation pattern to simultaneous rundown.

## AUTOMOTIVE MANUFACTURER

- Wheel lug nut assembly.
- Four spindle 105 Nm
- Rotating spindle trunnion.
- Replaced competitive system.
- Built-in PC for data storage.
- Custom display panel showing application.
- Cpk range of 3.2–6.9 far exceed quality requirements.



# FIXTURED F-SERIES NUTRUNNERS

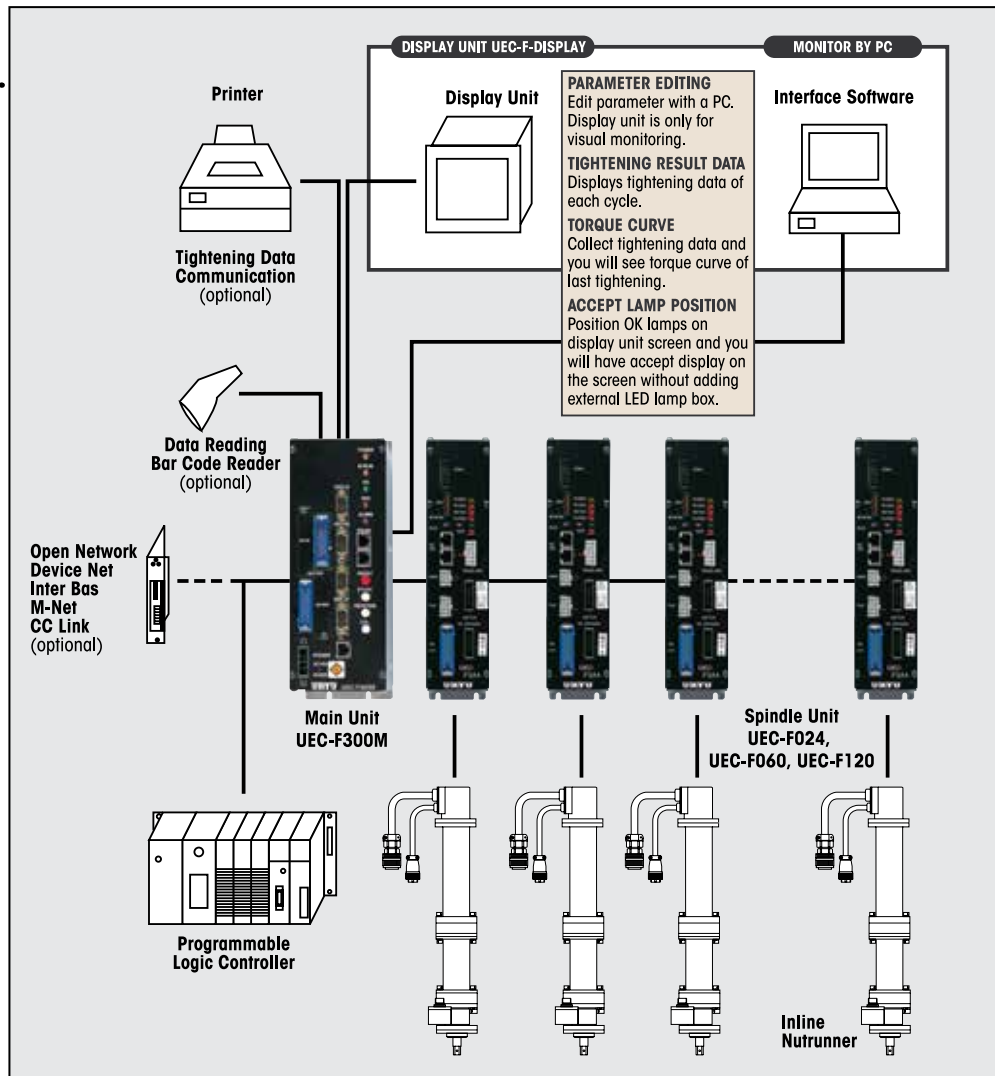
## FEATURES AND BENEFITS



- 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 – We have prepared various types of communication boards for your specifications (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 structure contained spindle controller and driver unit reduces space occupancy by 40% to 60% .

NO. OF SPINDLES	VOLUME & WIDTH BEFORE		VOLUME & WIDTH WITH F-SERIES			
	CM	MM	UEC-F024		UEC-F120	
1-Spindle	16,800	200	6,360	150	8,268	195
2-Spindle	24,360	290	8,904	210	12,084	285
5-Spindle	47,040	560	16,536	390	24,804	585
10-Spindle	84,840	1,010	29,256	690	48,336	1,140

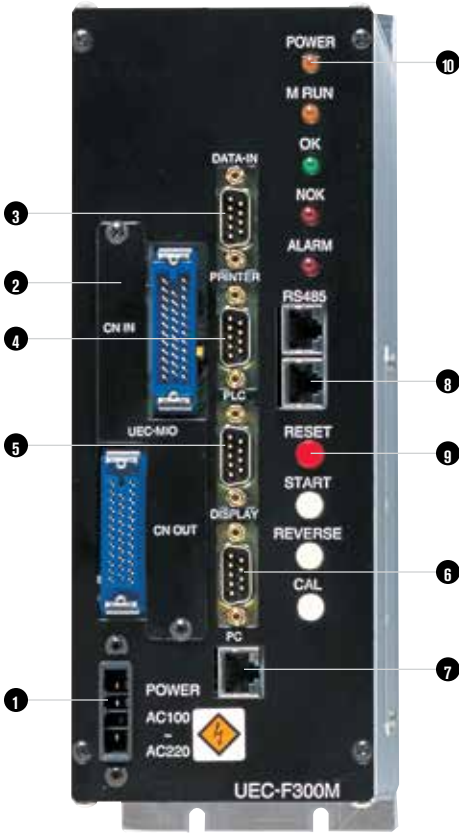
## F-SERIES NETWORK CONNECTIVITY



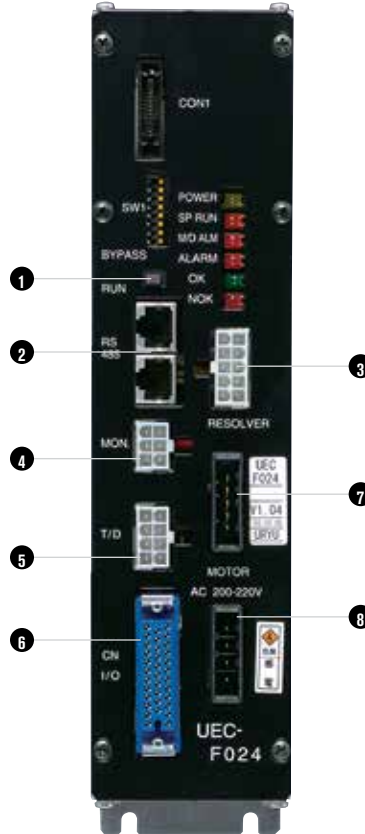


# FIXTURED F-SERIES NUTRUNNERS

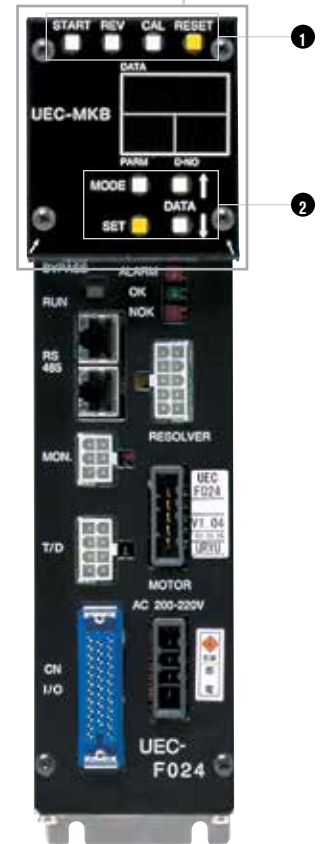
Main unit UEC-F300M



Spindle unit UEC-F024



UEC-MKB



- 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

- 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

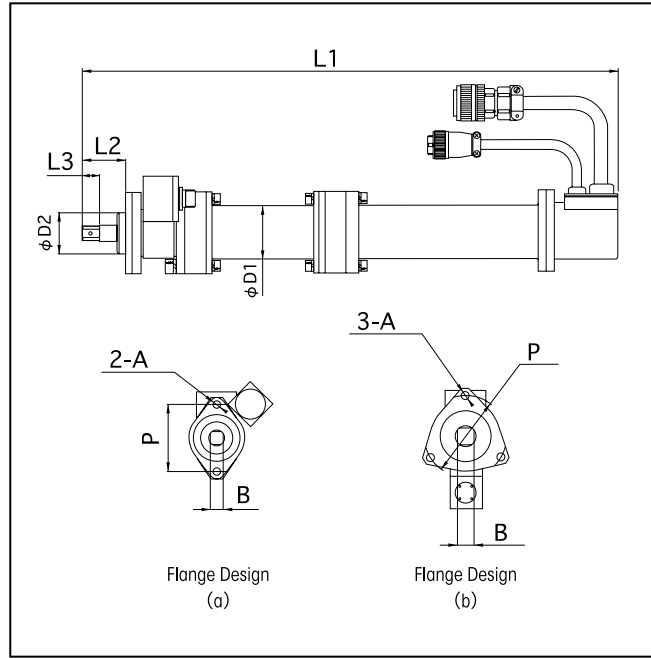
- 1 Manual Operation Switches**  
START: manual start switch  
REVERSE: Manual reverse switch  
CAL: Manual calibration switch  
RESET: Manual reset switch
  - 2 Data Display Operation Switch**  
MODE switch  
SET switch  
DATA UP switch  
DATA DOWN switch
- NOTE: Display unit (UEC-MKB) is an option.

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

- Torque Tightening
- Spline Press Ft Tightening
- Torque
- Pin Hole Alignment Tightening
- Angle Tightening
- Pre-Load Detection
- Angle
- Idle Operation Check
- Plastic Range Monitor

# FIXTURED F-SERIES NUTRUNNERS

## INLINE NUTRUNNERS



## APPLICATION DATA

TYPE	EXTERNAL DIMENSIONS (MM)								TORQUE SENSOR	MOTOR TYPE	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	F015	(a)
UNR-F015-65NT	371	41	12	40.5	38	51	M6	9.5	TM-035	F015	(a)
UNR-F015-200NT	400	41	12	40.5	38	51	M6	9.5	TM-035	F015	(a)
UNR-F015-280NT	400	41	12	40.5	38	51	M6	9.5	TM-035	F015	(a)
UNR-F015-350NT	400	41	12	40.5	38	51	M6	9.5	TM-035	F015	(a)
UNR-F050-270NT	453.5	41	12	50	38	51	M6	9.5	TM-035	F050	(a)
UNR-F050-630NT	500.5	41	16.5	50	38	62	M8	12.7	TM-085	F050	(a)
UNR-F050-730NT	500.5	41	16.5	50	38	62	M8	12.7	TM-085	F050	(a)
UNR-F050-880NT	512.5	45	20	50	48	62	M8	15.88	TM-150	F050	(a)
UNR-F050-1400NT	512.5	45	20	50	48	62	M8	15.88	TM-150	F050	(a)
UNR-F100-1300NT	519.5	45	20	62	48	62	M8	15.88	TM-150	F100	(a)
UNR-F100-1900NT	515.5	45	20	62	48	76	M8	15.88	TM-250	F100	(b)
UNR-F100-2500NT	515.5	45	20	62	48	76	M8	15.88	TM-250	F100	(b)
UNR-F100-3700NT	589	57	30	62	58	76	M10	19	TM-400	F100	(b)
UNR-F100-5400NT	704.5	80	40	62	70	90	M10	25.4	TM-700	F100	(b)

## Torque Sensor Specifications

TYPE	CAPACITY (NM)
TM-035	34.3
TM-085	83.3
TM-150	147
TM-250	245
TM-400	392
TM-700	686
TM-1000	980

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 MOTOR SPECIFICATIONS

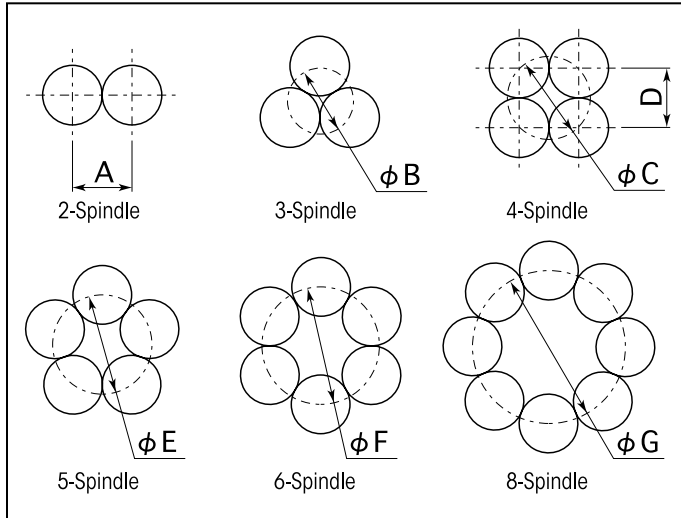
TYPE	TIGHTENING TORQUE (NM)	FREE SPEED RPM	WEIGHT KG	SPINDLE UNIT
UNR-F015-45NT	4.5	3,200	2.48	UEC-F024
UNR-F015-65NT	6.5	2,200	2.48	UEC-F024
UNR-F015-200NT	20	730	2.73	UEC-F024
UNR-F015-280NT	28	500	2.73	UEC-F024
UNR-F015-350NT	35	410	2.73	UEC-F024
UNR-F050-270NT	27	1,750	4.86	UEC-F060
UNR-F050-630NT	63	750	5.08	UEC-F060
UNR-F050-730NT	73	650	5.08	UEC-F060

TYPE	TIGHTENING TORQUE (NM)	FREE SPEED RPM	WEIGHT KG	SPINDLE UNIT
UNR-F050-880NT	88	540	5.47	UEC-F060
UNR-F050-1400NT	140	340	5.47	UEC-F060
UNR-F100-1300NT	130	730	7.42	UEC-F120
UNR-F100-1900NT	190	500	7.94	UEC-F120
UNR-F100-2500NT	250	370	7.94	UEC-F120
UNR-F100-3700NT	370	260	9.55	UEC-F120
UNR-F100-5400NT	540	175	17.0	UEC-F120

# FIXTURED F-SERIES NUTRUNNERS

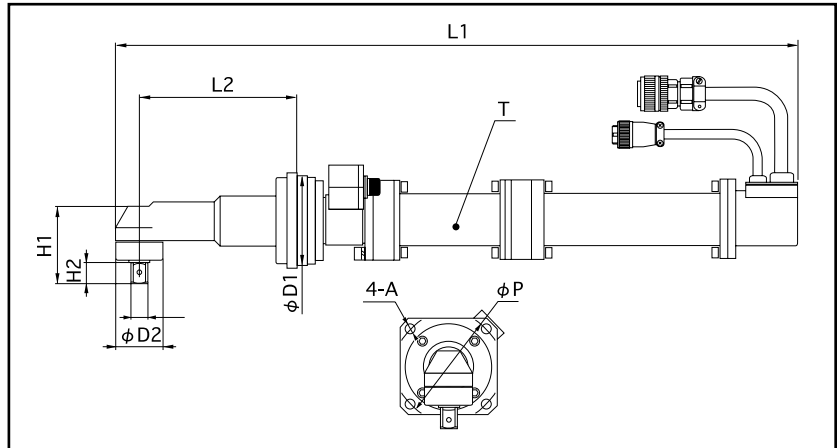
## “F” NUTRUNNER MOTORS’ MINIMUM PITCH CIRCLE

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-F050-1400NT	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



TYPE	EXTERNAL DIMENSIONS (MM)										STRAIGHT MOTORS		
	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	
UNR-F015-55NTC	521	130	58	18	70	36	85	M6	12.7	UNR-F015-350NT	TM-035	F015	
UNR-F050-95NTC	643	150	73.5	20	85	45	102	M6	15.88	UNR-F050-630NT	TM-085	F050	
UNR-F050-130NTC	649	150	73.5	20	85	45	102	M6	15.88	UNR-F050-880NT	TM-150	F050	
UNR-F100-200NTC	681.5	170	85.5	20	85	56	102	M6	15.88	UNR-F100-1300NT	TM-150	F100	
UNR-F100-250NTC	677.5	170	85.5	20	100	56	120	M8	15.88	UNR-F100-1900NT	TTM-150	F100	
UNR-F100-380NTC	716.5	200	109.5	25	110	74	134	M10	19	UNR-F100-2500NT	TM-250	F100	
UNR-F100-550NTC	784	200	114.5	29	110	74	134	M10	25.4	UNR-F100-3700NT	TM-400	F100	

## RIGHT ANGLE MOTOR SPECIFICATIONS

TYPE	TIGHTENING TORQUE (Nm)	FREE SPEED (rpm)	WEIGHT (kg)	SPINDLE UNIT
UNR-F015-25NTC	25	460	4.18	UEC-F024
UNR-F015-55NTC	55	260	4.37	UEC-F024
UNR-F050-95NTC	95	480	8.08	UEC-F060
UNR-F050-130NTC	130	340	8.3	UEC-F060

TYPE	TIGHTENING TORQUE (Nm)	FREE SPEED (rpm)	WEIGHT (kg)	SPINDLE UNIT
UNR-F100-200NTC	200	460	11.92	UEC-F120
UNR-F100-250NTC	250	340	12.3	UEC-F120
UNR-F100-380NTC	380	235	15.92	UEC-F120
UNR-F100-550NTC	550	165	17.43	UEC-F120

# UEC-4800 CONTROLLER

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

### FEATURES AND BENEFITS: UEC-4800

- Programmable from front panel or PC – no separate touchpad module or cable required.
- 12,000 data point memory.
- On-screen statistical readout.
- Eight parameter sets available.
- Increased programmable I/O options.
- Built-in Ethernet connectivity.
- PC Windows based software included.
- For use with pneumatic or electric transducerized tools.
- Compatible with: UA-MC, UEP-MC (with driver box), UA-SMC, UA-AMC (with optional Angle Encoder Board), ALPHA-MC, and UXR-MC series tools.



### FEATURES AND BENEFITS: UEC-4800TP

- Provides all features of the UEC-4800.
- Enhanced user interface via Touch-Screen programming and information access.

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-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-EDAL	X		X	X		X			
UEC-4800-EPA	X			X			X		
UEC-4800-EPAL	X		X	X			X		
UEC-4800A-EX	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-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	X	X							

# UEC-4800A/E(SD) CONTROLLER

## FEATURES AND BENEFITS: UEC-4800A/E(SD)

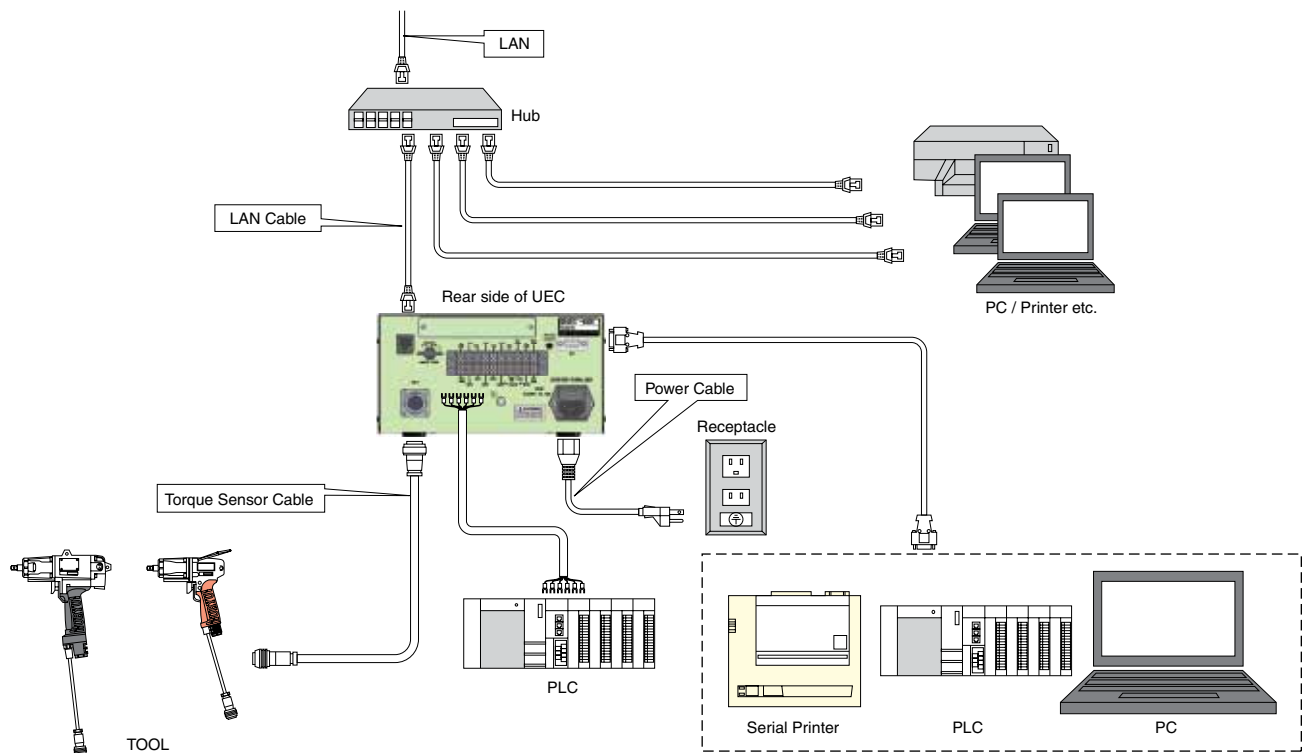
- Economical LCD front panel.
- Easy programming or upload of your program from a PC.
- Torque Wave data visible on your PC.
- UEC-4800(SD) memorizes maximum 12,000 fastening data. When connected to a PC, standard deviations, Cp value, and Cpk values can be analyzed instantly from the stored data within the controller.
- Graph statistical data.



## UEC-4800A/E(SD) SPECIFICATIONS

Power Supply	AC100~240V ±10%	Display	Torque Resolution ±2048 (12-Bit A/D) LCD: 20 characters x 4 lines Contents: Work No., Fastening Count, Down No., Fastening Time, Pulse No. 1-digit digital display (DPM): WORK NO. 4-digit digital display (DPM): TORQUE
Power Frequency	50/60 Hz		
Noise Protection	1000V 1μS (according to noise simulator)		
Insulation Protection	DC500V over 10MΩ		
Ambient Temperature	0~50°C (non-freezing)		
Ambient Humidity	Under 90%RH (no dew)	LED	COUNT Lamp: OK (Green), NOK (Red) TORQUE Lamp: LOW (Yellow), OK (Green), HIGH (Red)
Power Consumption	Approx. 30VA	Input Terminal Signal	Operation Voltage/Current: DC24V/approx. 10mA 6 terminals (free format), VALVE
Weight	Approx. 3.6 kg		
Dimensions	265(d) x 222(w) x 120(h)	Output Terminal Signal	Contact Capacity: AC:125V, 0.3A, DC:30V, 1A 6 terminals (free format), VALVE
Main Functions	Torque Monitoring/Control + Fastening Counter		
Parameter Setup	Manual Input on Front LCD Panel Personal Computer (with setup software)		

## UEC-4800(SD) SERIES BLOCK DIAGRAM



# UEC-4800TPA/E(SD) CONTROLLER

## FEATURES AND BENEFITS: UEC-4800TPA/E(SD)

- Programming is easy on the front touch panel or upload your program from a PC.
- UEC-4800(SD) can be used with various transducerized tools:
  - Oil-Pulse Tools fitted with a Magnetostrictive Transducer UA-MC series, ALPHA-MC Series, UEP-MC Series (UEPD driver is required separately).
  - Oil-Pulse Tools fitted with a Strain-Gauged Transducer U-EC Series, UX-EC Series.
  - Pneumatic Tools fitted with a Strain-Gauged Transducer UAN-M Series, UOW-M Series, UNR-NT Series.
- Highly reliable Torque Control and Monitor.
- Ethernet (TCP/IP) capable.

## FUNCTIONS: UEC-4800TPA/E(SD)

- Choose between Torque Control and Monitor. Detect various errors and control the job with the fastening counter.
- Torque Wave data visible on both front touch panel and PC.
- UEC-4800(SD) can be used for eight different fastening applications.
- Front panel, PC display, or buzzer indicates Input/Output (terminal blocks and tool wiring), checks, and errors.
- UEC-4800(SD) memorizes cumulative fastening numbers and pulse numbers from the start of operation.
- UEC-4800(SD) memorizes maximum 12,000 fastening data. Analyze standard deviations, Cp value, and Cpk value instantly from stored data within the controller. When connected to a PC, statistical data can be graphed.
- Using Input/Output terminals, UEC-4800(SD) can be interlocked with production line.



Torque Monitor Display



## UEC-4800TPA/E(SD) SPECIFICATIONS

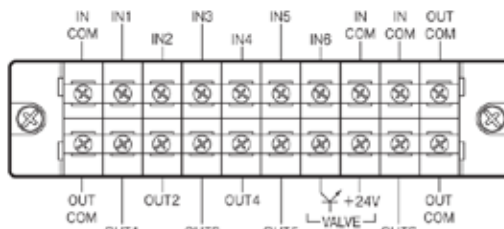
Power Supply	AC100 ~ 240V ±10%
Power Frequency	50/60 Hz
Noise Protection	1000V 1μS (according to noise simulator)
Insulation Protection	DC500V over 10MΩ
Ambient Temperature	0 ~ 50°C (non-freezing)
Ambient Humidity	Under 90%RH (no dew)
Power Consumption	Approx. 30VA
Weight	Approx 3.6 kg
Dimensions	265(d) x 222(w) x 120(h)
Main Functions	Torque Monitoring/Control + Fastening Counter
Parameter Setup	Manual Input on Front Touch Panel Personal Computer (with setup software)
Display	Torque Resolution ±2048 (12-Bit A/D) 320 x 240 dot 25 characters X 15 lines
LED	COUNT Lamp: OK (Green), NOK (Red) TORQUE Lamp: LOW (Yellow), OK (Green), HIGH (Red)
Input Terminal Signal	Operation Voltage/Current: DC24V/approx. 10mA 6 terminals (free format), VALVE
Output Terminal Signal	Contact Capacity: AC:125V, 0.3A, DC:30V, 1A 6 terminals (free format), VALVE

The conventional UEC-4800 Series has been superceded by UEC-4800(SD), which has the following new functions:

- 1) miniSD card slot on back panel
  - Fastening data and wave can be saved to mminiSD card.
  - Option to save and read setting values in miniSD card.
- 2) Terminal on the rear side. The following terminals are added:
  - 1 x Input terminal
  - 1 x Output terminal
  - 2 x Input COM terminals
  - 2 x Output COM terminals
- 3) Valve Check  
Valve wiring check function checks the valve connection to the terminal. If using ALPHA-MC fitted with the valve inside the tool, it checks the tool valve connection.
- 4) Other Features
  - Increased PC communication speed from 38,400 bps to 115,200 bps.
  - Faster data input and memory deletion.

### (Input Terminal Block)

Signal Allocations
COM: Common Terminal for the input terminals. (-)
IN 1 ~ 6: Input Terminals
IN COM: Common Terminal for the input terminals. (-)
OUT COM: Common Terminal for the output terminals.



### (Output Terminal Block)

Signal Allocations
COM: Common Terminal for the output terminals.
OUT 1 ~ 5: Output Terminals
VALVE: Valve Output (OV)
VALVE COM: +24V
Out 6: Output Terminal
OUT COM: Common Terminal for the output terminals

# UECD-4800 CONTROLLER

## UECD-4800 FOR UEP TOOLS

### FEATURES AND BENEFITS

- Integrates Tool Driver and UEC-4800 Controller – No Separate Box.
- Windows Based PC Software included.
- Programmable Tool Speeds.
- 4 Models to suit UEP Series Tools.



### UECD-4800 FUNCTIONS AND SPECIFICATIONS

- 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 of UECD-4800, which will notify you with a buzzer.
- Can 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.
- Power Supply: UEP tool is driven by commercial electricity, providing flexible assembly line changes.

Power Supply	AC100 ~ 240V ±10%
Power Frequency	50/60 Hz
Noise Protection	1000V 1μS (according to noise simulator)
Insulation Protection	DC500V over 10MΩ
Ambient Temperature	0 ~ 50°C (non-freezing)
Ambient Humidity	90%RH or less (no dew)
Weight	Approx. 11.30 kg
Dimensions	265(d) x 222(w) x 200(h)
Main Functions	Torque control, Torque monitoring, Fastener number count
Parameter Setup	Manual Input on Front LCD Panel PC (with exclusive setup software)
Display	Torque Resolution ±2048 (12-Bit A/D use) LCD type, 20 characters x 4 lines Contents: Work No., Bolt Count No., Tightening Time, Pulse Blow Number 1-digit digital display (DPM): Work No. displayed 4-digit digital display (DPM): Torque reading displayed
LED	Total Lamp (for count judgment): OK (Green), NOK (Red) Torque Lamp (for torque judgment): LOW (Yellow), OK (Green), HIGH (Red)
Input Terminal Signal	Operation Voltage/Current: DC24V, approx. 10mA 6 terminals available (programmable). Note: Contact input necessary
Output Terminal Signal	Contact Capacity: DC 30V, 1A 6 terminals available (programmable), VALVE

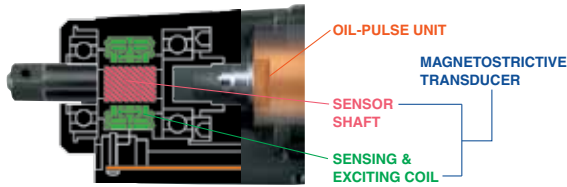
# UECD-4800 CONTROLLER

MODEL	24V I/O	URJU DATA, BARCODE & PRINTER	LIGHT TOWER & BYPASS SWITCH CAPABLE	ETHERNET PROTOCOLS	SERIAL PROTOCOLS & BAR CODE	ANYBUS DEVICENET	ANYBUS PROFIBUS	TOUCH PANEL DISPLAY
UECD-4800A-50	X	X						
UECD-4800A-60	X	X						
UECD-4800A-70	X	X						
UECD-4800A-100	X	X						
UECD-4800TPA-50	X	X						X
UECD-4800TPA-60	X	X						X
UECD-4800TPA-70	X	X						X
UECD-4800TPA-100	X	X						X
UECD-4800A-EX-50	X			X	X			
UECD-4800A-EXL-50	X		X	X	X			
UECD-4800A-EDA-50	X			X		X		
UECD-4800A-EDAL-50	X		X	X		X		
UECD-4800A-EPA-50	X			X			X	
UECD-4800A-EPAL-50	X		X	X			X	
UECD-4800A-EX-60	X			X	X			
UECD-4800A-EXL-60	X		X	X	X			
UECD-4800A-EDA-60	X			X		X		
UECD-4800A-EDAL-60	X		X	X		X		
UECD-4800A-EPA-60	X			X			X	
UECD-4800A-EPAL-60	X		X	X			X	
UECD-4800A-EX-70	X			X	X			
UECD-4800A-EXL-70	X		X	X	X			
UECD-4800A-EDA-70	X			X		X		
UECD-4800A-EDAL-70	X		X	X		X		
UECD-4800A-EPA-70	X			X			X	
UECD-4800A-EPAL-70	X		X	X			X	
UECD-4800A-EX-100	X			X	X			
UECD-4800A-EXL-100	X		X	X	X			
UECD-4800A-EDA-100	X			X		X		
UECD-4800A-EDAL-100	X		X	X		X		
UECD-4800A-EPA-100	X			X			X	
UECD-4800A-EPAL-100	X		X	X			X	
UECD-4800TPA-EX-50	X			X	X			X
UECD-4800TPA-EXL-50	X		X	X	X			X
UECD-4800TPA-EDA-50	X			X		X		X
UECD-4800TPA-EDAL-50	X		X	X		X		X
UECD-4800TPA-EPA-50	X			X			X	X
UECD-4800TPA-EPAL-50	X		X	X			X	X
UECD-4800TPA-EX-60	X			X	X			X
UECD-4800TPA-EXL-60	X		X	X	X			X
UECD-4800TPA-EDA-60	X			X		X		X
UECD-4800TPA-EDAL-60	X		X	X		X		X
UECD-4800TPA-EPA-60	X			X			X	X
UECD-4800TPA-EPAL-60	X		X	X			X	X
UECD-4800TPA-EX-70	X			X	X			X
UECD-4800TPA-EXL-70	X		X	X	X			X
UECD-4800TPA-EDA-70	X			X		X		X
UECD-4800TPA-EDAL-70	X		X	X		X		X
UECD-4800TPA-EPA-70	X			X			X	X
UECD-4800TPA-EPAL-70	X		X	X			X	X
UECD-4800TPA-EX-100	X			X	X			X
UECD-4800TPA-EXL-100	X		X	X	X			X
UECD-4800TPA-EDA-100	X			X		X		X
UECD-4800TPA-EDAL-100	X		X	X		X		X
UECD-4800TPA-EPA-100	X			X			X	X
UECD-4800TPA-EPAL-100	X		X	X			X	X



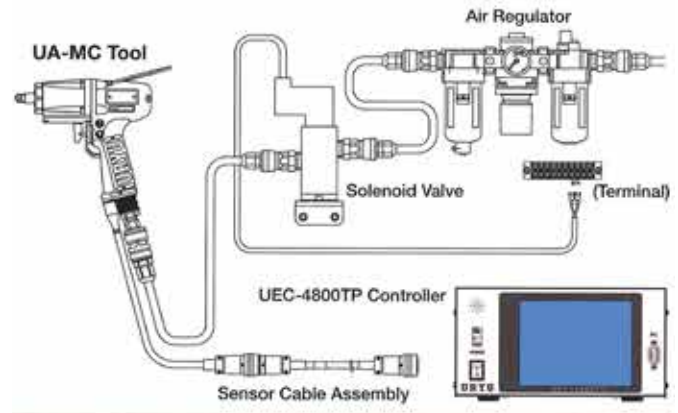
# UA-MC SERIES

## MAGNETOSTRICTIVE TRANSDUCER



Uryu's brushless Magnetostriuctive Torque Transducer consists of an Anvil and a pair of sensor coils. Without contacting the Anvil, the sensor coil detects load to the Anvil (non-contact). The grooves in the Anvil are provided at a 45 degree angle in one region. When torque is applied to the Anvil, tensile stress appears on the region and magnet permeability increases. These permeability changes are detected, respectively transformed to the voltage change (proportional to applied torque) and converted to torque signals to control the tool.

## SYSTEM LAYOUT



## UA-MC SERIES

### FEATURES AND BENEFITS

- The UA-MC features patented Auto Relief Technology providing additional control to the application of torque during the pulsing events.
- The external solenoid valve increases power-to-weight ratios by 20%.
- Magnetostriuctive Transducer provides increased durability with low size and weight.
- Pulse Tool requirements with Controlled Tool advantages.
- All models work with any UEC Series controller and can connect to a wide range of network protocols.
- With torque reaction virtually non-existent, allowing for a one-handed operation, the UA-MC provides significantly increased productivity.



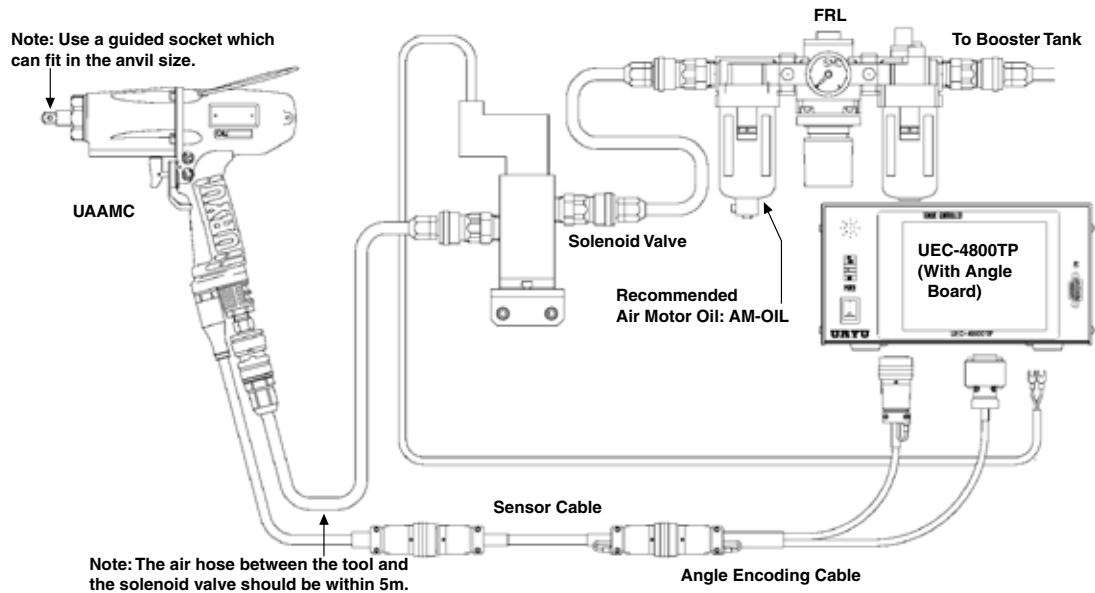
RECOMMENDED AIR PRESSURE: 85 PSI

MODEL	TORQUE RANGE		FREE SPEED RPM	LENGTH		WEIGHT		DRIVE SIZE IN	AIR USAGE CFM
	NM	FT-LB		MM	IN	LB	KG		
PISTOL TYPE									
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
STRAIGHT TYPE									
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

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

# UA-AMC SERIES

## SYSTEM LAYOUT



## UA-AMC SERIES

### FEATURES AND BENEFITS

- The UA-AMC features angle measurement for improved process control.
- No torque reaction.
- The UA-AMC Series detects cross threading, double hits on the same fastener, stripped and damaged fastener threads and incorrect fasteners for an application.
- Two Angle Resolver types: External Resolver and Transducer Integrated Resolver.
- The UA-AMC features patented Auto Relief Technology providing smooth delivery of torque during pulsing events.
- Triple chamber air motors for high power output in UA-400AMC, UA-500AMC and UA-600AMC models.
- UEC-4800 controllers can easily be upgraded to angle capable models. Contact your AIMCO representative for details, 1-800-852-1368.



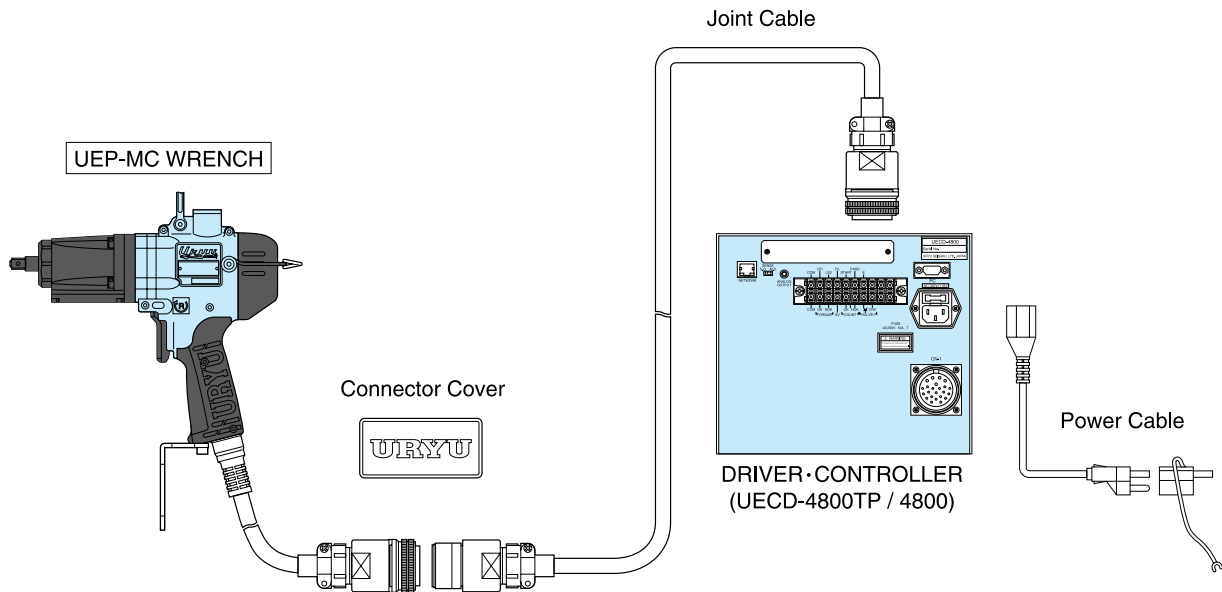
RECOMMENDED AIR PRESSURE: 85 PSI

MODEL	TORQUE RANGE		FREE SPEED RPM	LENGTH		WEIGHT		DRIVE SIZE IN	AIR USAGE CFM
	NM	FT-LB		MM	IN	LB	KG		
UA-400AMC	7 - 13	5.2 - 9.6	3,600	193.0	7.6	3.0	1.4	3/8	7.0
UA-500AMC	11 - 25	8.1 - 18.4	4,250	193.0	7.6	3.0	1.4	3/8	8.8
UA-600AMC	18 - 38	13.3 - 28.0	5,000	198.5	7.8	3.1	1.4	3/8	14.0
UA-700AMC	30 - 50	22.1 - 36.9	5,700	207.5	8.2	3.3	1.5	3/8	15.8
UA-800AMC	40 - 60	29.5 - 44.3	6,000	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

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

# UEP-MC SERIES

## SYSTEM LAYOUT



Uryu's unique feature, a non-contact and Magnetostrictive Transducer, provides tightening and fastening counter monitoring controlled by a highly accurate torque control mechanism connected to the multi-functional UECD-4800 Series controller (This is a combination unit of UEC-4800 and UEPD driver box).

## UEP-MC SERIES

### FEATURES AND BENEFITS

- Operates on standard 110V or 220V power.
- Extremely durable, brushless motor.
- Programmable tool RPM for increased accuracy and adjustability to joint conditions.
- Two stage trigger for separate, slower RPM for soft start applications.
- Quiet operation.
- I/O capability for programmable line control.
- Pulse tool advantages on applications that require controlled electric tools.



MODEL	TYPE	TORQUE RANGE		FREE SPEED	WEIGHT	LENGTH	DRIVE	SOUND LEVEL	REQUIRED
		NM	FT-LB	RPM	LB	IN	IN	DB(A)	DRIVER BOX
UEP-50MC(-STDA)*	Transducerized	5 - 10	3.7 - 7.4	2,000	4.0	7.9	3/8 SQ.	70	UEPD-51A-UL
UEP-50DMC(-STDA)*	Transducerized	5 - 10	3.7 - 7.4	2,000	4.0	7.9	1/4 HEX	70	UEPD-51A-UL
UEP-60MC(-STDA)*	Transducerized	10 - 25	7.4 - 18.5	2,000	4.7	8.7	3/8 SQ.	70	UEPD-61A-UL
UEP-60DMC(-STDA)*	Transducerized	10 - 25	7.4 - 18.5	2,000	4.7	8.7	1/4 HEX	70	UEPD-61A-UL
UEP-70MC(-STDA)*	Transducerized	25 - 40	18.5 - 29.6	2,000	5.2	9.3	3/8 SQ.	72	UEPD-71A-UL
UEP-80MC(-STDA)*	Transducerized	30 - 60	22.2 - 44.4	2,000	6.6	9.3	1/2 SQ.	75	UEPD-71A-UL
UEP-100MC(-STDA)*	Transducerized	60 - 120	44.4 - 88.8	2,000	9.2	10.9	1/2 SQ.	75	UEPD-101A-UL

\* Add "-STDA" to part numbers to include tool, driver box, and driver cable (components can be purchased individually).

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

# UECP-4800 CONTROLLER

## UECP-4800 - UDP TOOLS

### FEATURES AND BENEFITS

- Integrates Tool Driver and UEC-4800 Controller – No Separate Box.
- Windows Based PC Software included.
- Programmable Tool Speeds.



The UECP-4800 is an exclusive controller for UDP-MC Series, so it cannot be connected to other MC/EC tools.

### UECP-4800 FUNCTIONS AND SPECIFICATIONS

- 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 of UECP-4800, which will notify you with a buzzer.
- Can 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.
- **Power Supply:** UDP tool is driven by commercial electricity, providing flexible assembly line changes.

Power Supply	AC100~240V ±10%
Power Frequency	50/60 Hz
Noise Protection	1000V 1μS (according to noise simulator)
Insulation Protection	DC500V over 10MΩ
Ambient Temperature	0~50°C (non-freezing)
Ambient Humidity	90%RH or less (no dew)
Weight	Approx. 11.30 kg
Dimensions	265(d) x 222(w) x 200(h)
Main Functions	Torque control, Torque monitoring, Fastener number count
Parameter Setup	Manual Input on Front LCD Panel PC (with exclusive setup software)
Display	Torque Resolution ±2048 (12-Bit A/D use) LCD type, 20 characters x 4 lines Contents: Work No., Bolt Count No., Tightening Time, Pulse Blow Number 1-digit digital display (DPM): Work No. displayed 4-digit digital display (DPM): Torque reading displayed
LED	Total Lamp (for count judgment): OK (Green), NOK (Red) Torque Lamp (for torque judgment): LOW (Yellow), OK (Green), HIGH (Red)
Input Terminal Signal	Operation Voltage/Current: DC24V, approx. 10mA 6 terminals available (programmable). Note: Contact input necessary
Output Terminal Signal	Contact Capacity: DC 30V, 1A 6 terminals available (programmable), VALVE

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
UECP-4800A	X	X						
UECP-4800A-EX	X			X	X			
UECP-4800A-EXL	X		X	X	X			
UECP-4800A-EDA	X			X		X		
UECP-4800A-EDAL	X		X	X		X		
UECP-4800A-EPA	X			X			X	
UECP-4800A-EPAL	X		X	X			X	

# UDP-MC SERIES

## UDP-MC SERIES

### FEATURES AND BENEFITS

- High speed for increased productivity.
- No torque reaction.
- Magnetostrictive Transducer provides increased durability with low size and weight.
- Auto relief pulse mechanism for measured application of tightening energy.
- Durable 11 mm cable.
- Use with UECP-4800A Controller with integrated driver box.
- Automatic Ventilation System: Cooling fan is activated automatically when pulling the throttle trigger, which reduces heat and increases duty cycle.
- Safety: To protect the operator, the UDP-MC tool stops operation immediately when failure is detected, including overloaded operation, short circuit, and broken wire.



UDP-A80MC

MODEL	TYPE	TORQUE RANGE		FREE SPEED RPM	WEIGHT LB	LENGTH IN	DRIVE IN	SOUND LEVEL DB(A)	REQUIRED DRIVER BOX
		NM	FT-LB						
UDP-A60LMC	Transducerized	4 - 20	3.0 - 14.8	1000 - 4,800	3.4	8.4	3/8 SQ.	74	
UDP-A60MC	Transducerized	5 - 25	3.7 - 18.5	1,000 - 4,800	3.4	8.4	3/8 SQ.	74	N/A
UDP-A80MC	Transducerized	25 - 55	18.5 - 40.5	1,000 - 4,800	3.9	9.5	3/8 SQ.	76	N/A
UDP-A100MC	UNDER DEVELOPMENT								

### TOOL HOLDERS FOR MC TOOLS

Tool Holder Kits provide excellent tool management and protect the torque sensor on the tool from damage when not in use. Kits are supplied with rubber holder, metal bracket, and fasteners to facilitate easy installation.

MODEL	DESCRIPTION
852-669-1	RUBBER TOOL HOLDER, 40 - 90 SERIES
852-669-1 KIT	TOOL HOLDER KIT, 40 - 90 SERIES
852-645-1	RUBBER TOOL HOLDER, 100 SERIES
852-645-1 KIT	TOOL HOLDER KIT, 100 SERIES



852-669-1



852-645-1

852-669-1 KIT  
852-645-1 KIT

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

# ACRA-PULSE® MC & EC SERIES



UXR-1820MC



## ACRA-PULSE® MC SERIES

RECOMMENDED AIR PRESSURE: 85 PSI

MODEL	TORQUE RANGE		FREE SPEED	LENGTH		WEIGHT		DRIVE	NOISE LEVEL	AIR USAGE
	NM	FT-LB	RPM	MM	IN	LB	KG	IN	DB(A)	CFM
ALPHA-60SMC*	10 - 17	7.2 - 14.4	6,300	280	11.0	2.6	1.4	3/8 SQ.	75	8.8
ALPHA-101MC	38 - 70	27.4 - 51.3	6,200	243	9.6	4.6	2.1	1/2 SQ.	80	17.6
ALPHA-110MC	55 - 100	40.5 - 72.3	5,000	250	9.8	5.5	2.5	1/2 SQ.	80	22.9
ALPHA-130MC	90 - 150	65.8 - 109.9	3,400	276	10.9	7.7	3.5	1/2 SQ.	82	22.9
ALPHA-140MC	150 - 220	110.7 - 162.0	3,500	295	11.6	10.2	4.6	3/4 SQ.	85	28.3
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	4,800	355	14.0	17.6	8.0	3/4 SQ.	85	33.6
UXR-2400SMC	350 - 600	258.2 - 442.7	3,300	457	18.0	27.6	12.5	1.0 SQ.	85	35.3

Air Hose Size: 3/8" I.D. 1/2" I.D. for 2000MC

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

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

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

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



U-50EC

## ACRA-PULSE® EC SERIES

RECOMMENDED AIR PRESSURE: 85 PSI

MODEL	TORQUE RANGE		FREE SPEED	LENGTH		WEIGHT		CENTER TO OUTSIDE		DRIVE	NOISE LEVEL	AIR USAGE
	NM	FT-LB	RPM	MM	IN	LB	KG	MM	IN	IN	DB(A)	CFM
U-50EC	5 - 11	3.7 - 8.1	2,100	195	7.7	3.3	1.5	24.0	1.0	3/8 SQ.	72	8.8
U-60SEC*	15 - 25	11.1 - 18.4	1,900	305	8.1	4.4	2.0	27.0	1.1	3/8 SQ.	75	12.3

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

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

NOTE: Torque ranges reflect residual B joint torque values

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

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

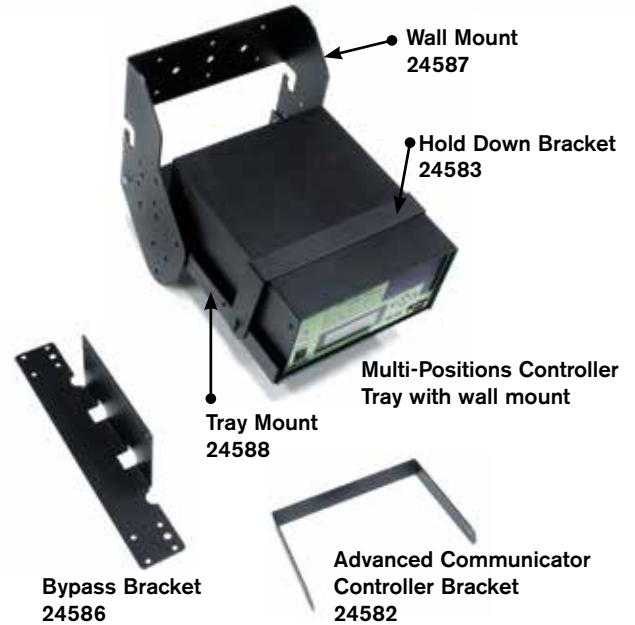
# UEC-4800 CONTROLLER ACCESSORIES

## UEC-4800 CONTROLLER BRACKETS

- Provides a stable platform for the UEC 4800 Controller.
- Flexible mounting configurations for ease of access and operator viewing.
- Optional accessory bracket provides compact storage of light tower and accessories with Controller.
- Durable, Powder Coat finish.

UEC-4800TRAY Complete Assembly for Standard Controllers and Light Towers/Accessories

MODEL	DESCRIPTION
24582	Advanced Communication Enabled Controller Hold Down Bracket
24588	Controller Tray Mount
24587	Wall Mount
24583	Standard Controller Hold Down Bracket
24586	Bypass Bracket



## PROGRAMMABLE PNEUMATIC REGULATOR

- Provides enhanced control for pneumatic assembly tools.
- Enables downshifts with controlled air tools.
- Automatically changes air pressure when programmed Start Torque (threshold) value is reached.
- Can be programmed to switch from high pressure to low pressure or from low pressure to high pressure.
- Excellent for use on extremely hard or extremely soft joints.
- Can be programmed to fully disable tool via PLC input.
- Link to other devices such as a four-position socket tray.



# CONTROLLED PULSE TOOL CABLES



## CONTROLLED PULSE TOOL CABLES

PART NUMBER	DESCRIPTION	FUNCTION	LENGTH		TOOL SERIES							CONTROLLER PLATFORM		
			M	FT	UA-MC	UA-AMC	UEP-MC	UDP-MC	ALPHA-MC	UXR-MC	U/UX-EC	UEC-4800	UECD-4800	UECP-4800
909-921-0	Sensor Cable Assembly	Tool Cable to Controller	5	18	X	X			X	X	X	X		
910-974-0	Joint Cable Assembly	Tool Cable to Controller	5	18				X						X
910-975-0	Joint Cable Assembly	Tool Cable to Controller	10	35				X						X
910-546-0	Joint Cable Assembly	Tool Cable to Controller	3	10			X						X	
910-547-0	Joint Cable Assembly	Tool Cable to Controller	5	18			X						X	
910-548-0	Joint Cable Assembly	Tool Cable to Controller	10	35			X						X	
EC/MCCBL-3	Sensor Cable Assembly	Tool Cable to Controller	1	3	X	X			X	X	X	X		
EC/MCCBL-10	Sensor Cable Assembly	Tool Cable to Controller	3	10	X	X			X	X	X	X		
EC/MCCBL-25	Sensor Cable Assembly	Tool Cable to Controller	7	25	X	X			X	X	X	X		
EC/MCCBL-30	Sensor Cable Assembly	Tool Cable to Controller	9	30	X	X			X	X	X	X		
EC/MCCBL-35	Sensor Cable Assembly	Tool Cable to Controller	10	35	X	X			X	X	X	X		
EC/MCCBL-40	Sensor Cable Assembly	Tool Cable to Controller	12	40	X	X			X	X	X	X		
EC/MCCBL-45	Sensor Cable Assembly	Tool Cable to Controller	13	45	X	X			X	X	X	X		
EC/MCCBL-50	Sensor Cable Assembly	Tool Cable to Controller	15	50	X	X			X	X	X	X		
EC/MCCBL-60	Sensor Cable Assembly	Tool Cable to Controller	18	60	X	X			X	X	X	X		
EC/MCCBL-75	Sensor Cable Assembly	Tool Cable to Controller	22	75	X	X			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 Assembly	External Driver Box to Controller	0.3	1			X					X		

\* Requires Controller with Angle Encoder Board installed



# 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

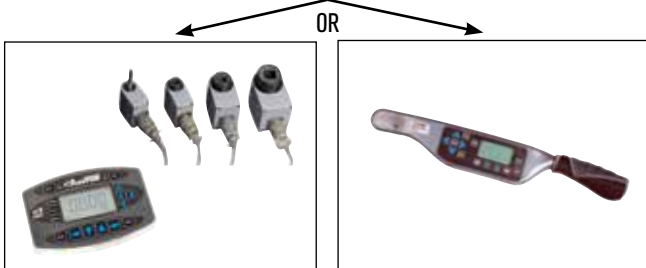
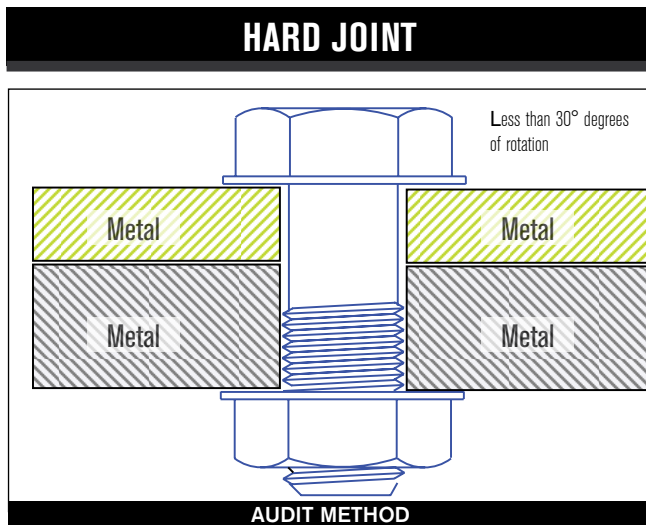
The torque produced during the actual tightening process, normally measured using rotary transducers and a torque analyzer. **Advantages:**

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

## RESIDUAL TORQUE

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

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

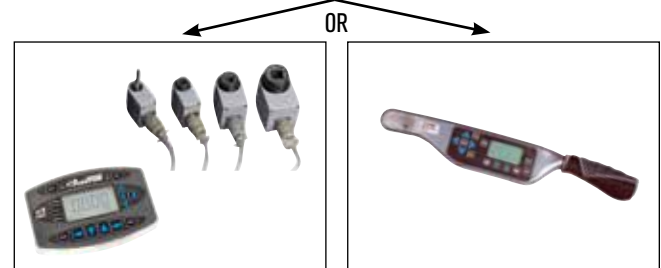
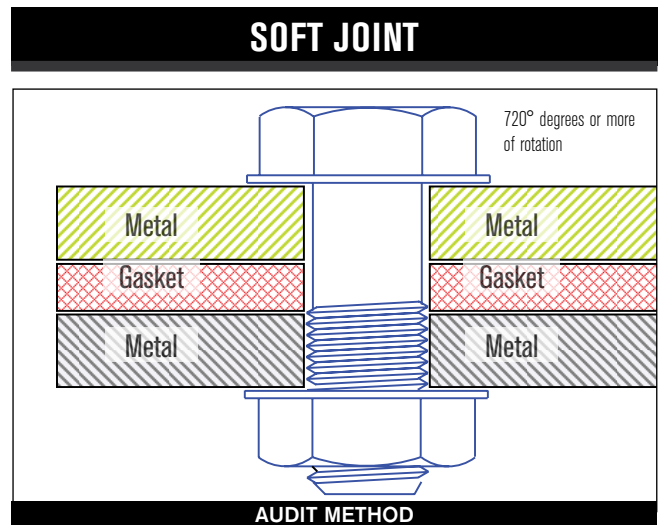


Dynamic Torque: 15 Nm

Residual Torque: 18 Nm

Values as examples only

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.



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. Identify the accuracy & repeatability of the tool before using it in production.

#### **Equipment used:**

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

### PRODUCTS TO USE...



### 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. This is where 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 the user's expectations?*

Checking the product after assembly is the final opportunity to check the product prior to user delivery. This is the way to verify that product quality is satisfactory.

#### **Equipment used:**

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



# TORQUE MEASUREMENT: OVERVIEW

## MEASURING QUALITY – PROCESS CAPABILITY

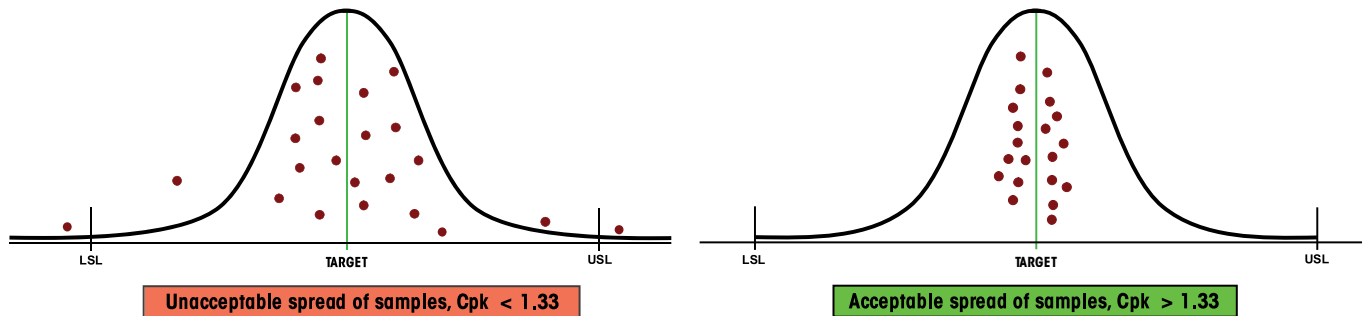
### STATISTICAL ANALYSIS IS AN IMPORTANT STEP IN ANY QUALITY CONTROL PROCESS.

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

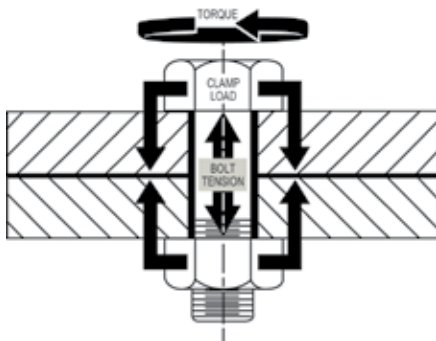
Cpk is a statistical value that indicates how tightly grouped a series of samples is around the target value. Cpk is a function of the Upper Specification Limit (USL), the Lower Specification Limit (LSL), the mean of the samples and the standard deviation ( $\sigma$ ) of the samples.

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

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



## MEASURING QUALITY – CLAMP LOAD

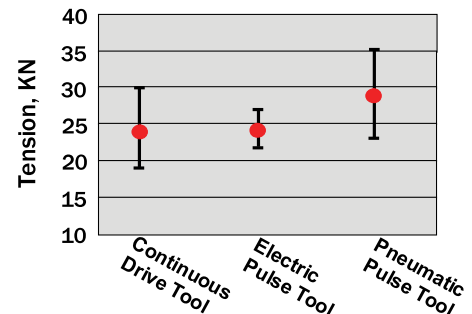
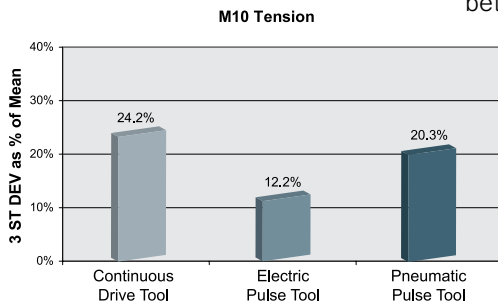


### THE PURPOSE OF THREADED FASTENING IS TO PRODUCE THE CORRECT AMOUNT OF CLAMP LOAD WITHIN THE JOINT.

Due to the cost and difficulty of measuring clamp load during the actual assembly process, torque is used as the control parameter during tightening.

Many manufacturers use torque values as the primary indicator of threaded assembly quality. However, achieving repeatable clamp load is a better indicator of joint quality.

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



# TORQUE 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
Tester	ATC		X							
	AUET		X							
	AUET-DC	X	X							
	AUET/MTM		X			X				
	AUET/MTM-DC	X	X			X				
Analyzer	ATDA					X				
	ATDA-DC	X				X				
	ATDA-8000 -10-DCA(-TA)(-TP)	X				X				
	ADET	X				X				
	DataTouch3	X				X				
Wrench	ADW			X						
	ADW-DC	X								
	APTW			X						
	ATW			X						
	ATWL				X					
	FRDM3	X		X						
	FWE			X						
Transducer	ARTIS									X
	ASTIS							X		
	AISI					X				
	AISF					X				
	AIRI							X		
	AIRF							X		
	ARTB (Bluetooth)									X
ASTB (Bluetooth)								X		
Rundown Fixtures	AJKR									
	AJKS									
	ARDFA									
	ARDIA									
	ARDA (Spline Drive)									
Joint Simulator	UFT									
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*
Torque Cart	IVTC*	X*	X*	X*			X*	X*	X*	X*
	FTY*									
	MSB*	X*	X*	X*			X*	X*	X*	X*

\*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. Provides data collection capability with included software to interface with PC.
Integrated Transducer Range (values are in full scale)	100 in/oz - 1,000 ft/lbs 1 - 1,350 Nm	100 in/oz - 750 ft/lbs 1 - 1,000 Nm	100 in/oz - 750 ft/lbs 1 - 1,000 Nm	100 in/Oz - 750 ft/lbs 1 - 1,000 Nm	100 in/oz - 750 ft/lbs 1 - 1,000 Nm
External Transducer Capacity (transducer sizes exceeding this range may be special ordered)			up to 5,000 ft-lbs		up to 5,000 ft-lbs
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/lbs.

## TORQUE MEASUREMENT TESTERS USED IN CONJUNCTION WITH

External Transducers	ATC	AUET	AUET/MTM	AUET-DC	AUET/MTM-DC
ASTIS - Stationary			X		X
ARTIS - Rotary			X		X
<b>Switch box for External Transducer</b>					
AISWT-4L > 4 Way Intellect box			X		X
AISWT-6L > 6 Way Intellect box			X		X
<b>Cables</b>					
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 Identification chip in cable - 10 pin connector			X		X
ICBL-4P - Intellect transducer cable. Identification chip in cable - 4 pin connector			X		X

# AUDITOR™ TORQUE CUBE™



ATC-10  
ATC-25  
ATC-100  
ATC-250  
ATC-500



ATC-250F  
ATC-750F



## AUDITOR™ TORQUE CUBE™

The Auditor Torque Cube (ATC) is a compact, versatile desktop tester and 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. The 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 joint rundown fixture, a hex to allen drive bit and a bolting template. The ATC can be positioned vertically or horizontally for the ergonomic testing of inline or pistol grip tools.

MODEL	MAX TORQUE		WEIGHT		W X H X D		SQUARE DRIVE
	Nm	in-lb	kg	lb	mm	in	
ATC-10	1.13	10	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/4
ATC-25	2.8	25	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/4
ATC-100	11.3	100	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/4
ATC-250	28.25	250	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	3/8
ATC-500	56.5	500	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	3/8
ATC-250F	339	250 ft-lb	2.25	5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/2
ATC-750F	1017	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

The Auditor Universal Electronic Testers (AUET) have a broad range of features to accommodate most requirements. These instruments are designed to be bench top mounted and are available in several configurations and various single or multiple torque ranges. They are also available with file capability (DC) models. The DC models require PC software Auditor Tool Manager (ATM).

These AUET instruments utilize the same transducers that are featured in the ATC instruments, providing the same high quality accuracy and durability. The common interface makes the Auditor tester extremely user friendly.

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.



### SINGLE TRANSDUCER MODELS

MODEL**	RECOMMENDED TORQUE RANGE	
AUET-0100(-DC)	10 - 100 in-oz	0.7 - 7.2 kgf-cm
AUET-10(-DC)	1 - 10 in-lb	1.1 - 11.5 kgf-cm
AUET-50(-DC)	5 - 50 in-lb	0.5 - 5.6 Nm
AUET-100(-DC)	10 - 100 in-lb	1.1 - 11.3 Nm
AUET-250(-DC)	25 - 250 in-lb	2.8 - 28.3 Nm
AUET-1000(-DC)	100 - 1,000 in-lb	11.3 - 113 Nm
AUET-1200(-DC)	120 - 1,200 in-lb	13.6 - 135.6 Nm

### DUAL TRANSDUCER MODELS

MODEL**	RECOMMENDED TORQUE RANGE			
	Transducer 1	Transducer 2	Transducer 1	Transducer 2
AUET/MTM-10-100(-DC)	1.0 - 10 in-lb	10 - 100 in-lb	0.11 - 1.12 Nm	1.3 - 11.3 Nm
AUET/MTM-50-250(-DC)	5.0 - 50 in-lb	25 - 250 in-lb	0.56 - 5.65 Nm	2.8 - 28.3 Nm
AUET/MTM-50-500(-DC)	5.0 - 50 in-lb	50 - 500 in-lb	0.56 - 5.65 Nm	5.65 - 56.49 Nm
AUET/MTM-100-500(-DC)	10 - 100 in-lb	50 - 500 in-lb	1.13 - 11.3 Nm	5.65 - 56.49 Nm
AUET/MTM-100-1000(-DC)	10 - 100 in-lb	100 - 1,000 in-lb	1.13 - 11.3 Nm	11.3 - 113 Nm

\*Custom sizes are also available, please inquire.

\*\*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.**

# AUDITOR™ TORQUE MEASUREMENT ANALYZERS

## TORQUE MEASUREMENT: ANALYZER

### 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

Auditor Torque Data Analyzer

Auditor Torque Data Analyzer with Data Collection

Portable analyzer to be connected to various transducers

Portable analyzer to be connected to various transducers. Provides data collection capability with included software to interface with PC

Bi-directional	X	X
Data Output to PC	X	X
External Transducer Port	1	1
Number of stored readings	999	999
Rechargeable NiMH Battery	X	X
Digital I/O for external devices	X	X
<b>Measurement Modes</b>	X	X
Peak	X	X
First Peak (Click)	X	X
Pulse	X	X
Track	X	X
Measurement Units	8	8
<b>Software Included</b>		X
Firmware		
LAB - Line Side Auditing		
SPC - Quality Control		
Barcode Reader	X	X
Bluetooth Wireless Option		

## USED IN CONJUNCTION WITH

### Transducers

AISI / AISF - Digital		
ASTIS - Stationary	X	X
ASTB - Stationary Wireless		
ARTIS - Rotary	X	X
ARTB - Rotary Wireless		

### Wrenches

ATW	X	X
FWE		

### 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-8000DIG - Connect from ATDA-8000 series analyzer to AISI / AIFI transducer		
RMC Cable DT.ET		
FWE Cable DT.ET		



# AUDITOR™ TORQUE MEASUREMENT ANALYZERS



ATDA-8000

Auditor Torque Data Analyzer with 7" screen  
7" screen with high resolution display and intuitive user interface



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

Auditor Torque Data Analyzer -10" display with Data Collection. TA = Torque & Angle, TP = Torque & Pressure  
10" touch screen with high resolution display and intuitive user interface with multiplexer



ADET

Auditor Torque Data Analyzer with Data Collection  
Portable with 2.8" touchscreen that displays graphical data with zoom/plot features and 1 GB memory



DataTouch3

Torque and Angle Data Collector designed to operate with SQnet software  
Portable with 2.8" touchscreen that displays graphical data with zoom/plot features and 1 GB memory

X	X	X	X
X	X	X	X
4	4	1	1
999	999	20,000	20,000
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
8	8	8	8
X	X	X	X
		X	X
			X
X	X		X

X	X		
		X	X
		X	X
		X	X
X	X	X	X
		X	X

# AUDITOR™ TORQUE DATA ANALYZERS



ATDA-DC

## AUDITOR™ TORQUE DATA ANALYZERS

The Auditor Torque Data Analyzer (ATDA) DC is designed to be portable or conveniently placed on a bench. Depending on requirements, the tester can be connected to various transducers. In addition, it can be connected to transducerized wrenches, 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. Both 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

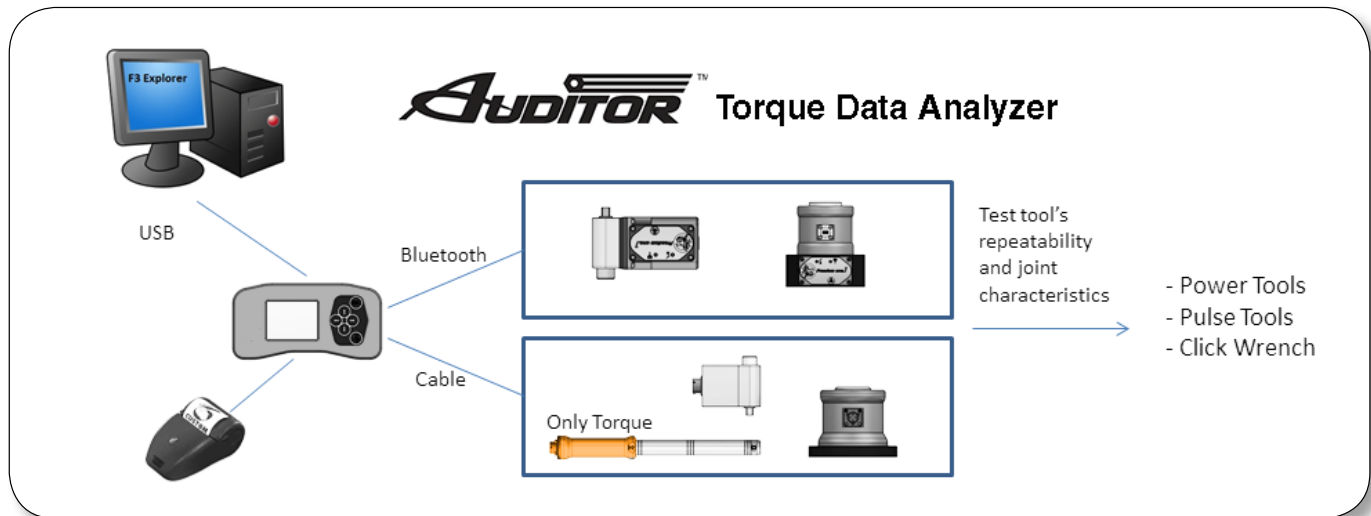


# AUDITOR™ TORQUE DATA ANALYZER

Auditor Data Analyzer provides a simple way to control nutrunners and torque wrenches on the assembly line. This quick and simple data collector provides an economical alternative to the DataTouch Data Analyzer.

## Features and Benefits

- Full-color touchscreen
  - Graphical display with zoom/plot features
  - Transducer auto-recognition
  - Bluetooth wireless (standard)
  - Advanced tightening strategies with easy input steps
  - Embedded firmware (Lab)
  - 1 GB memory
  - Li-Ion battery with 8 hour life
  - Available in two versions
    - Basic - ADET
    - Advanced - ADETB
- Advanced version connects with wireless transducers and printers, and exports data using system software.



## Specifications

Internal Memory: 1 GB  
20,000 results, 20,000 curves,  
1,000 programs  
High-resolution 2.3" touchscreen,  
320 x 240 pixels, 65,535 colors



# DATATOUGH DATA ANALYZER

DataTouch3 is a torque/angle data collector designed to operate with SQnet software. Test tightening tools by connecting stationary or rotary transducers. Test joints by connecting the FWE Wrench.



DataTouch 3

## Features and Benefits

- Full-color touchscreen
- Graphical display with zoom/plot features
- Transducer auto-recognition
- Wireless and Bluetooth options
- Keyboard for navigation and switching on/off
- Advanced tightening strategies with easy input steps
- Embedded firmware (LAB and SPC) targets all operational functions
- 1 GB memory
- Li-Ion battery with 8 hour life
- Optional bar code reader

SQnet software provides protection protocols and allows user to define routes linked to location and tool ID. User downloads events to wrench, performs tasks and sends results back that can be graphed or charted so that statistics can be analyzed.



## Specifications

Internal Memory: 1 GB  
20,000 results, 20,000 curves,  
1,000 settable programs  
High-resolution 2.8" touch-  
screen, 320 x 240 pixels,  
65,535 colors

### Dimensions

Length 215 mm  
Width 144 mm (with battery cap)  
Depth 63 mm  
Weight 750 g + 90 g (belt)



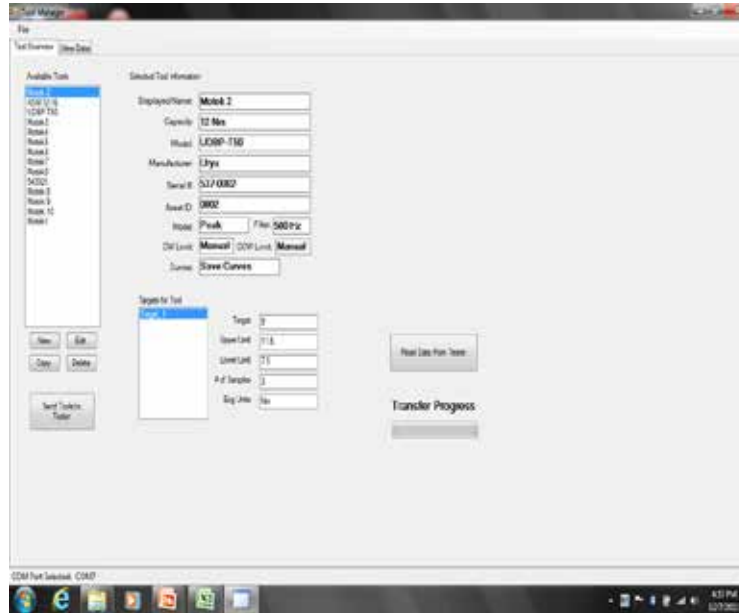
### Power Supply

- Li-Ion changeable battery  
3.6 V, 2700 mA
- 9 hours battery life
- 6 hours to recharge  
battery by PC USB port
- 4 hours to recharge  
battery using external  
battery charger (optional)

# AUDITOR™ TOOL MANAGER/AUDIT MANAGER

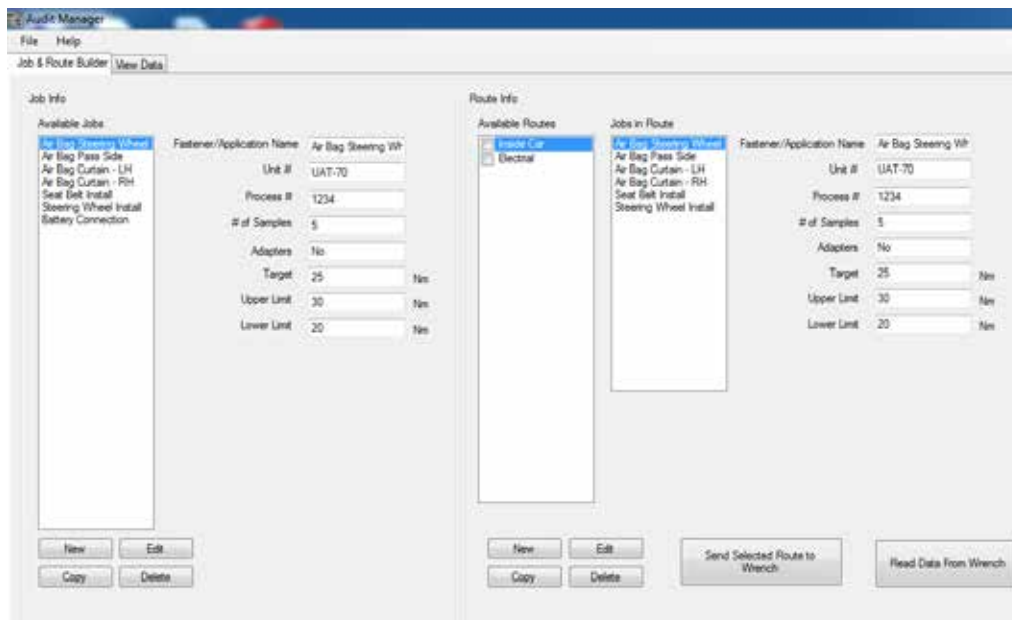
## AUDITOR™ TOOL MANAGER SOFTWARE

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



## AUDITOR™ AUDITOR MANAGER SOFTWARE

Auditor Manager Software is included with the purchase of DC 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.








# AUDITOR™ HIGH CAPACITY TEST STANDS

## TORQUE MEASUREMENT: HIGH CAPACITY TEST STANDS

### Features and Benefits

- Advanced test stations for larger tools and higher torque output
- Configured to meet application requirements
- Durable industrial grade devices

					
	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
	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 CCW 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-3/4RDF		X		X	
AHCTS-1RDF		X		X	
AHCTS-1.5RDF		X		X	
Insert Square Drive Adapters					
CA1510	1-1/2" Male to 1" Female	X		X	
CA1550	1-1/2" Male to 1/2" Female	X		X	
CA1575	1-1/2" Male to 3/4" Female	X		X	
CA2510I	2-1/2" Male to 1" Female	X		X	
CA2515I	2-1/2" Male to 1-1/2" Female	X		X	
CA2575I	2-1/2" Male to 3/4" Female	X		X	
CA150100DHD	1-1/2" Male to 1" Male Hex Dr		X		
CA250108DHD	2-1/2" Male to 1-1/2" Male Hex Dr		X		

Please refer to the Test Stand Configurator in Appendix C on 94 for required ordering options.

# AUDITOR™

# AUDITOR™ HIGH-CAPACITY TEST STANDS



AHCTS-5000



AHCTS-001K

## AHCTS TEST STANDS 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-1000	1" 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
AHCTS-5025*	1.5" Sq Dr dual station w/rundown fixture and reaction devices

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

\*\*Please refer to 94 for required ordering options.

Optional Pelican Case shown (ordered separately)



25503

## AHCTS-K STANDS

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, 1-800-852-1368.

MODEL	DESCRIPTION
AHCTS-0.5K	3/4" Square Drive w/reaction device
AHCTS-001K	1" Square Drive w/reaction device
AHCTS-2.5K	1.5" Square Drive w/reaction device
AHCTS-005K	1.5" Square Drive w/reaction device
AHCTS-010K	1.5" Square Drive w/reaction device
AHCTS-025K	2" Square Drive w/reaction device



# AUDITOR™ HIGH-CAPACITY TEST STANDS

## AIMTS STANDS

These test stands are designed to test impact wrenches, it is necessary to bolt them to a bench. We also recommend that a rundown fixture is always used for testing impacts. These test stands are compatible with any Auditor Torque Analyzer.



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

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

Please refer to the Test Stand Configurator in Appendix C on page 94 for required ordering options.



## AHBTS STANDS

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

# AUDITOR™ TORQUE WRENCHES

## TORQUE MEASUREMENT: TORQUE WRENCH

Features and Benefits						
	ADW	ADW-DC	APTW	ATW	Freedom3 Digital Wrench	FWE
	* Auditor Digital Wrench	* Auditor Digital Wrench with Data Collection	Auditor Preset Torque Wrench	Auditor Torque Wrench	Freedom3 Torque/Angle Wrench	Electric Torque Wrench
Torque Range	7 - 370 ft/lbs 10 - 500 Nm	7 - 370 ft/lbs 10 - 500 Nm	4 - 250 ft/lbs 5 - 340 Nm	4 - 148 ft/lbs 5 - 200 Nm	1.1 - 885 ft/lbs 1.5 - 1,200 Nm	1.1 - 885 ft/lbs 1.5 - 1,200 Nm
	Digital wrench with multiple head options for line side testing/auditing	Digital wrench with multiple head options for line side testing/auditing. Data Collector	Interchangeable heads. Preset uses proprietary adjustment tool to guard against unauthorized setting changes	Transducer on a stick. Communicates with Data Collector Testers and Analyzers	Freedom3 offers a uniquely complete tightening solution with large color touchscreen and 1 GB of memory	Transducerized wrench communicates with DataTouch and ADEC Analyzers (required)
Bi-Directional accuracy of +/- X of indicated reading within the top 90% of the Tester's capacity	1%	1%	3%	0.50%	1%	1%
Software Included	X	X			X	

## USED IN CONJUNCTION WITH

ATDA(DC) Data Analyzer				X		
AUET(DC) Tester				X		
AUET/MTM(DC) Tester				X		
ADEC						X
DataTouch3 Data Analyzer						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 250 ft/lbs
ATWL-750	Torque range up to 750 ft/lbs
ATWL-1000	Torque range up to 1000 ft/lbs

See Appendix B on page 94 to configure wrench with options.

# AUDITOR™ DIGITAL WRENCH SERIES



ADW-0010K111312222



## DATA COLLECTING MODELS

- 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.
- 1400 Nm model uses different handle design.

MODEL	TORQUE RANGE		WEIGHT		OVERALL LENGTH		SQ. 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	1524	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 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 Wrench Configurator in Appendix B on page 92 for required ordering options.



## DOCKING STATION

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

# AUDITOR™ ELECTRONIC TORQUE WRENCHES

## ALLOW PRECISE TIGHTENING AND AUDITING OF YOUR ASSEMBLY APPLICATIONS



### “TRANSUCERS 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 IS style instruments or Auditor™ Intellect instruments that self recognize the transducer.
- Durable – Steel, Aluminum and Carbon Fiber construction providing optimal strength and weight characteristics. 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	136-1360	100-1000	1

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

# AUDITOR™ PRESET TORQUE WRENCHES

## FEATURES AND BENEFITS

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



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

Ratchet and Square Drive Heads	Description
APTH-12RT25	Auditor Preset Torque Wrench Ratchet Insert, 1/4 SQ DR, 12 mm
APTH-12RT38	Auditor Preset Torque Wrench Ratchet Insert, 3/8 SQ DR, 12 mm
APTH-12RT50	Auditor Preset Torque Wrench Ratchet Insert, 1/2 SQ DR, 12 mm
APTH-14RT50	Auditor Preset Torque Wrench Ratchet Insert, 1/2 SQ DR, 14 mm
APTH-14RT34	Auditor Preset Torque Wrench Ratchet Insert, 3/4 SQ DR, 14 mm
APTH-12SD25	Auditor Preset Torque Wrench SQ DR Insert, 1/4 SQ DR, 12 mm
APTH-12SD38	Auditor Preset Torque Wrench SD DR Insert, 3/8 SQ DR, 12 mm
APTH-12SD50	Auditor Preset Torque Wrench SQ DR Insert, 1/2 SQ DR, 12 mm
APTH-14SD50	Auditor Preset Torque Wrench SQ DR Insert, 1/2 SQ DR, 14 mm



Open End Heads	Description
APTH-120E7	Auditor Preset Torque Wrench Insert 7 mm OE, 12 mm
APTH-120E8	Auditor Preset Torque Wrench Insert 8 mm OE, 12 mm
APTH-120E9	Auditor Preset Torque Wrench Insert 9 mm OE, 12 mm
APTH-120E10	Auditor Preset Torque Wrench Insert 10 mm OE, 12 mm
APTH-120E11	Auditor Preset Torque Wrench Insert 11 mm OE, 12 mm
APTH-120E12	Auditor Preset Torque Wrench Insert 12 mm OE, 12 mm
APTH-120E13	Auditor Preset Torque Wrench Insert 13 mm OE, 12 mm
APTH-120E14	Auditor Preset Torque Wrench Insert 14 mm OE, 12 mm
APTH-120E15	Auditor Preset Torque Wrench Insert 15 mm OE, 12 mm
APTH-120E16	Auditor Preset Torque Wrench Insert 16 mm OE, 12 mm
APTH-120E17	Auditor Preset Torque Wrench Insert 17 mm OE, 12 mm
APTH-120E18	Auditor Preset Torque Wrench Insert 18 mm OE, 12 mm
APTH-120E19	Auditor Preset Torque Wrench Insert 19 mm OE, 12 mm
APTH-140E13	Auditor Preset Torque Wrench Insert 13 mm OE, 14 mm
APTH-140E14	Auditor Preset Torque Wrench Insert 14 mm OE, 14 mm
APTH-140E15	Auditor Preset Torque Wrench Insert 15 mm OE, 14 mm
APTH-140E16	Auditor Preset Torque Wrench Insert 16 mm OE, 14 mm
APTH-140E17	Auditor Preset Torque Wrench Insert 17 mm OE, 14 mm
APTH-140E18	Auditor Preset Torque Wrench Insert 18 mm OE, 14 mm
APTH-140E19	Auditor Preset Torque Wrench Insert 19 mm OE, 14 mm
APTH-140E21	Auditor Preset Torque Wrench Insert 21 mm OE, 14 mm
APTH-140E22	Auditor Preset Torque Wrench Insert 22 mm OE, 14 mm
APTH-140E24	Auditor Preset Torque Wrench Insert 24 mm OE, 14 mm
APTH-140E27	Auditor Preset Torque Wrench Insert 27 mm OE, 14 mm
APTH-140E30	Auditor Preset Torque Wrench Insert 30 mm OE, 14 mm
APTH-140E32	Auditor Preset Torque Wrench Insert 32 mm OE, 14 mm
APTH-140E34	Auditor Preset Torque Wrench Insert 34 mm OE, 14 mm
APTH-140E36	Auditor Preset Torque Wrench Insert 36 mm OE, 14 mm
APTH-140E38	Auditor Preset Torque Wrench Insert 38 mm OE, 14 mm
APTH-140E41	Auditor Preset Torque Wrench Insert 41 mm OE, 14 mm

# SCS WRENCHES

## TORQUE MEASUREMENT: SCS WRENCHES

### Features and Benefits

- Torque and Angle Measurement
- Wireless Communication (optional)
- Use as a production wrench or for quality control with high-resolution touch screen display storing data points and curves for quick viewing or transfer to PC



	Freedom3 DIGITAL WRENCH	FWE TA	FWE
Torque Range	11 - 740 ft/Lbs 15 - 1000 Nm	11 - 740 ft/Lbs 15 - 1000 Nm	11 - 740 ft/LbS 15 - 1000 Nm
Performance/Display	1GB Memory stores 20,000 values / 20,000 curves / 1,000 parameter sets, 80 Mips CPU, 32-Bit processor HiRes 2.3" Touch-screen display, 320 x 240 pixel resolution Li-Io rechargeable battery 3.6V 2700mAh, 9 hrs charge	-	-
Bi-directional Measurement accuracy of + / -	.5% in top 80% of range 1.0% in top 90% of range 0.1% display deviation of angle	-	-
Firmware			
LAB: Use when storing results including curves on wrench. These results can be downloaded to PC via F3 Explorer	X	X	X
SPC: Jobs and routes are developed for QC and Production via SQnet and downloaded/uploaded to/from wrench	X	X	
PRW: Used as production tool - communicating on-line via radio, BT or Wi-Fi where results are published in real time using VPG software	X		
Software			
F3 Explorer: Collects data results/curves > edit/export to Excel	X	X	
SQnet: Transfers jobs and routes data to/from device to PC	X	X	
VPG: Real time data transfer via wireless communication	X		
Options (must include with tool purchase)			
Barcode Reader Integrated (optional)	X		
Bluetooth Module Integrated Beneficial in PRW mode to communicate with VPG Software	X		
WiFi Module Integrated Beneficial in PRW mode to communicate with VPG Software	X		

## ACCESSORIES

Battery Cradle	X		
USB Cable	X		
External Battery Charger	X		
Body Jacket	X		

## WRENCH USED IN CONJUNCTION WITH

DataTouch		X	X
EasyTouch			X

## FREEDOM RATCHETS AND SOCKETS

Reversible ratchet	X	X	X
Open end ratchet	X	X	X
Ring end ratchet	X	X	X
Ring open	X	X	X
Recognition chip option	X	X	X

# SCS FREEDOM3 WRENCH

The Freedom3 Wrench offers a uniquely complete tightening solution. Its patented angle measuring system, large color touchscreen, and internal 1 GB memory, make it the best performing and flexible torque/angle wrench on the market.

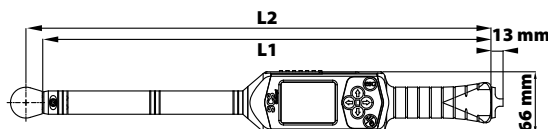
## Features and Benefits

- Full-color 2.8" touchscreen provides a graphical display with zoom/plot features.
- Vibration and LED visual queues
- Create a tightening strategy on the wrench.
- Capable of communicating with PLC and system network
- Auto-recognition of insert head (optional)
- Docking station
- Bar Code Reader (optional)
- Wireless technology (optional)
- Advanced tightening strategies with easy input steps
- Embedded firmware targeting all operational functions  
Lab analysis (LAB), Quality (SPC), Production (PRW)
- Highly functional software options
- Simple flexibility with end effectors
- Programmable or self recognizing length/torsion adjustments ensure accurate measurements with any custom attachment.
- Large internal memory
- Long battery life



## Specifications

Capacity	1.5–1,200 Nm (90% of full scale)
Output	1GB memory stores 20,000 Values with Curves over 1,000 Parameter sets
Repeatability	
Torque	+/- 1% accuracy when used in top 90% of wrench range.
Angle	+/- 0.1% display deviation of angle



Model	Capacity		Drive mm	L1* mm	L2* mm	Weight*	
	Nm	Ft-Lb				lb	kg
FRDM3-15	15	11	9 x 12 female	375	393	1.8	0.8
FRDM3-30	30	22	9 x 12 female	375	393	1.8	0.86
FRDM3-70	70	52	9 x 12 female	480	498	2.1	0.93
FRDM3-100	100	74	9 x 12 female	480	498	2.1	0.93
FRDM3-200	200	148	14 x 18 female	604	629	3.3	1.5
FRDM3-300	300	222	14 x 18 female	754	779	4.1	1.86
FRDM3-400	400	296	14 x 18 female	754	779	4.1	1.86
FRDM3-600	600	444	14 x 18 female	1,032	1,057	8.0	3.65
FRDM3-800	800	592	Ø20 male	1,250	1,330	11.2	5.1
FRDM3-1000	1000	740	Ø20 male	1,520	1,610	13.8	6.25
FRDM3-1200	1200	885	Ø28 SA female	1,732	1,578	15.4	7.0

\* without ratchet

Call for quote on devices with larger capacities

FRDM3 models include predisposition for battery cradle and auto recognition of inserted socket on wrench

# SCS FREEDOM3 WRENCH

With the SCS Freedom3 Wrench, tightening strategies can be monitored using techniques designed to minimize joint elongation of typical breakaway testing. New breakaway methods employ an algorithm to protect real breakaway point and produce similar results regardless of operator influence.



Choose testing method → Test joint → View torque/time, torque angle graphs on wrench  
↓  
Transfer data where applicable.

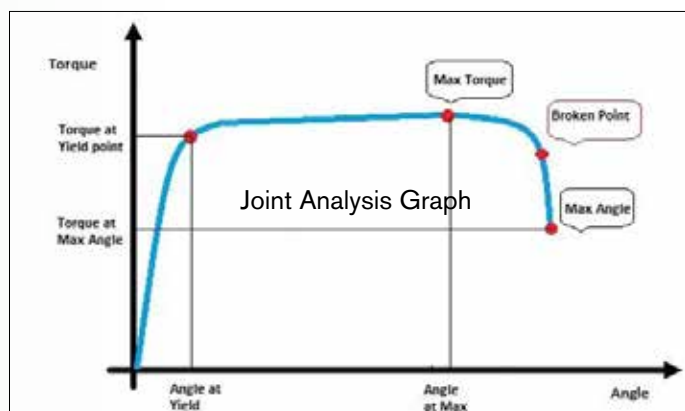
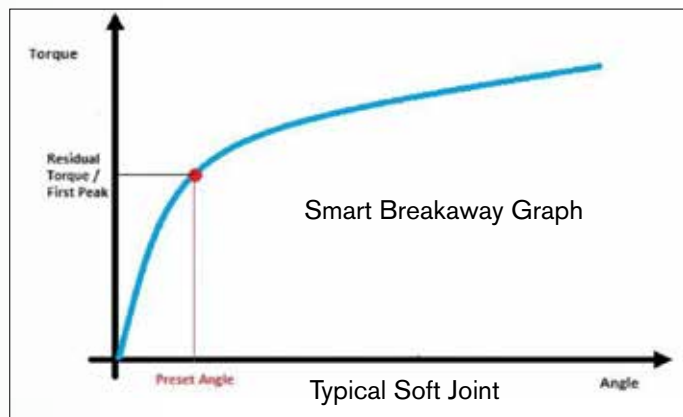
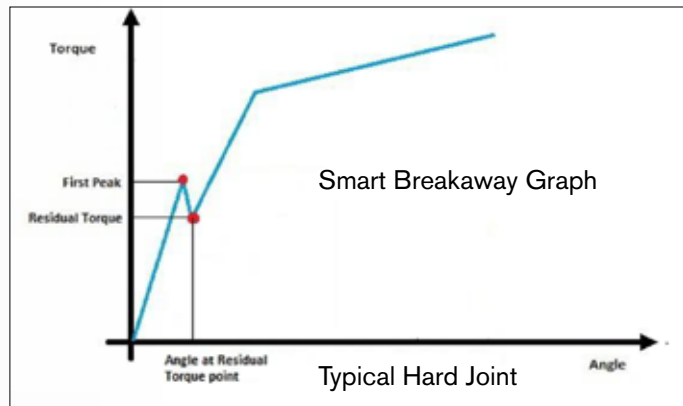
## Tightening Strategies

### SPC Quality Inspection

- **Breakaway Angle**  
Preset angle 1–4° and wrench will return torque value reached at the specified angle of rotation
- **Smart Breakaway Angle**  
Preset angle but returns either First Peak or Residual Torque values. See graphs of typical hard and soft joint curves
- **Breakaway Open/Close**  
Rotate joint CCW a specific degree of angle then retighten CW the same rotation value to move bolt back to original position. Wrench returns torque value at the preset rotation parameter
- **Minimum Torque**  
Validate that the joint meets established torque parameter by setting angle rotation value  
Wrench returns pass/fail value

### LAB Quality Inspection

- **Joint Analysis**  
Wrench will sense yield point and produce joint curves and save as yield torque, yield angle, max torque and angle at max torque





# SCS FWE/FWETA ELECTRONIC WRENCH

The FWE Wrench is an economic alternative to the Freedom3 Wrench. FWE utilizes the same high-quality firmware/software programs and can be cabled to several analyzer options.

## Features and Benefits

- Advanced tightening strategies with easy input steps
- Measure torque and torque/angle.
- Utilize SQNet and F3 Explorer software.
- Extended range covering 1.5 to 1,000 Nm. Other capacities on request.
- Available with internal memory for automatic recognition when connected to the DataTouch3.
- Standard end-fittings 9 x 12 or 14 x 18 allow the use of standard bits.



Use in conjunction with



Auditor Torque Data Analyzer  
FWE



DataTouch3 Analyzer  
FWE TA or FWE

## Specifications

Capacity 1.5–1,000 Nm (wrenches capable of function within top 90% of full scale)

Model	Function
FWE TA	Torque/Angle
FWE	Torque only

Model	Capacity		Drive
	Nm	ft-lb	in
Freedom FWE(TA) 15	15	11	9 x 12
Freedom FWE(TA) 30	30	22	9 x 12
Freedom FWE(TA) 70	70	52	9 x 12
Freedom FWE(TA) 100	100	74	9 x 12
Freedom FWE(TA) 200	200	148	14 x 18
Freedom FWE(TA) 300	300	222	14 x 18
Freedom FWE(TA) 400	400	296	14 x 18
Freedom FWE(TA) 600	600	444	14 x 18
Freedom FWE(TA) 800	800	592	Ø20
Freedom FWE(TA) 1000	1,000	740	Ø20

Call for quote on devices with larger capacities

# TORQUE CARTS

## TORQUE MEASUREMENT: TORQUE CARTS

### Features and Benefits

- Test on repeatable joint simulators or production joints
  - Simple to sophisticated options
  - Manual or self-propelled
  - Mobile test carts can be configured for testing continuous and discontinuous drive tools that include DC electric, clutch, battery, impulse, and torque wrenches
  - Each cart is customizable to meet testing needs from 1 - 1,356 Nm
- Contact your AIMCO representative for a quote or more information



IVCT

FTY

MSB

### Hydraulic Braking Technology

- Dry braking with multiple hydraulic cylinders where thrust is generated equally to allow better linear control of the braking ramp
- Programmable joint characteristics for use with continuous drive tools - no unwinding required after testing

### UFT Repeatability Joint Simulator

- Mechanically adjustable hydraulic pressure circuits allow the bolt tightening body to be configured to simulate various joint characteristics
- Ideal for repeatable, linear joint rate simulation while testing all tools including impulse tools

DataPro Software

Torque Wrench Loader Option

X

X

X\*

X\*

X

X

X

X

X

X

\* Optional equipment - extension added to cart

## AUDITOR TORQUE CART



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

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

Each cart can be equipped to specific customer requirements. Maximum torque range on board torque cart is 1000 ft-lb or 1,356 Nm. Ancillary test stands up to 50,000 ft-lb available.

# SCS TORQUE CART

High-precision torque carts able to simulate a fastener in all conditions



FTY Torque Cart

## Features and Benefits

---

- Hydraulic braking technology – dry braking with multiple hydraulic cylinders where thrust is generated equally to allow better linear control of the braking ramp
- ISO 5393, VDI 2862, ISO 6789, VDE 2647
- Sophisticated DataPro software
- Time saving testing of tools with the same tightening strategy as used on production line
- Comparative test analysis
- Lightweight



MSB Torque Cart

## Specifications

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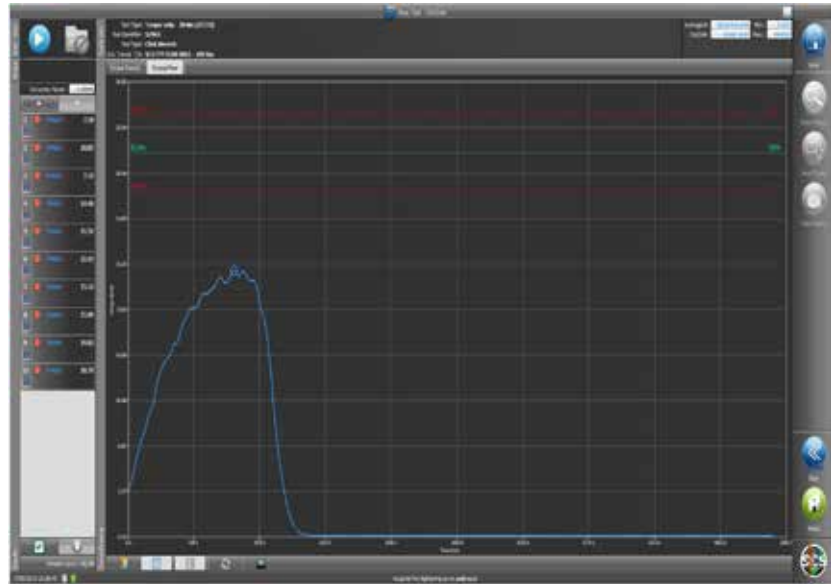
- USB interface
- Sampling frequency of up to 30 kHz with settable filter up to 3 kHz
- Accuracy of 0.5% within top 90% of full scale
- Tests power tools up to 1,356 Nm

# TORQUE CART DATAPRO + SQNET SOFTWARE

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

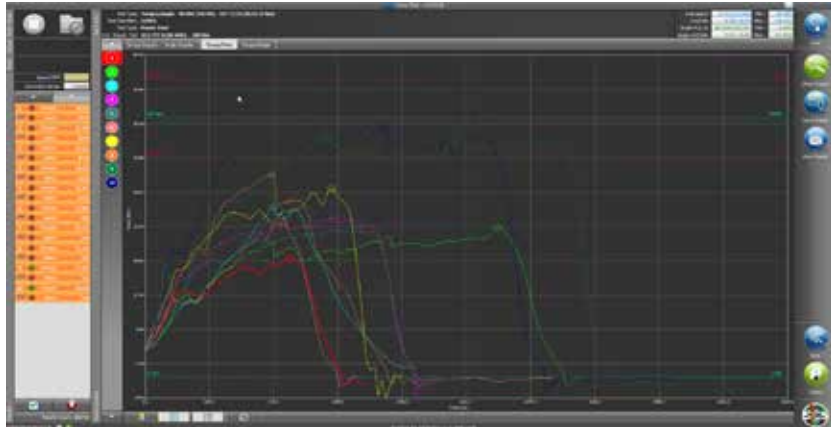
## TORQUE VERIFICATION

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



## TRACES

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



## DATABASE INFORMATION

These screens show Operation lists and associated tools along with the historic test or quality data recorded. From the historic data screen you can launch statistical graphs to view and analyze archived data. The graphs include X-bar range, histogram, Six Sigma, Cp & Cpk graphs.

Job No.	Operation	Date	Time	Value	Unit	Min	Max	Avg	Stdev	CP	CPK	6Sigma	Source	Owner
1001	1001	2010-10-10	10:00:00	100.00	mmHg	95.00	105.00	100.00	2.00	1.33	1.00	100%	OK	John
1002	1002	2010-10-10	10:01:00	100.00	mmHg	95.00	105.00	100.00	2.00	1.33	1.00	100%	OK	John
1003	1003	2010-10-10	10:02:00	100.00	mmHg	95.00	105.00	100.00	2.00	1.33	1.00	100%	OK	John
1004	1004	2010-10-10	10:03:00	100.00	mmHg	95.00	105.00	100.00	2.00	1.33	1.00	100%	OK	John
1005	1005	2010-10-10	10:04:00	100.00	mmHg	95.00	105.00	100.00	2.00	1.33	1.00	100%	OK	John
1006	1006	2010-10-10	10:05:00	100.00	mmHg	95.00	105.00	100.00	2.00	1.33	1.00	100%	OK	John
1007	1007	2010-10-10	10:06:00	100.00	mmHg	95.00	105.00	100.00	2.00	1.33	1.00	100%	OK	John
1008	1008	2010-10-10	10:07:00	100.00	mmHg	95.00	105.00	100.00	2.00	1.33	1.00	100%	OK	John
1009	1009	2010-10-10	10:08:00	100.00	mmHg	95.00	105.00	100.00	2.00	1.33	1.00	100%	OK	John
1010	1010	2010-10-10	10:09:00	100.00	mmHg	95.00	105.00	100.00	2.00	1.33	1.00	100%	OK	John

# 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.

Please contact our Customer Service Associates for additional information, 1-800-852-1368.

Used in Conjunction with Analyzers

	Stationary			Rotary	
	ASTIS	AISI - AISF	ASTB	ARTIS	ARTB
ATC	X			X	
AUET	X			X	
AUET/MTM	X			X	
ATDA	X			X	
ATDA-8000		X			
ADET			X	X	X
DataTouch3			X	X	X

See Appendix A on page 92 to configure complete part.

## AUDITOR™ STATIONARY TRANSDUCERS

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



**AISI**

STATIONARY TRANSDUCER	MAX TORQUE		WEIGHT		W X H X D		DRIVE in
	Nm	in-lb/ft-lb	kg	lb	mm	in	
AISI-200025	2.8	25	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/4
AISI-200100	11.3	100	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	1/4
AISI-200500	56.5	500	1.13	2.5	79 x 95 x 83	3.13 x 3.75 x 3.25	3/8
AISF-200100	135.6	1,200/100	2.25	5	100 x 65	4 x 3	1/2
AISF-200250	339	3,000/250	2.25	5	100 x 65	4 x 3	1/2
AISF-201000	1350	12,000/1,000	2.8	6	100 x 65	4 x 3	1



**ASTIS**

STATIONARY TRANSDUCER	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	1695 Nm	750 ft-lb	1



**ASTB**

STATIONARY TRANSDUCER	MAX TORQUE		DRIVE in
	Nm	in-lb/ft-lb	
ASTB-75R-10P	10	7.4	3/4
ASTB-75S-10C	10	7.4	3/4
ASTB-75R-50P	50	36.8	3/4
ASTB-75S-50C	50	36.8	3/4
ASTB-75R-100P	100	73.6	3/4
ASTB-75R-250P	250	184	3/4
ASTB-75R-500P	500	369	3/4
ASTB-75R-1000P	1000	737	3/4
ASTB-75R-2500P	2500	1844	3/4

R= spline drive for pulse tool, S= square drive for continuous drive tools, Bluetooth

# AUDITOR™ TRANSDUCERS

## AUDITOR™ ROTARY TRANSDUCERS



MODEL	DRIVE	MAX TORQUE		LENGTH (A)	THICKNESS (B)	WIDTH (C)	WEIGHT lb
		Nm	in-lb/ft-lb				
ARTIS-25H-2T(A)	1/4 Hex	2	18 in-lb	4.6	1.1	2.2	1.0
ARTIS-25H-5T(A)	1/4 Hex	5	44 in-lb	4.6	1.1	2.2	1.0
ARTIS-25H-20T(A)	1/4 Hex	20	180 in-lb	4.6	1.1	2.2	1.0
ARTIS-25S-10T(A)	1/4 Sq.	10	88 in-lb	2.9	1.1	2.2	1.0
ARTIS-38S-75T(A)	3/8 Sq.	75	50 ft-lb	3.0	1.6	2.7	1.2
ARTIS-50S-180T(A)	1/2 Sq.	180	130 ft-lb	3.4	1.6	2.7	1.5
ARTIS-75S-500T(A)	3/4 Sq.	500	370 ft-lb	4.1	2.0	3.1	2.2
ARTIS-100S-1400T(A)	1 Sq.	1400	1025 ft-lb	4.9	2.4	3.6	4.0

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



STATIONARY TRANSDUCER	DRIVE in	MAX TORQUE	
		Nm	in-lb/ft-lb
ARTB-25H-2TA	1/4 Hex	2	1.4
ARTB-25H-5TA	1/4 Hex	5	3.7
ARTB-25S-10TA	1/4 Sq.	10	7.4
ARTB-25S-20TA	1/4 Sq.	20	14.7
ARTB-38S-25TA	3/8 Sq.	25	18.4
ARTB-38S-75TA	3/8 Sq.	75	55.3
ARTB-50S-180TA	1/2 Sq.	180	133
ARTB-75S-250TA	3/4 Sq.	250	184
ARTB-75S-500TA	3/4 Sq.	500	369
ARTB-100S-1400TB	1" Sq.	1400	1032
ARTB-150S-3000TB	1-1/2 Sq.	3000	2213
ARTB-150S-5000TA	1-1/2 Sq.	5000	3688

Bluetooth, Torque / Angle


# TORQUE MEASUREMENT RUNDOWN FIXTURES / JOINT SIMULATORS

RUNDOWN FIXTURE	MODEL SERIES	WEAR RESISTANT HEAVY DUTY	HEAVY DUTY FULLY ENCAPSULATED	HEAVY DUTY ENCAPSULATED WASHERS	STANDARD (INCLUDED W/ ANALYZER)	SPLINE DRIVE
	ARDIA-XXXHD	X				
	ARDFA-XXXHD	X				
	ARDFA-XXXHDS		X			
	ARDIA-XXXHDS		X			
	ARDFA-XXXHDE			X		
	ARDIA-XXXHDE			X		
	ARDFA-XXX				X	
	ARDIA-XXX				X	
	ARDA-XXX	X	X			X*

Fixtures can be ordered to simulate hard, med, or soft joints

Mechanical Belleville system of bolt, nut or nut body, Belleville washers and main housing, 1/4" - 3/4" drive sizes, 10 in/lbs - 1,200 ft/lbs

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

JOINT SIMULATOR		
	AJKR-	Joint Kit for Rotary Transducer
	AJKS-	Joint Kit for Stationary Transducer

Provide linear response and are repeatable 1/4" - 1" drive sizes 28 - 1,695 Nm

HYDRAULIC MECHANICAL JOINT SIMULATOR	
	UFT SERIES

Accurate, repeatable, linear, and durable. Tests 3 - 690 Nm, M5 - M24 fastener sizes  
See page 89.

Design Type:	Power Tools	Impulse Tools
Square drive	X	
Spline Drive		X

Rundown Fixtures used in conjunction with these external transducers:	ASTIS	AISI-AISF	ARTIS	ASTB	ARTB
ARDIA/ARDFA	X	X	X		X
ARDA				X	X
AJKS	X		X		
AJKR			X		X
UFT			X		X

# TORQUE MEASUREMENT RUNDOWN FIXTURES / JOINT KITS

## 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 resistance to rotation increases as load on the fastener and joint 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.



### Rundown fixtures for heavy duty use.

MODEL*	DESCRIPTION	RECOMMENDED TORQUE RANGE		SQUARE DRIVE
		IN-LB	Nm	
ARDIA-10(HD)(HDE)(HDS)	Rundown Fixture	1.0 - 10	.13 - 1.13	1/4
ARDIA-25(HD)(HDE)(HDS)	Rundown Fixture	2.5 - 25	.28 - 2.8	1/4
ARDIA-100(HD)(HDE)(HDS)	Rundown Fixture	10.0 - 100	1.3 - 11.3	1/4
ARDIA-250(HD)(HDE)(HDS)	Rundown Fixture	25.0 - 250	2.8 - 28.25	3/8
ARDIA-500(HD)(HDE)(HDS)	Rundown Fixture	50.0 - 500	5.6 - 56.5	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.

MODEL*	DESCRIPTION	RECOMMENDED TORQUE RANGE		SQUARE DRIVE
		IN-LB	Nm	
ARDFA-100(HD)(HDE)(HDS)	Rundown Fixture	10 - 100	13.6 - 136	1/2
ARDFA-150(HD)(HDE)(HDS)	Rundown Fixture	15 - 150	20.4 - 204	1/2
ARDFA-250(HD)(HDE)(HDS)	Rundown Fixture	25 - 250	34.0 - 340	1/2
ARDFA-600(HD)(HDE)(HDS)	Rundown Fixture	60 - 600	81.6 - 816	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

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



# UFT SERIES JOINT SIMULATORS

## UFT SERIES JOINT SIMULATORS

- AIMCO's UFT Joint Simulators offer the most repeatable and linear joint rate simulation of any product on the market.
- Pulse tool and continuous drive tool certification and testing.
- Consists of a bolt tightening body and a hydraulic pressure loading mechanism. A hydraulic pressure circuit connects these two bodies. Ideal for ISO 5393 test procedures.
- Three joint rates can be easily and quickly simulated by opening or closing two external valves.
- Specially coated testing bolt produces over 100,000 cycles without variation or deformation.



UFT-24



UFT-S10



UFT-S16

MODEL	BOLT SIZE	TORQUE RANGE		SNUG TORQUE NM	A-JOINT RATE NM/DEG	B-JOINT RATE NM/DEG	C-JOINT RATE NM/DEG	D-JOINT RATE NM/DEG	CENTER TO OUTSIDE X HEIGHT MM	WEIGHT	
		FT-LB	NM							LB	KG
UFT-S10	M6	5 - 11	6.7 - 14.7	2.7	0.36	0.10	0.04	0.02	76 x 203	43	19.5
	M8	11 - 23	14.7 - 31.4	7.5	0.79	0.26	0.06	0.03			
	M10	23 - 40	31.4 - 53.9	14.9	1.22	0.35	0.09	0.06			
UFT-S16	M12	40 - 65	53.9 - 88.2	27.5	1.80	0.51	0.22	0.09	97 x 256	88	40
	M14	65 - 110	88.2 - 149	44.0	2.70	0.79	0.22	0.14			
	M16	110 - 140	149 - 190	73.5	4.70	1.22	0.35	0.21			
UFT-24*	M18	140 - 217	190 - 294						138 x 171	108	49.1
	M20	217 - 325	294 - 441								
	M24	325 - 506	441 - 686								

\* UFT-24 medium hard/soft joints only

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

# TORQUE MEASUREMENT CABLES

## CABLES



ICBL-USB



ATDBLIS

TORQUE MEASUREMENT: CABLES								
MODEL	SERIAL CABLE	TRANSDUCER CABLE	ROTARY	ROTARY W/ANGLE	STATIONARY	IND STD	INTELLECT	
1	ICBL-USB	X						
2	ATDBLIS		X	X		X		
3	ATDBRIS		X		X	X		
4	ICBL-10P		X	X			X	
5	ICBL-4P		X	X	X		X	
6	ICBL-8000DIG		X					
7	RMC Cable DT.ET		X	X	X			
8	FWE Cable DT.ET		X					

Cables 1-5 are compatible with ATDA, AUET, ADW products

1. Connects between comport of display to PC
2. Connect to IS transducer w/ angle - 10 pin
3. Connect to IS transducer - 4 pin
4. Intellect transducer cable. Identification chip in cable - 10 pin connector
5. Intellect transducer cable. Identification chip in cable - 4 pin connector
6. Connect from ATDA-8000 series analyzer to AISI / AIFI transducer
7. Connect from DataTouch3 / ADET analyzer to ARTB/ARTS transducers
8. Connect from DataTouch3 / ADET analyzer to FWE Wrenches



CABLE COMPATIBILITY														
	ATC	AUET	AUET/MTM	AUET-DC	AUET/MTM-DC	ATDA	ATDA-DC	ATDA-8000	ATDA-8000-10-DCA(-TA)(-TP)	ADW	ADW-DC	FWE	AEDT	DataTouch
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-8000DIG								X	X					
RMC Cable DT.ET													X	X
FWE Cable DT.ET												X		



# APPENDICES

## APPENDIX A: TRANSDUCER CONFIGURATOR

Model Number	Base Model Number (1-11)						
	1	2	3	4	5	6	7
Examples of part numbers	A	I	S	I	-	2	0
	A	I	S	F	-	2	0
	A	X	R	N	-	1	0
Transducer Options and Configuration	Auditor	Configuration	Type	Units		Angle	
		I = Intellect X = Industry Standard	R = Rotary S = Stationary W = Wireless	I = in lb F = ft lb N = NM		1 = Yes 2 = No	

Base model number (first 11 characters) describes Auditor, Configuration Intellect or Industry Standard, Type Rotary, Stationary or Wireless, Engineering Units In Lb, Ft Lb or NM, Angle Yes or No and Capacity.

To complete configuration of a 15 character part number select options and configuration sequentially from column 1 through 15. Columns 7-11 specify torque capacity.

## APPENDIX B: WRENCH CONFIGURATOR

Model Number Columns	Base Model Number (1-9)								
	1	2	3	4	5	6	7	8	9
Examples of part numbers	A	D	W	-	0	0	7	5	K
	A	D	W	-	0	0	1	0	K
	A	T	W	-	0	2	0	0	F
Wrench Options and Configuration	Auditor	Type	Wrench	Capacity					Style
		D = Digital T = Transducer							K = Katana D = Katana w/dovetail transducer F = "Stick" straight handle

Base model number (first 9 characters) describes Auditor, Type; Digital or Transducer, Capacity, Style; Katana, Katana w/Dovetail transducer or Stick.

To complete configuration of a 18 character part number select options and configuration sequentially from column 1 through 18. Columns 5-8 specify torque capacity.

# APPENDICES

8	9	10	11	12	13	14	15
0	0	5	0	1	2	1	2
0	7	5	0	1	2	1	5
0	1	8	0	2	2	2	4
Capacity				Fixture	Expanded Range	Digital Transducer	Drive Size
				1 = Bench Stand 2 = Inline 3 = Loader	1 = Yes 2 = No	1 = Yes 2 = No	1 = 1/4" Hex 2 = 1/4" Sq 3 = 3/8" Sq 4 = 1/2" Sq 5 = 3/4" Sq 6 = 1" Sq 7 = 1-1/2" Sq

The base model number is not a complete part number, - Fixture, Expanded Range, Digital Transducer and Drive Size must be specified by building complete part number.

10	11	12	13	14	15	Future Options (15-18)		
10	11	12	13	14	15	16	17	18
1	1	3	3	1	2	2	2	2
1	1	1	3	2	2	2	2	2
2	2	3	1	2	2	2	2	2
Data Collector	Bar Code Docking Station	Sq Dr	Configuration	Engineering Unit	Angle	Accelerometer	Graphics	Tone Generator
1 = Yes 2 = No	1 = Yes 2 = No	1 = 1/4" 2 = 3/8" 3 = 1/2" 4 = 3/4" 5 = 1" 6 = NA	1 = Intellect (intelligent td) 2 = IS (industry standard) 3 = NA (digital wrench)	1 = NM 2 = ft lb 3 = in lb	1 = Yes 2 = No	1 = Yes 2 = No	1 = Yes 2 = No	1 = Yes 2 = No
Not yet available so always enter 2 (No) for these options.								

The base model number is not a complete part number, - Data Collector, Bar Code & Docking Station, Sq Dr, Configuration, Engineering Unit and Future Options must be specified by completing 18 character part number.

# APPENDICES

## APPENDIX C: TEST STAND CONFIGURATOR

	Base Model Number (1-10)									
Model Number Columns	1	2	3	4	5	6	7	8	9	10
Example of part numbers	A	H	C	T	S	-	5	0	0	0
	A	H	C	T	S	-	5	0	0	0
	A	H	C	T	S	-	0	0	5	K
	A	H	B	T	S	-	2	0	0	0
Test Stand Configuration and options	Auditor	High	Cap	Test	Stand		Configuration & Capacity K= Hydraulic			

Base model number (first 10 characters) describes Auditor, High, Capacity or Brake, Test Stand, Torque Capacity and Configuration; Rotary or Hydraulic (K).

To complete configuration of a 18 character part number select options and configuration sequentially from column 1 through 18. Columns 7-10 specify torque capacity.

# APPENDICES

11	12	13	14	15	16	17	18
1	3	3	5	7	1	1	2
6	2	3	5	1	1	2	2
1							
4							
Display Options	Legs	Base Dimension	Rundown Fixture Options	Reaction Post Options	Casters	Arm for Display	Digital Module
1 = ATDA	1 = 6" Legs	0 = 8" x 8"	1 = 500 ft lb capacity	1 = 6" Post	1 = Yes	1 = Yes	1 = Yes
2 = No Embedded display	2 = No Legs	1 = 12' x 12"	2 = No rundown fixture	2 = No Post	2 = No	2 = No	2 = No
3 = ATDA-DC	3 = 18" Legs	3 = 14" x 19"	3 = 1000 ft lb capacity	3 = 6" Posts			
4 = ATDA-8000 (7)	4 = Custom Legs in 6" increments	4 = 18" x 24"	4 = 2500 ft lb capacity	4 = Paddles			
5 = ATDA-8000-10 (10)		5 = 18" x 36"	5 = 5000 ft lb capacity	5 = Custom			
6 = Embedded Display		6 = NA no base plate	6 = 7500 ft lb capacity	6 = 9" Post			
7 = ATRC Module			7 = 1.5" rundown kit for "K" stands.	7 = 9" Posts			
			8 = 2.5" rundown kit for "K" stands.				

The base model number is not a complete part number, - Display Options, Legs, Base Dimension, Rundown Fixture, Reaction Post, Casters, Arm and Digital Module must be specified by building complete part number.

# AIMCO 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 ms) 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

## TIMELINE

### 1965

#### NEW TECHNOLOGY

The first pulse tool prototype was designed in an attempt to provide a tool that would provide torque control without the high maintenance costs of impact wrenches.



### 1980

#### U SERIES

Uryu produces the U-series, the first pulse tools to be available commercially for assembly. The U-Series evolves over the next several years to cover torque ranges from 4 – 850 Newton meters and finally, the development of full-shut-off tools. The lack of torque reaction and accurate, repeatable torque makes these tools a manufacturer standard.



### 1988

#### EC SERIES

The EC Series (and later the MC Series) combines the advantages of pulse tools with the technology of controlled tools. By incorporating a transducer into the design of the U-Series pulse tool, customers gain the Productivity and Ergonomics of pulse tools and the traceability and control of other transducerized assembly tools. Manufacturers with safety critical applications now have many more options for assembly tools.



### 2006

#### UEP-MC SERIES

Uryu does what no other manufacturer can by developing the UEP series, the first and only electric powered pulse tool. The lower speeds, quiet operation, and extremely repeatable torque make the UEP the perfect choice for applications where accuracy and clean operation are critical. By combining programmable tool speed with the MC-style transducer, extremely accurate and repeatable torque is achieved on a variety of applications.



### 2012

#### UDP-MC CONTROLLED SERIES

Uryu introduced the UDP-MC controlled series – smaller, lighter electric pulse tools that have an integrated fan unit. The state-of-the-art UECD controller with a built-in driver box eliminates the need for a secondary driver box in the system configuration.





# OMEGA PULSE TOOLS: OVERVIEW

## 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.

## 1995

### ALPHA SERIES

The Alpha-series continued Uryu's advancements in pulse-tool design. In order to achieve the best possible power-to-weight ratio, the Alpha 9-blade, twin chamber air motor is developed. Still unique today, this new motor provides significantly more power, thereby, reducing cycle times and improving torque repeatability. The new Alpha air motor and design changes make the tools smaller and lighter, keeping Uryu at the forefront of pulse tool technology.



## 2001

### ULT / UL SERIES

Continuous innovations and developments include a new O-ring design that improves durability, roller bearings in the pulse unit to increase hydraulic fluid life and redesigned porting helps maintain fluid temperature and torque repeatability. UL tools, with their non-shut off operation, are ideal for applications where the lightest, fastest tool is necessary. Each model features the powerful Alpha air motor and latest in pulse unit design.



## 2013

### UA-AMC CONTROLLED PULSE SERIES

The UA-AMC Series features angle measurement for improved process control. It detects cross threading, double hits on the same fastener, stripped and damaged fastener threads and incorrect fasteners. It also features patented Auto Relief Technology, which modulates the beginning of the torque event, increases pulse frequency, and reduces resistance during the non-pulsing portion of the cycle. This shortens cycle time and increases fluid life.



### UAT SERIES

In 2013, Uryu developed and patented the latest innovation in Pulse Tool technology. Auto Relief (PAT) enables efficient delivery of torque energy to the application. Auto Relief responds to ever-changing pressures in the pulse unit, applying its energy in a smooth manner to the joint as the torque is developed. The Auto Relief valve is fully open during free run and automatically closes when torque resistance is sensed. No adjustment required. Benefits include elimination of initial torque spike on hard joints, reduction in oil flow resistance, and maximized performance of the tool.

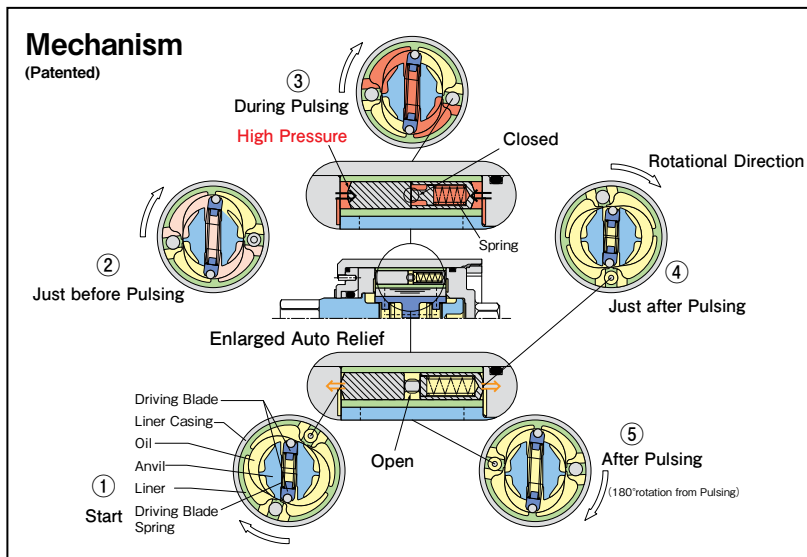


# OMEGA PULSE TOOLS: UAT SERIES

## PATENTED AUTO RELIEF TECHNOLOGY:

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

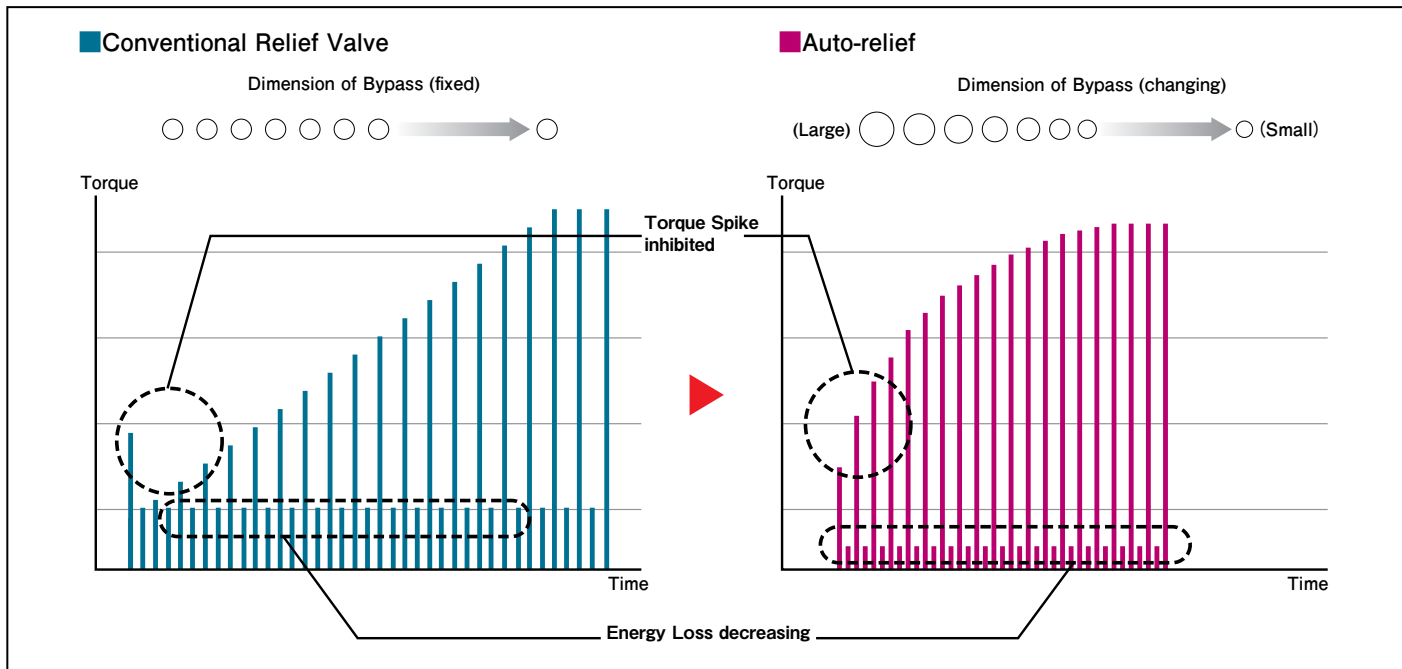
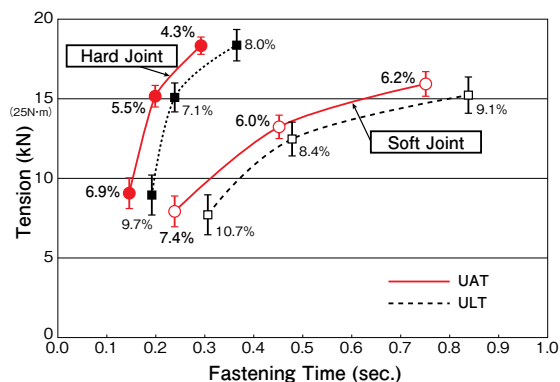
- Auto Relief eliminates initial spike of torque during a cycle. Highly effective on hard joint applications.
- Auto Relief ramps up pressure within the pulse unit resulting in more pulses in less time providing a more efficient and even torque event.



## 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**



**INLINE SHUT-OFF**

## PISTOL SHUT-OFF

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED rpm	TORQUE RANGE		WEIGHT		OVERALL LENGTH		DRIVE in	SOUND LEVEL dB(A)	AIR USAGE cfm
		Nm	ft-lb	lb	kg	in	mm			
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 - 8.0	3.3 - 5.9	2.0	0.9	6.4	162	3/8	75	8.8
UAT-40D	3,800	4.5 - 8.0	3.3 - 5.9	2.0	0.9	6.5	165	1/4	75	8.8
UAT-50	4,600	7.0 - 15.5	5.2 - 11.5	2.0	0.9	6.4	162	3/8	78	8.8
UAT-50D	4,600	7.0 - 15.5	5.2 - 11.5	2.0	0.9	6.5	165	1/4	78	8.8
UAT-50L	4,000	7.0 - 15.5	5.2 - 11.5	2.0	0.9	6.4	162	3/8	75	8.8
UAT-50DL	4,000	7.0 - 15.5	5.2 - 11.5	2.0	0.9	6.5	165	1/4	75	8.8
UAT-60	6,700	15.0 - 32.0	11.1 - 23.7	2.1	1.0	6.8	174	3/8	80	12.3
UAT-60D	6,700	15.0 - 32.0	11.1 - 23.7	2.1	1.0	7.0	177	1/4	80	12.3
UAT-60L	6,000	13.0 - 28.0	9.6 - 20.7	2.1	1.0	6.8	174	3/8	77	8.8
UAT-70	6,000	30.0 - 55.0	22.2 - 40.7	2.3	1.1	7.1	180	3/8	80	14.0
UAT-70L	5,300	25.0 - 48.0	18.5 - 35.5	2.3	1.1	7.1	180	3/8	78	10.5
UAT-80	5,600	45.0 - 63.0	33.3 - 46.6	2.8	1.3	7.3	186	3/8	80	16.8
UAT-80L	5,300	35.0 - 55.0	25.9 - 40.7	2.8	1.3	7.3	186	3/8	78	14.0
UAT-90	5,700	50.0 - 85.0	37.0 - 62.9	3.2	1.5	7.6	192	1/2	82	18.6
UAT-90L	5,100	45.0 - 75.0	33.3 - 55.5	3.2	1.5	7.6	192	1/2	79	15.8
UAT-100	5,200	70.0 - 130.0	51.8 - 96.2	3.7	1.7	7.8	199	1/2	82	19.3
UAT-100L	5,200	60.0 - 110.0	44.4 - 81.4	3.7	1.7	7.8	199	1/2	79	16.8
UAT-130	4,500	110.0 - 150.0	81.4 - 111	5.1	2.3	8.5	217	1/2	82	24.6
UAT-200	2,400	200.0 - 400.0	148.0 - 296.0	12.8	5.8	11.0	279	3/4	85	35.2

Air Hose Size: 1/4" ID for UAT-30 to UAT-50, 3/8" ID for UAT-60 to UAT-100, 1/2" ID for UAT-130 to UAT-200  
Note Torque Ranges reflect residual B joint torque values

Air Inlet Thread: 1/4" NPT for UAT-30 to UAT-100 3/8" NPT for UAT-130 to UAT-200  
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).

## INLINE SHUT-OFF

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED rpm	TORQUE RANGE		WEIGHT		OVERALL LENGTH		DRIVE in	SOUND LEVEL dB(A)	AIR USAGE cfm
		Nm	ft-lb	lb	kg	in	mm			
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).

\* **E** 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.

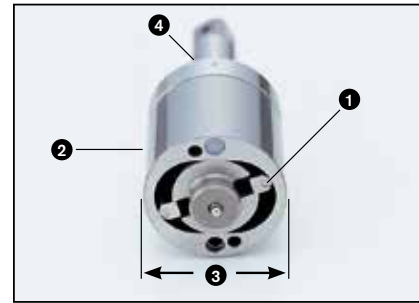
### FEATURES AND BENEFITS

- Models available from 6 – 260 Nm (4.4 – 170 FtLb)
- Models with air, electric, or battery power.
- Available in Standard, Tightening Monitor, and Transducerized versions.
- High power-to-weight ratio
- Simple operation
- Reduced Maintenance
- Extended service life
- Environmentally friendly design.
- Accurate and repeatable



UL-50

### Omega Series Pulse Unit



- ❶ Roller bearings – reduced friction.
- ❷ Accumulator – stable fluid temperature.
- ❸ Reduced size – lightweight tools.
- ❹ New O-ring design – better durability

Recommended Air Pressure: 85 psi

## UL SERIES PISTOL NON 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
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

UL-50S



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	in	dB(A)	cfm
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

NOTE: Torque ranges reflect residual B joint torque values

All pulse tools ending in "D" include a 1/4" Hex quick-change bit holder.

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

# ACRA-PULSE® SERIES



UXR-T3000S



UXR-T1820



UX-T1400



## PISTOL SHUT-OFF 3/8" - 1/2" DRIVE

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED RPM	TORQUE RANGE		OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		SQ. DRIVE IN	NOISE LEVEL DB(A)	AIR USAGE CFM
		NM	FT-LB	MM	IN	LB	KG	MM	IN			
UX-T700L*	7,500	13 - 26	10 - 19	187	7.4	3.2	1.5	25.5	1.0	3/8	72	10.5
UX-T700*	7,500	20 - 38	15 - 28	187	7.4	3.2	1.5	25.5	1.0	3/8	72	10.5
UX-T800	8,300	30 - 45	22 - 33	196	7.7	4.0	1.8	28.0	1.1	3/8	75	12.3
UX-T900	7,000	35 - 70	25 - 50	202	7.9	4.4	2.0	30.0	1.2	1/2	75	16.0
UX-T1000	6,800	50 - 90	36 - 65	207	8.2	5.2	2.4	33.0	1.3	1/2	75	17.6
UX-T1300	6,200	70 - 130	50 - 94	225	8.9	6.2	2.8	36.0	1.4	1/2	77	19.4
UX-T1400	5,300	100 - 160	75 - 115	245	9.6	7.5	3.4	40.0	1.6	1/2	79	21.1

Air Hose Size: 3/8 I.D.

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

NOTE: Torque ranges reflect residual B joint torque values

\* UX-T700 and UX-T700L 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, UX-T700 becomes UX-T700TM).

## SHUT-OFF 3/4" - 1" DRIVE

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED RPM	TORQUE RANGE		OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		SQ. DRIVE IN	NOISE LEVEL DB(A)	AIR USAGE CFM
		NM	FT-LB	MM	IN	LB	KG	MM	IN			
UX-T1620	5,000	120 - 210	87 - 150	260	10.2	8.1	3.7	40.0	1.6	3/4	82	22.9
UXR-T1820	4,400	150 - 250	110 - 180	270	10.6	9.9	4.5	42.0	1.7	3/4	84	24.7
UXR-T2000	4,000	200 - 400	150 - 290	303	11.9	15.0	6.8	47.0	1.8	3/4	85	34.0
UXR-T2400S*	3,600	360 - 650	260 - 470	444	17.5	26.5	12.0	61.5	2.4	1	85	35.3
UXR-T3000S	4,400	450 - 850	330 - 620	477	18.8	32.0	14.5	62.0	2.4	1	85	37.1

Air Hose Size: 3/8" I.D. for UX-T1620 - 1/2" I.D. for UXR-T1820 - UXR-T3000S

Air Inlet: N.P.T. 3/8" for UXR-T1820 - UXR-T2000 - N.P.T. 1/2" for UXR-T2400S - UXR-T3000S - N.P.T. 1/4" for UX-T1620

NOTE: Torque ranges reflect residual B joint torque values

Inside Trigger Standard (UXR-T2400S - UXR-T3000S)

\* UXR-T2400S model can be equipped with TM (Tightening Monitor) feature for use with qualifier systems. Order TM tools by adding "TM" to model number (UXR-T2400STM).

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

# ACRA-PULSE® SERIES



UX-1400



Auto Reversing  
UX-ST800

## PISTOL NON SHUT-OFF 1/4" HEX DRIVE

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED RPM	TORQUE RANGE		OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		NOISE LEVEL DB(A)	AIR USAGE CFM
		NM	FT-LB	MM	IN	LB	KG	MM	IN		
U-350D	10,500	3.5 - 5.8	2.5 - 4.2	154	6.1	1.7	0.8	22.0	0.9	74	5.3
UX-450D	9,500	8 - 14	5.8 - 10	152	6.0	1.9	0.9	22.0	0.9	<70	7.0
UX-500D	9,300	13 - 20	10 - 15	152	6.0	1.9	0.9	22.0	0.9	70	8.8
UX-612D	9,300	16 - 28	12 - 20	165	6.5	2.1	1.0	22.5	0.9	75	11.2

Air Hose Size: 1/4" I.D. for U-350D - UX-500D - 3/8" I.D. for UX-612D - UX-700D  
All Tools Standard with 1/4" Quick Change Chuck

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

NOTE: Torque ranges reflect residual B joint torque values

## PISTOL NON SHUT-OFF 3/8" - 1/2" DRIVE

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED RPM	TORQUE RANGE		OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		SQ. DRIVE IN	NOISE LEVEL DB(A)	AIR USAGE CFM
		NM	FT-LB	MM	IN	LB	KG	MM	IN			
UX-450	9,500	9 - 15	6.5 - 11	147	5.8	1.9	0.9	22.0	0.9	3/8	65	7.0
UX-500	9,300	15 - 25	11 - 19	147	5.8	1.9	0.9	22.0	0.9	3/8	70	8.8
UX-612	9,300	20 - 35	15 - 25	160	6.3	2.1	1.0	22.5	0.9	3/8	75	11.2
UX-700	9,000	25 - 45	20 - 35	169	6.7	3.0	1.4	25.5	1.0	3/8	73	12.3
UX-800	9,000	35 - 60	25 - 45	175	6.9	3.7	1.7	28.0	1.1	3/8	73	14.1
UX-900	7,600	45 - 75	35 - 55	181	7.1	4.1	1.9	30.0	1.2	1/2	75	14.7
UX-1000	6,800	50 - 95	40 - 70	187	7.4	4.8	2.2	33.0	1.3	1/2	75	17.9
UX-1300	6,200	80 - 130	60 - 95	205	8.1	5.9	2.7	36.0	1.4	1/2	76	19.4
UX-1400	5,300	100 - 160	75 - 120	224	8.8	7.0	3.2	40.0	1.6	1/2	78	21.1

Air Hose Size: 1/4" I.D. for U-410 - UX-500 - 3/8" I.D. for UX-612 - UX-1400

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

NOTE: Torque ranges reflect residual B joint torque values

## PISTOL NON SHUT-OFF 3/4" - 1" DRIVE

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED RPM	TORQUE RANGE		OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		SQ. DRIVE IN	NOISE LEVEL DB(A)	AIR USAGE CFM
		NM	FT-LB	MM	IN	LB	KG	MM	IN			
UX-1620	5,000	120 - 190	90.0 - 140.0	241	9.5	7.9	3.6	40.0	1.6	3/4	82	22.9
UXR-1820	4,600	160 - 250	120.0 - 185.0	242	9.5	9.0	4.1	42.0	1.7	3/4	84	26.3
UXR-2000	4,200	300 - 450	220.0 - 330.0	282	11.1	14.3	6.5	47.0	1.8	3/4	85	31.5

Air Hose Size: 3/8" I.D. for UX-1620 1/2" I.D. for UXR-1820

Air Inlet: N.P.T. 1/4" for UX-1620 N.P.T. 3/8" for UXR-1820, UXR-2000

NOTE: Torque ranges reflect residual B joint torque values Torque Control in Left-Hand Rotation Available for UXR-2000

## AUTO REVERSING

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED RPM	TORQUE RANGE		OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		NOISE LEVEL DB(A)	AIR USAGE CFM
		NM	FT-LB	MM	IN	LB	KG	MM	IN		
UX-ST800	7,300	35 - 55	25 - 40	195	7.7	3.8	1.8	28.0	1.1	75	10.5

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

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

NOTE: Torque ranges reflect residual B joint torque values

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

# ACRA-PULSE® SERIES



UX-700S



U-410S



UX-700C

## INLINE NON SHUT-OFF 1/4" HEX DRIVE

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED RPM	TORQUE RANGE		OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		NOISE LEVEL DB(A)	AIR USAGE CFM
		NM	FT-LB	MM	IN	LB	KG	MM	IN		
U-310SD	11,000	2.5 - 3.1	1.8 - 2.2	222	8.7	1.5	0.6	18.0	0.7	74	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	74	5.3
U-410SD	10,500	7 - 10	5.0 - 7.2	240	9.5	1.8	0.8	22.0	0.9	70	5.3
UX-450SD	9,500	8 - 14	5.8 - 10	239	9.4	1.8	0.8	22.0	0.9	<70	7.0
UX-500SD	9,300	13 - 20	10 - 15	244	9.5	2.0	0.9	22.0	0.9	70	8.8
UX-612SD	9,300	16 - 28	12 - 20	253	10.0	2.2	1.0	23.3	0.9	75	11.1
UX-700SD	9,000	20 - 36	16 - 28	249	9.8	2.8	1.3	26.5	1.0	78	12.3

Air Hose Size: 1/4 I.D. for U-310SD - UX-500SD - 3/8" I.D. for UX-612D - UX-700SD Air Inlet: N.P.T. 1/4"  
All Tools Standard with 1/4 Quick Change Chuck

NOTE: Torque ranges reflect residual B joint torque values

## INLINE NON SHUT-OFF 3/8" - 1/2" DRIVE

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED RPM	TORQUE RANGE		OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		SQ. DRIVE IN	NOISE LEVEL DB(A)	AIR USAGE CFM
		NM	FT-LB	MM	IN	LB	KG	MM	IN			
U-410S	10,500	7 - 10	5.0 - 7.2	239	9.4	1.8	0.8	22.0	0.9	3/8	70	5.3
UX-450S	9,500	9 - 15	6.5 - 11	234	9.2	1.8	0.8	22.0	0.9	3/8	<70	7.0
UX-500S	9,300	15 - 25	11 - 19	239	9.4	2.0	0.9	22.0	0.9	3/8	70	8.8
UX-612S	9,300	20 - 35	15 - 25	248	9.8	2.2	1.0	23.3	0.9	3/8	75	11.1
UX-700S	9,000	25 - 45	20 - 35	244	9.5	2.8	1.3	26.5	1.0	3/8	78	12.3
UX-800S	9,000	35 - 60	25 - 45	250	9.8	3.2	1.5	35.5	1.0	3/8	75	14.2
UX-900S	7,600	45 - 75	35 - 55	310	12.2	3.9	1.8	37.5	1.1	1/2	75	14.9
UX-1000S	6,800	50 - 95	40 - 70	320	12.6	4.6	2.1	39.0	1.1	1/2	75	17.9
UX-1300S	6,200	80 - 130	60 - 95	336	13.2	6.6	2.6	42.0	1.3	1/2	77	19.4

Air Hose Size: 1/4" I.D. for U-410S - UX-500S - 3/8" I.D. for UX-612S - UX-1300S

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

NOTE: Torque ranges reflect residual B joint torque values

## INLINE NON SHUT-OFF 3/4" - 1" DRIVE

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED RPM	TORQUE RANGE		OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		SQ. DRIVE IN	NOISE LEVEL DB(A)	AIR USAGE CFM
		NM	FT-LB	MM	IN	LB	KG	MM	IN			
UXR-2000S	4,200	300 - 450	220 - 330	340	13.4	15.4	7.0	47.0	1.8	3/4	85	31.6
UXR-2400S	4,000	400 - 650	290 - 470	385	15.2	23.7	11.0	55.0	2.1	1	85	35.2
UXR-3000S	4,400	500 - 850	360 - 630	455	17.9	29.3	13.3	62.0	2.1	1	85	37.1
UXR-3000S(OUT)	4,400	500 - 850	360 - 630	455	17.9	29.3	13.3	62.0	2.1	1	85	37.1

UXR-2000 S - UXR-3000S have an inside trigger. UXR-3000S(OUT) has an outside trigger

Air Hose Size: 1/2" I.D.

Air Inlet (NPT): 3/8" for UXR-2000S

1/2" for UXR-2400S, UXR-3000S, and UXR-3000S(OUT)

NOTE: Torque ranges reflect residual B joint torque values  
Torque control in left-hand rotation available

## ANGLE 3/8" - 1/2" DRIVE

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED RPM	TORQUE RANGE		WEIGHT LB	WEIGHT KG	OVERALL LENGTH		SQ. DRIVE IN	NOISE LEVEL DB(A)	AIR USAGE CFM
		NM	FT-LB			MM	IN			
ALPHA-70C	6,300	28 - 45	20.2 - 32.5	3.9	1.8	266	10.5	3/8	82	15.8
ALPHA-70CH	3,600	50 - 76	36.1 - 56.0	4.4	2.0	282	11.1	1/2	82	15.8
UX-500C	9,300	13 - 20	10.0 - 15.0	2.8	1.3	270	10.6	3/8	82	8.8
UX-612C	9,800	16 - 28	12.0 - 20.0	3.0	1.4	283	11.1	3/8	85	11.2
UX-700C	9,500	20 - 36	16.0 - 28.0	3.7	1.7	273	10.8	3/8	85	12.3
UX-800C	9,000	29 - 43	20.0 - 31.0	4.3	1.9	285	11.2	3/8	85	14.1
UX-1000C	6,800	50 - 80	40.0 - 58.0	6.8	3.1	365	14.4	1/2	90	17.9

Air Hose Size: 1/4" I.D. for UX-500C - 3/8" I.D. for ALPHA-70C, ALPHA-70CH, UX-612C - UX-1000C

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

NOTE: Torque ranges reflect residual B joint torque values

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

# UDBP PULSE SERIES CORDLESS TOOLS

**The next-generation cordless pulse tool combines industry-leading pulse technology with Lithium-Ion battery power.**

## FEATURES AND BENEFITS

- Uryu Direct Battery Pulse (UDBP) – This new design connects the pulse unit directly to the motor – no reduction gearing – resulting in a tool with less noise and vibration.
- The new brushless Internal Permanent Magnet (IPM) motor provides longer motor life and more efficiency allowing more fastening cycles per battery charge.
- UDBP features patented Auto Relief Technology providing additional control to the application of torque during the pulsing events.
- On board LEDs for application illumination.
- Li-Ion battery provides more power and ends the “battery-memory” issues of NiCd batteries.
- Tool/battery combination is 27% lighter than earlier UBP tools.
- RF Types transmit “good” signal to receiver (sold separately) over 426Mhz.
- “Good” signal can be used for Poka-Yoke or Bolt Counting.



The lithium-ion battery provides better power-to-weight ratio. It will not be affected by the memory effect caused by repeated recharging after being only partially discharged.

The battery power indicator provides you with a visual indication to charge the lithium-ion battery.

- = good charge
- = low charge (recharging needed)
- = very low charge (immediate recharging needed)



**Battery: UB111Li, UB222Li, UB333Li**

**Charger: UBC**

The slide design battery provides the high-energy efficiency in power and no damage to contact.

(P) represents the 3/8" square drive anvil with socket retainer pin. (RF) represents the tool with wireless transmission feature.

MODEL	TYPE	FREE SPEED RPM	TORQUE RANGE Nm	TORQUE RANGE ft-lb	WEIGHT W/BATTERY lb	LENGTH in	DRIVE in	SOUND LEVEL dB(A)	VOLTAGE V	BATTERY	CHARGER
UDBP-TA40	Shut-off	4,800	4.5 - 8	3.3 - 5.9	3.1	8.2	1/4 hex	75	11.1	UB111Li	UBC
UDBP-TA40(P)(RF)	Shut-off	4,800	4.5 - 8	3.3 - 5.9	3.1	8.2	1/4 hex	75	11.1	UB111Li	UBC
UDBP-TA50	Shut-off	4,800	6.5 - 13	4.8 - 9.6	3.1	8.2	1/4 hex	76	11.1	UB111Li	UBC
UDBP-TA50(RF)	Shut-off	4,800	6.5 - 13	4.8 - 9.6	3.1	8.2	1/4 hex	76	11.1	UB111Li	UBC
UDBP-TA60	Shut-off	4,800	13 - 26	9.6 - 19.2	3.7	8.8	1/4 hex	77	22.2	UB222Li	UBC
UDBP-TA60(RF)	Shut-off	4,800	13 - 26	9.6 - 19.2	3.7	8.8	1/4 hex	77	22.2	UB222Li	UBC
UDBP-TA50(P)	Shut-off	4,800	7 - 15	5.1 - 11.1	3.1	8.1	3/8 sq.	76	11.1	UB111Li	UBC
UDBP-TA50(P)(RF)	Shut-off	4,800	7 - 15	5.1 - 11.1	3.1	8.1	3/8 sq.	76	11.1	UB111Li	UBC
UDBP-TA60(P)	Shut-off	4,800	15 - 28	11.1 - 20.7	3.7	8.7	3/8 sq.	76	22.2	UB222Li	UBC
UDBP-TA60(P)(RF)	Shut-off	4,800	15 - 28	11.1 - 20.7	3.7	8.7	3/8 sq.	76	22.2	UB222Li	UBC
UDBP-TA70(P)(RF)	Shut-off	4,800	26 - 47	19.2 - 34.7	4.4	9.2	3/8 sq.	76	33.3	UB333Li	UBC

Adding "KIT" to the tool model number will include two (2) batteries and the battery charger with the specified tool. Example: UDBP-T50KIT

NOTE: Torque ranges reflect residual B joint torque values.

Battery: UB111Li, UB222Li, UB333Li (also sold separately)

Charger: UBC (also sold separately)

Charge Time: 80% battery capacity - 40 minutes, 100% battery capacity - 64 minutes.

## BODY JACKETS FOR UDBP SERIES

MODEL	DESCRIPTION
863-964-1	UDBP TOOL, 40/50 SERIES
863-965-1	UDBP TOOL, 60 SERIES
863-966-1	UDBP TOOL, 70 SERIES

## BATTERY COVERS

MODEL	DESCRIPTION
863-976-1	UDBP BATTERY COVER, 40/50 SERIES
863-977-1	UDBP BATTERY COVER, 60 SERIES
863-978-1	UDBP BATTERY COVER, 70 SERIES

## RECEIVER



MODEL	DESCRIPTION
TWF-600R	Receiver for UDBP (RF) type tools 426Mhz (also sold separately)

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



# UDBP PULSE TOOL BATTERIES

## UDBP SERIES KITS AND COMPONENTS

Standard Shut Off Type

TOOL	TOOL BATTERY (SUPPLIED SEPARATELY)	CHARGER	TOOL PLUS 1 BATTERY	TOOL PLUS 2 BATTERIES AND 1 CHARGER
UDBP-TA40	UB111LI	UBC	UDBP-TA40-B	UDBP-TA40-KIT
UDBP-TA50	UB111LI	UBC	UDBP-TA50-B	UDBP-TA50-KIT
UDBP-TA50(P)	UB111LI	UBC	UDBP-TA50(P)-B	UDBP-TA50(P)-KIT
UDBP-TA60	UB-222LI	UBC	UDBP-TA60-B	UDBP-TA60-KIT
UDBP-TA60(P)	UB-222LI	UBC	UDBP-TA60(P)-B	UDBP-TA60(P)-KIT
UDBP-TA70(P)	UB-333LI	UBC	UDBP-TA70(P)-B	UDBP-TA70(P)-KIT

Shut Off Type With Rf Communication (Poka Yoke)

TOOL	2 CHANNEL RF RECEIVER	TOOL BATTERY (SUPPLIED SEPARATELY)	CHARGER	TOOL PLUS 1 BATTERY	TOOL PLUS 2 BATTERIES AND 1 CHARGER
UDBP-TA40RF	TWF-600R	UB111LI	UBC	UDBP-TA40RF-B	UDBP-TA40RF-KIT
UDBP-TA50RF	TWF-600R	UB111LI	UBC	UDBP-TA50RF-B	UDBP-TA50RF-KIT
UDBP-TA50(P)RF	TWF-600R	UB111LI	UBC	UDBP-TA50(P)-RF-B	UDBP-TA50(P)-RF-KIT
UDBP-TA60RF	TWF-600R	UB-222LI	UBC	UDBP-TA60RF-B	UDBP-TA60RF-KIT
UDBP-TA60(P)RF	TWF-600R	UB-222LI	UBC	UDBP-TA60(P)-RF-B	UDBP-TA60(P)-RF-KIT
UDBP-TA70(P)RF	TWF-600R	UB-333LI	UBC	UDBP-TA70(P)-RF-B	UDBP-TA70(P)-RF-KIT

[www.aimco-global.com](http://www.aimco-global.com)

800-852-1368



# UDP-TA SERIES

## DIRECT PLUG IN, SHUT OFF PULSE TOOLS

### FEATURES AND BENEFITS

- Direct Wall Plug in – Tool plugs directly to 100-115VAC 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-TA SERIES

MODEL	TORQUE RANGE		RPM FREE SPEED	OVERALL LENGTH		WEIGHT		DRIVE
	NM	FT LBS		IN	MM	LB	KG	
Bottom Cable Exit Models (denoted by -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.

Top Cable Exit Models (denoted by (B-TL) )

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	9.2 - 18.5	4,800	7.3	184.5	3.0	1.4	3/8" Sq.

### OPTIONAL ACCESSORIES

MODEL	DESCRIPTION
UCB-25	Power Cable Balancer
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



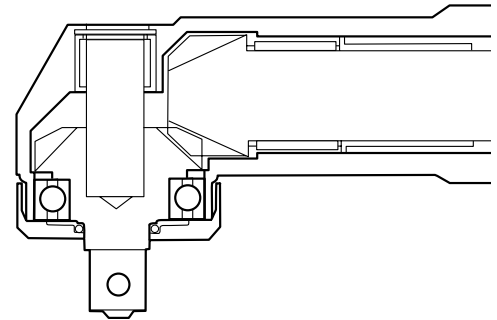
910-629-0

# NUTRUNNERS: OVERVIEW

## UAN SERIES ANGLE NUTRUNNERS

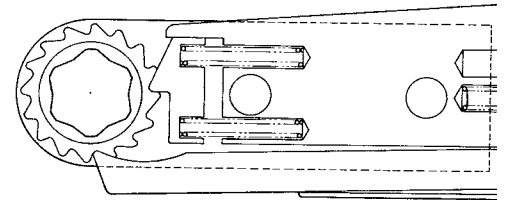
- Torque Control
- Electronically Monitored or Controlled Type

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-lbs).



## URW SERIES IN-LINE RATCHET WRENCHES

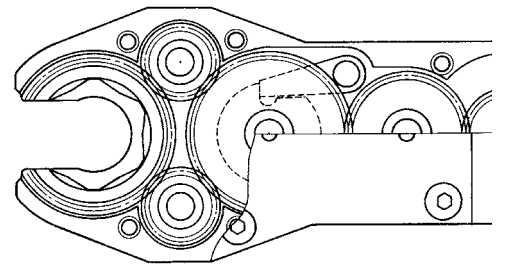
Designed to set flush over the fastener head, the URW Series is ideal for narrow fastening spaces. Motor torque is transferred from a gear driven, dual lobed cam that pushes a spring loaded push rod, rotating the socket one tooth at a time. A wide variety of socket sizes, head thicknesses, and tool lengths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



## 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.



# NUTRUNNERS



UAN-611R-30C

## ANGLE TORQUE CONTROL UAN SERIES

Recommended Air Pressure: 85 psi

MODEL	TORQUE RANGE		FREE SPEED RPM	OVERALL LENGTH		ANGLE HEAD HEIGHT		FROM CENTER TO OUTSIDE		WEIGHT LESS SOCKET		SQUARE DRIVE IN	NOISE LEVEL DB(A)	AIR USAGE CFM
	NM	FT-LB		MM	IN	MM	IN	MM	IN	KG	LB			
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



UOW-11-14

## UOW/UOW-T SERIES TUBENUT WRENCHES

Recommended Air Pressure: 85 psi

MODEL	MAX TORQUE/RANGE		FREE SPEED RPM	OVERALL LENGTH		WEIGHT		MIN/MAX HEX SOCKET SIZE		NOISE LEVEL DB(A)	AIR USAGE 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>GEARED 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

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

# NUTRUNNERS



**URW-8**

## URW SERIES RATCHET WRENCHES

Recommended Air Pressure: 85 psi

MODEL	MAX TORQUE		FREE SPEED	OVERALL LENGTH		WEIGHT		MIN/MAX HEX SOCKET SIZE		AIR USAGE
	Nm	ft-lb	rpm	mm	in	lb	kg	mm	in	cfm
<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
URW-12NA	78	57.7	105	408	16.1	6.2	2.8	17 - 27	11/16 - 15/16	25.0
URW-12NB	93	68.8	90	416	16.3	6.4	2.9	24 - 32	5/8 - 1-1/8	25.0
<b>BENT HEAD</b>										
URW-60R*	11	8.1	210	288	11.3	2.5	1.2	6 - 12	1/4 - 7/16	9.9
URW-60*	11	8.1	210	288	11.3	2.5	1.2	6 - 12	1/4 - 7/16	9.9
URW-80R*	16	11.8	240	300	11.8	5.0	2.3	7 - 15	7/16 - 9/16	19.5
URW-80*	16	11.8	240	300	11.8	5.0	2.3	7 - 15	7/16 - 9/16	19.5
URW-81**	16	11.8	240	300	11.8	5.0	2.3	7 - 15	7/16 - 9/16	19.5
URW-81R**	16	11.8	240	300	11.8	5.0	2.3	7 - 15	7/16 - 9/16	19.5

Air Hose Size: 3/8 I.D.

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

\* 160° Bent Head

\*\* 150° Bent Head



# 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 feature (2,800 NM models and up).
- True Torque Multiplication Ratios.
- Standard Reaction Arms supplied. Custom reaction arms/nose extensions available to suit specific applications.
- Replaces long lever arms and/or slugging wrenches.
- Manually powered – no external power source required.
- Value priced.
- No preventative maintenance required.
- Overload protected by Shear Drive design.



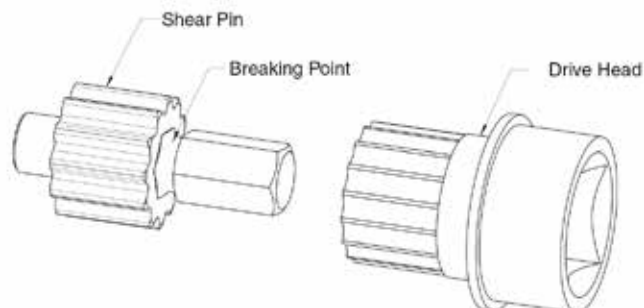
## ANTI-WIND UP FEATURE

Standard on models delivering 2,800 NM and up.

- Eliminates the backward force on the torque input device.
- Insures safe operation by the operator by not allowing the input device to spring backward when released.
- Eliminates the need to continually rotate the input device in 360 degree movements to apply torque. In many applications this is simply not possible.
- Facilitates removal of the multiplier from the application upon completion of the job.

## SHEAR-OFF SYSTEM

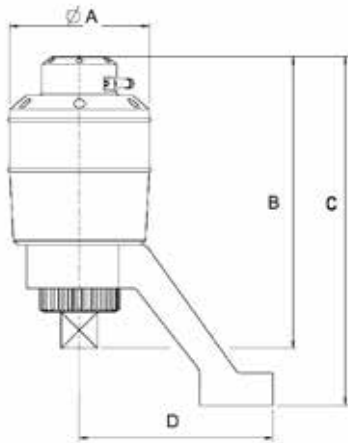
In order to protect the gear system against overload, DynaTorque Multipliers are fitted with a controlled shear-off system (spare torsion shaft included). Sheared off pins can easily be replaced at the work site.



# DYNATORQUE MANUAL TORQUE MULTIPLIERS

## SPECIFICATIONS

MODEL	INPUT	OUTPUT	RATIO	MAX TORQUE OUTPUT	
	in	in		ft-lb	Nm
ATM-800	1/2	3/4	1:3.5	590	800
ATM-1800	3/4	1	1:3.6	1238	1800
ATM-2800	1/2	1	1:13	2066	2800
ATM-3800	3/4	1	1:13	2804	3800
ATM-5000	3/4	1.5	1:17	3690	5000
ATM-8000	3/4	1.5	1:49	5904	8000
ATM-12000	3/4	1.5	1:58	8856	12000
ATM-16000	3/4	2.5	1:75	11808	16000



## DIMENSIONS

	A	B	C	D	WEIGHT*	
	(MM)	(MM)	(MM)	(MM)	LB	KG
ATM-800	65	105	132	130	2.9	1.3
ATM-1800	90	150	188	132	6.6	3.0
ATM-2800	95	200	240	132	11.5	5.2
ATM-3800	95	200	240	132	11.5	5.2
ATM-5000	120	215	272	150	15.4	7.0
ATM-8000	132	268	344	200	25.4	11.5
ATM-12000	156	272	348	200	30.9	14.0
ATM-16000	215	292	370	225	57.3	26.0

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

## ACCESSORIES

### CARRYING CASE

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



# SCREWDRIVERS: OVERVIEW

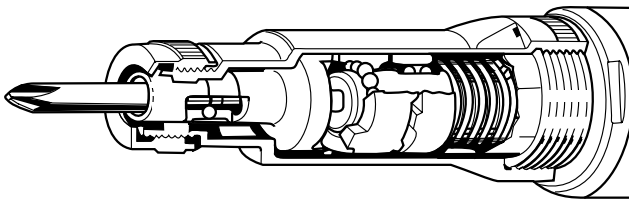
## TORQUE CONTROL AUTOMATIC SHUT-OFF TYPE

- 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.



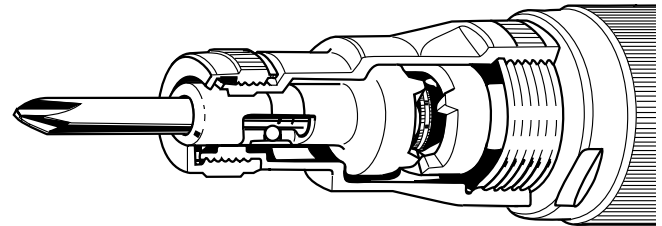
## CUSHION CLUTCH TYPE

- Good general duty screwdriver.
- High speed rundown.
- Clutch ratchets at preset torque.
- Internal torque adjustment.
- General assembly, wood, and sheet metal screws.



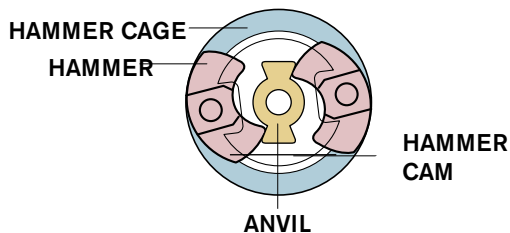
## POSITIVE CLUTCH TYPE

- Good for varying torque applications.
- Clutch ratchets at preset torque.
- Operator can force clutch engagement for higher torque.
- Good for prevailing torque applications.



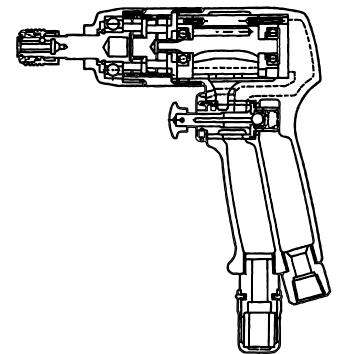
## IMPACT TYPE

- High power-to-weight ratio.
- Fast cycle times with free speeds up to 16,000 rpm.
- Ideal for non-critical applications.



## DIRECT DRIVE

- Air motor driven gears.
- Stall torque dependent on air pressure.
- Simple maintenance.
- Lightest and smallest air screwdriver.
- Ideal for soft draw applications such as wood screws, self tapping screws, or trim screws.





# PNEUMATIC SCREWDRIVERS

## TORQUE CONTROL LIGHT TOUCH (LT) SERIES - PUSH-TO-START INLINE

Recommended Air Pressure: 85 psi

MODEL	TORQUE RANGE		FREE SPEED rpm	OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		NOISE LEVEL dB(A)	AIR USAGE 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-LT20B-26	0.2 - 0.4	1.3 - 3.1	2,600	180	7.1	0.7	0.3	13.0	0.5	71	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

## TORQUE CONTROL LIGHT TOUCH (LT) SERIES - ANGLE AND LEVER

Recommended Air Pressure: 85 psi

MODEL	TORQUE RANGE SOFT JOINT		FREE SPEED rpm	OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		HEX BIT OR DRIVE SIZE in	NOISE LEVEL dB(A)	AIR USAGE 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	10	0.4	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	10	0.4	1/4	73	7.0
US-LT40B-05C	2.3 - 5.7	20.0 - 49.5	500	322	13.0	2.1	0.9	13	0.5	1/4	75	10.5
US-LT40B-08C	1.6 - 4.0	8.7 - 34.7	800	320	12.8	2.0	0.9	10	0.4	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	10	0.4	1/4	75	10.5
US-LT40-03C	5.0 - 10.0	43.4 - 86.8	300	360	14.2	2.4	1.1	13	0.5	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	13	0.5	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	10	0.4	1/4 Sq.	75	10.5
US-LT40-15C	0.98 - 2.06	8.7 - 18.2	1,500	320	12.8	2.0	0.9	10	0.4	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	71	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
US-LT40BL-21	1.0 - 1.7	8.8 - 15.0	2,100	249	9.8	1.5	0.7	17	0.7	1/4	74	5.6

Angle Head Height: 32 - 36mm

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

Air Hose Size: 1/4" I.D. for all models

## TORQUE CONTROL LIGHT TOUCH (LT) SERIES - PISTOL

Recommended Air Pressure: 85 psi

MODEL	TORQUE RANGE (SOFT JOINT)		FREE SPEED rpm	OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		NOISE LEVEL dB(A)	AIR USAGE 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

# PNEUMATIC SCREWDRIVERS



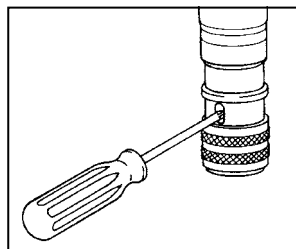
US-LT Series Model

## OPTIONAL CLUTCH SPRINGS

MODEL	CLUTCH SPRINGS PROVIDED		RECOMMENDED TORQUE RANGE HARD JOINT		CLUTCH SPRING CODE NUMBER
	Standard	Option	Nm	in-lb	
US-LT10/10B	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
US-LT30 Series, 1700 rpm	Black	(not included)	1.22 - 2.74	10.8 - 24.3	976-504-0
		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
US-LT50 Series, 1700 rpm	Yellow		1.4 - 2.5	13.0 - 22.6	976-588-0
		Yellow	1.4 - 2.6	13.0 - 23.0	976-588-0

## 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.



## 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	455-088-2	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	496-885-1

# PNEUMATIC SCREWDRIVERS



**US-LD40P-15**

Recommended Air Pressure: 85 psi

## DIRECT DRIVE SERIES

MODEL	MAX TORQUE				FREE SPEED rpm	OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		NOISE LEVEL db(A)	AIR USAGE cfm
	SOFT JOINT		HARD JOINT			mm	in	lb	kg	mm	in		
PISTOL													
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	CAPACITY (SCREW SIZE)		FREE SPEED rpm	OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		NOISE LEVEL db(A)	AIR USAGE cfm		
	mm	in		mm	in	lb	kg	mm	in				
US-3.5ACB	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-3.5PB**

## CUSHION CLUTCH SERIES

Recommended Air Pressure: 85 psi

MODEL	CAPACITY (SCREW SIZE)		FREE SPEED rpm	OVERALL LENGTH		WEIGHT LESS BIT		FROM CENTER TO OUTSIDE		NOISE LEVEL db(A)	AIR USAGE cfm
	mm	in		mm	in	lb	kg	mm	in		
US-3.5PB*	4	No. 8	2,000	200	79	1.7	0.8	17	0.7	75	7.0
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

\* Push-To-Start

Air Hose Size: 1/4" I.D. for all models

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



**US-350PW**

Recommended Air Pressure: 85 psi

## IMPACT SERIES

MODEL	CAPACITY (SCREW SIZE)		FREE SPEED rpm	OVERALL LENGTH		WEIGHT LESS BIT		FROM CENTER TO OUTSIDE		NOISE LEVEL db(A)	AIR USAGE cfm
	mm	in		mm	in	lb	kg	mm	in		
PISTOL											
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
STRAIGHT											
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. for US-350PW, US-450WB & US-652PW - Air Inlet: N.P.T. 1/4"

NOTE: Additional models available. Please contact AIMCO, 1-800-852-1368.

(R) Denotes Directional Muffled Rear Exhaust option

\*Recommended air pressure: 57 psi

3/8" I.D. for UW-6 Series

# SIGNATURE SERIES PRECISION CLUTCH CORDLESS TOOLS



## SIGNATURE SERIES PRECISION TOOLS

Simple to use, yet sophisticated in performance, the AIMCO Signature Series pistol tools provide the operator the performance required to meet the needs of today's cordless tool applications.

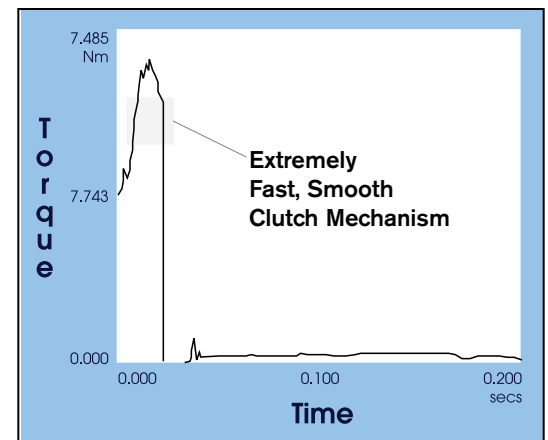
The ergonomic handle design provides the operator ideal balance and weight. These tools allow for fastening in hard-to-reach locations at torques up to 9 ft-lb (12 NM) in the pistol configuration and 52 ft-lb (70 NM) in the angle nutrunner configuration. The Signature Series Precision Clutch range features a wide range of torque outputs and the ability to program the tool speed for the demands of the application. Bright LED indicator lights provide clear feedback to the operator on OK/NOK tightening result, Tool Direction setting, and Battery Status. Signature Series Precision tools all operate with a single 18V Li-Ion Battery and common chargers to maximize flexibility while minimizing cost associated with differing battery chemistries.

## SIGNATURE SERIES PRECISE QUICK RELEASE CLUTCH

The Signature Series tool features a quick releasing clutch that delivers accuracy across multiple joint types. Each clutch assembly is constructed of precisely machined parts to guarantee accuracy and durability over the life of the tool. In addition to tight tolerances, the driving anvil is well supported to ensure that torque is precisely sensed by the clutch and not influenced by side loads or runout of the tool's rotating components.

Whether the application is made up of soft materials, such as plastics or gaskets, or harder materials, such as direct metal to metal joints, the Signature Series Precision Clutch tool delivers the accuracy the job requires.

Typical Torque Graph of the Signature Series Precision Cordless Tools



# SIGNATURE SERIES PRECISION CLUTCH CORDLESS TOOLS



MODEL	TORQUE RANGE		FREE SPEED RPM RANGE (Programmable with Programmer Accessory)	BATTERY VOLTAGE	TOOL WEIGHT (W/O BATTERY)		ANVIL SIZE
	ft-lb	Nm			lb	kg	
<b>Pistol Grip</b>							
SPC-P2325Q	.6 - 2.2	.8 - 3	500 - 1550	18V	2.1	.95	1/4" hex
SPC-P2625Q	.7 - 4.4	1 - 6	300 - 1000	18V	2.1	.95	1/4" hex
SPC-P2925Q	1.1 - 6.6	1.5 - 9	300 - 800	18V	2.1	.95	1/4" hex
SPC-P21225Q	1.5 - 8.8	2 - 12	250 - 600	18V	2.1	.95	1/4" hex
<b>Angle Nutrunner</b>							
SPC-A21025Q	2.2 - 8.8	3 - 12	400 - 1000	18V	3.5	1.6	1/4" hex
SPC-A21025	2.2 - 8.8	3 - 12	400 - 1000	18V	3.5	1.6	1/4" Sq
SPC-A21038	2.2 - 8.8	3 - 12	400 - 1000	18V	3.5	1.6	3/8" Sq
SPC-A21625Q	3.7 - 13.3	5 - 18	300 - 600	18V	3.5	1.6	1/4" hex
SPC-A21625	3.7 - 13.3	5 - 18	300 - 600	18V	3.5	1.6	1/4" Sq
SPC-A21638	3.7 - 13.3	5 - 18	300 - 600	18V	3.5	1.6	3/8" Sq
SPC-A23038	5.9 - 22	8 - 30	250 - 480	18V	3.5	1.6	3/8" Sq
SPC-A23538	7.4 - 25.8	10 - 35	220 - 330	18V	3.5	1.6	3/8" Sq
SPC-A25038	7.4 - 37	10 - 50	200 Non-Programmable Fixed Speed*	18V	5.3	2.4	3/8" Sq
SPC-A27038	14.8 - 51.7	20 - 70	170 Non-Programmable Fixed Speed*	18V	6.3	2.9	3/8" 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.

Signature Series tools can be adapted to a wide range of application-specific configurations. Contact your AIMCO Representative for assistance, 1-800-852-1368.

# SIGNATURE SERIES CORDLESS TOOL BATTERY, CHARGER & ACCESSORIES

## BATTERIES AND CHARGERS

The AIMCO Signature Series battery and charging system could not be more simple. One universal battery and one universal charger interface with any of the Signature Series Precision Clutch tools. Pistol type, angle type, low amount of torque output, or the highest torque tool in the range, each tool utilizes the same 18V Lithium Ion battery for superior charge life and weight. The charger accepts input AC power of 100–240AC, making use simple anywhere in the world.

The Signature Series battery features a slim profile design and a slide mount connection to the tool, which ensures durability and makes changing out batteries simple.



SPC-B218LI



SPC-C218-19

## BATTERY AND CHARGER SPECIFICATIONS

BATTERY MODEL NUMBER	VOLTAGE	TYPE	CAPACITY	WEIGHT
SPC-B218LI	18V	Li-Ion	2.0Ah	.8 Lb/.4 kg
SPC-B218LI-HC	18V	Li-Ion	4.0Ah	1.4 Lb/.64 kg
CHARGER MODEL NUMBER	OUTPUT	INPUT	DIMENSIONS	WEIGHT
SPC-C218-19	18V-19.2V, 3.0A	100-240VAC, 50-60Hz	6.25" deep X 5" wide X 3.5" tall (w/o Battery) 158.75 mm X 127 mm X 89 mm	1.2 Lb/.54 kg

## TOOL SPEED PROGRAMMER

The Signature Series Precision Cordless tool line is capable of specifically programming the running RPM into the tool within its range of operation. Each tool in the range 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. Once flashed, the tool will hold the RPM setting until a change is desired and it is re-flashed. New tools, that have not been specifically set by the programmer module, will run at their maximum rated RPM as shown in the catalog table and on the tool label.



SPC-2-PGM

## QUICK CLIP

Carry your Signature Series Pistol tool on any work belt with the Quick Clip. The two piece Quick Clip comes with a belt clip and a stretch cord attachment for the tool. The patented ball feature allows for quick and easy release on the belt. The Quick Clip keeps the tool well balanced and frees the operator's hands for other tasks.



SPC-QC

## HOLSTERS

For ease in carrying your Signature Series pistol and right angle tools, AIMCO offers several holster designs.



SPC-P-HL

## BODY JACKETS

MODEL	DESCRIPTION
BJ10082	For Signature Series G2 Pistol Tools
BJ10083	For Signature Series G2 Angle Nutrunners

## TOOL BASKETS



21226

Tool Baskets are a great way to keep the Signature Series tool in place when not being used. AIMCO tool baskets can be affixed to a bench or rack and can be used for either a pistol or right angle tool.

# ELECTRIC SCREWDRIVERS

## ELECTRA 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.



AE-5681



- 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 SERIES

MODEL	TORQUE RANGE		FREE SPEED RPM	WEIGHT		LENGTH		HEX DRIVE		POWER SOURCE
	IN-LB	KGF-CM		LB	KG	IN	MM	IN	MM	
PUSH-TO-START DIRECT PLUG-IN SERIES										
AE-5681 <sup>3</sup>	3.5 - 15.6	4 - 18.0	1,000	1.2	0.5	9.3	237	1/4	6.4	115V AC <sup>1</sup>
AE-8681 <sup>4</sup>	15 - 45	23.0 - 51.8	600	1.6	0.7	10.6	269	1/4	6.4	115V AC <sup>1</sup>
LOW VOLTAGE LEVER START SERIES <sup>2</sup>										POWER SUPPLY:
AE-2020	.35 - 1.3	.40 - 1.5	720	0.7	0.3	8.0	203	1/4	6.4	See page 121 for required power supplies <sup>2</sup>
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	
LOW VOLTAGE PUSH-TO-START SERIES <sup>2</sup>										POWER SUPPLY:
AE-7010PS	6.1 - 17.4	7.0 - 20.0	750	1.4	0.6	9.3	236	1/4	6.4	See page 121 for power supplies <sup>2</sup>
AE-8010PS	10.4 - 26.0	12.0 - 29.9	550	1.4	0.6	9.3	236	1/4	6.4	

<sup>1</sup> 220V AC is available upon request. Contact AIMCO at 1-800-852-1368.

<sup>2</sup> Low voltage units require an external power supply.

<sup>3</sup> AE-5681 includes a torque cover.

<sup>4</sup> AE-8681 includes a pistol grip handle adapter

## ELECTRA 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.



AE-5681ESD



## ELECTRA LOW ESD SERIES

MODEL	TORQUE RANGE		FREE SPEED RPM	WEIGHT		LENGTH		HEX DRIVE		POWER SOURCE
	IN-LB	KGF-CM		LB	KG	IN	MM	IN	MM	
AE-2020ESD	.35 - 1.3	.40 - 1.5	720	0.7	0.3	8.0	203	1/4	6.4	See page 121
AE-4520ESD <sup>2</sup>	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 <sup>1</sup>

<sup>1</sup> 220V AC is available upon request. Contact AIMCO at 1-800-852-1368.

<sup>2</sup> Low voltage units require an external power supply.

# 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 – A 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

MODEL	RECOMMENDED TORQUE RANGE		FREE SPEED RPM	WEIGHT		LENGTH		HEX DRIVE		POWER SOURCE
	IN-LB	KGF-CM		LB	KG	IN	MM	IN	MM	
AE-2015	1.7 - 15.6	2.0 - 18.0	1000	1.2	.55	9.2	234	1/4	6.4	110 V / 120V AC <sup>1</sup>

- <sup>1</sup> 220V AC is available upon request. Contact AIMCO at 1-800-852-1368.

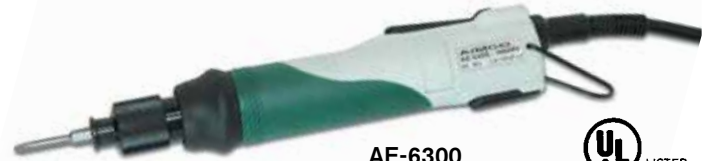
## PRECISION SERIES

### For low torque applications

- Featuring ergonomic design in shape and materials.
- Comes with options such as long-life brushless motors and adjustable speed power supplies.

### 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 – New casing material provides a secure grip.
- Integrated Lever – Feather touch integrated lever reduces travel and stress. Requires only 2 mm of travel to activate.
- External torque control – Twist and go.



AE-6300



### 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

MODEL	TORQUE RANGE		FREE SPEED RPM	WEIGHT		LENGTH		HEX DRIVE IN	
	IN-LB	KGF-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	1.2 - 5.5	1.4 - 6.3	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



APS-35W



AE-224PS and AE-278PS

## ELECTRA SERIES ACCESSORIES - POWER SUPPLIES

MODEL	COMPATIBLE SCREWDRIVERS	TOOL RPM	VOLTAGE CONVERSION	DIMENSIONS (LB)	WEIGHT (KG)	
AE-224PS	AE-2020 AE-2020ESD AE-4020 AE-4520 AE-4520ESD	AE-6300 AE-6300S AE-6450 AE-6450S	720	110V AC / 35V DC	2.6 x 1.6 x 5.0 66 x 41 x 127 mm	1.0 .45
APS-35W	AE-2020 AE-2020ESD AE-4020 AE-4520 AE-4520ESD	AE-6300 AE-6300S AE-6450 AE-6450S	VARIABLE SPEED / SOFT START	110V AC / 35V DC	2.6 x 1.6 x 5.0 66 x 41 x 127 mm	1.0 .05
AE-278PS	AE-7010 AE-7010PS	AE-8010 AE-7010	STANDARD	110V AC - 220V AC / 30V DC	1.6 x 5.0 x 2.6 41 x 127 x 66 mm	1.0 .45
APM-30	AE-6300M		550	110V AC - 220V AC / 30V DC	2.1 x 3.4 x 1.9 53 x 87 x 48mm	0.4 .02



### ANGLE HEAD ATTACHMENTS

Available for lever start series.

Part # AE-2045A or AE-7080A.

Not available on 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).



### FASTENER COUNTER

Verifies and error-proofs assembly process.

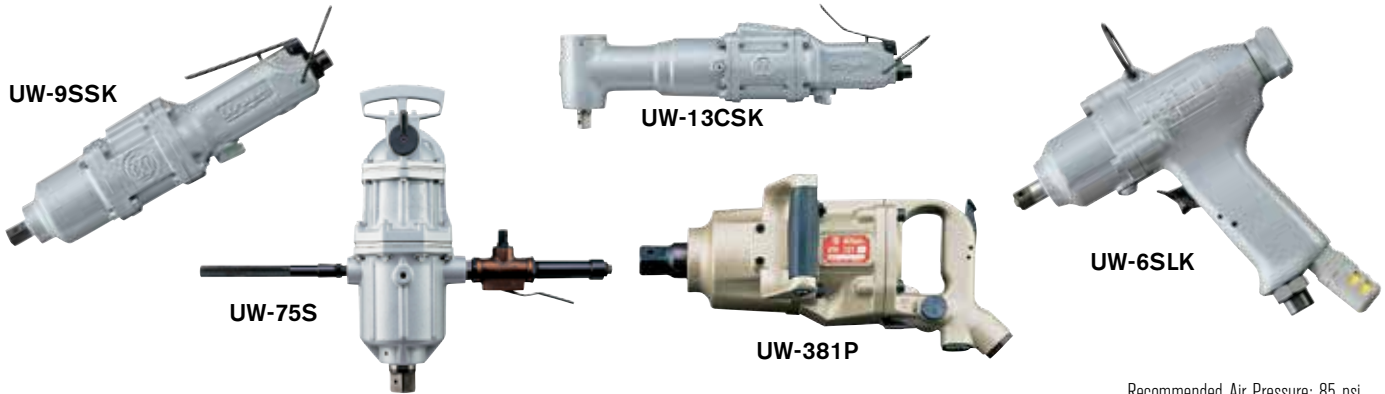
## OPTIONAL ACCESSORIES

ITEM	MODEL	COMPATIBLE SCREWDRIVERS
Angle Head Attachments	AE-2045A AE-7080A	For AE-2020, AE-4020, AE-4520 For AE-7010, AE-8010
Pistol Grip Handle	AE-PG7080	For AE-7010, AE-1070PS, and AE-8010
Torque Cover	AE-TC2045 AE-TC7080 4H2055	For AE-2020, AE-4020, AE-4520 For AE-7010, AE-7010PS, AE-8010 For AE-8681
Fastener Counter	TM-45 TM-65	For AE-2020, AE-4020, AE-4520 Standard and ESD types For AE-7010, AE-8010 and AE-8010PS

# IMPACT TOOLS

## UW-SERIES IMPACT TOOLS

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



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			
<b>PISTOL</b>														
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-6SLK	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-6SLRK	6	1/4	6.9 - 18	5 - 13	8,500	175	6.9	1.1	2.1	31.0	1.2	3/8 Sq.	92	10.5
UW-61ER(D)K	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-8SHK	8	5/16	29 - 69	21 - 51	7,500	172	6.8	1.6	3.4	31.0	1.2	1/2 Sq.	93	14.0
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-9SK	10	3/8	35 - 87	26 - 64	7,000	178	7.0	1.8	4.0	34.0	1.3	1/2 Sq.	95	17.6
UW-10SHK	12	1/2	49 - 180	36 - 133	6,500	183	7.2	2.1	4.7	35.0	1.4	1/2 Sq.	95	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-13SK	13	1/2	88 - 250	65 - 184	6,500	215	8.5	2.6	5.7	37.5	1.5	1/2 Sq.	95	19.4
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
<b>INLINE</b>														
UW-6SSDK	6	1/4	7.8 - 22	6 - 16	7,500	185	7.3	1.0	2.1	28.0	1.1	1/4 Hex	91	10.5
UW-6SSHDK	8	5/16	15 - 30	11 - 22	7,500	205	8.1	1.2	2.7	22.0	0.8	1/4 Hex	91	12.4
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-6SSHK	8	5/16	22 - 50	16 - 37	7,500	205	8.1	1.3	2.7	27.5	1.1	1/4 Sq.	92	12.4
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-9SSK	10	3/8	35 - 87	26 - 64	7,000	290	11.4	2.1	4.6	34.0	1.3	1/2 Sq.	95	16.0
<b>ANGLE</b>														
UW-6CSK	6	1/4	7.8 - 22	6 - 16	7,500	218	8.6	1.4	3.1	28.0	1.1	3/8 Sq.	94	10.5
UW-6CSHK	8	5/16	19 - 41	14 - 30	7,500	238	9.4	1.7	3.8	27.5	1.1	3/8 Sq.	94	12.4
UW-6CSHRK	8	5/16	19 - 41	14 - 30	7,300	282	11.1	1.7	3.8	27.5	1.1	3/8 Sq.	94	10.5
UW-9CSK	10	3/8	27 - 71	20 - 52	7,000	337	13.3	2.8	6.1	34.0	1.3	1/2 Sq.	95	12.4
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
<b>SWING HAMMER</b>														
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-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-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
<b>JUMBO</b>														
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: 3/8" I.D. (UW-6 - 140P)  
1/2 I.D. (UW-381, UW-381P)  
3/4 I.D. (UW-75S)

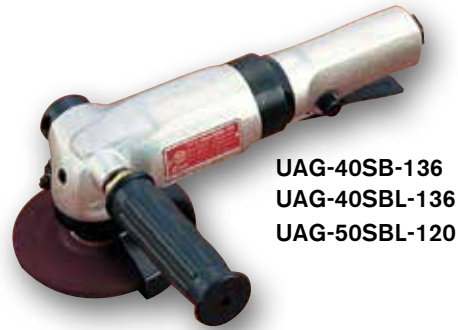
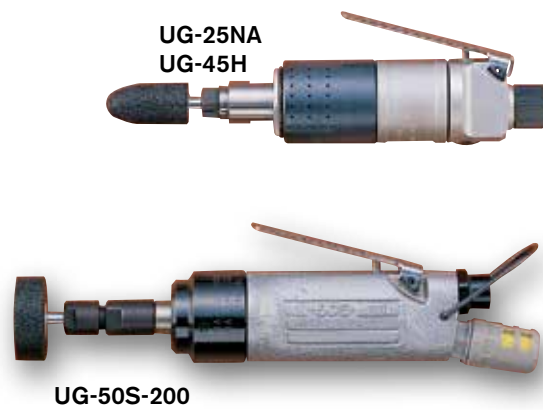
Air Inlet: N.P.T. 1/4" (UW-6 - 140P)  
N.P.T. 1/2 (UW-381, UW-381P)  
N.P.T. 1 (UW-75S)

NOTE: Additional models available. Please contact AIMCO, 1-800-852-1368.

### IMPACT TOOLS MODEL NUMBER KEY

**C:** Angle Head    **D:** Quick Change Driver    **E:** Built-in Air Regulator    **H:** Heavy Duty    **L:** Long Anvil    **R:** Rear Air Exhaust    **SS:** Inline

# GRINDERS AND SANDERS



## GRINDERS

Recommended Air Pressure: 85 psi

MODEL	CAPACITY (WHEEL SIZE)	SPEED RPM	RATED	OVERALL LENGTH		OVERALL HEIGHT		WEIGHT		NOISE LEVEL DB(A)	AVERAGE AIR
	IN		HORSEPOWER HP	MM	IN	MM	IN	KG	LB		CONSUMPTION CFM
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

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

Air Inlet: N.P.T. 1/4" - N.P.T. 3/8" (UAG-90SBL-59)

NOTE: Additional models available. Please contact AIMCO, 1-800-852-1368.

## GRINDERS / SANDERS

Recommended Air Pressure: 85 psi

MODEL	CAPACITY (WHEEL SIZE)	COLLET CHUCK SIZE	SPEED RPM	RATED	OVERALL LENGTH		WEIGHT		NOISE LEVEL DB(A)	AVERAGE AIR
	IN	IN		HORSEPOWER HP	MM	IN	KG	LB		CONSUMPTION CFM
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-20A-200	-	1/4	20,000	0.2	131	5.2	0.5	1.1	75	10.7
UG-20A-120	-	1/4	12,000	0.2	131	5.2	0.5	1.1	76	10.7
UG-50S-200A	-	1/4	20,000	0.3	195	7.7	0.9	2.0	75	14.0
UG-65EB	2.5	-	14,600	0.6	242	9.8	1.3	2.8	95	22.0
UG-65EL	2.5	-	14,600	0.6	272	10.7	1.4	3.1	85	22.0
UG-65ER	2.5	-	14,600	0.6	271	10.7	1.5	3.3	85	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
UG-1250L-72	5	-	7,200	1.0	436	17.2	2.8	6.2	88	32.7
UP-25DB	5	-	10,000	0.3	212	8.3	1.7	3.7	73	7.0

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" (UG-1250L-72)

NOTE: Additional models available. Please contact AIMCO, 1-800-852-1368.

# DRILLS & PERCUSSION TOOLS



UD-60S-29

Recommended Air Pressure: 85 psi

## DRILLS

MODEL	CAPACITY		SPEED RPM	OVERALL LENGTH		WEIGHT WITH CHUCK		FROM CENTER TO OUTSIDE		NOMINAL CHUCK SIZE IN	TYPE OF SPINDLE IN-THRD	NOISE LEVEL DB(A)	AVERAGE AIR CONSUMPTION CFM
	MM	IN		MM	IN	KG	LB	MM	IN				
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
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
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

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

NOTE: Other models are available. Please contact AIMCO, 1-800-852-1368.

## RIVETING HAMMERS

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		
SBH-0	3/32	-	6,500	123	4.8	0.3	0.7	10.0	0.4	23	0.9	90	3.5
SBH-1A(R,H)*	7/64	-	4,000	209	8.2	0.9	1.9	11.1	0.4	56	2.2	92	5.0
BRH-1U(R,H)*	1/8	3/32	2,800	122	4.9	1.1	2.4	14.3	0.6	38	1.5	95	12.0
BRH-1US(R,H)*	1/8	3/32	2,800	180	7.1	1.0	2.2	14.3	0.6	38	1.5	95	12.0
BRH-1UG(R,H)*	1/8	3/32	2,800	187	7.4	1.8	3.9	14.3	0.6	38	1.5	95	12.0
BRH-5U(R,H)*	1/4	3/16	1,800	189	7.4	1.4	3.1	12.7	0.5	100	4.0	95	13.0
BRH-5US(R,H)*	1/4	3/16	1,800	246	9.7	1.5	3.2	12.7	0.5	100	4.0	95	13.0
BRH-5UG(R,H)*	1/4	3/16	1,800	258	10.2	2.1	4.7	12.7	0.5	100	4.0	95	13.0
BRH-1UV(R,H)*	1/8	3/32	2,800	143	5.6	1.4	3.0	14.3	0.6	38	1.5	91	12.0
BRH-5UV(R,H)*	1/4	3/16	1,800	210	8.3	1.7	3.7	12.7	0.5	100	4.0	91	13.0
BRH-1USV(R,H)*	1/8	3/32	2,800	271	10.7	1.6	3.5	14.3	0.6	38	1.5	91	12.0
BRH-5USV(R,H)*	1/4	3/16	1,800	338	13.3	1.9	4.1	12.7	0.5	100	4.0	91	12.0
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, 1-800-852-1368.

# SCREW PRESENTERS: OVERVIEW

For semi-automated assembly, look no further – AIMCO AcraFeed® 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 1000 – 1500 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

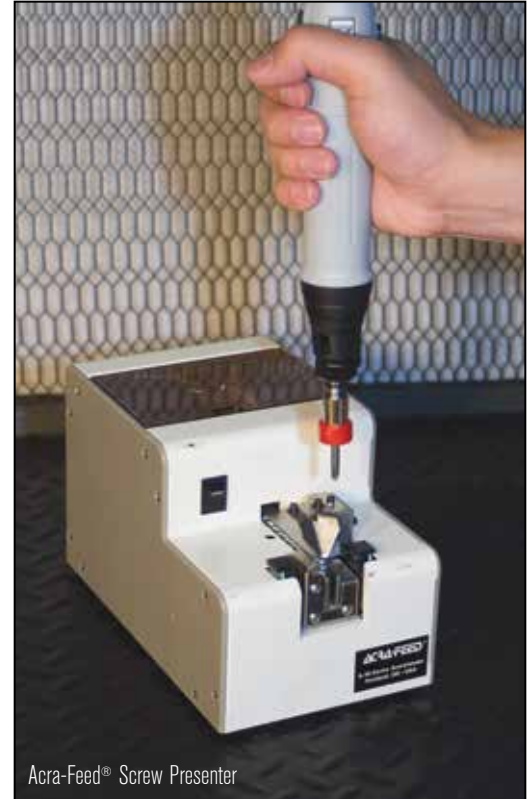
- Allows for fewer arm and hand movements.

## RELIABILITY

- Heavy duty industrial design.
- Modular design for easy repairs.

## QUALITY

- Uses existing or our new torque control drivers.



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.

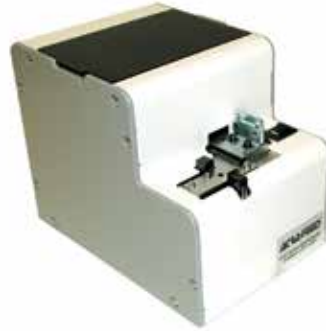


**3** Bring screw to workpiece and fasten parts.

# A-50 SCREW PRESENTERS



**ROBOTIC**



**COMPACT ROBOTIC**



**STANDARD**

## STANDARD SCREW PRESENTERS

MODEL	ADDITIONAL RAIL PART NO.	SCREW SIZE		MAX SCREW LENGTH	
		IN	MM	IN	MM
A-50A-0	AR-0	#0	1.4	.39	10
A-50A-1.7	AR-1.7	-	1.7	.39	10
A-50B-1	BR-1	#1	2.0	.75	18
A-50B-2	BR-2	#2	2.3	.75	18
A-50B-3	BR-3	#3	2.6	.75	18
A-50B-4	BR-4	#4	3.0	.75	18
A-50C-6	CR-6	#6	3.5	.75	18
A-50C-8	CR-8	#6-8	4.0	.75	18
A-50C-10	CR-10	#10	5.0	.75	18

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

## ROBOTIC SCREW PRESENTERS

MODEL	ADDITIONAL RAIL 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 lbs.

## COMPACT ROBOTIC SCREW PRESENTERS

MODEL	ADDITIONAL RAIL 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 lbs.

## OPTIONAL ACCESSORIES

MODEL	PART NO.
Mag-O-Net Bit Magnetizer	AM1/42, AM52, AM3/162
A-50B Series Bit Guide Protector	NJ08004TIN8#23
A-50C Series Bit Guide Protector	NJ08004TIN8#45

## 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 (A-315V).
- 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 1000-5000 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.



MODEL	APPLICABLE SCREWS	SCREW LENGTH		HOPPER CAPACITY	MAX FASTENING SPEED	WEIGHT (LB)	DIMENSIONS L X W X H (IN)
		IN	MM				
A-2100 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
A-315V 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 1-800-852-1368.

**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.

# 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 degree upper swivel.
- 3.3 ft stranded steel cable 1/8" diameter (TW-00 cable length 18").
- Safety cable provision.
- Tool clip included.



**TW-0 & TW-00 Series**



**TW-3 to TW-70 Series**

MODEL	CAPACITY		ANTI-GRAVITY CAPACITY (LBS)
TW-00	1.1 - 3.3 lb	0.5 - 1.5 kg	2.5 - 3.0
TW-0	1.1 - 3.3 lb	0.5 - 1.5 kg	2.5 - 3.0
TW-3	2.2 - 6.6 lb	1.0 - 3.0 kg	4.5 - 6.0
TW-5	5.5 - 11.0 lb	2.5 - 5.0 kg	8.0 - 10.5
TW-9	9.9 - 19.8 lb	4.5 - 9.0 kg	15.0 - 19.0
TW-15	19.8 - 33.0 lb	9.0 - 15.0 kg	26.0 - 32.5
TW-22	33.0 - 48.4 lb	15 - 22 kg	41.0 - 48.0
TW-30	48.4 - 66.0 lb	22 - 30 kg	58.0 - 65.5
TW-40	66.0 - 88.0 lb	30 - 40 kg	77.5 - 87.5
TW-50	88.0 - 110.0 lb	40 - 50 kg	100.0 - 109.5
TW-60	110.0 - 132.0 lb	50 - 60 kg	122.0 - 131.0
TW-70	132.0 - 154.0 lb	60 - 70 kg	144.0 - 153.0

### TW-3 through TW-15

- Four (4) models supporting weights from 2.2 to 33 lb.
- Tapered drum allows "true balance" throughout cable travel.
- Easy external direct drive tensioning.
- Cast aluminum casing for durability.
- Permanent lubrication.
- 360 degree top swivel.
- 4.3 ft of 5/32" diameter stranded steel cable.
- Safety chain provision.
- Enclosed spiral spring for added safety.

### TW-22 through TW-70

- Six (6) models supporting weights from 33 to 154 lb.
- Tapered drum allows for "true balance".
- Cast aluminum housing.
- Easy external tensioning.
- Manual drum lock.
- 360 degree upper swivel.
- Permanent lubrication.
- 5 ft of stranded steel 3/16".
- Automatic Safety Lock.
- Enclosed spiral spring for added safety.

## 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.

MODEL	CAPACITY		STROKE		WEIGHT	
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



**ASB-OC Gravity Defying and Hand Adjustable Balancer**



**ASB-3C & ASB-5C**



# 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



MODEL	HOSE LENGTH		CAPACITY	
LR-09B-90	35.5 in	90 cm	3 lb	1.5 kg
LR-09B-200	78.3 in	199 cm	3 lb	1.5 kg

## RETRACTORS

### RPA Series

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

### RMA-L Series

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



RMA-L Series



RPA Series

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

# ERGO-ARM® TOOL SUPPORT SYSTEMS

## FEATURES AND BENEFITS

- Ergonomic support for electric and pneumatic tools.
- Reduces operator fatigue.
- Increases productivity, consistency, and accuracy.



AD-D1098-PAC

### PARALLEL ARM SERIES

AD-D1098-p, AD-D1098-pac, AD-D1098-pAce

- Minimizes operator control.
- 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.



AD-D1098-SAC

### SINGLE ARM SERIES

AD-D1098-S, AD-D1098-SAC

- Full tool rotation.
- Operator control.
- 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	MM	
<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

## SPECIAL FEATURES OF CLASSIC STYLE ERGO-ARM®

Dual ball bearing joint construction for smoother movement and long life

Air regulator offers precision adjustment of resistance for perfect balance

Unique upper rail adjustment allows true vertical approach to any fastener - no cross-threading

# ERGO-ARM® ACCESSORIES AND LINEAR ARM

## ERGO-ARM® ACCESSORIES

- End-of-Arm Tooling options for the Ergo-Arm® allow you to choose the style right for your application.
- The tool holders permit the tool to swivel, rotate, swing, or twist. The heavy duty construction can lock out any single, or combination of rotating, actions allowing only the motions required by your application.
- End-of-Arm Tooling Brackets are simple to use, one Ergo-Arm® can be used for more than one application.

### FOR USE WITH MODELS AD-D1098-S/SAC



EAP-202ED-KIT - Electric Driver Tool Mount Kit

### FOR USE WITH MODELS AD-D1098-P/PAC



EAP-203-ASSY - Air Manifold Tool Mount Kit  
(Standard on parallel units)



EAP-202ASSY - Driver Tool Mount

### LINEAR ARM KIT



LQ-0002 Linear Arm  
shipped with two ASB-0C balancers

LQ-0004 Linear Arm  
shipped with two TW-3 balancers

LQ-0024H Heavy Duty Arm  
shipped with two TW-3 balancers

### PARALLEL ARM KIT



EAA-04 - Provides easy conversion of the standard Ergo-Arms® to the parallel style.

## LINEAR ARM

- Smooth movement and perfect balance while limiting operator control.
- Machined stainless steel and ball bearing construction.
- Two high quality tool balancers are included with each arm to provide a wide range of adjustment.

MODEL	DESCRIPTION	MAX. REACH		WEIGHT CAPACITY		MAX TORQUE		HEIGHT		STANDARD TOOL MOUNT DIAMETER	
		IN	CM	LB	KG	FT-LB	NM	IN	CM	IN	CM
LQ-0002	Linear Arm	14	37	1 - 5	0.5 - 2.3	20	27	24	61	1.6	4.1
LQ-0004	Linear Arm	24	58	3 - 10	1.4 - 4.5	25	34	36	91.4	1.6	4.1
LQ-0024H	Heavy Duty Arm	24	58	3 - 10	1.4 - 4.5	75	102	36	91.4	1.6	4.1

## CUSTOM REACTION DEVICES

- Torque Tubes
- Articulating Torque Arms
- Ergo Arm 3 Zero Gravity Arms
- Smart Arms



Articulating Smart  
Carbon Arm



Articulating Torque Arm



Carbon Fiber Arm



Ergo-Arm 3



Torque Tube

Contact your AIMCO sales representative, 1-800-852-1368, in order to determine the exact torque reaction system needed to improve the productivity and ergonomics of your assembly station!

# CARBON TORQUE ARMS / TUBES



Carbon Arms and Carbon Torque tubes are simple, lightweight yet strong devices designed to absorb torque reactive forces. These innovative devices adapt to a wide range of tools and

eliminate hazards to operators created during fastening processes with power tools. AIMCO's range of Carbon Arm products are highly flexible and modular in nature.

## FEATURES AND BENEFITS

- Absorb torque reactions created by continuous drive tools
- Counter balance tool weight when configured with AIMCO's wide array of tool balancers (page 128) or with integrated balancer kits
- Orient tool correctly to the workpiece to improve efficiency and reduce operator effort in alignment to the fastener

## POSITIONING SYSTEM



AIMCO's 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

- HMI with an embedded 7" Color LCD Touch Screen Display
- Storage for up to 500 unique assembly sequences
- Communicates directly with Power Tool controllers over digital I/O
- Intuitive and simple programming
- 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

## TELESCOPIC TORQUE ARMS



### ACA Series

MODEL	MIN. LENGTH MM	MAX. LENGTH MM	MAX TORQUE NM
ACA10-1000	495	1105	10
ACA10-1500	665	1605	10
ACA15-1000	486	1066	15
ACA15-1500	646	1556	15
ACA15-2000	806	2046	15
ACA40-1000	486	1066	40
ACA40-1500	646	1556	40
ACA40-2000	806	2046	40
ACA40-2500	986	2576	40
ACA80-1500	658	1586	80
ACA80-2000	828	2078	80
ACA80-2500	998	2588	80
ACA150-1500	668	1578	150
ACA150-2000	838	1918	150
ACA150-2500	1003	2248	150
ACA220-1500	668	1578	220
ACA220-2000	838	2088	220
ACA220-2500	1003	2588	220



### ACA-V Series

MODEL	MIN. LENGTH MM	MAX. LENGTH MM	MAX LENGTH MM
ACA-V15-1000	777	1345	15
ACA-V15-1500	937	1835	15
ACA-V15-2000	1097	2325	15
ACA-V40-1000	777	1345	40
ACA-V40-1500	937	1835	40
ACA-V40-2000	1097	2325	40
ACA-V40-2500	1277	2855	40
ACA-V80-1500	949	1865	80
ACA-V80-2000	1119	2357	80
ACA-V80-2500	1289	2867	80
ACA-V150-1500	960	1957.5	150
ACA-V150-2000	1129	2357	150
ACA-V150-2500	1294	2862	150
ACA-V220-1500	960	1957.5	220
ACA-V220-2000	1129	2357	220
ACA-V220-2500	1294	2867	220



### ACA-P2 Series X,Y Axis Encoders (Requires ACA-POSIX System)

MODEL	MIN. LENGTH MM	MAX. LENGTH MM	MAX LENGTH MM
ACA-P215-1000	647	1227	15
ACA-P215-1500	803	1713	15
ACA-P215-2000	977	2227	15
ACA-P240-1000	647	1227	40
ACA-P240-1500	803	1713	40
ACA-P240-2000	977	2227	40
ACA-P240-2500	1157	2737	40
ACA-P280-1500	830	1757	80
ACA-P280-2000	1000	2249	80
ACA-P280-2500	1169	2760	80
ACA-P2150-1500	839	1749	150
ACA-P2150-2000	1009	2087	150
ACA-P2150-2500	1174	2419	150
ACA-P2220-1500	839	1749	220
ACA-P2220-2000	1009	2259	220
ACA-P2220-2500	1174	2760	220

# CARBON TORQUE ARMS / TUBES

## ANTI-ROTATION TORQUE ARMS



ACIT-V40-850 300



ACPIT-V40-SA-510 150

## ACTT SERIES TORQUE TUBES

MODEL	MIN. LENGTH MM	MAX. LENGTH MM	MAX TORQUE NM
ACTT-V15-600 150	150	600	15
ACTT-V15-800 300	300	800	15
ACTT-V40-600 150	150	600	40
ACTT-V40-850 300	300	850	40
ACTT-V40-1500 600	600	1500	40
ACTT-V80-900 300	300	900	80
ACTT-V80-1500 600	600	1500	80
ACTT-V80-2100 900	900	2100	80

## ACPTT SERIES TORQUE TUBES FOR ACSA ARTICULATING SUPPORT ARMS

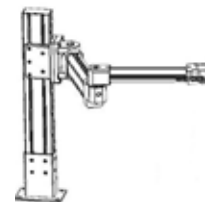
MODEL	MIN. LENGTH MM	MAX. LENGTH MM	MAX LENGTH MM
ACPTT-V15-510 150	150	600	15
ACPTT-V15-710 300	300	800	15
ACPTT-V40-510 150	150	600	40
ACPTT-V40-760 300	300	850	40
ACPTT-V40-1410 600	600	1500	40
ACPTT-V80-810 300	300	900	80
ACPTT-V80-1410 600	600	1500	80

## ACCESSORIES

### TOOL HOLDERS

	MODEL	DESCRIPTION	MIN. TOOL GRIP (MM)	MAX. TOOL GRIP (MM)
<b>FOR TELESCOPIC ARMS</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</b>				
	ACAH-15-MPE2745	Multi-pos tool holder interface	27	45
	ACAH-150220-MPE4070	Multi position tool holder	40	70
	ACAH-4080-MPE2745	Multi-pos tool holder	27	45
<b>Swivel</b>				
	ACAH-S154080	Swivel tool holder 20 to 35 mm	20	35
	ACAH-SL15150	Swivel tool holder 40 to 55 mm	40	55
<b>FOR ANTI-ROTATION ARMS</b>				
	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-4080S-2745	Straight Tool Holder - 40/80 Nm Arms	27	45

### ACSA ARTICULATING SUPPORT ARMS



ACSA-600-1500

MODEL	MAX REACH MM	MAX HEIGHT MM	MAX TORQUE NM
ACSA-600-1500	600	1500	80
ACSA-800-1500	800	1500	80
ACSA-1000-1500	1000	1500	80

### BALANCER KITS FOR ACA-P2 SERIES

MODEL	MIN. CAPACITY (KG)	MAX. CAPACITY (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



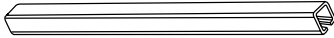
ACA-P2BK-10

# WORKSTATION COMPONENTS AND ASSEMBLIES

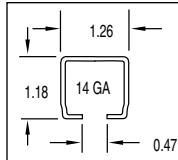
## COMPONENTS

### TRACK

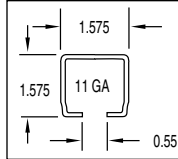
Steel with beige polyester finish. Use for vertical and horizontal workstation support.



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



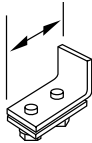
### TRACK NUT (ATN-3/5)

Zinc plated steel. Use to attach accessories to track, as end stops, or to isolate rolling accessories. Fits both 50 lb. and 30 lb. track.



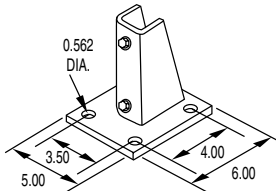
### END STOP (AES-3/5)

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



### MOUNTING PLATE (AMP-5)

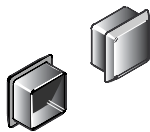
Black polyester finish. Use as a base to mount vertical uprights.



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

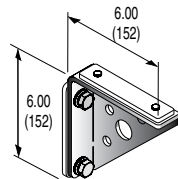
Black molded vinyl. Use to cap track ends for a professional finish.

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



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

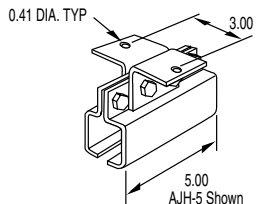
Black polyester finish. Use to mount horizontal track to vertical track. Fits both 50 lb. and 30 lb. track.



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

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

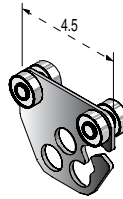
- AJH - 3 for 30 lb. track
- AJH - 5 for 50 lb. track



### 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.

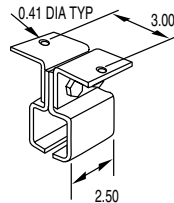
- ABT-3 for 30 lb track (1.00 dia)
- ABT-5 for 50 lb track (1.25 dia)



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

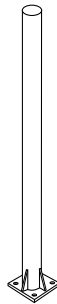
Black polyester finish. Use to suspend track at right angle.

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



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

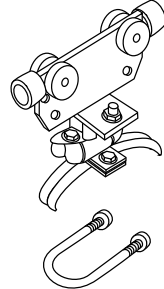
Beige polyester finish, 3" diameter x 9 ft upright steel column with welded base. Use as floor mount for extra stability with jibs or workstation components.



### INTERMEDIATE CARRIER

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



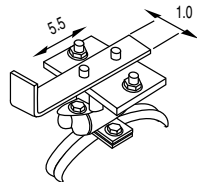
### U-BOLTS (AUB-5)

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



### END CLAMP (AEC5-2)

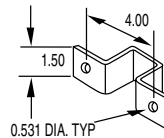
Black polyester finish. Use as end stop with hose carrier for festoon. Cable/hose OD .60-.94.



### 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



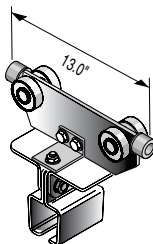
### TOOL CLIP (SH-5)

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



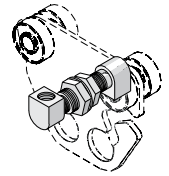
### ROLLING HANGER (ABT5-R)

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.



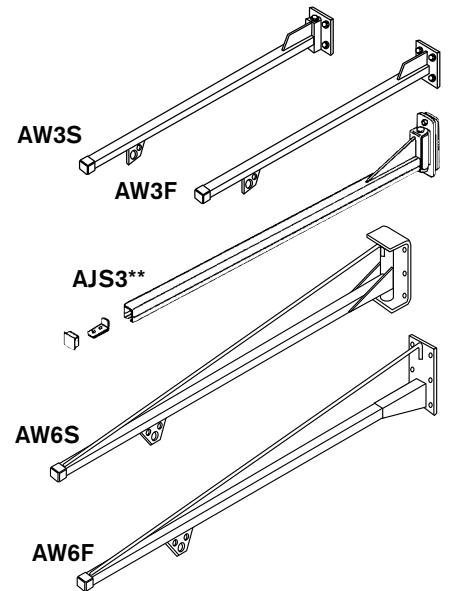
## WALL AND FLOOR MOUNTED JIBS

### 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 lbs.

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

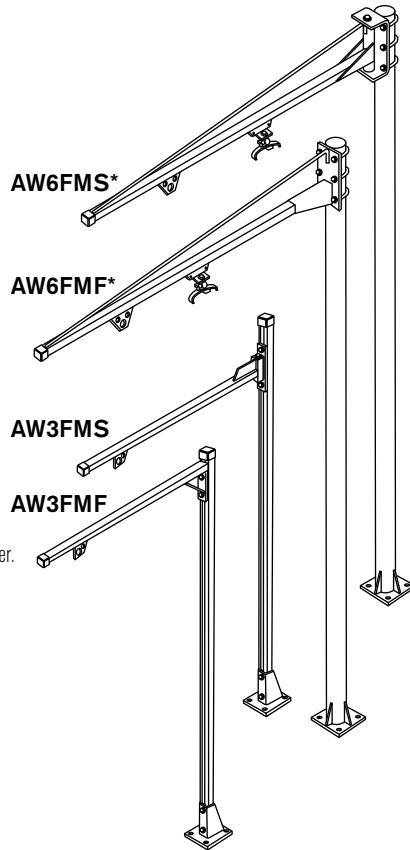
**FLOOR MOUNTED  
3 FT. SWINGING JIB  
(AW3FMS)**

**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

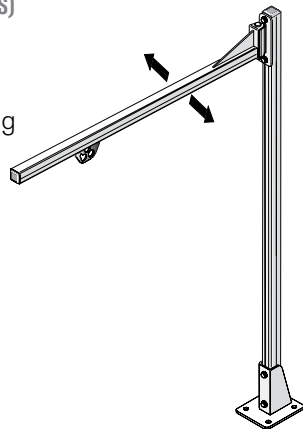
Units include end stop,  
balancer trolley and intermediate carrier.



## AIMCO TOOL SUPPORT ARMS

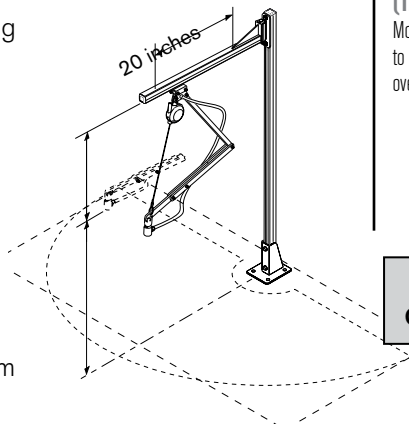
**BENCH MOUNTED SWINGING JIB (JJ30-S)  
BENCH MOUNTED FIXED JIB (JJ30)**

- 30 lb maximum weight
- 48" column height including mounting plate
- 3 ft. swinging jib includes balancer trolley, end stop and cap



**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



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

- Organize work areas 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 your AIMCO sales representative, 1-800-852-1368.**

\*\*Additional freight may apply

\*\*For use with pneumatic tools only

# AIR PREPARATION UNITS

## 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 sales representative for more information, 1-800-852-1368.



AFRL-3  
AFRL-4  
AFRL-8



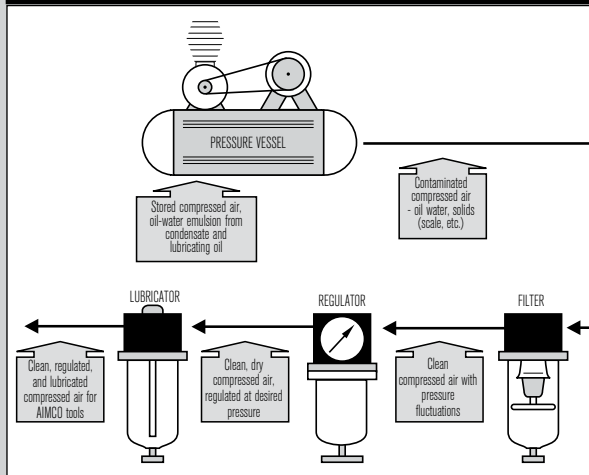
AFRL-3-C



AFRL-4HTA  
Standalone Unit

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.

### AIR PREPARATION UNITS: BASIC FUNCTIONS

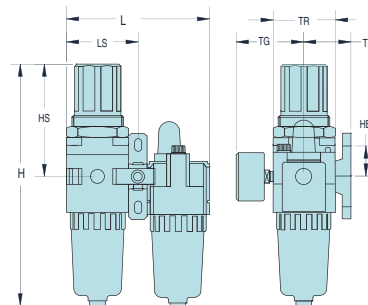


To determine unit size for application, you need to know:

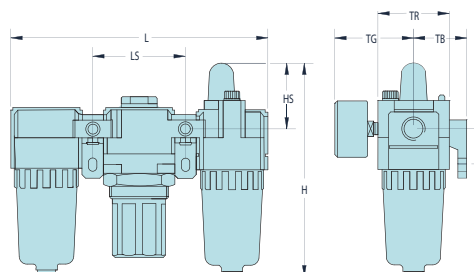
- Total air flow (CFM) required for application.
- Size of incoming air line.
- Size of air line required by tool.
- Air supply pressure (PSI).
- Allowable pressure drop.
- Does the application requires lubrication?
- Does the overall system have the required capacity?

MODEL	PORT	GAUGE PORT	FLOW RATE		BOWL SHIELD
			CFM	L/MIN	
AFRL-2	1/4"	1/8"	70	2,000	yes
AFRL-2-C	1/4"	1/8"	60	1,700	yes
AFRL-3	3/8"	1/4"	140	4,000	yes
AFRL-3-C	3/8"	1/4"	105	3,000	yes
AFRL-4	1/2"	1/4"	140	4,000	yes
AFRL-8	1"	1/4"	180	5,000	yes

DIM.	AFRL-2	AFRL-2-C	AFRL-3	AFRL-3-C	AFRL-4	AFRL-8
H	6.16 (156.5)	8.31 (211.1)	7.54 (191.5)	10.31 (261.9)	7.54 (191.5)	10.69 (271.5)
HB	1.39 (35.3)	1.38 (35.1)	1.57 (40.0)	1.57 (39.9)	1.57 (40.0)	1.97 (50.0)
HS	1.50 (38.1)	3.64 (92.5)	1.61 (40.9)	4.41 (112.0)	1.61 (40.9)	1.89 (48.0)
L	7.13 (181.1)	4.61 (117.1)	9.37 (238.0)	6.06 (153.9)	9.37 (238.0)	11.81 (300.0)
LS	2.52 (64.0)	2.30 (58.4)	3.31 (84.1)	3.03 (77.0)	3.31 (84.1)	4.13 (104.9)
TB	1.61 (41.0)	1.61 (40.9)	1.97 (50.0)	1.97 (50.0)	1.97 (50.0)	2.75 (69.9)
TG	2.39 (60.7)	2.39 (60.7)	2.58 (65.5)	2.58 (65.5)	2.58 (65.5)	2.97 (75.4)
TR	2.09 (53.1)	2.09 (53.1)	2.76 (70.1)	2.76 (70.1)	2.76 (70.1)	3.54 (89.9)



AFRL-2-C  
AFRL-3-C

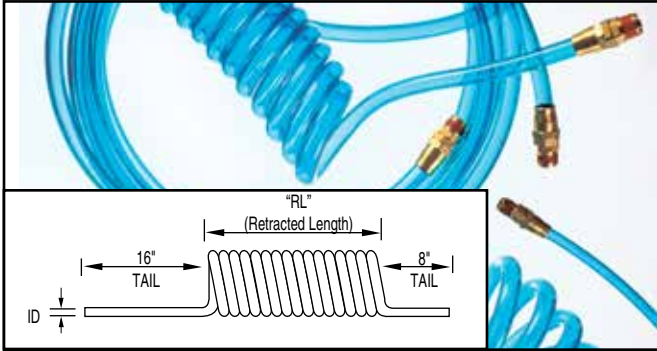


AFRL-2  
AFRL-3  
AFRL-4  
AFRL-8



# AIR LINE

## AIMCO AIR HOSE



- Durable Polyurethane Hose
- Excellent recoil memory
- Maximum flexibility and lightweight
- Transparent hose color (opaque available)
- Custom colors available
- High chemical resistance

## SINGLE AIR HOSE ASSEMBLIES (COILED)

MODEL (WORKING PRESSURE 100 PSI)	DESCRIPTION (OD X ID X LENGTH)	RETRACTED LENGTH	NPT FITTINGS
ASH-250C-10MSZ	3/8" x 1/4" x 10'	7"	1/4"
ASH-250C-15MSZ	3/8" x 1/4" x 15'	9 1/2"	1/4"
ASH-250C-25MSZ	3/8" x 1/4" x 25'	15 1/2"	1/4"
ASH-375C-15MSZ	9/16" x 3/8" x 15'	10"	3/8"
ASH-375C-25MSZ	9/16" x 3/8" x 25'	14"	3/8"
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"

## SINGLE AIR HOSE (COILED) CUSTOM LENGTHS

Custom length coil assemblies and special colors are available in minimum order quantities.

## STRAIGHT AIR HOSE (SOLD PER FOOT)

MODEL	DESCRIPTION
ASH-250Z	1/4" I.D.
ASH-375Z	3/8" I.D.
ASH-500Z	1/2" I.D.

- Assemblies include reusable swivel fitting.
- Burst pressure 428 PSI @ 68° F
- Working temperature: -104° F to 175° F
- Straight hose is available by the foot with, or without, hose fittings.
- Ask about full reel pricing.

## AIR HOSE 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-RZ	1/2" NPT Rigid Fitting
500-SZ	1/2" NPT Swivel Fitting

## HELPFUL HINTS FOR AIR HOSE USE:

- Use recommended ID 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.

## ERGONOMIC TWIST PLUGS

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



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

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

## 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

# AIR LINE ACCESSORIES

## IN-LINE MINI LUBRICATORS

These mist type inline lubricators keep air operated tools performing with greater efficiency. The patented "on the tool" mist lubricator system is more cost effective.



MODEL	DESCRIPTION	WEIGHT	LENGTH	NPT	TOOL CFM
7006	Mini Lube	2 1/2 oz	2 1/4	1/4	3 - 7
7007	Midget Lube	3 1/2 oz	2 1/2	1/4	7 - 15
7008	Master Lube	5 oz	3 1/4	3/8	15 - 30

## 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



## SWIVEL AIR FITTINGS GAUGES

For use with most portable air tools, including screwdrivers, drills, grinders, sanders, buffers, 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
7021AG	1/4" NPT	3 oz	Up to 125	25
7041A	3/8" NPT	11 oz	Up to 125	50
7041AG	3/8" NPT	3 oz	Up to 125	50
7051	1/2" NPT	7 oz	Up to 125	60

## FITTINGS AND ADAPTERS

Brass 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

## MINI AIR GAUGE SWIVEL JOINT KITS

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



MODEL	DESCRIPTION
7021AG	1/4 PT/NPT
7041AG	3/8 PT/NPT

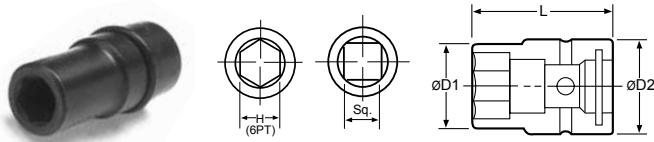
# STANDARD FASTENER TOOLS

## STANDARD FASTENER TOOLS

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

AIMCO has assembled the most complete package of commonly used screwdriver bits and nutsetters in the industry. 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.

## IMPACT SOCKETS



PART NO	HEX	D1 MM	D1 IN	D2 MM	D2 IN	L MM	L IN
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3/8" Square Drive							
SAE A31/4	1/4"	10	0.39	19	0.75	34	1.34
SAE A35/16	5/16"	12	0.47	19	0.75	34	1.34
SAE 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
METRIC A307	7 mm	13	0.49	20	0.79	32	1.26
METRIC A308	8 mm	14	0.55	20	0.79	32	1.26

3/8" Square Drive, Deep							
SAE A307-2	7 mm	13	0.49	20	0.79	50	1.97
SAE A307-2.75	7 mm	13	0.49	20	0.79	70	2.76
SAE A308-2	8 mm	14	0.55	20	0.79	50	1.97

3/8" Square Drive, Magnetic							
SAE A31/4MP	1/4"	10	0.39	19	0.75	34	1.34
SAE A35/16MP	5/16"	12	0.47	19	0.75	34	1.34
SAE 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
METRIC A310MP	10 mm	17	0.65	20	0.79	32	1.26
METRIC A311MP	11 mm	17	0.65	19	0.75	34	1.34

1/2" Square Drive							
SAE A43/8	3/8"	16	0.63	25	0.98	38	1.50
SAE A47/16	7/16"	18	0.69	25	0.98	38	1.50
SAE 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
METRIC A409	9 mm	16	0.63	25	0.98	40	1.58
METRIC A410	10 mm	18	0.69	25	0.98	40	1.58

1/2" Square Drive, Deep							
SAE A43/8-3.25	3/8"	17	0.67	25	0.98	82	3.23
SAE A47/16-3.25	7/16"	19	0.73	25	0.98	82	3.23
SAE A41/2-3.25	1/2"	22	0.85	25	0.98	82	3.23
METRIC A410-2	10 mm	18	0.69	25	0.98	50	1.97
METRIC A410-3	10 mm	18	0.69	25	0.98	75	2.95
METRIC A410-3.25	10 mm	17	0.67	25	0.98	82	3.23
METRIC A411-3.25	11 mm	19	0.73	25	0.98	82	3.23

PART NO	HEX	D1 MM	D1 IN	D2 MM	D2 IN	L MM	L IN
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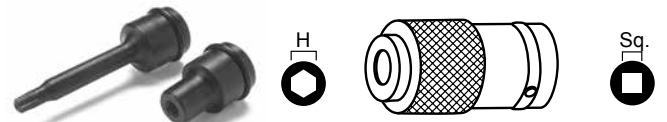
1/2" Square Drive, Magnetic							
A408MP	8 mm	16	0.61	25	0.98	40	1.58
A410MP	10 mm	18	0.69	25	0.98	40	1.58
A412MP	12 mm	21	0.81	25	0.98	40	1.58

3/4" Square Drive							
SAE A611/16	11/16"	30	1.18	44	1.73	50	1.97
SAE A63/4	3/4"	32	1.26	44	1.73	50	1.97
SAE 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
METRIC A616	16 mm	27	1.06	44	1.73	50	1.97
METRIC A617	17 mm	30	1.18	38	1.50	55	2.17

3/4" Square Drive, Deep							
SAE A611/16-4	11/16"	31	1.22	44	1.73	100	3.94
SAE A63/4-4	3/4"	33	1.30	44	1.73	100	3.94
SAE 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
METRIC A618-4	18 mm	32	1.26	44	1.73	100	3.94
METRIC A619-4	19 mm	33	1.30	38	1.50	100	3.94

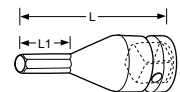
1" Square Drive							
SAE A87/8	7/8"	37	1.46	54	2.13	59	2.32
SAE A815/16	15/16"	38	1.50	54	2.13	59	2.32
SAE A81	1"	41	1.61	54	2.13	59	2.32
METRIC A817	17 mm	31	1.22	50	1.97	63	2.48
METRIC A819	19 mm	33	1.30	50	1.97	63	2.48
METRIC A821	21 mm	37	1.46	50	1.97	63	2.48

## QUICK CHANGE CHUCKS



PART NO	SQ DRIVE	HEX	D1 MM	D1 IN	L MM	L 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-3SH7/16	3/8"	7/16"	25	0.98	46	1.81
ADC-4SH7/16	1/2"	7/16"	33	1.30	55	2.17

## ALLEN SOCKETS



PART NO	HEX	L1 MM	L1 IN	L MM	L IN
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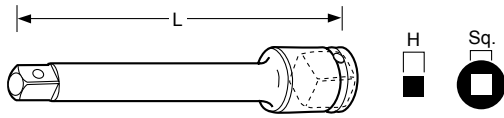
3/8" Square Drive					
A31/4C	1/4"	10	0.39	42	1.65
A304C	4 mm	10	0.39	42	1.65

1/2" Square Drive					
A41/4C	1/4"	25	0.98	50	1.97
A405C	5 mm	25	0.98	50	1.97

Additional types and sizes of fastener tools are available upon request. Contact AIMCO at 1-800-852-1368.

# STANDARD FASTENER TOOLS

## EXTENSIONS



PART NO	SQ DRIVE	HEX	L MM	L IN	D MM	D 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

## BIT HOLDERS



PART NO	L MM	L IN
<b>1/4" Hex, Magnetic</b>		
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

## SOCKET ADAPTERS



PART NO	FEMALE SQ. DRIVE	MALE SQ. DRIVE	D MM	D IN	L MM	L 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	1.46
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

## UNIVERSAL SOCKETS



PART NO	HEX	D1 MM	D1 IN	D2 MM	D2 IN	L MM	L 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
<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

## Description of Bits and Nutsetters Part Number Nomenclature

### Precedes Part Number

#### BITS

A3S	= Phillips® Power Drive
A3W	= Double Ended Phillips®
A38S	= Phillips® Insert
A39S	= Phillips® Insert Reduced Nose
A3M	= Slotted Power Drive
A38M	= Slotted Insert
A3MT	= Slotted Power Drive Reduced Nose
A3C	= Allen Socket Head Power Drive
A38C	= Allen Socket Head Insert
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®

#### BITS (Cont.)

AM	= Electric Type Slotted
ATW	= Electric Type Tri-Wing®
AT	= Electric Hios Type Torx®
A26S	= Electric Driver Phillips®
A26M	= Electric Driver Slotted
A26C	= Electric Driver Allen Socket Head
A3BHM	= Insert Bit Holder (Magnetic Type)
A3BHD	= Insert Bit Holder (Non Magnetic)

#### 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®
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### Contained Within Part Number

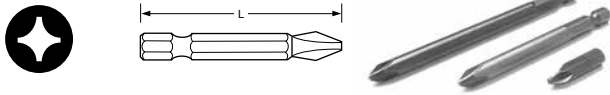
#### BITS

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 4mm diameter
E5	= Electric 5mm diameter
RS	= Reduced Shank

Additional types and sizes of fastener tools are available upon request. Contact AIMCO at 1-800-852-1368.

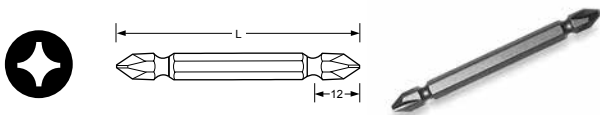
# STANDARD FASTENER TOOLS

## PHILLIPS POWER BITS



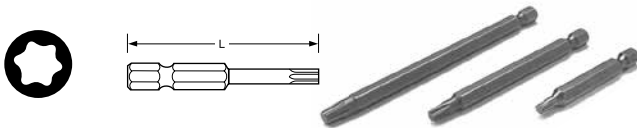
PART NO	POINT SIZE	L MM	L IN
A3S0-2	0	50	1.97
A3S1-2	1	50	1.97
A3S1-2.75	1	70	2.76
A3S1-3	1	75	2.95
A3S1-3.5	1	90	3.54
A3S1-4	1	100	3.94
A3S1-6	1	150	5.91
A3S2-1.2	2	30	1.18
A3S2-1.6	2	40	1.57
A3S3-2	3	50	1.97
A3S3-2.75	3	70	2.76

### Double-Ended



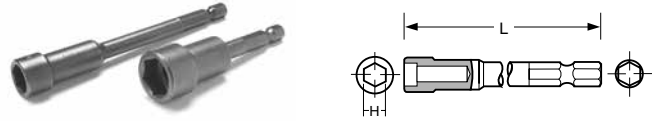
A3W1-3	1	75	2.94
A3W1-4	1	100	3.94
A3W2-2	2	50	1.97
A3W2-3	2	75	2.94
A3W2-4	2	100	3.94
A3W2-6	2	150	5.91
A3W2-8	2	200	7.87
A3W2-10	2	250	9.84
A3W2-12	2	300	11.81
A3W3-2	3	50	1.97
A3W3-3	3	75	2.94
A3W3-4	3	100	3.94
A3W3-6	3	150	5.91
A3W3-8	3	200	7.87

## TORX POWER BITS



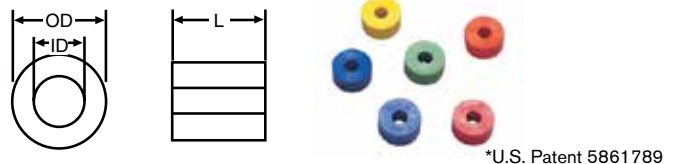
PART NO	TORX SIZE	L MM	L IN
A3T6-2	T6	50	1.97
A3T7-2	T7	50	1.97
A3T7-2.75	T7	70	2.76
A3T7-3.5	T7	90	3.54
A3T7-6	T7	150	5.91
A3T8-2	T8	50	1.97
A3T9-2.75	T9	70	2.76

## NUTSETTERS



PART NO	HEX	L MM	L 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

## MAG-O-NETS®\*



\*U.S. Patent 5861789

PART NO	TORX SIZE	L MM	L IN
AM1/4Z	7 mm	19 mm	10 mm
AM5Z	6 mm	17.5 mm	10 mm
AM3/16Z	3/16	17.5 mm	10 mm

**For custom parts, please contact us  
for more information, 1-800-852-1368.**

Additional types and sizes of fastener tools are available upon request. Contact AIMCO at 1-800-852-1368.

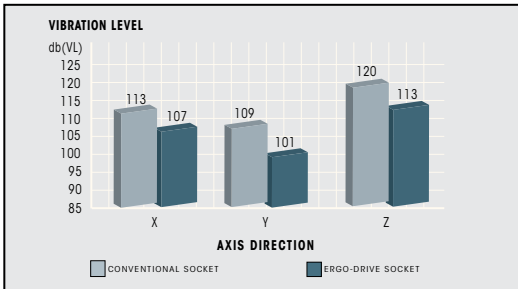
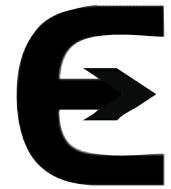
# ERGO-DRIVE® SERIES

## ERGO-DRIVE® SOCKETS PROTECT...



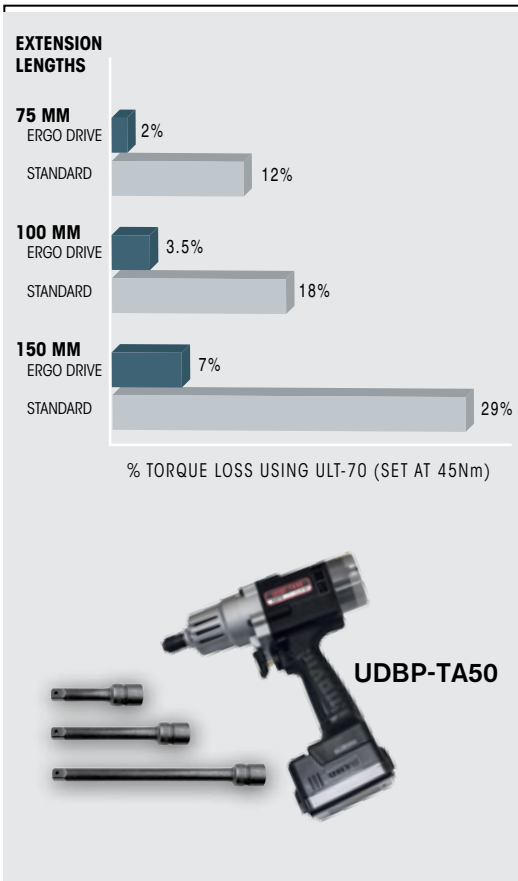
### ...YOUR INVESTMENT!

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!

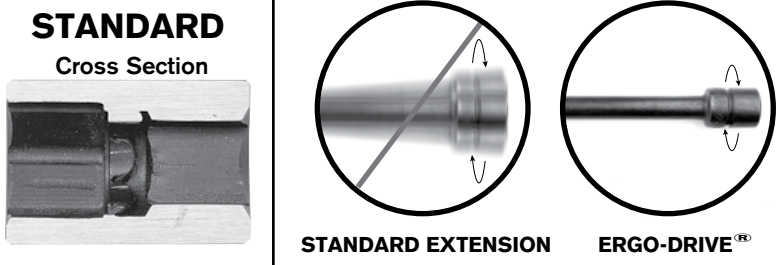
ERGO-DRIVE® sockets cause significantly less vibration during fastening than conventional sockets. This allows your assemblers to do their jobs without the worry of vibration related injuries.



### ...YOUR PRODUCTS!

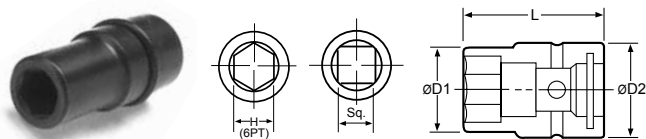
By reducing run-out and vibration, ERGO-DRIVE® sockets allow the most repeatable, accurate rundowns to take place, ensuring excellent product quality.

## ERGO-DRIVE® VS. STANDARD



# ERGO-DRIVE® FASTENER TOOLS

## ERGO-DRIVE® SOCKETS



PART NO	HEX	D1 MM	D1 IN	D2 MM	D2 IN	L MM	L IN
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3/8" Square Drive							
A314EDS	1/4"	10	0.39	19	0.75	44	1.73
A312EDS	1/2"	20	0.77	22	0.87	44	1.73
A306EDS	6 mm	10	0.39	19	0.75	44	1.73
A308EDS	8 mm	14	0.55	20	0.79	42	1.65
A310EDS	10 mm	17	0.65	20	0.79	42	1.65
A312EDS	12 mm	20	0.79	20	0.79	42	1.65
A314EDS	14 mm	22	0.87	20	0.79	42	1.65
A316EDS	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

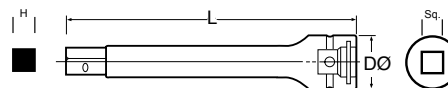
3/4" Square Drive							
A61-1/8EDS	1-1/8"	44	1.73	44	1.73	64	2.52
A61-1/4EDS	1-1/4"	49	1.91	44	1.73	66	2.60
A61-1/2EDS	1-1/2"	57	2.24	44	1.73	68	2.68
A618EDS	18 mm	31	1.22	44	1.73	60	2.36
A624EDS	24 mm	40	1.52	40	1.73	65	2.36

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

## SEE ALSO: STUD BOLT SOCKETS

PART NO	THREAD SIZE	LENGTH MM	LENGTH IN	DRIVE IN
A314P20	1/4-20"	55	2.17	3/8
A305P0.8	M5	42	1.65	3/8
A414P20	1/4-20"	65	2.59	1/2
A408P1.0	M6	50	1.97	1/2

## ERGO-DRIVE® EXTENSIONS



PART NO	SQ DRIVE	H	L MM	L IN	D MM	D IN
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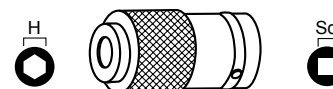
3/8" Square Drive						
A352EDE	3/8"	3/8"	52	2.05	20	0.79
A3100EDE	3/8"	3/8"	100	3.94	20	0.79
A375EDE	3/8"	3/8"	75	2.95	20	0.79
A3150EDE	3/8"	3/8"	150	5.91	20	0.79
A3190EDE	3/8"	3/8"	190	7.48	20	0.79
A3254EDE	3/8"	3/8"	254	10.00	20	0.79
A3300EDE	3/8"	3/8"	300	11.81	20	0.79
A3320EDE	3/8"	3/8"	320	12.60	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

## QUICK CHANGE CHUCKS



PART NO	SQUARE DRIVE	HEX
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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 are available upon request. Contact AIMCO at 1-800-852-1368.

# CUSTOM BITS, SOCKETS, AND EXTENSIONS

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

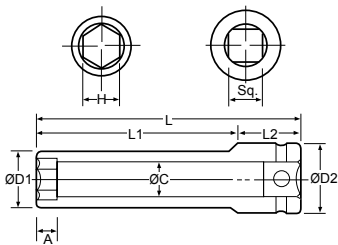
AIMCO can provide specials for virtually any application. From design to delivery, AIMCO's quick response ensures high quality, tight tolerance specials.

### 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	L <sub>1</sub>	L <sub>2</sub>	A	ØC	ØD <sub>1</sub>	ØD <sub>2</sub>	Sq.
SIZE									
TYPE									



# SPECIAL PARTS

## SOCKET TYPES:



DOUBLE HEX D (12 PT) (DH)



SURFACE DRIVE (SF)



DOUBLE SQUARE (DSQ)



FLANK DRIVE (FD)



SINGLE HEX H (6 PT) (SH)



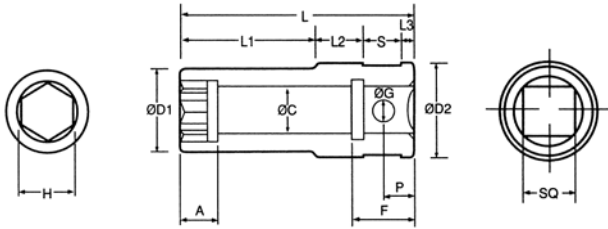
FAST LEAD (FL)



SINGLE SQUARE (SQ)



HEX LOBULE (TORX)

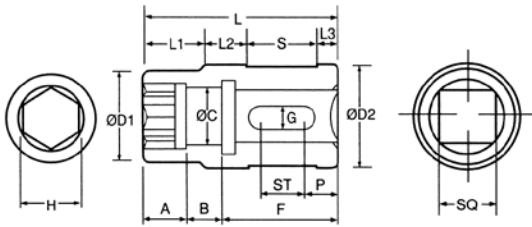


**NUTRUNNER SOCKET TYPE A**

Min. Qty. 10

Magnet 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															

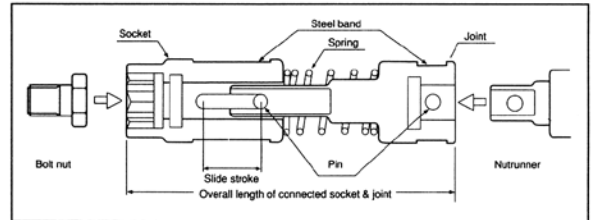
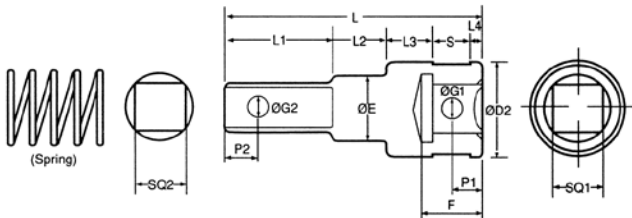
✓ Box for Ergo-Drive



**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																

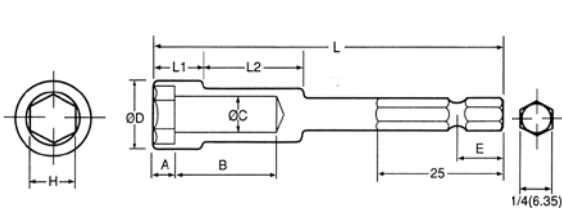


**NUTRUNNER JOINT TYPE B**

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**

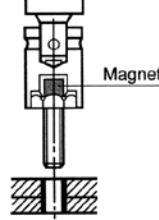
Min. Qty. 10

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

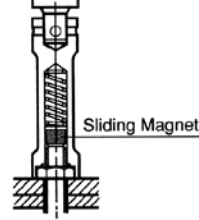
# SPECIAL PARTS

MAGNETIC STYLES.

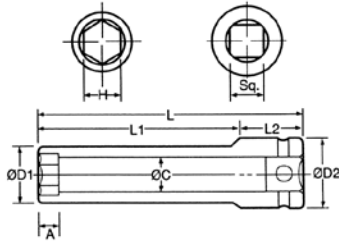
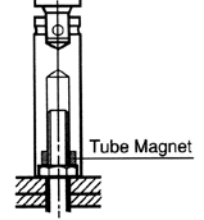
MP (Press-inserted) Type



MS (Sliding) Type



MT (Tube) Type

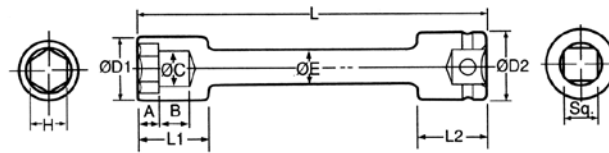


SOCKET

Min. Qty. 10

Magnet			H	L	L <sub>1</sub>	L <sub>2</sub>	A	ØC	ØD <sub>1</sub>	ØD <sub>2</sub>	Sq.	Qty.
MP	MT	MS	SIZE									
			TYPE									

√ Box for Ergo-Drive

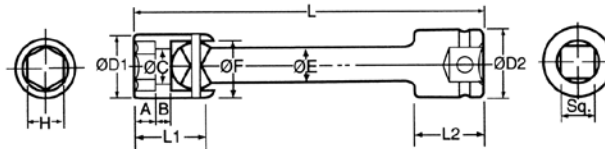


EXTENSION SOCKET

Min. Qty. 10

Magnet			H	L	L <sub>1</sub>	L <sub>2</sub>	A	B	ØC	ØD <sub>1</sub>	ØD <sub>2</sub>	ØE	Sq.	Qty.
MP	MT	MS	SIZE											
			TYPE											

√ Box for Ergo-Drive



UNIVERSAL SOCKET

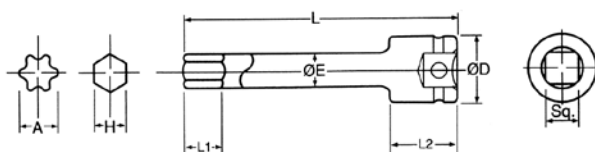
Min. Qty. 10

Magnet			H	L	L <sub>1</sub>	L <sub>2</sub>	A	B	ØC	ØD <sub>1</sub>	ØD <sub>2</sub>	ØE	ØF	Sq.	Qty.
MP	MT	MS	SIZE												
			TYPE												

√ Box for Ergo-Drive

ALLEN HEAD/TORX HEAD

Min. Qty. 10

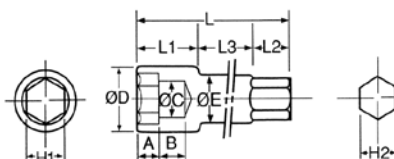


Torx	H	L	L <sub>1</sub>	L <sub>2</sub>	ØD	ØE	Sq.	Qty.

√ Box for Ergo-Drive

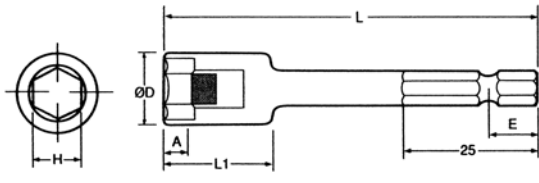
SOCKET ADAPTER

Min. Qty. 10



H <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	ØD	A	B	ØC	ØE	H <sub>2</sub>	Qty.
SIZE											
TYPE											

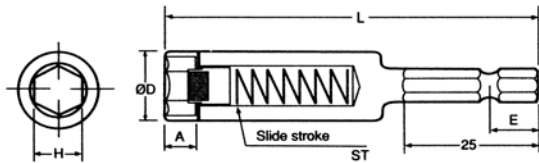
# SPECIAL PARTS



**(MP) MAGNETIC NUT SETTER**

Min. Qty. 10

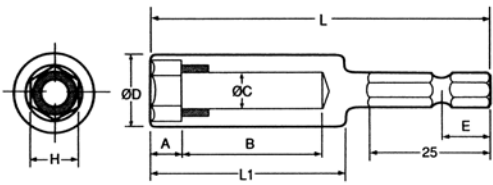
	H	L	E	L <sub>1</sub>	ØD	A	Qty.
SIZE							
TYPE							



**(MS) MAGNETIC NUT SETTER**

Min. Qty. 10

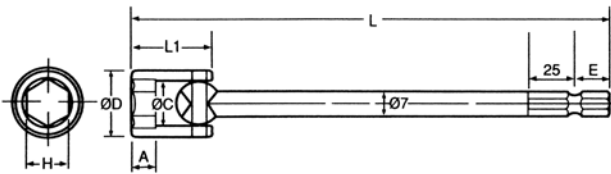
	H	L	E	ØD	A	ST	Qty.
SIZE							
TYPE							



**(MT) MAGNETIC NUT SETTER**

Min. Qty. 10

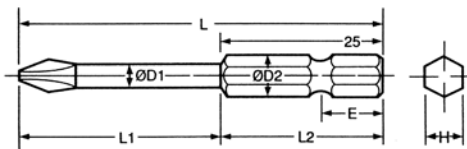
	H	L	E	L <sub>1</sub>	ØD	A	B	ØC	Qty.
SIZE									
TYPE									



**UNIVERSAL NUT SETTER**

Min. Qty. 10

	H	L	E	L <sub>1</sub>	A	ØC	ØD	Qty.



**CIRCLE ONE:**



**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.

# 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



	MM		MM	UNC	INCHES	SAE	INCHES
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	SAE			METRIC			INTERNATIONAL SYSTEM - S.I.		
Converted	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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