

CATALOG **2015**
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ACHIEVING ASSEMBLY EXCELLENCE

ACHIEVING ASSEMBLY EXCELLENCE



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.**

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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 136 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 be able 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.



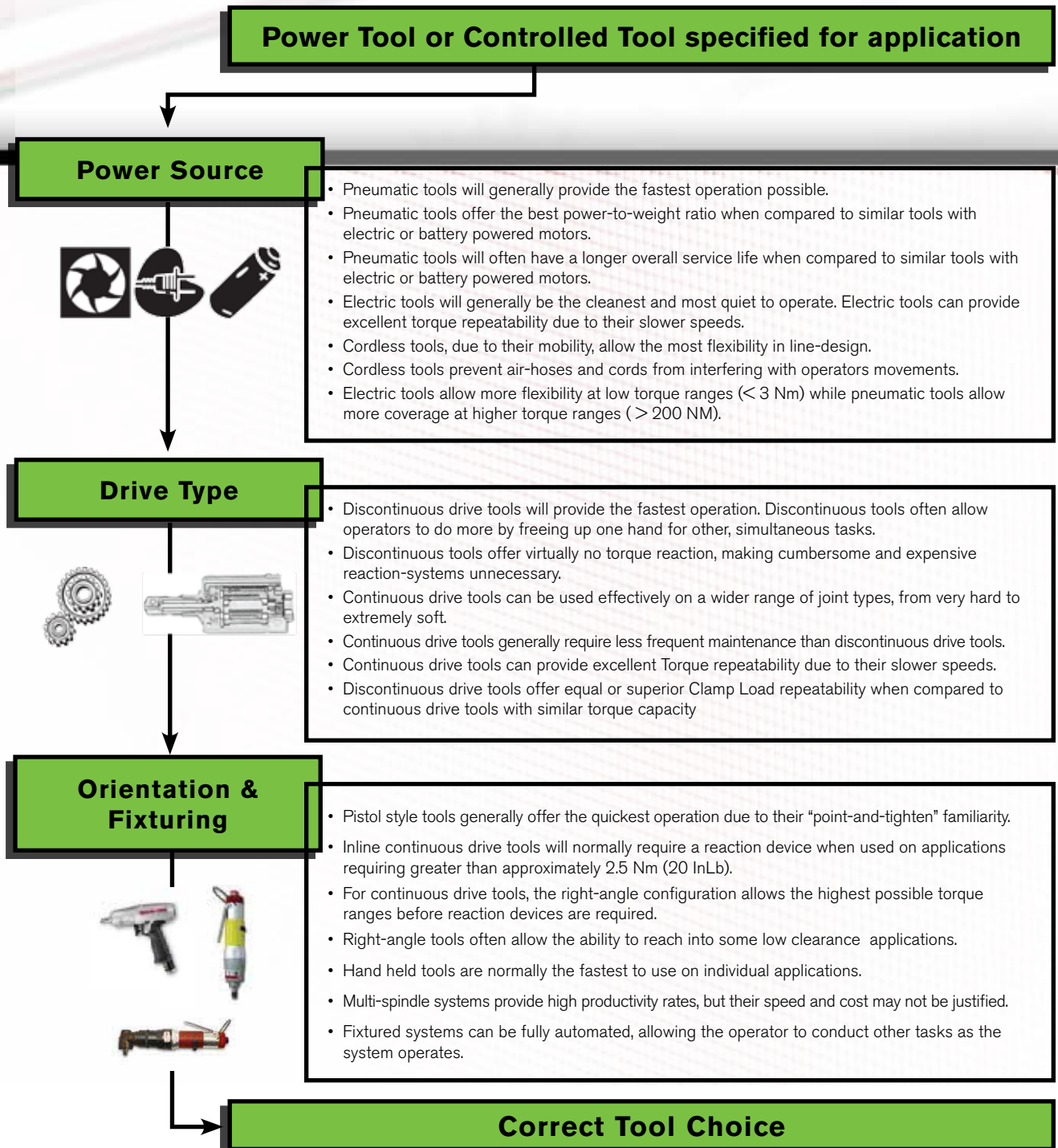


PERQ[®] is the industry-standard formula that matches the needs of manufacturers with the assembly tools they use in their processes.

AIMCO and its distributors evaluate each manufacturer based on the PERQ[®] formula to determine that company's unique blend of the PERQ[®] 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[®] with AIMCO's vast experience and unequalled service will enable any manufacturer to succeed in the global marketplace.

Each of the PERQ[®] 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

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 or Gen IV 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.



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	X	L/D	X	X	X	X		
iEC4EG	X	L/D/G		X	X	X		
iEC4EGV	X	L/D/G	X	X	X	X		
iEC4ED	X	L/D		X	X	X	X	
iECAEP	X	L/D		X	X	X		X
iEC4EVD	X	L/D	X	X	X	X	X	
iEC4EVP	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 and other protocols.

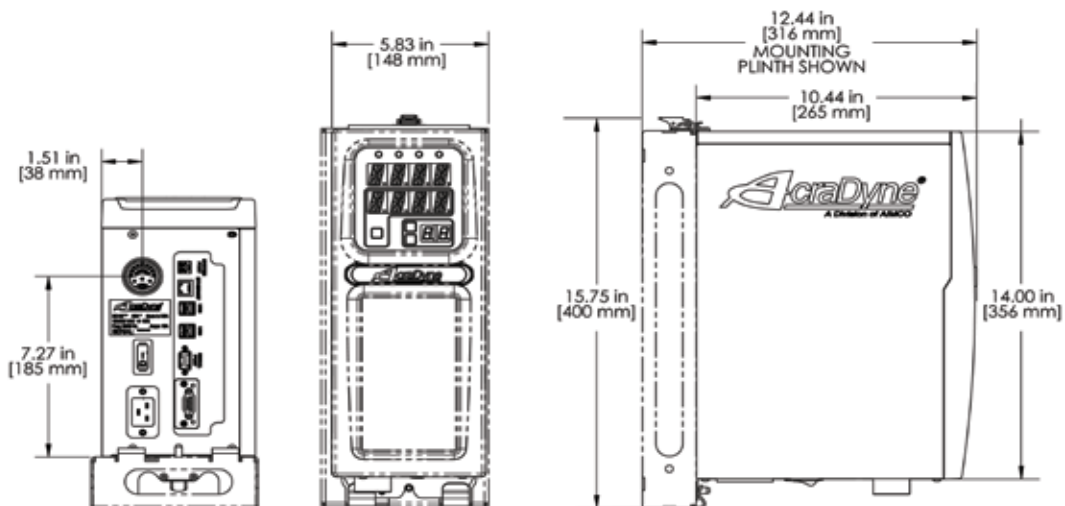
Add (-T) to model number for top exit tool cable option

ACRADYNE® GEN IV CONTROLLER

NETWORK CONNECTIVITY



DIMENSIONS



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.

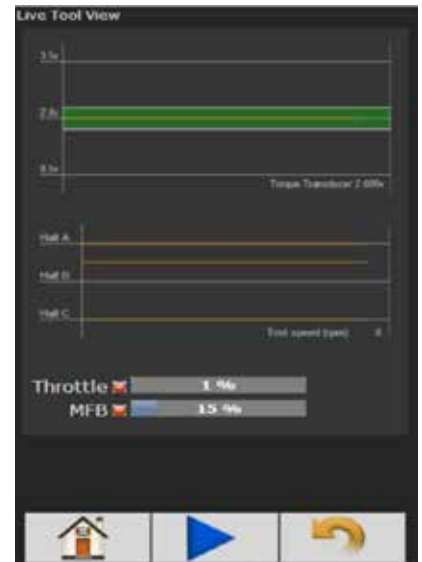
The software is based on a standard web browser. This allows you to connect the AcraDyne controller with any computer, tablet, or smart device. Connect through Ethernet, USB, or wirelessly via a network to which both devices are connected.



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



In-line



Push-to-Start



Fixtured
Rear Exit Cable



Fixtured
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
ANGLE*											
AEN4C12004B(F)	4		3	1 - 4	0.7 - 3		3,111	2.0		0.91	1/4 Q.C.
AEN4C12009B(F)	9		6.6	2.3 - 9	1.7 - 6.6		1,750	2.2		1.00	3/8 sq. dr.
AEN4C12014B(F)	14		10.3	3.5 - 14	2.6 - 10.3		875	2.2		1.00	3/8 sq. dr.
AEN4C12018B(F)	18		13.3	4.5 - 18	3.3 - 13.3		691	2.2		1.00	3/8 sq. dr.
AEN4C12022B(F)	22		16.2	5.5 - 22	4.1 - 16.2		560	2.2		1.00	3/8 sq. dr.
IN-LINE**											
AES4A12003BV(Q)	3		2.2	0.8 - 3	0.6 - 2.2		2,625	2.0		0.91	3/8 sq. dr.
AES4A12006BV(Q)	6		4.4	1.5 - 6	1.1 - 4.4		2,625	2.0		0.91	3/8 sq. dr.
AES4A12011BV(q)	11		8.1	2.8 - 11	2 - 8.1		1,313	2.2		1.00	3/8 sq. dr.
AES4A12014BV(q)	14		10.3	3.5 - 14	2.6 - 10.3		1,037	2.2		1.00	3/8 sq. dr.
AES4A12018BV	18		13.3	4.5 - 18	3.3 - 13.3		840	2.2		1.00	3/8 sq. dr.
AES4A12022BV	22		16.2	5.5 - 22	4.1 - 16.2		656	2.2		1.00	3/8 sq. dr.
PUSH-TO-START											
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	3.5 - 14	2.6 - 10.3		1,037	2.2		1.00	3/8 sq. dr.
AEL4A12018B	18		13.3	4.5 - 18	3.3 - 13.3		840	2.2		1.00	3/8 sq. dr.
AEL4A12022B	22		16.2	5.5 - 22	4.1 - 16.2		656	2.2		1.00	3/8 sq. dr.
FIXTURED***											
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	3.5 - 14	2.6 - 10.3		1,037	2.2		1.00	3/8 sq. dr.
AEF4(A)(C)(X)12018B(B)	18		13.3	4.5 - 18	3.3 - 13.3		840	2.2		1.00	3/8 sq. dr.
AEF4(A)(C)(X)12022B(B)	22		16.2	5.5 - 22	4.1 - 16.2		656	2.2		1.00	3/8 sq. dr.

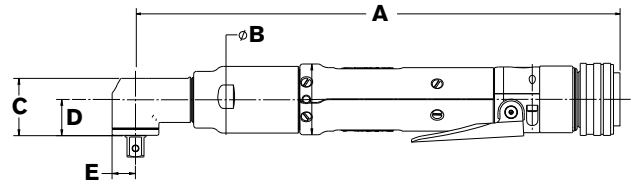
* Add "F" to part numbers for flush socket.

** "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.

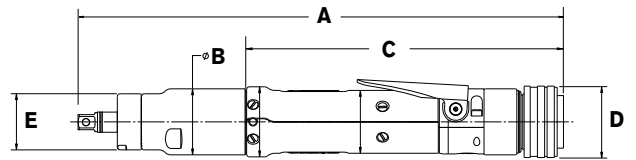
*** Add "B" to part numbers for bottom exit cable.

ACRADYNE® 1000 SERIES NUTRUNNERS



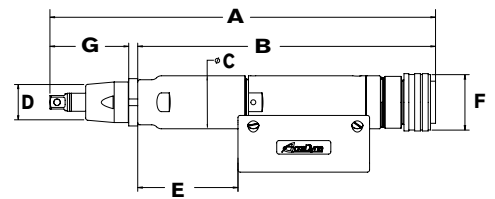
DIMENSIONS

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

ANGLE	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															
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)12003BV(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)12006BV(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)12011BV(Q)	11		8.1	2.8 - 11		2 - 8.1	1,313	2.3		1.04	3/8 SQ. DR.
AEP4(A)(R)(T)12014BV(Q)	14		10.3	3.5 - 14		2.6 - 10.3	1,037	2.3		1.04	3/8 SQ. DR.
AEP4(A)(R)(T)12018BV	18		13.3	4.5 - 18		3.3 - 13.3	840	2.3		1.04	3/8 SQ. DR.
AEP4(A)(R)(T)12022BV	22		16.2	5.5 - 22		4.1 - 16.2	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)22020BV	20		14.8	5 - 20		3.7 - 14.8	1,313	2.4		1.09	3/8 SQ. DR.
AEP4(A)(R)(T)22025BV	25		18.4	6.3 - 25		4.6 - 18.4	1,037	2.4		1.09	3/8 SQ. DR.
AEP4(A)(R)(T)22030BV	30		22.0	7.5 - 30		5.5 - 22.0	840	2.4		1.09	3/8 SQ. DR.
AEP4(A)(R)(T)22035BV	35		25.8	8.8 - 35		6.5 - 25.8	747	2.4		1.09	3/8 SQ. DR.
AEP4(A)(R)(T)22040BV	40		29.5	10 - 40		7.4 - 29.5	656	2.4		1.09	3/8 SQ. DR.

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

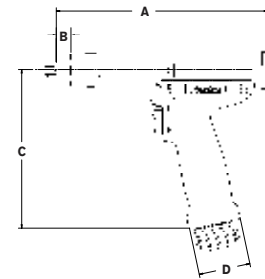
Add "A" to part numbers for bottom exit cable models,

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

ACRADYNE® PISTOL GRIP NUTRUNNERS



AEP35075AV
AEP35090AV
AEP35110AV
AEP35135AV
AEP35170AV



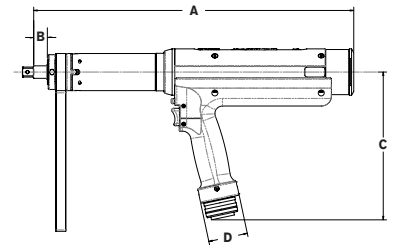
AEP35280A
AEP35350A
AEP35420A
AEP35515A
AEP35635A

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		55.4	19 - 75		14 - 55.4	944	9.2		4.17	1/2 SQ. DR.
AEP35090AV(T)	90		66.4	23 - 90		17 - 66.4	767	9.2		4.17	1/2 SQ. DR.
AEP35110AV(T)	110		81.2	28 - 110		20.7 - 81.2	634	9.2		4.17	1/2 SQ. DR.
AEP35135AV(T)	135		99.6	34 - 135		25.1 - 99.6	515	9.2		4.17	1/2 SQ. DR.
AEP35170AV(T)	170		125.5	43 - 170		31.7 - 125.5	418	9.2		4.17	1/2 SQ. DR.
AEP35280A(T)	280		206.6	70 - 280		51.7 - 206.6	236	13.6		6.17	3/4 SQ. DR.
AEP35350A(T)	350		258.3	88 - 350		64.9 - 258.3	192	13.6		6.17	3/4 SQ. DR.
AEP35420A(T)	420		310	105 - 420		77.5 - 310	159	13.6		6.17	3/4 SQ. DR.
AEP35515A(T)	515		380.1	128 - 515		94.5 - 380.1	129	13.6		6.17	3/4 SQ. DR.
AEP35635A(T)	635		468.6	159 - 635		117.3 - 468.6	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

ACRADYNE® ANGLE NUTRUNNERS

FEATURES AND BENEFITS

AcraDyne® angle nutrunners provide a 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. AcraDyne® angle nutrunners offer the perfect solution for any handheld, precision fastening application.

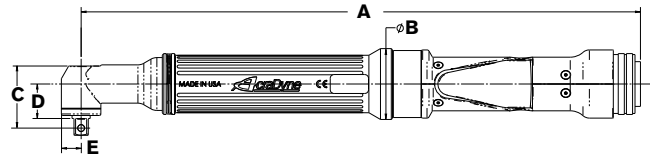


APPLICATION DATA

2000 SERIES*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
AEN32015C(F)(DL)	15		11.0	3 - 12		2.2 - 8.9	1,481	2.7		1.22	3/8 SQ. DR.
AEN32025C(F)(DL)	25		18.0	5 - 20		3.7 - 14.8	833	2.7		1.22	3/8 SQ. DR.
AEN32030C(F)(DL)	30		22.0	6 - 24		4.4 - 17.7	803	2.8		1.27	3/8 SQ. DR.
AEN32040C(F)(DL)	40		29.5	8 - 32		5.9 - 23.6	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)(DL)	42		31	9.5 - 38		7 - 28	1,095	4.4		2.00	3/8 SQ. DR.
AEN33053C(F)(DL)	53		39.1	12 - 48		8.9 - 35.4	1,095	4.4		2.00	3/8 SQ. DR.
AEN33060C(F)(DL)	60		44	12 - 48		8.9 - 35.4	845	6.6		2.99	1/2 SQ. DR.
AEN33090C(F)(DL)	90		66	18 - 72		13.2 - 53.1	568	6.6		2.99	1/2 SQ. DR.
AEN33120C(F)(DL)	120		88.5	24 - 96		17.7 - 70.8	442	9.3		4.22	1/2 SQ. DR.
AEN33200C(F)(DL)	200		147.5	40 - 160		29.5 - 118	245	9.4		4.26	3/4 SQ. DR.
AEN33210C(F)(DL)	210		95	50 - 210		36.8 - 154.8	234	10.0		4.54	3/4 SQ. DR.
AEN33300C(F)(DL)	300		221	60 - 240		44.2 - 177	151	10.0		4.54	3/4 SQ. DR.
AEN33375C(F)(DL)	375		277	60 - 240		44.2 - 177	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

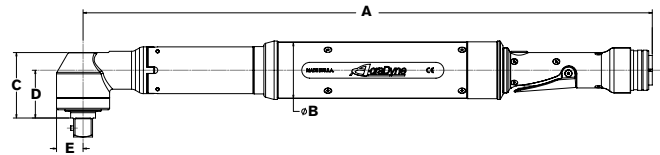


AEN 5000 Series Models

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		66.4	23 - 90		17 - 66.4	607	6.9		3.13	1/2 SQ. DR.
AEN35140B(F)	140		103.3	35 - 140		25.8 - 103.3	472	10.4		4.72	3/4 SQ. DR.
AEN35175B(F)	175		129.1	44 - 175		32.5 - 129.1	384	10.5		4.76	3/4 SQ. DR.
AEN35225B(F)	225		166	56 - 225		41.3 - 166	291	12.3		5.58	3/4 SQ. DR.
AEN35285B(F)	285		210.2	71 - 285		52.4 - 210.2	236	12.3		5.58	3/4 SQ. DR.
AEN35350B(F)	350		258.3	88 - 350		64.5 - 258.3	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

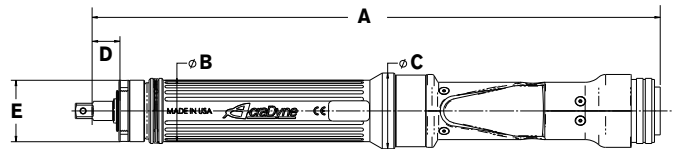
AES 3000 Series Models

APPLICATION DATA

2000 SERIES*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
AES32010CV(Q)	10		7.4	2 - 8		1.5 - 5.9	2,222	2.5		1.13	3/8 SQ. DR.*
AES32020CV(Q)	20		14.8	4 - 16		3.0 - 11.8	1,250	2.5		1.13	3/8 SQ. DR.*
AES32025CV(Q)	25		18.4	5 - 20		3.7 - 14.8	893	3.2		1.45	3/8 SQ. DR.*
AES32038CV	38		28.0	7.5 - 30		5.5 - 22.1	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		29.5	8 - 32		5.9 - 23.6	1,314	6.4		2.90	1/2 SQ. DR.
AES33060C(V)(-2)	60		44.0	12 - 48		8.9 - 35.4	883	6.4		2.90	1/2 SQ. DR.
AES33100C(V)(-2)	100		73.8	20 - 80		14.75 - 59.0	489	8.1		3.67	1/2 SQ. DR.
AES33150C(V)(-2)	150		110.6	30 - 120		22.1 - 88.5	329	8.1		3.67	1/2 SQ. DR.
AES33230C(V)(-2)	230		169.6	46 - 184		33.9 - 135.7	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.

**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

ACRADYNE® IN-LINE NUTRUNNERS

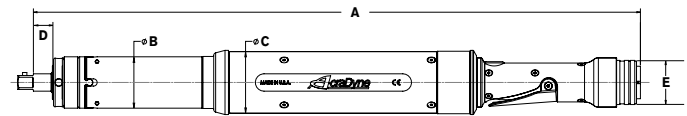


AES 5000 Series Models

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	55.4	19 - 75	14 - 55.4	944	9.2	4.17	1/2 SQ. DR.			
AES35090AV	90	66.4	23 - 90	17 - 66.4	767	9.2	4.17	1/2 SQ. DR.			
AES35110AV	110	81.2	28 - 110	20.7 - 81.2	634	9.2	4.17	1/2 SQ. DR.			
AES35135AV	135	99.6	34 - 135	25.1 - 99.6	515	9.2	4.17	1/2 SQ. DR.			
AES35170AV	170	125.5	43 - 170	31.7 - 125.5	418	9.2	4.17	1/2 SQ. DR.			
AES35280A	280	206.6	70 - 280	51.7 - 206.6	236	12.8	5.81	3/4 SQ. DR.			
AES35350A	350	258.3	88 - 350	64.9 - 258.3	192	12.8	5.81	3/4 SQ. DR.			
AES35420A	420	310	105 - 420	77.5 - 310	159	12.8	5.81	3/4 SQ. DR.			
AES35515A	515	380.1	128 - 515	94.5 - 380.1	129	12.8	5.81	3/4 SQ. DR.			
AES35635A	635	468.6	159 - 635	117.3 - 468.6	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					

ACRADYNE® FIXTURED NUTRUNNERS



Standard Spindle, Rear Exit Cable



Standard Spindle, Bottom Exit Cable



2" Sliding Spindle, Rear Exit Cable



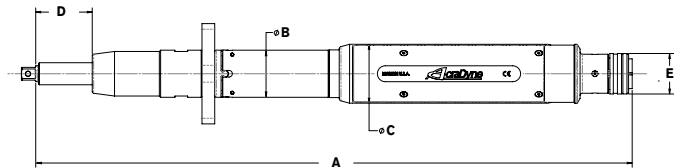
2" Sliding Spindle, Bottom Exit Cable

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	55.3	19 - 75	14 - 55.3	944	9.6	4.35	1/2 SQ. DR.			
AEF35090A(V)(VB)(-2)(B-2)	90	66.4	23 - 90	17 - 66.4	767	9.6	4.35	1/2 SQ. DR.			
AEF35110A(V)(VB)(-2)(B-2)	110	81.1	28 - 110	20.7 - 81.1	634	9.6	4.35	1/2 SQ. DR.			
AEF35135A(V)(VB)(-2)(B-2)	135	99.6	34 - 135	25.1 - 99.6	515	9.6	4.35	1/2 SQ. DR.			
AEF35170A(V)(VB)(-2)(B-2)	170	125.4	43 - 170	31.7 - 125.4	418	9.6	4.35	1/2 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.



DIMENSIONS

5000 SERIES	IN (A)	MM	IN (B)	MM	IN (C)	MM	IN (D)	MM	IN (E)	MM
AEF35075A	17.67	448.8	1.85	47	2.31	58.7	.72	18.4	1.59	40.4
AEF35090A	17.67	448.8	1.85	47	2.31	58.7	.72	18.4	1.59	40.4
AEF35110A	17.67	448.8	1.85	47	2.31	58.7	.72	18.4	1.59	40.4
AEF35135A	17.67	448.8	1.85	47	2.31	58.7	.72	18.4	1.59	40.4
AEF35170A	17.67	448.8	1.85	47	2.31	58.7	.72	18.4	1.59	40.4
AEF35075A	23.43	595.1	1.85	47	2.31	58.7	2.22	56.4	1.59	40.4
AEF35090A	23.43	595.1	1.85	47	2.31	58.7	2.22	56.4	1.59	40.4
AEF35110A	23.43	595.1	1.85	47	2.31	58.7	2.22	56.4	1.59	40.4
AEF35135A	23.43	595.1	1.85	47	2.31	58.7	2.22	56.4	1.59	40.4
AEF35170A	23.43	595.1	1.85	47	2.31	58.7	2.22	56.4	1.59	40.4

ACRADYNE® SPECIALTY GEARHEADS AND TUBENUT NUTRUNNERS

FEATURES AND BENEFITS

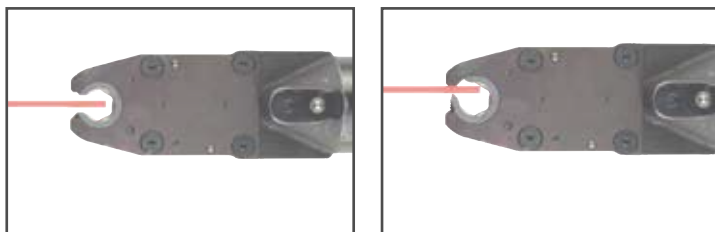
- Patented Safety Algorithm.
- Transducer senses resistance in the initial 90 degrees of rotation and returns to open upon any resistance encountered.
- Proven, durable Tubenut head design.
- Simple, one touch back to open operation for maximum productivity.



AET 2000 Series Model

AET 1000 Series Model

WITH INNOVATIVE SAFETY SENSOR TECHNOLOGY!



AET 2000 Series Model with Double Levers

APPLICATION DATA

1000 SERIES*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	IN	OUTPUT RIVE	MM
AET4A12018B	18	13.3		3.6 - 14.4	2.7 - 10.6		516	3.1	1.41		1/4 - 7/16	7 - 12	
AET4A12025B	25	18.4		5 - 20	3.7 - 14.8		387	3.1	1.41		3/8 - 5/8	10 - 17	
AET4A12025B-KD	25	18.4		5 - 20	3.7 - 14.8		387	3.1	1.41		3/8 - 5/8	10 - 17	
2000 SERIES*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	IN	OUTPUT RIVE	MM
AET32020C(DL)	20	14.8		4 - 16	3.0 - 11.8		622	3.1	1.41		1/4 - 7/16	7 - 12	
AET32025C(DL)	25	18.4		5 - 20	3.7 - 14.8		466	4.0	1.81		3/8 - 5/8	10 - 17	
AET32035C(DL)	35	25.8		7 - 28	5.2 - 20.7		347	4.5	2.04		1/2 - 7/8	13 - 24	
AET32050C(DL)	50	36.9		10 - 40	7.4 - 29.5		257	5.6	2.54		5/8 - 1-3/16	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 is able to 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. Let us know your requirements and we will help select the head configuration to get the job done.



ACRADYNE® HOLD & DRIVE NUTRUNNERS

FEATURES AND BENEFITS

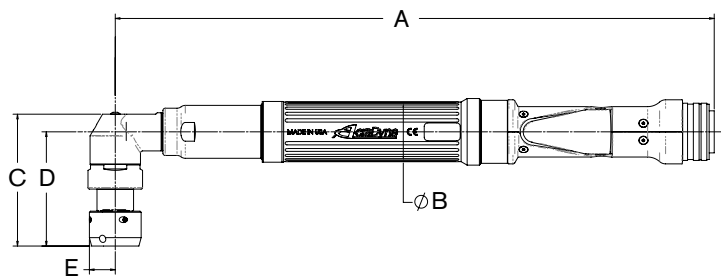
- Torques Ranging from 20Nm – 200Nm.
- Very Robust modern design.
- 1" and 2" travels are standard.
- Sockets and holders are custom to order.



APPLICATION DATA

MODEL*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	WEIGHT LB		MIN/MAX SOCKET
AEH4F12020C(-1.2)	20		14.75	4 - 16		3.0 - 11.8	533	-1=2.8, -2=3.0	9/16 (14MM) / 13/16, (21MM)	
AEH4F12026C(-1.2)	26		19.18	5.2 - 20.8		3.8 - 15.4	432	-1=2.8, -2=3.1	9/16 (14MM) / 13/16, (21MM)	
AEH32025C(-1.2)	25		18.44	5 - 20		3.7 - 14.8	833	-1 = 3.5, -2 = 3.5	9/16 (14MM) / 13/16, (21MM)	
AEH32030C(-1.2)	30		22.13	6 - 24		4.4 - 17.7	803	-1 = 3.5, -2 = 3.6	9/16 (14MM) / 13/16, (21MM)	
AEH32040C(-1.2)	40		29.50	8 - 32		5.9 - 23.6	574	-1 = 3.5, -2 = 3.7	9/16 (14MM) / 13/16, (21MM)	
AEH33053C(-1.2)	53		39.09	12 - 48		8.9 - 35.4	1,095	-1=5.6, -2=5.8	9/16 (14MM) / 13/16, (21MM)	
AEH33060C(-1.2)	60		44.25	12 - 48		8.9 - 35.4	845	-1=7.3, -2=7.5	5/8 (16MM) / 1-1/4, (32MM)	
AEH33090C(-1.2)	90		66.38	18 - 72		13.2 - 53.1	568	-1=7.3, -2=7.6	5/8 (16MM) / 1-1/4, (32MM)	
AEH33120C(-1.2)	120		88.51	24 - 96		17.7 - 70.8	442	-1=10.0, -2=10.3	5/8 (16MM) / 1-1/4, (32MM)	
AEH33200C(-1.2)	200		147.51	40 - 160		29.5 - 118	245	-1=10.0, -2=10.4	5/8 (16MM) / 1-1/4, (32MM)	
AEH35140C(-1.2)	140		103.26	35 - 140		25.8 - 103.3	472	-1=10.6, -2=11.0	5/8 (16MM) / 1-1/4, (32MM)	
AEH35175C(-1.2)	175		129.1	44 - 175		32.5 - 129.1	384	-1=10.6, -2=11.1	5/8 (16MM) / 1-1/4, (32MM)	

* 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 for the operator's hand.
- **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 and the cable can be controlled by the balancer.
 - The position of the cable in front can make it easier for the operator to manage the cable. This is especially beneficial where one plane has length constraints and at 90° is free from obstruction (vertical for Doors-On).

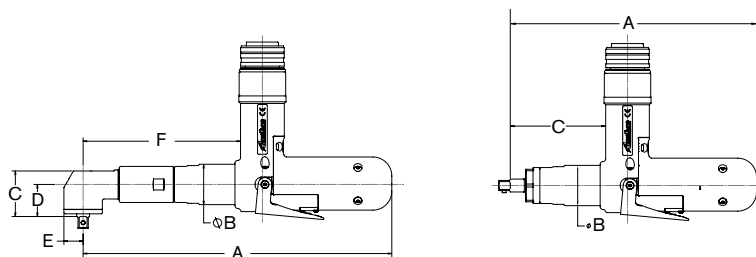


Specialized heads and blades available by request. Contact AIMCO at 1-800-852-1368.

APPLICATION DATA

MODEL*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
AEN4C22015BM(F)	15	11.06	11.06	3.75 - 15	2.77 - 11.06	700	2.6	1.18	3/8 SQ. DR.		
AEN4D22023BM(F)	23	16.96	16.96	5.75 - 23	4.24 - 16.96	750	2.9	1.32	3/8 SQ. DR.		
AEN4D22029BM(F)	29	21.39	21.39	7.25 - 29	5.35 - 21.39	592	2.9	1.32	3/8 SQ. DR.		
AEN4D22035BM(F)	35	25.81	25.81	8.75 - 35	6.45 - 25.81	480	2.9	1.32	3/8 SQ. DR.		
AEN4F22030BM(F)	30	22.13	22.13	7.5 - 30	5.53 - 22.13	675	3.3	1.50	3/8 SQ. DR.		
AEN4F22037BM(F)	37	29.29	29.29	9.25 - 37	6.82 - 29.29	533	3.3	1.50	3/8 SQ. DR.		
AEN4F22044BM(F)	44	32.46	32.46	11 - 40	8.11 - 29.50	432	3.3	1.50	3/8 SQ. DR.		
AES4A22020BM	20	14.8	14.8	5 - 20	3.7 - 14.8	1050	2.4	1.09	3/8 SQ. DR.		
AES4A22025BM	25	18.4	18.4	6.3 - 25	4.6 - 18.4	830	2.4	1.09	3/8 SQ. DR.		
AES4A22030BM	30	22.0	22.0	7.5 - 30	5.5 - 22.0	672	2.4	1.09	3/8 SQ. DR.		
AES4A22040BM	40	29.5	29.5	10 - 40	7.4 - 29.5	525	2.4	1.09	3/8 SQ. DR.		

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



DIMENSIONS

	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

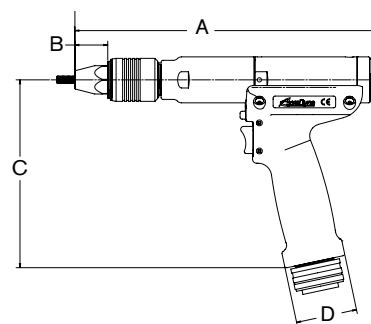
- Top and Rear exit cable are standard.
- Straight, Fixtured and Push to Start models are available by request. Contact AIMCO at 1-800-852-1368.



APPLICATION DATA

MODEL*	NM	MAX TORQUE	FT-LB	NM	TORQUE RANGE	FT-LB	FREE SPEED RPM	LB	WEIGHT	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	3.5 - 14		2.6 - 10.3	1,037	2.3	1.04		3/8 SQ. DR.
AEP4(A,R,T)12018BR	18		13.3	4.5 - 18		3.3 - 13.3	840	2.3	1.04		3/8 SQ. DR.
AEP4(A,R,T)12022BR	22		16.2	5.5 - 22		4.1 - 16.2	656	2.3	1.04		3/8 SQ. DR.
AEP4(A,R,T)22020BR	20		14.8	5 - 20		3.7 - 14.8	1,313	2.4	1.09		3/8 SQ. DR.
AEP4(A,R,T)22025BR	25		18.4	6.3 - 25		4.6 - 18.4	1,037	2.4	1.09		3/8 SQ. DR.
AEP4(A,R,T)22030BR	30		22.0	7.5 - 30		5.5 - 22.0	840	2.4	1.09		3/8 SQ. DR.
AEP4(A,R,T)22040BR	40		29.5	10 - 40		7.4 - 29.5	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 the HT Series from AcraDyne 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)66500B	6000	500	370	106	5.7	12.5	299	11.8	66	2.6	0.75	66
()4(A)(B)66750B	6000	750	550	72	5.7	12.5	299	11.8	66	2.6	0.75	66
()4(A)(B)771000B	7000	1,000	750	65	5.7	12.5	292	11.5	76	3.0	1	66
()4(A)(B)772500B	7000	2,500	1,850	25	8.1	18	328	12.9	76	3.0	1	66
()4(A)(B)884200B1	8000	4,200	3,100	12	12.3	27	376	14.8	86	3.6	1	66
()4(A)(B)884200B	8000	4,200	3,100	12	12.3	27	376	14.8	86	3.6	1.5	66
()4(A)(B)885000B	8000	5,000	3,700	9	12.3	27	376	14.8	86	3.6	1.5	66
()4(A)(B)896500B	8000/9000	6,500	4,800	7	15	34	457	18	101	4.0	1.5	66
()4(A)(B)898100B	8000/9000	8,100	6,000	5	15	34	457	18	101	4.0	1.5	66

*Add "A" to part numbers for fixed gearcase models. Add "B" to part numbers for clutched gearcase models. For fixture type, add "B" to part numbers for bottom exit cable.

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 8100 Nm available by special order.



AEN3571000A



AEN356540A



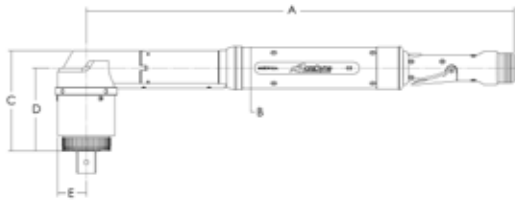
AEN3571600A



AEN3572600A

SPECIFICATIONS

APPLICATION DATA	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 to start the tool to keep their hands away from the application.
- Helps 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)66500BDL	6000	500	370	106	5.7	12.5	299	11.8	66	2.6	0.75	66
AE(S)(F)4(A)(B)66750BDL	6000	750	550	72	5.7	12.5	299	11.8	66	2.6	0.75	66
AE(S)(F)4(A)(B)771000BDL	7000	1,000	750	65	5.7	12.5	292	11.5	76	3.0	1	66
AE(S)(F)4(A)(B)772500BDL	7000	2,500	1,850	25	8.1	18	328	12.9	76	3.0	1	66
AE(S)(F)4(A)(B)884200B1DL	8000	4,200	3,100	12	12.3	27	376	14.8	86	3.6	1	66
AE(S)(F)4(A)(B)884200BDL	8000	4,200	3,100	12	12.3	27	376	14.8	86	3.6	1.5	66
AE(S)(F)4(A)(B)885000BDL	8000	5,000	3,700	9	12.3	27	376	14.8	86	3.6	1.5	66
AE(S)(F)4(A)(B)896500BDL	8000/9000	6,500	4,800	7	15	34	457	18	101	4.0	1.5	66
AE(S)(F)4(A)(B)898100BDL	8000/9000	8,100	6,000	5	15	34	457	18	101	4.0	1.5	66

*Add "A" to part numbers for fixed gearcase models. Add "B" to part numbers for clutched gearcase models.

HT GEARHEAD TOOLS

FEATURES AND BENEFITS

- Custom made to fit virtually any application.
- Same high durability gearing as on AcraDyne's standard HT Series of tools.
- Model types available:
 - o HT Right Angle tools
 - o HT Offset Gearhead tools
 - o HT Right Angle with Offset Head
- Torque ranges from 400Nm to 4650Nm.



ACRADYNE® HIGH TORQUE NOSE EXTENSIONS



NOSE EXTENSIONS

- Ideal when an application is hard to reach and a torque tube or arm is not desirable.
- Used as a lower cost and 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
26835	Double Ended, 2.375" Offset, 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
26825	Double Ended, 3.10" Offset, 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
26822	Mounting Flange, 7000 Series
27045	Sliding Spindle, 7000 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	425	450	
ANGLE																												
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				█	█	█																	
INLINE																												
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		
PISTOL																													
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																								
TUBENUT																													
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: 128-515Nm

**Torque Range: 159-635Nm

HIGH TORQUE SERIES - *AcraDyne* HT

MODEL	RPM**	LENGTH		WEIGHT		TORQUE, Nm																							
		in	mm	lb	kg	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500											
()4(A)(B)66500B	106	11.8	299	12.5	5.7																								
()4(A)(B)66750B	72	11.8	299	12.5	5.7																								
()4(A)(B)771000B	65	11.5	292	12.5	5.7																								
()4(A)(B)772500B	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

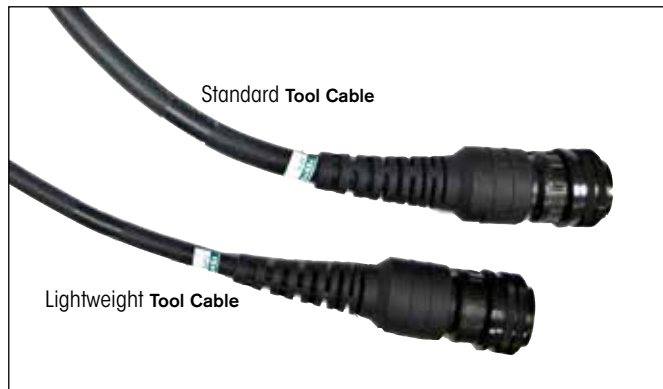
Max Torque

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.



25491



Cable Adapter



23490



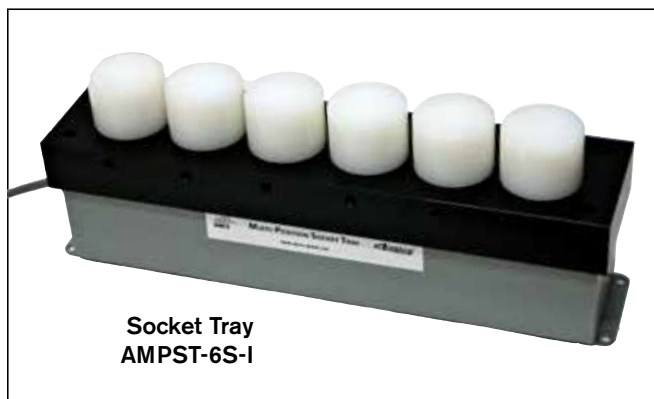
AEC-CIM

MODEL	DESCRIPTION	LENGTH	
		m	ft
TOOL CABLES			
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.		
EXTENSION			
24320	Extension cable 10M	10	32.8
25518	Extension cable 20M	20	65.6
DATA			
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.		

ACRADYNE® ACCESSORIES

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.



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

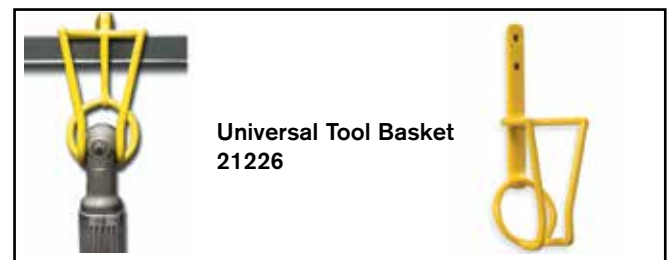
23662

**Tool Bail
23575**

21208

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

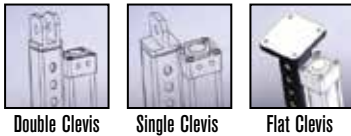


ACRADYNE® ACCESSORIES

TORQUE TUBES

- Made to order Torque Tubes to suit the specific application.
- Counteract torque reactive forces.
- Suspend from a variety of options.
- Pneumatic Counter Balance with high resolution adjustments.
- Quick and easy quotation process.

Support Mounting Options

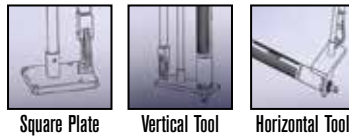


Double Clevis

Single Clevis

Flat Clevis

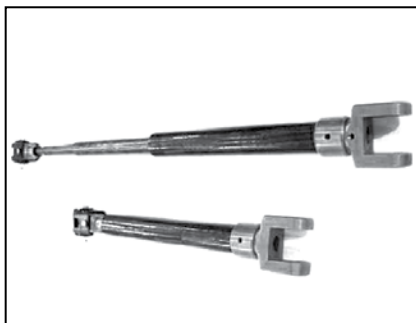
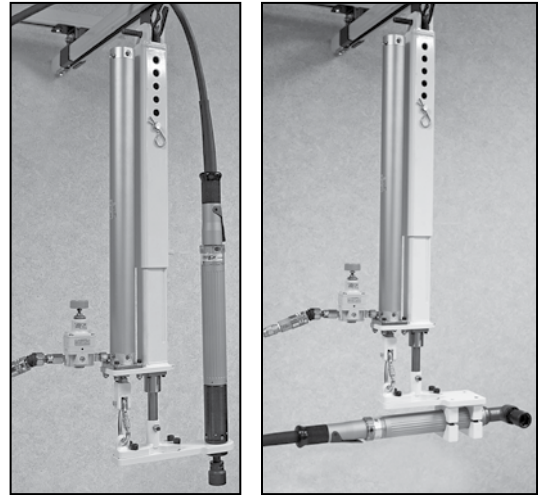
Tool Mounting Options



Square Plate

Vertical Tool

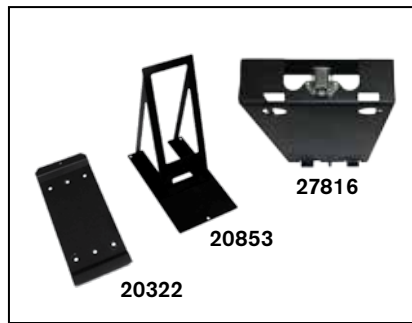
Horizontal Tool



CARBON ARMS

- With the Carbon Torque Arm, the assembly operation will be smooth and comfortable since the arm is absorbing the torque reaction generated by the tool.
- The Carbon Arm is ergonomic and easy to use due to the telescopic design that allows maximum movement and flexibility.
- Extremely durable and requires no maintenance.

MODEL	DESCRIPTION
CLR55-1230	55Nm, Max Length 1230 mm
CLR55-2000	55Nm, Max Length 1800 mm
CLR55-2500	55 Nm, Max Length 2430 mm
CLR100-1230	100 Nm, Max Length 1230 mm
CLR100-2000	100 Nm, Max Length 1800 mm
CLR100-2500	100 Nm, Max Length 2430 mm
CLR150-1230	150 Nm, Max Length 1230 mm
CLR150-2000	150 Nm, Max Length 1800 mm
CLR150-2500	150 Nm, Max Length 2430 mm
CLR220-1230	220 Nm, Max Length 1230 mm
CLR220-2000	220 Nm, Max Length 1800 mm
CLR220-2500	220 Nm, Max Length 2430 mm



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	Anglehead Mounting Bracket (Cradle type) for 3000/5000 Angle Tools over 225Nm



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

LIGHT TOWER



ACRADYNE® HIGH TORQUE PNEUMATIC TOOLS

FEATURES AND BENEFITS

Our 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.
- On-Hand Reverse.



AAP1B66600A



AAP1B76950A



AAP1B771800A



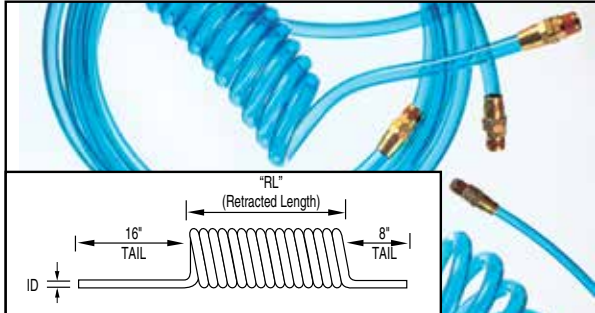
AAP1B885100A1

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 page 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

ACRADYNE® HT PNEUMATIC TOOL ACCESSORIES

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 at 1-800-852-1368 for more information.



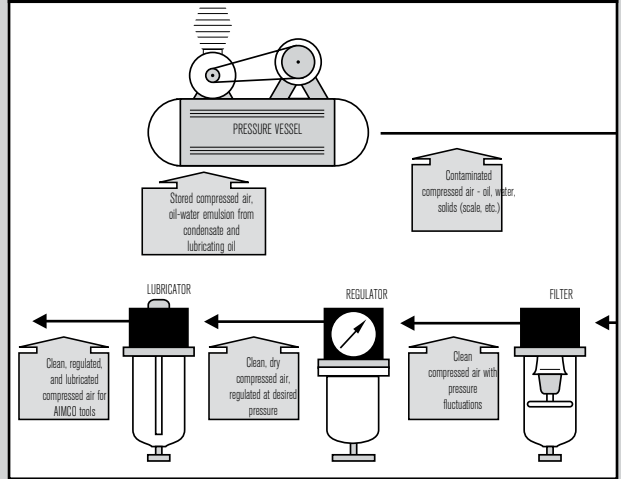
AFRL-3
AFRL-4
AFRL-8



AFRL-3-C

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

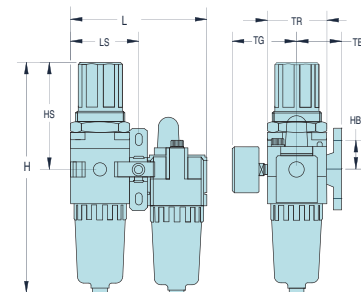


To determine unit size for application, you will need to know:

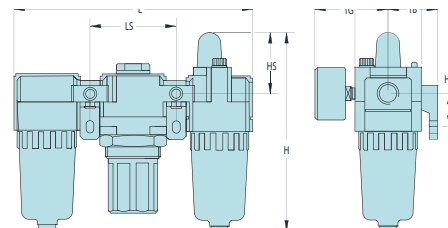
- Total air flow (CFM) required for application.
- Size of incoming air line.
- Size of air line required by tool.
- Air supply pressure (PSI).
- Allowable pressure drop.
- Does the application requires lubrication?
- Does the overall system have the required capacity?

MODEL	PORT	GAUGE PORT	FLOW RATE		BOWL SHIELD
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-3	AFRL-3-C	AFRL-4	AFRL-8
H	7.54 (191.5)	10.31 (261.9)	7.54 (191.5)	10.69 (271.5)
HB	1.57 (40.0)	1.57 (39.9)	1.57 (40.0)	1.97 (50.0)
HS	1.61 (40.9)	4.41 (112.0)	1.61 (40.9)	1.89 (48.0)
L	9.37 (238.0)	6.06 (153.9)	9.37 (238.0)	11.81 (300.0)
LS	3.31 (84.1)	3.03 (77.0)	3.31 (84.1)	4.13 (104.9)
TB	1.97 (50.0)	1.97 (50.0)	1.97 (50.0)	2.75 (69.9)
TG	2.58 (65.5)	2.58 (65.5)	2.58 (65.5)	2.97 (75.4)
TR	2.76 (70.1)	2.76 (70.1)	2.76 (70.1)	3.54 (89.9)



AFRL-3-C



AFRL-3
AFRL-4
AFRL-8



MULTIPLE NUTRUNNING SYSTEMS

AIMCO is able 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 handle 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

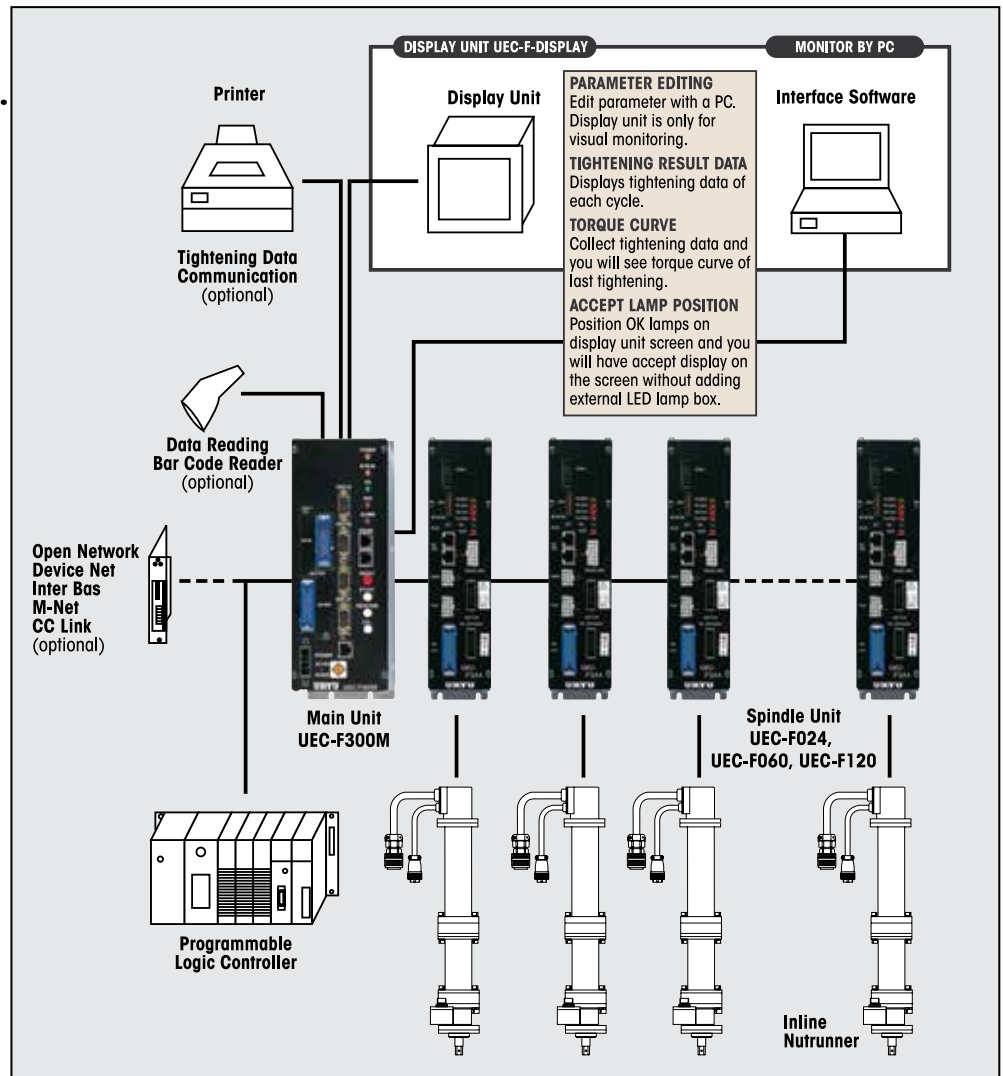


FEATURES AND BENEFITS

- 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% .

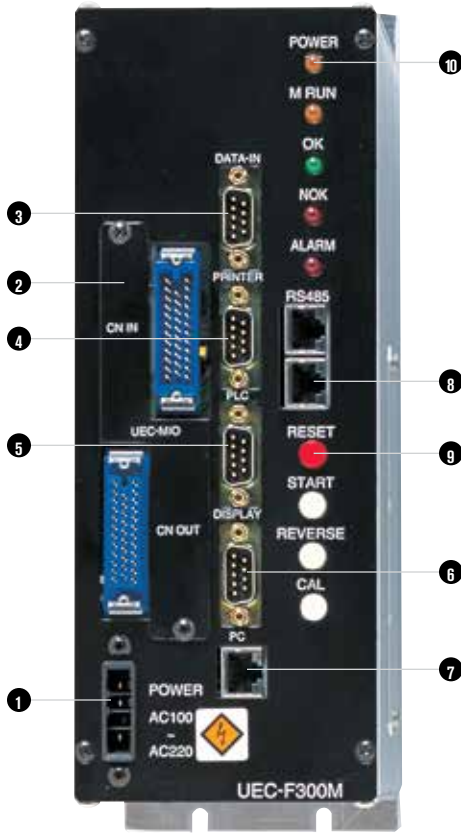
NO. OF SPINDLES	VOLUME & WIDTH BEFORE		VOLUME & WIDTH WITH F-SERIES			
	cm	mm	UEC-F024		UEC-F120	
1-Spindle	16,800	200	6,360	150	8,268	195
2-Spindle	24,360	290	8,904	210	12,084	285
5-Spindle	47,040	560	16,536	390	24,804	585
10-Spindle	84,840	1,010	29,256	690	48,336	1,140

F-SERIES NETWORK CONNECTIVITY

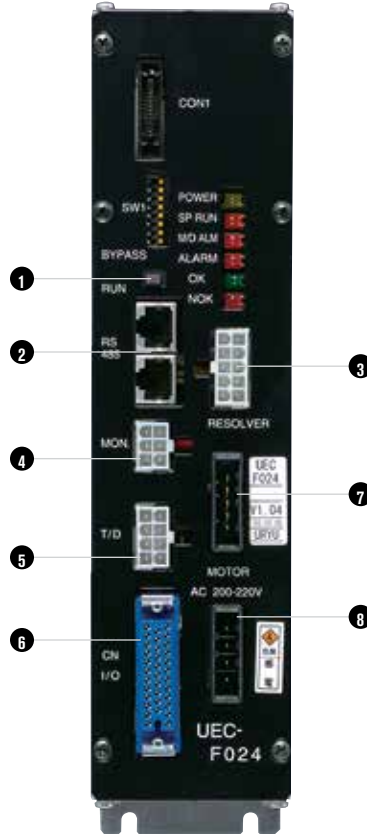


FIXTURED F-SERIES NUTRUNNERS

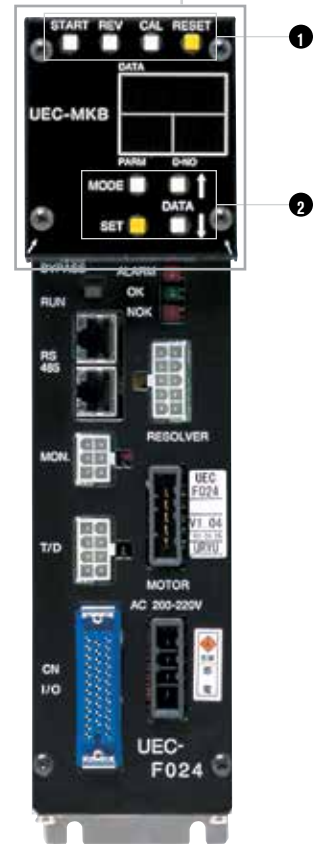
Main unit UEC-F300M



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

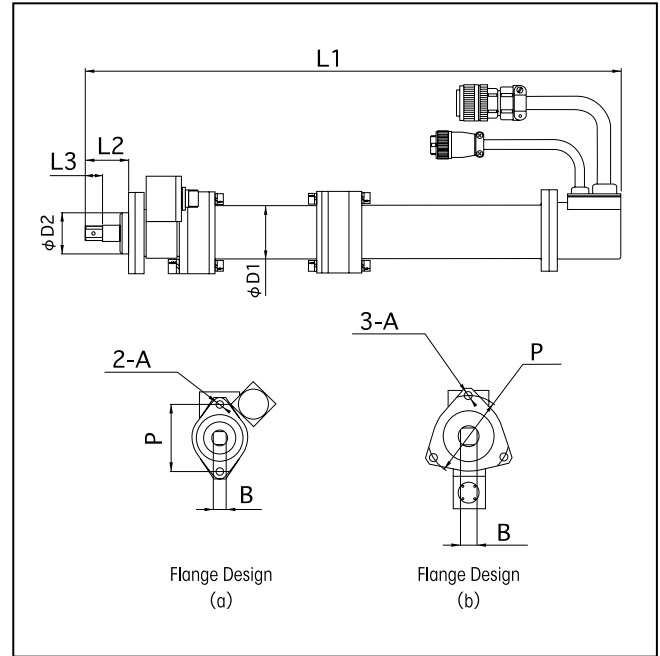
NOTE: Display unit (UEC-MKB) is an option.

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

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

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	1.0mV/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

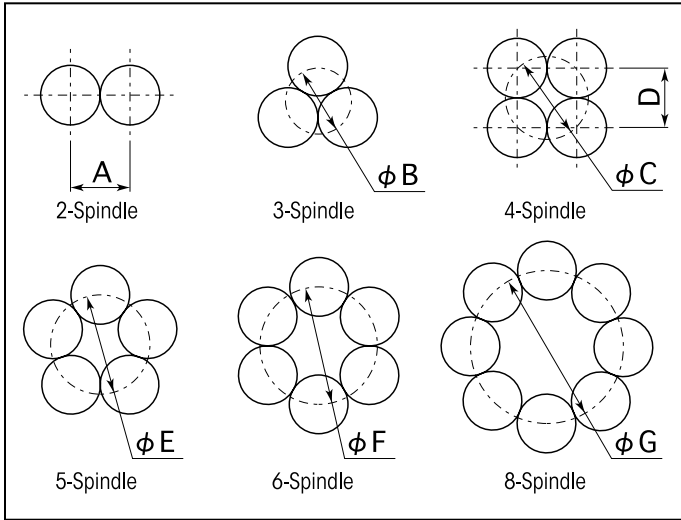
TYPE	TIGHTENING TORQUE (Nm)	FREE SPEED (rpm)	WEIGHT (kg)	SPINDLE UNIT
UNR-F015-45NT	4.5	3,200	2.48	UEC-F024
UNR-F015-65NT	6.5	2,200	2.48	UEC-F024
UNR-F015-200NT	20	730	2.73	UEC-F024
UNR-F015-280NT	28	500	2.73	UEC-F024
UNR-F015-350NT	35	410	2.73	UEC-F024
UNR-F050-270NT	27	1,750	4.86	UEC-F060
UNR-F050-630NT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

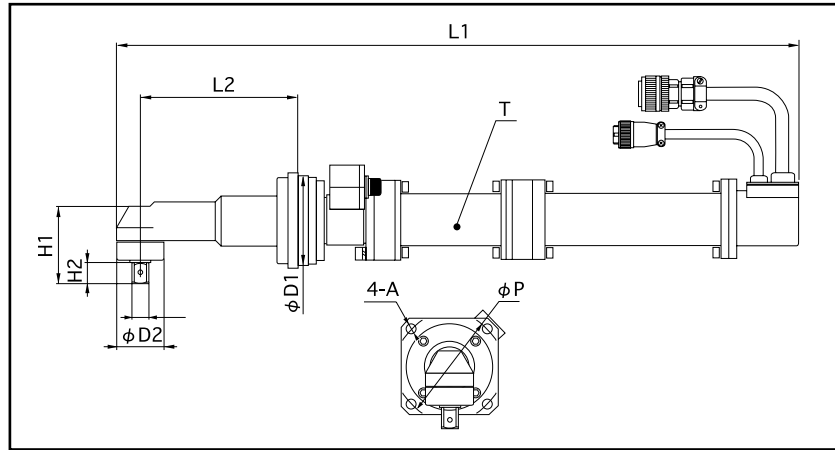
“F” NUTRUNNER MOTORS’ MINIMUM PITCH CIRCLE

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	L1	L2	H1	EXTERNAL DIMENSIONS (MM)						STRAIGHT MOTORS		
				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 touch-pad 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.



UEC-4800



UEC-4800TP Controller with Touch-Screen option.



UEC-4800-EX Controller with network connectivity

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-4800A/E(SD) CONTROLLER

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

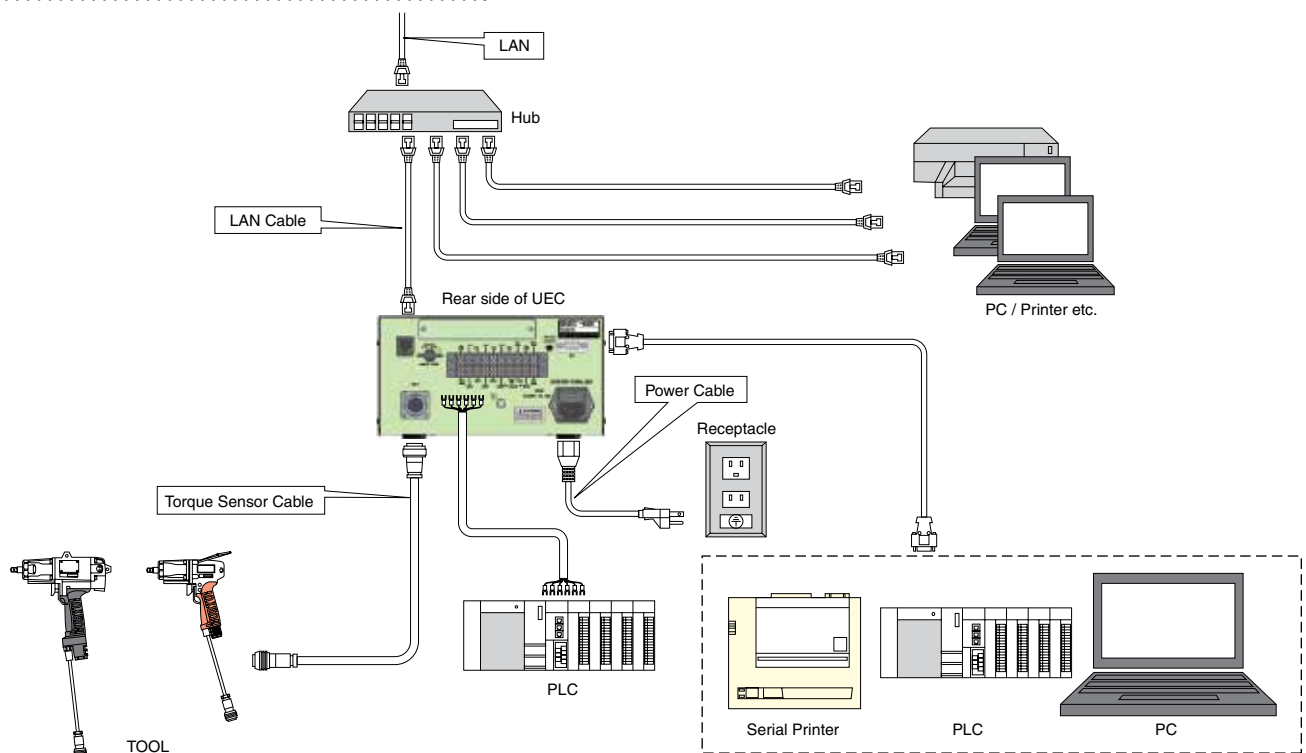
- Economical LCD front panel.
- Easy programming or upload of your program from a PC.
- Torque Wave data visible on your PC.
- UEC-4800(SD) memorizes maximum 12,000 fastening data. When connected to a PC, standard deviations, Cp value, and Cpk values can be analyzed instantly from the stored data within 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)	LED	COUNT Lamp: OK (Green), NOK (Red) TORQUE Lamp: LOW (Yellow), OK (Green), HIGH (Red)
Ambient Humidity	Under 90%RH (no dew)		
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.



Torque Wave Monitor Display

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

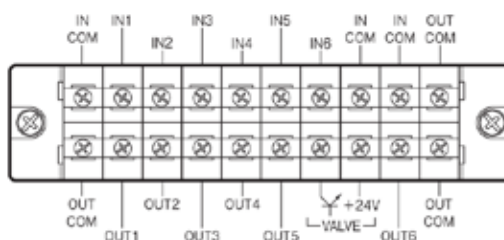
Power Supply	AC100 ~ 240V ±10%
Power Frequency	50/60 Hz
Noise Protection	1000V 1μS (according to noise simulator)
Insulation Protection	DC500V over 10MΩ
Ambient Temperature	0 ~ 50°C (non-freezing)
Ambient Humidity	Under 90%RH (no dew)
Power Consumption	Approx. 30VA
Weight	Approx 3.6 kg
Dimensions	265(d) 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 miniSD 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.

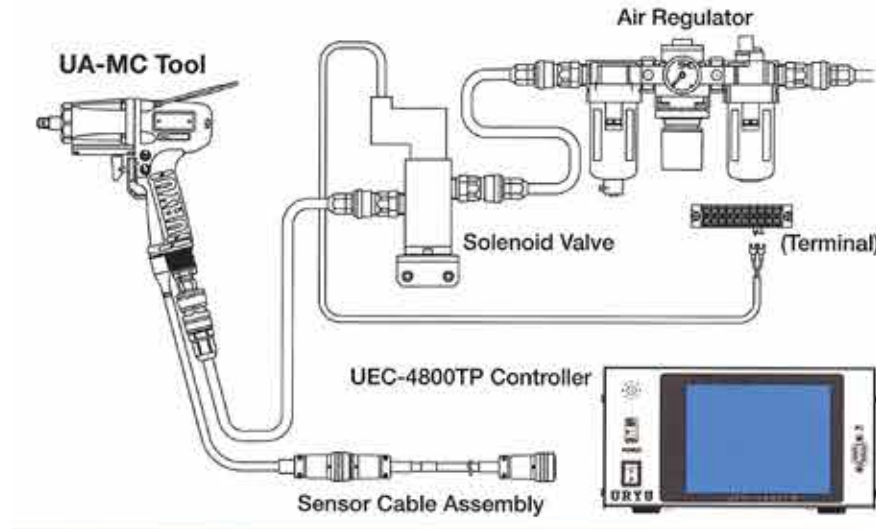
Power Supply	AC100 ~ 240V ±10%
Power Frequency	50/60 Hz
Noise Protection	1000V 1μS (according to noise simulator)
Insulation Protection	DC500V over 10MΩ
Ambient Temperature	0 ~ 50°C (non-freezing)
Ambient Humidity	90%RH or less (no dew)
Weight	Approx. 11.30 kg
Dimensions	265(d) x 222(w) x 200(h)
Main 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	URYU 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

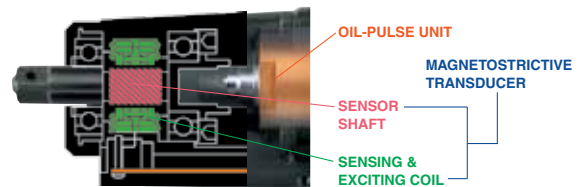
UA-MC SERIES

SYSTEM LAYOUT



MAGNETOSTRICTIVE TRANSDUCER

Uryu's brushless Magnetostrictive 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.



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%.
- Magnetostrictive 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.

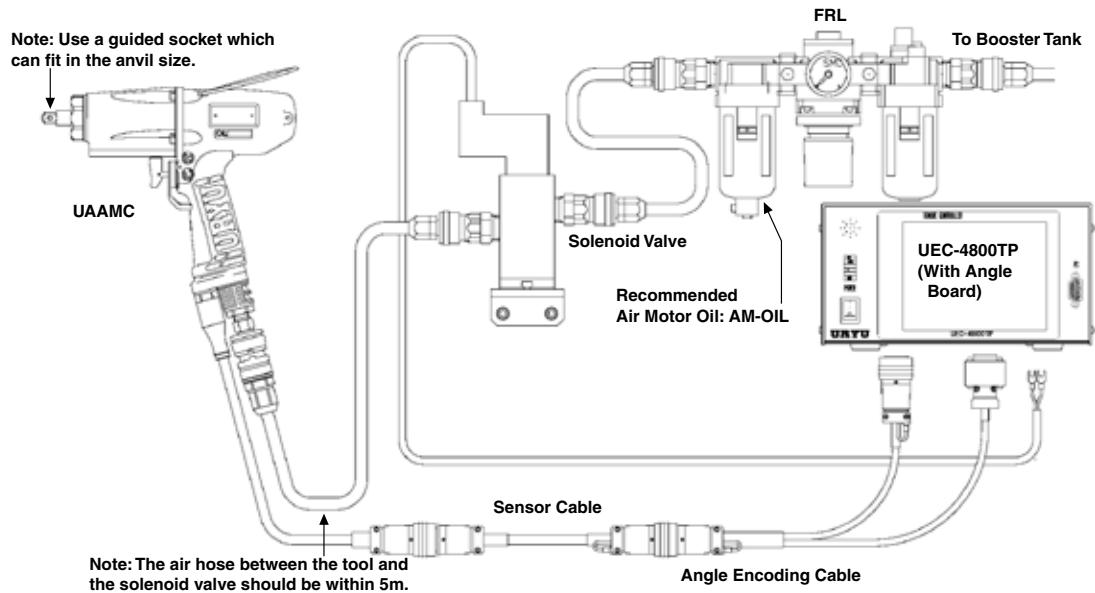


RECOMMENDED AIR PRESSURE: 85 PSI

MODEL #	TORQUE RANGE		FREE SPEED RPM	LENGTH		WEIGHT		DRIVE SIZE IN	AIR USAGE CFM
	NM	FT-LB		MM	IN	LB	KG		
UA-40MC	7.5 - 13	5.5 - 9.6	3,600	170	6.7	1.1	2.4	3/8	7
UA-40DMC	5 - 12	3.7 - 8.9	3,600	170	6.7	1.1	2.4	1/4 QC	7
UA-50MC	11 - 25	8.1 - 18.4	4,250	170	6.7	1.1	2.4	3/8	8.8
UA-60MC	18 - 38	13.3 - 28	5,000	175	6.9	1.1	2.5	3/8	14
UA-70MC	30 - 50	22.1 - 36.9	5,700	187	7.4	1.2	2.7	3/8	15.8
UA-80MC	40 - 60	29.5 - 44.3	6,000	195	7.7	1.6	3.4	3/8	17
UA-90MC	40 - 80	29.5 - 59	5,500	203	7.9	1.7	3.7	1/2	18.6
UA-100MC	50 - 90	36.9 - 66.4	5,200	215	8.5	2.1	4.5	1/2	19.3
UA-130MC	85 - 130	62.7 - 95.9	4,500	233	9.2	2.8	6.2	1/2	25.6

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.

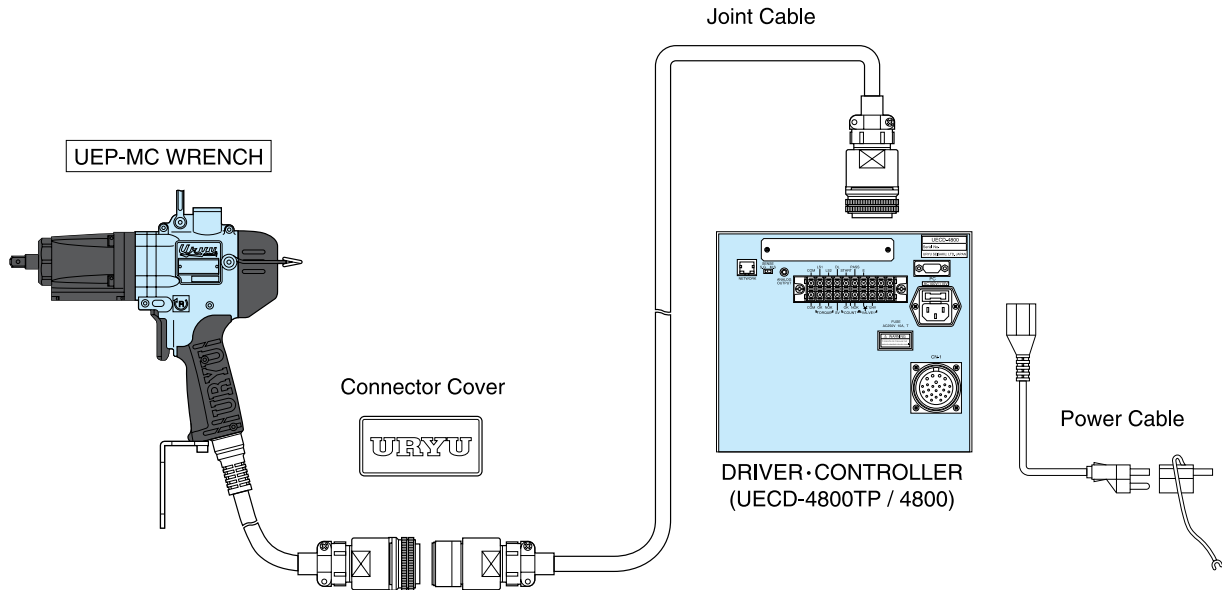


RECOMMENDED AIR PRESSURE: 85 PSI

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	7.6	3.0	1.6	3/8	7.1
UA-500AMC	11 - 25	8.1 - 18.4	4,250	193	7.6	3.0	1.6	3/8	8.8
UA-600AMC	18 - 38	13.3 - 28.0	5,000	198.5	7.8	3.1	1.4	3/8	14.1
UA-700AMC	30 - 50	22.1 - 36.9	5,700	207.5	8.2	3.3	1.5	3/8	15.9
UA-800AMC	40 - 60	29.5 - 44.3	6,000	215.5	8.5	3.8	1.7	3/8	17.0
UA-900AMC	50 - 90	36.9 - 66.4	5,500	232.5	9.2	4.9	2.2	1/2	18.7
UA-1000AMC	50 - 90	36.9 - 66.4	5,200	242.5	9.6	5.5	2.5	1/2	19.4
UA-1300AMC	85 - 130	62.7 - 95.9	4,500	236	9.3	7.3	3.3	1/2	25.8

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 RPM	WEIGHT LB	LENGTH IN	DRIVE IN	SOUND LEVEL DB(A)	REQUIRED DRIVER BOX
		NM	FT-LB						
UEP-50MC(-STDA)*	TRANSDUCERIZED	5 - 10	4 - 7	2,000	4.0	7.9	3/8 SQ. DR.	70	UEPD-51A-UL
UEP-50DMC(-STDA)*	TRANSDUCERIZED	5 - 10	4 - 7	2,000	4.0	7.9	1/4 HEX	70	UEPD-51A-UL
UEP-60MC(-STDA)*	TRANSDUCERIZED	10 - 25	8 - 18	2,000	4.7	8.7	3/8 SQ. DR.	70	UEPD-61A-UL
UEP-60DMC(-STDA)*	TRANSDUCERIZED	10 - 25	8 - 18	2,000	4.7	8.7	1/4 HEX	70	UEPD-61A-UL
UEP-70MC(-STDA)*	TRANSDUCERIZED	25 - 40	18 - 30	2,000	5.2	8.4	3/8 SQ. DR.	72	UEPD-71A-UL
UEP-80MC(-STDA)*	TRANSDUCERIZED	30 - 60	22 - 44	2,000	6.6	8.4	1/2 SQ. DR.	75	UEPD-71A-UL
UEP-100MC(-STDA)*	TRANSDUCERIZED	60 - 120	44 - 88	2,000	9.2	9.9	1/2 SQ. DR.	75	UEPD-101A-UL

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

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-4800	X	X						
UECP-4800-EX	X			X	X			
UECP-4800-EXL	X		X	X	X			
UECP-4800-EDA	X			X		X		
UECP-4800-EDAL	X		X	X		X		
UECP-4800-EPA	X			X			X	
UECP-4800-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	2.9-14.4	1000-4800	3.3	8.4	3/8 SQ. DR.	74	
UDP-A60MC	TRANSDUCERIZED	5 - 25	3.7 - 18.5	1,000 - 4,800	3.3	8.4	3/8 SQ. DR.	74	N/A
UDP-A80MC	TRANSDUCERIZED	25 - 55	18.5 - 40.6	1,000 - 4,800	3.9	9.5	3/8 SQ. DR.	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 KIT	TOOL HOLDER, 40-90 SERIES
852-645-1 KIT	TOOL HOLDER, 100 SERIES



ACRA-PULSE® MC & EC SERIES

ACRA-PULSE® MC SERIES €



UXR-1820MC

MODEL	TORQUE RANGE		FREE SPEED RPM	LENGTH		WEIGHT		DRIVE IN	NOISE LEVEL DB(A)	AIR USAGE CFM
	NM	FT-LB		MM	IN	LB	KG			
ALPHA-50DMC*	6 - 15	4.5 - 11	5,700	193	7.6	2.9	1.3	1/4 HEX	82	7.1
ALPHA-50MC*	6 - 15	4.5 - 11	5,700	193	7.6	2.9	1.3	3/8	82	7.1
ALPHA-60DMC	9 - 20	7 - 14	7,000	205	8.1	3.1	1.4	1/4 HEX	82	8.8
ALPHA-60MC	9 - 20	7 - 14	7,000	205	8.1	3.1	1.4	3/8	82	8.8
ALPHA-60SDMC	10 - 17	7 - 12	5,500	280	11.0	2.8	1.2	1/4 HEX	82	8.8
ALPHA-60SMC*	10 - 17	7 - 12	5,500	280	11.0	2.8	1.2	3/8	82	8.8
ALPHA-70MC	12.5 - 30	9 - 22	7,000	205	8.1	3.1	1.4	3/8	82	12.3
ALPHA-80MC	16 - 40	12 - 29	7,000	221	8.7	3.3	1.5	3/8	82	15.8
ALPHA-90MC	20 - 47	14 - 34	6,500	221	8.7	3.3	1.5	3/8	82	15.8
ALPHA-101MC	34 - 70	25 - 51	6,200	233	9.2	4.6	2.1	1/2	82	17.6
ALPHA-110MC	45 - 100	33 - 72	5,000	249	9.8	5.5	2.5	1/2	82	22.9
ALPHA-130MC	80 - 150	59 - 110	3,400	266	10.5	7.7	3.5	1/2	82	22.9
ALPHA-140MC	140 - 220	103 - 162	3,500	295	11.6	10.2	4.6	3/4	82	28.3
UXR-1820MC	140 - 250	103 - 184	4,600	322	12.3	12.3	5.5	3/4	84	24.7
UXR-2000MC	200 - 400	148 - 295	4,800	355	14.0	17.6	8.0	3/4	84	33.6
UXR-2400SMC	300 - 600	221 - 443	3,300	416	16.4	27.6	12.5	1	85	35.3

Air Hose Size: 3/8" I.D.
1/2" I.D. FOR UXR-1820MC/2000MC/2400SMC
* External Solenoid Valve (909-749-0) Required

Air Inlet: N.P.T. 1/4"
N.P.T. 3/8" FOR UXR-1820MC; N.P.T. 1/2" FOR UXR-2400SMC

RECOMMENDED AIR PRESSURE: 85 PSI

ACRA-PULSE® EC SERIES €



UX-80EC

RECOMMENDED AIR PRESSURE: 85 PSI

MODEL	TORQUE RANGE		FREE SPEED RPM	LENGTH		WEIGHT		CENTER TO OUTSIDE		DRIVE IN	NOISE LEVEL DB(A)	AIR USAGE CFM
	NM	FT-LB		MM	IN	LB	KG	MM	IN			
U-50EC	4 - 10	3 - 7	2,100	195	7.7	3.3	1.5	21	0.8	3/8	78	10.2
U-50DEC	4 - 10	3 - 7	2,100	201	7.9	3.3	1.5	21	0.8	1/4 HEX	78	10.2
U-50SDEC*	4 - 10	3 - 7	2,100	280	11.5	3.4	1.6	21	0.8	1/4 HEX	72	7.7
U-50SEC*	4 - 10	3 - 7	2,100	280	11.2	3.4	1.6	21	0.8	3/8	72	7.7
U-60EC	15 - 30	11 - 22	1,900	193	7.6	3.5	1.6	27	1.1	3/8	78	14.1
U-60DEC	15 - 30	11 - 22	1,900	305	12.0	4.4	2.0	27	1.1	1/4 HEX	75	12.3
U-60SEC*	15 - 25	11 - 18	1,900	305	12.0	4.4	2.0	27	1.1	3/8	82	14.1
UX-80EC	25 - 45	18 - 33	1,900	197	7.8	4.0	1.8	30	1.2	3/8	80	17.7
U-100EC	50 - 80	36 - 59	1,700	233	8.2	6.2	2.8	33	1.3	1/2	80	24.7
UX-120EC**	65 - 120	47 - 88	900	253	10.0	8.6	3.9	36	1.4	1/2	77	28.2
UX-130EC	90 - 170	65 - 123	1,250	273	10.8	10.4	4.7	40	0.6	1/2	79	35.0

Air Hose Size: 3/8" I.D.
** Recommended air pressure for UX-120EC: 50 - 57 psi
* External Solenoid Valve (909-749-0) required

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

NOTE: Torque ranges reflect residual B joint torque values

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	Light Tower/Accessory 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	
			M	FT	UA-MC	UA-AMC
909-921-0	Sensor Cable Assembly	Tool Cable to Controller	5	18	X	X
910-974-0	Joint Cable Assembly	Tool Cable to Controller	5	18		
910-975-0	Joint Cable Assembly	Tool Cable to Controller	10	35		
910-546-0	Joint Cable Assembly	Tool Cable to Controller	3	10		
910-547-0	Joint Cable Assembly	Tool Cable to Controller	5	18		
910-548-0	Joint Cable Assembly	Tool Cable to Controller	10	35		
EC/MCCBL-3	Sensor Cable Assembly	Tool Cable to Controller	1	3	X	X
EC/MCCBL-10	Sensor Cable Assembly	Tool Cable to Controller	3	10	X	X
EC/MCCBL-25	Sensor Cable Assembly	Tool Cable to Controller	7	25	X	X
EC/MCCBL-30	Sensor Cable Assembly	Tool Cable to Controller	9	30	X	X
EC/MCCBL-35	Sensor Cable Assembly	Tool Cable to Controller	10	35	X	X
EC/MCCBL-40	Sensor Cable Assembly	Tool Cable to Controller	12	40	X	X
EC/MCCBL-45	Sensor Cable Assembly	Tool Cable to Controller	13	45	X	X
EC/MCCBL-50	Sensor Cable Assembly	Tool Cable to Controller	15	50	X	X
EC/MCCBL-60	Sensor Cable Assembly	Tool Cable to Controller	18	60	X	X
EC/MCCBL-75	Sensor Cable Assembly	Tool Cable to Controller	22	75	X	X
911-023-0	Encoder "Y" Cable	Enables Angle Sensor-Splits Tool Cable to Controller	0.3	1		
910-623-0	Sensor Cable Assembly	External Driver Box to Controller	0.3	1		

* Requires Controller with Angle Encoder Board installed

CONTROLLED PULSE TOOL CABLES



TOOL SERIES					CONTROLLER PLATFORM		
UEP-MC	UDP-MC	ALPHA-MC	UXR-MC	U/UX-EC	UEC-4800	UECD-4800	UECP-4800
		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	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	

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:**

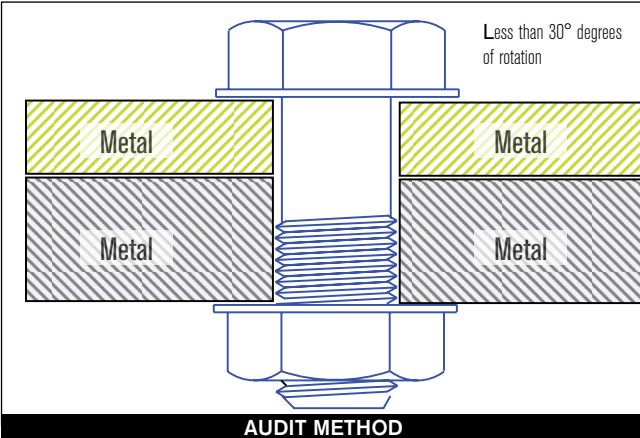
- Reduces operator influence.
- Measures applied torque.
- Can also include angle of rotation as error proofing parameter.

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.


HARD JOINT



AUDIT METHOD

OR

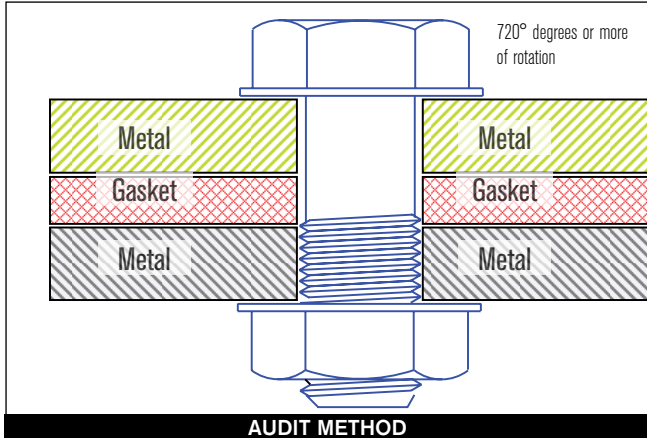




Dynamic Torque: 15 Nm


Residual Torque: 18 Nm


SOFT JOINT



AUDIT METHOD

OR





Dynamic Torque: 15 Nm

Residual Torque: 12 Nm

Values as examples only

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

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

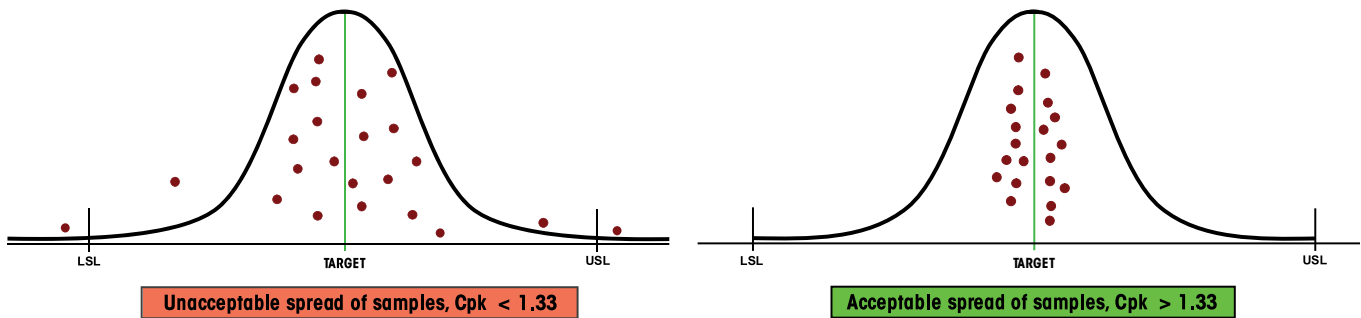
STATISTICAL ANALYSIS IS AN IMPORTANT STEP IN ANY QUALITY CONTROL PROCESS.

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 (σ) of the samples.

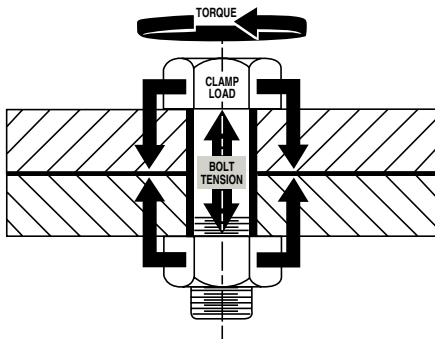
$$Cpk = \text{either } \frac{(USL - \text{Mean})}{(3 \times \sigma)} \text{ or } \frac{(\text{Mean} - LSL)}{(3 \times \sigma)}, \text{ whichever is smaller.}$$

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



MEASURING QUALITY – CLAMP LOAD

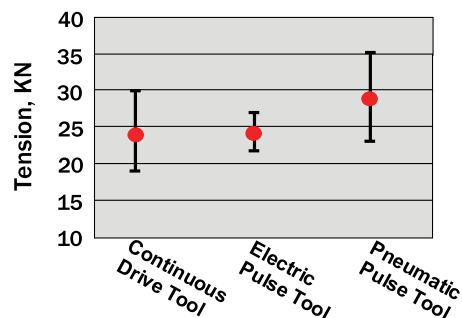
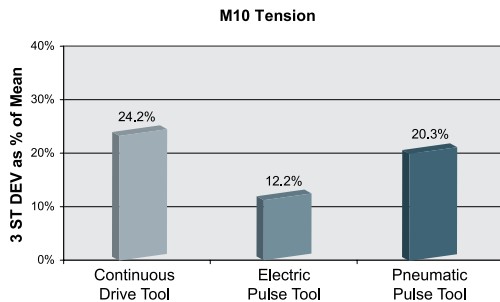
THE PURPOSE OF THREADED FASTENING IS TO PRODUCE THE CORRECT AMOUNT OF CLAMP LOAD WITHIN THE JOINT.



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				
Wrench	ADW			X						
	ADW-DC	X								
	APTW			X						
	ATW			X						
	ATWL					X				
Transducer	ARTIS									X
	ASTIS							X		
	AISI						X			
	AISF						X			
	AIRI								X	
	AIRF								X	
Rundown Fixtures	AJKR									
	AJKS									
	ARDF									
	ARDIA									
Joint Simulator	UFT									
Test Stand	AIMTS	X*	X*	X*			X*	X*	X*	X*
	AHCTS	X*	X*	X*			X*	X*	X*	X*
Torque Cart	ITVC	X*	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 and Analyzers share similar features across all products and are designed for intuitive and functional usability. Models 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 - 1000 ft/lbs 1 - 1350 Nm	100 in/oz - 750 ft/lbs 1 - 1000 Nm	100 in/oz - 750 ft/lbs 1 - 1000 Nm	100 in/Oz - 750 ft/lbs 1 - 1000 Nm	100 in/oz - 750 ft/lbs 1 - 1000 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
Measurement Modes					
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.

ACCESSORIES

External Transducers

	ATC	AUET	AUET/MTM	AUET-DC	AUET/MTM-DC
ASTIS - Stationary			X		X
ARTIS - Rotary			X		X

Switch box for External Transducer

	ATC	AUET	AUET/MTM	AUET-DC	AUET/MTM-DC
AISWT-4L > 4 Way Intellect box			X		X
AISWT-6L > 6 Way Intellect box			X		X

Cables

	ATC	AUET	AUET/MTM	AUET-DC	AUET/MTM-DC
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



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 & auto clear function.
- Multiple frequency response settings.
- Bi-directional use & 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 important, our testers can be depended on to calibrate and certify your torque 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 in the calibration laboratory.

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 in
	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).

Instruments up to 1000 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.

These AUET instruments utilize the same transducers that are featured in the ATC instruments, providing the same high quality in accuracy and durability. Auditor testers use a common interface making it extremely user friendly.



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)	0 - 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 Testers and Analyzers share similar features across all products and are designed for intuitive and functional usability. Models available with our unique dual integrated torque transducer package.
- Works together with Auditor Transducers.



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

ACCESSORIES

External Transducers

AISI / AISF - Digital			X	X
ASTIS - Stationary	X	X		
ARTIS - Rotary	X	X		

Switch box for External Transducer

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

Cables

ICBL-USB - USB Serial > PC	X	X		
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			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 very similar menus, additionally, all data collector testers utilize Auditor Tool Manager for tool testing and test 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. Is able to associate data with file names and manage data collection using a computer and the Auditor Tool Manager software.

This is a great “starter” tool management system, providing 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 application.



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.

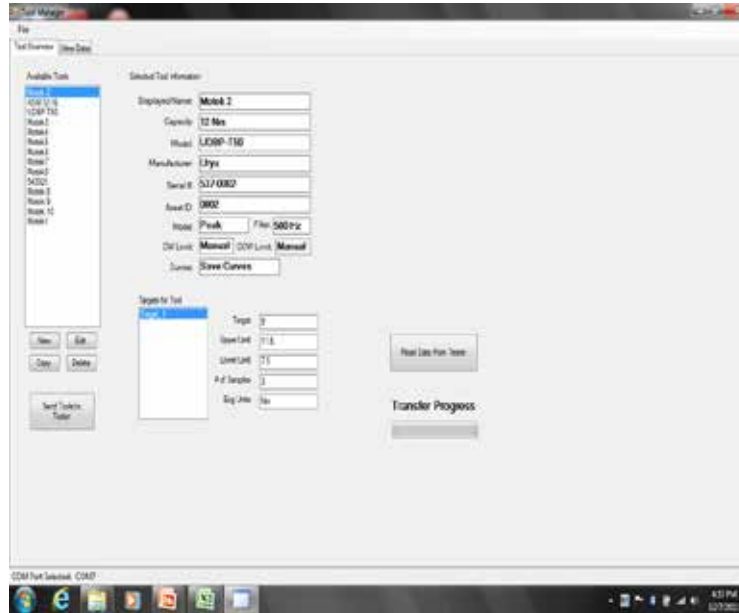
MODEL	DESCRIPTION
ATDA-8000	Auditor Torque Analyzer Single channel 7" touch screen point of use validation system
ATDA-8000-10-DCA(-TA)(-TP)	Auditor Torque Analyzer Multiple transducer 10" touch screen point of use validation system



AUDITOR™ TOOL MANAGER/AUDIT MANAGER

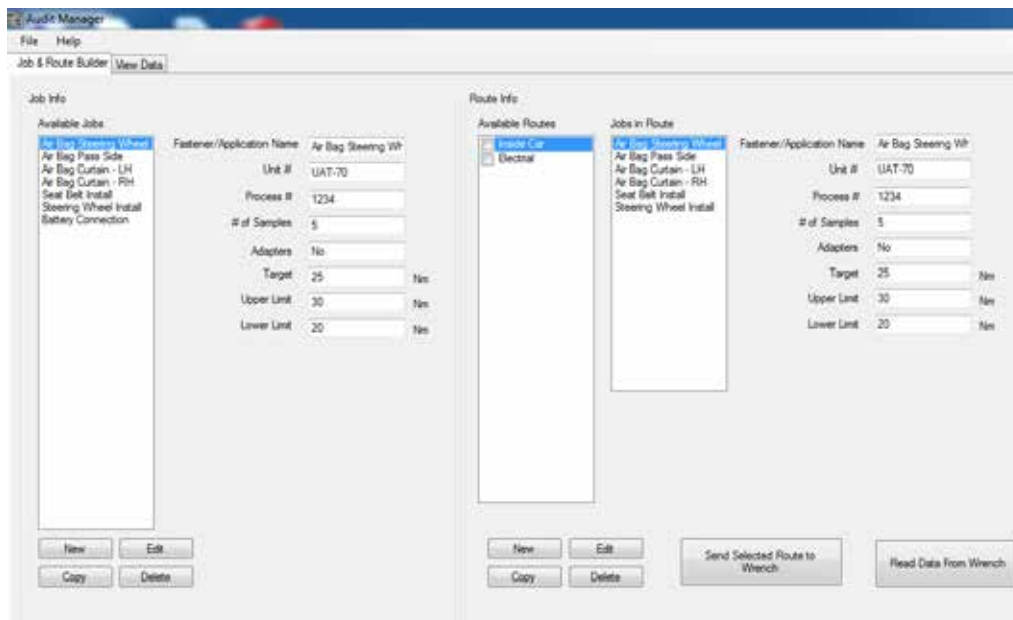
AUDITOR™ TOOL MANAGER SOFTWARE

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™ TORQUE WRENCHES

TORQUE MEASUREMENT: TORQUE WRENCH

Features and Benefits <ul style="list-style-type: none"> • Multiple Options • Similar Interface with other Auditor Products • Durable 				
	ADW Auditor Digital Wrench	ADW-DC Auditor Digital Wrench with Data Collection	APTW Auditor Preset Torque Wrench	ATW Auditor 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
	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
Bi-Directional accuracy of +/- X of indicated reading within the top 90% of the Tester's capacity	1%	1%	3%	0.50%
Tool Manager Software Included		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-750	Torque range up to 750 ft/bs
ATWL-1000	Torque range up to 1000 ft/bs

ACCESSORIES



ICBL-USB - USB Serial > PC Cable



ADW-DS - Digital Wrench Docking Station

See Appendix B on page 86 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	
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 ± 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 86 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



“TRANSDUCERS ON A STICK”

- Non-Length Dependent – Where the operator’s hand is positioned during use has no effect on torque readings.
- Available in Industry Standard (IS) or Intelligent (Intellect) Configurations – Transducer is compatible with a wide variety 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 user flexibility and convenience.
- +/- 3% accuracy when used in clockwise or counterclockwise directions.



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

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



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

AUDITOR™ 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.

Stationary		Rotary
		
AISI - AISF	ASTIS	ARTIS
Auditor Industry Standard Stationary (in/lbs - Ft/lbs)	Auditor Stationary Transducer Industry Standard	Auditor Rotary Transducer Industry Standard
For use with ATDA-8000 Series - external attachment for dynamic torque testing of tools and static testing of torque wrenches	For use with all Auditor analyzers with exception of ATDA-8000 Series -external attachment for dynamic torque testing of tools and static testing of torque wrenches	For use with all Auditor analyzers with exception of ATDA-8000 Series - external attachment for dynamic torque testing of tools - models are available with angle measurement capability

See Appendix A on page 86 to configure complete part.

AUDITOR™ STATIONARY TRANSDUCERS



AISI



ASTIS

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

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

STATIONARY TRANSDUCER	MAX TORQUE		DRIVE
	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

AUDITOR™ TRANSDUCERS

AUDITOR™ ROTARY TRANSDUCERS



MODEL *	MAX TORQUE		WEIGHT		SIZE		SQUARE DRIVE
	Nm	in-lb/ft-lb	kg	lb	mm	inch	in
AIRF-200100	135.6	1,200/100	1.5	3.3	75 x 100	3 x 4	1/2"
AIRF-200500	678	6,000/500	2.2	5	75 x 100	3 x 4	3/4"
AIRF-201000	1356	12,000/1,000	3	6.5	75 x 100	3 x 4	1"

*Insert (1) after the hyphen to indicate torque angle transducer.

**Please refer to the Transducer Configurator in Appendix A on page 86 for required ordering options.

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.

TORQUE MEASUREMENT CABLES

CABLES



ICBL-USB



ATDBLIS

TORQUE MEASUREMENT: CABLES		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	X	
4	ICBL-10P		X		X			X
5	ICBL-4P		X	X		X		X
6	ICBL-8000DIG		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

CABLE COMPATABILITY	ATC	AUET	AUET/MTM	AUET-DC	AUET/MTM-DC	ATDA	ATDA-DC	ATDA-8000	ATDA-8000-10-DCA(-TA)(-TP)	ADW	ADW-DC
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		



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)	SIMULATED MEDIUM JOINT *	COMPATIBLE WITH NON-AUDITOR TESTERS
	ARDIA-XXXHD	X				X	X
	ARDF-XXXXHD	X				X	X
	ARDF-XXXHDS		X			X	X
	ARDIA-XXXHDS		X			X	X
	ARDF-XXXHDE			X		X	X
	ARDIA-XXXHDE			X		X	X
	ARDF-				X	X	X
	ARDIA-				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 - 1200 ft/lbs

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 - 1695Nm

HYDRAULIC MECHANICAL JOINT SIMULATOR



UFT SERIES

Most accurate, repeatable, linear and durable - testing 3-690Nm- M5-M24 fastener sizes

See page 80.

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.

AUDITOR™ HIGH-CAPACITY TEST STANDS



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
AHDTS-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 the Test Stand Configurator in the Appendix C, page 88 for required ordering options.

Optional Pelican Case shown (ordered separately)



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 of these stands can be ordered with various 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

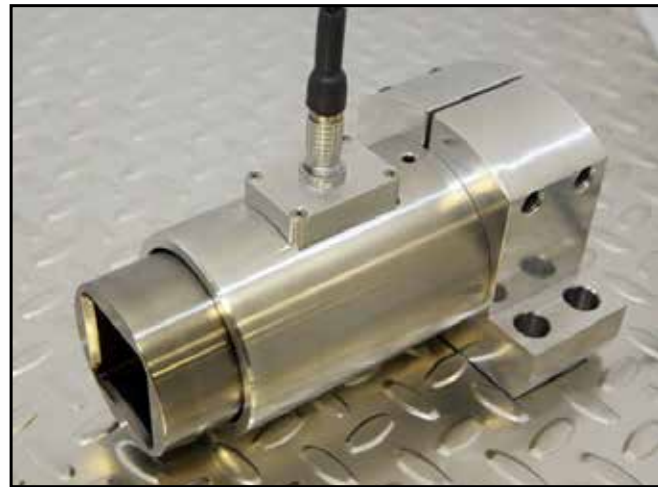
AUDITOR™ HIGH-CAPACITY TEST STANDS

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-2000
Test stand for large impact tools



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 88 for required ordering options.



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

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 CART / TOOLSTRAC

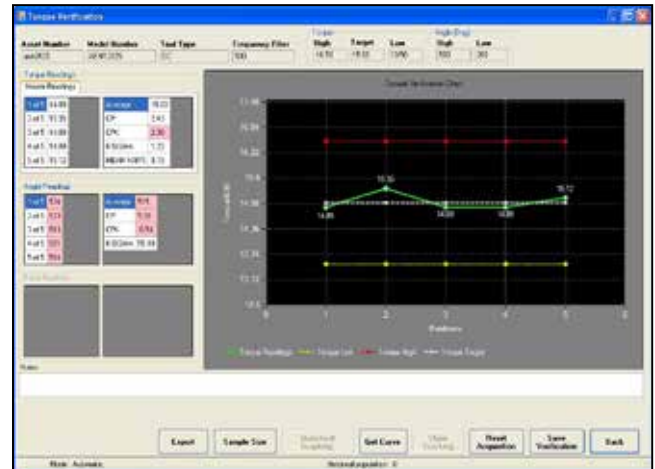


TORQUE CART

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 1356 Nm. Ancillary test stands up to 50,000 ft-lb available.

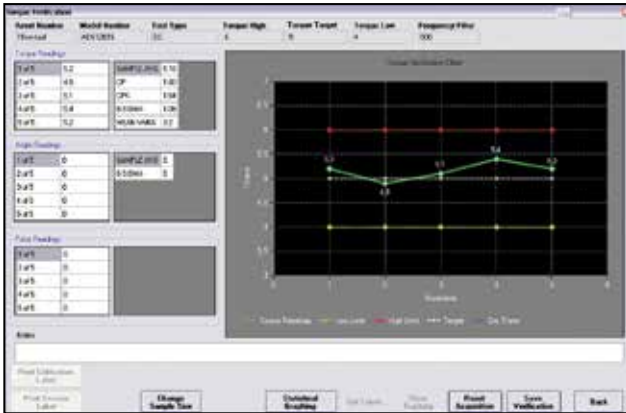


TOOLSTRAC

As the data management system within Auditor™ Torque Carts, ToolsTrac software is a Total Tool Management, Verification, and Calibration application. Users can manage their complete tool inventory with this application. ToolsTrac identifies where the tools are located, calibration and/or service schedule, initial cost as well as total cost of ownership for the life of the tool. The user can compare service, service cost, frequency of repair and accuracy between models and manufacturers of tools with ease.

This application features over 20 embedded reports as well as a Chrystal report editor allowing the user to build their own custom reports or select from pre-configured options. ToolsTrac can be used as a “stand-alone” application, or, using the ToolsTrac kit, can be part of a bench top testing lab adding torque cart capabilities without the cart! There are no annual user fees or annual license fees for this software! There is nothing on the market that compares with this application – Auditor™ provides the best system at the best value!

TOOLSTRAC



TORQUE VERIFICATION

ToolsTrac 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, torque/pulse count, pulse count/time, angle/pulse count. 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.

Operation Name	Critical Operation	Description	Control Type	Joint Type	Torque High	Torque Target	Torque Low	Torque Threshold	Angle High	Angle Low	Angle Threshold
CP Angle	No	angle	Soft		75 000	75 000	75 000	1 500	0	0	0
CP Pulse	No	torque	Hard		45 000	25 000	1 500	1 500	100	100	0
CP Torque	No	torque	Hard		11 000	13 000	10 000	1 500	0	0	0

Asset Number	Manufacturer	Model No.	Tool Type	Tool Design	Torque High	Torque Low	Torque Unit	Frequency Filter
AE10115	Ameltec	AE10115	DC	Angle Head	10 100	0 000	Nm	100

Verification Date	Verification Time	Verified By	Verification Device	Joint Type	Readback Target	Readback Count	Verification Method	Passed Verification
MT10115	3:31:52 PM	admin	Torque Cart	Hard	5	4	Operation	Yes
MT10115	3:38:17 PM	admin	Torque Cart	Hard	5	5	Operation	Yes
MT10115	3:38:41 PM	admin	Torque Cart	Hard	5	5	Operation	Yes

Sample	Master Torque	Statute	Value	Sample	Master Angle	Statute	Value	Sample	Master Pulse	Statute	Value
1	12.000	SAMPLE AVG	1.738	1	38	SAMPLE AVG	37.5	1	0	CP	96.89
2	12.000	CP	1.733	2	37	CP	37.85	2	0	CP	96.89
3	12.700	CP	1.776	3	38	CP	37.77	3	0	CP	96.89
4	12.700	MEAN VARI	1.79	4	37	MEAN VARI	37.8	4	0	CP	96.89

Operation Name	Critical Operation	Description	Control Type	Joint Type	Torque High	Torque Target	Torque Low	Torque Threshold	Angle High	Angle Low	Angle Threshold
CP Angle	No	angle	Soft		75 000	75 000	75 000	1 500	0	0	0
CP Pulse	No	torque	Hard		45 000	25 000	1 500	1 500	100	100	0
CP Torque	No	torque	Hard		11 000	13 000	10 000	1 500	0	0	0

Asset Number	Manufacturer	Model No.	Tool Type	Tool Design	Torque High	Torque Low	Torque Unit	Frequency Filter
AE10115	Ameltec	AE10115	DC	Angle Head	10 100	0 000	Nm	100

Verification Date	Verification Time	Verified By	Verification Device	Joint Type	Readback Target	Readback Count	Verification Method	Passed Verification
MT10115	3:41:53 PM	admin	Torque Cart	Hard	5	4	Operation	Yes
MT10115	3:39:17 PM	admin	Torque Cart	Hard	5	5	Operation	Yes
MT10115	3:38:41 PM	admin	Torque Cart	Hard	5	5	Operation	Yes

Sample	Master Torque	Statute	Value	Sample	Master Angle	Statute	Value	Sample	Master Pulse	Statute	Value
1	12.000	SAMPLE AVG	1.738	1	38	SAMPLE AVG	37.5	1	0	CP	96.89
2	12.000	CP	1.733	2	37	CP	37.85	2	0	CP	96.89
3	12.700	CP	1.776	3	38	CP	37.77	3	0	CP	96.89
4	12.700	MEAN VARI	1.79	4	37	MEAN VARI	37.8	4	0	CP	96.89

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.

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.

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.

TIMELINE €



1965



1980



1988



1995

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.

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.

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.

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.

OMEGA PULSE TOOLS: OVERVIEW

OMEGA UL AND ULT SERIES

The UL and ULT Series stands as the most advanced pulse tool in the world. Whether the goal is improving Productivity, Ergonomics, Reliability or Quality, the UL / ULT Series contains the technology to achieve success.

UL tools, with their non-shut off operation, are ideal for applications where the lightest, fastest tool is necessary. ULT shut off models offer excellent accuracy while allowing the operator to work at the highest possible speed without influencing the tightening process.

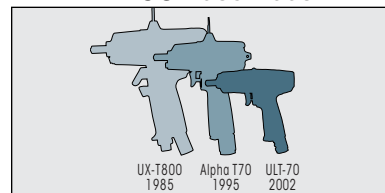
- Increases Productivity
- High Power-to-Weight Ratio
- Simple Operation
- Reduced Maintenance
- Extended Service Life
- Environmentally Friendly Design.
- Accurate and Repeatable



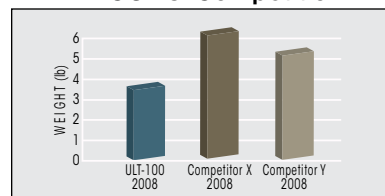
Each model features the powerful Alpha air motor and latest in pulse unit design.

- 64 models available from 2.5 – 260 Nm (2 – 190 FtLb)
- Models with air, electric, or battery power.
- Available in Standard, Tightening Monitor, and Transducerized versions.

**Size Comparison
AIMCO 1985-2008**



**Weight Comparison
AIMCO vs. Competition**



2001



2006



2012



2013

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. These changes, combined with even more decreases in tool size and the use of the Alpha air motor, make the UL / ULT Series the tool of choice in major automotive and general industry manufacturers throughout the world.

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.

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.

UA-AMC CONTROLLED PULSE SERIES

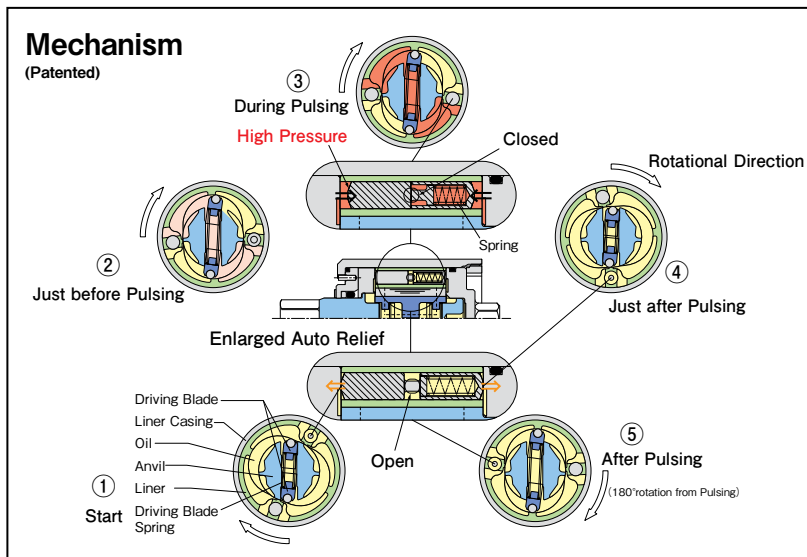
The UA-AMC Series features angle measurement for improved process control. It detects cross threading, double hits on the same fastener, stripped and damaged fastener threads and incorrect fasteners. It also features patented Auto Relief Technology, which modulates the beginning of the torque event,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

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.

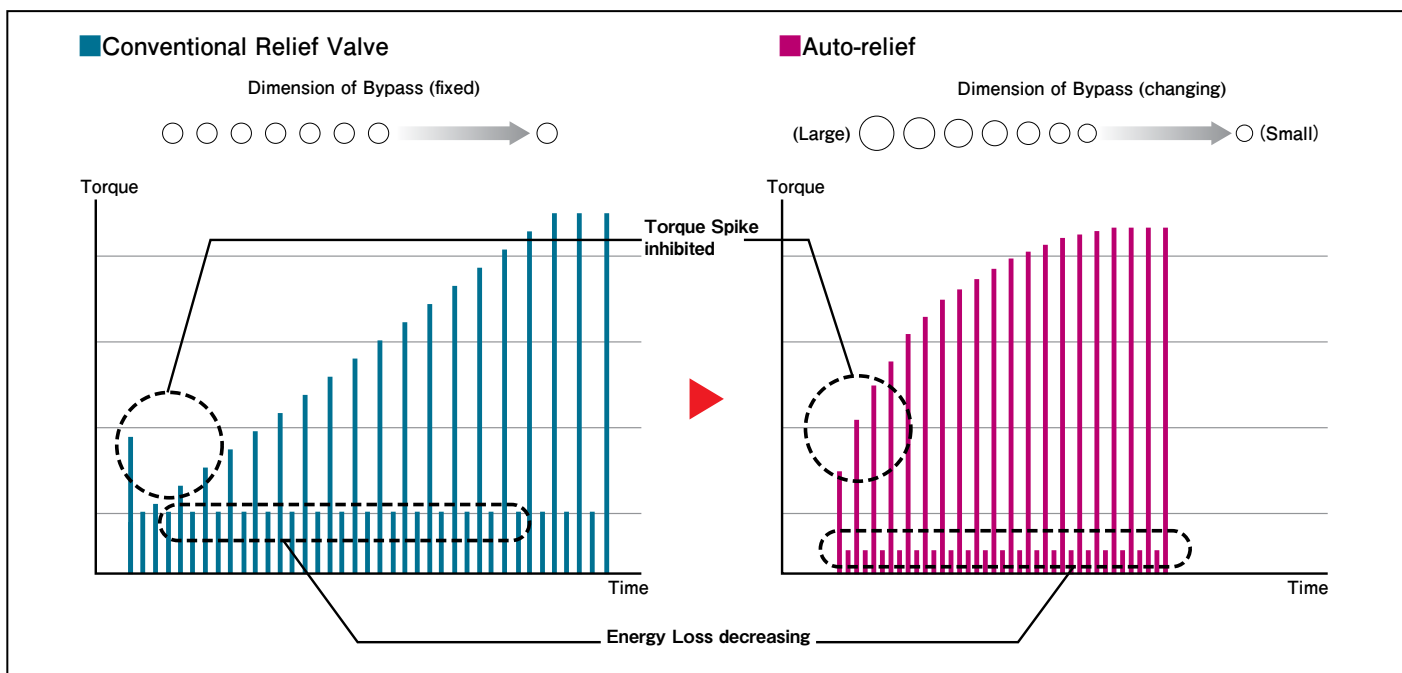
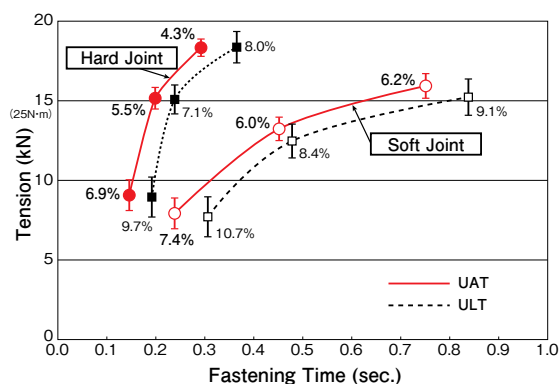
- Auto Relief eliminates initial spike of torque during a cycle. Highly effective on hard joint applications.
- Auto Relief ramps up pressure within the pulse unit resulting in more pulses in less time providing a more efficient and even torque event.



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	3700	2.5-5.5	1.9-4.1	1.9	.88	6.5	163	1/4	74	7
UAT-40	3800	4.5-8.0	3.5-5.9	2	.92	6.4	162	3/8	75	8.8
UAT-40D	3800	4.5-8.0	3.5-5.9	2	.92	6.4	162	1/4	75	8.8
UAT-50	4600	7.0-15.5	5.2-11.5	2	.92	6.4	162	3/8	78	10.5
UAT-50D	4600	7.0-15.5	5.2-11.5	2	.92	6.4	162	1/4	78	10.5
UAT-50L	4000	7.0-15.5	5.2-11.5	2	.92	6.4	162	3/8	75	8.8
UAT-60	6700	15-32	11.1-23.7	2.1	.95	6.5	174	3/8	80	12.3
UAT-60D	6700	15-32	11.1-23.7	2.1	.95	6.5	174	1/4	80	12.3
UAT-60L	6000	13-28	9.6-20.7	2.1	.95	6.5	174	3/8	77	8.8
UAT-70	6000	30-55	22.2-40.7	2.3	1.05	7.1	180	3/8	80	14
UAT-70L	5300	25-48	18.5-35.5	2.3	1.05	7.1	180	3/8	78	10.5
UAT-80	5600	45-63	33.3-46.6	2.8	1.25	7.3	186	3/8	80	16.8
UAT-90	5700	50-85	37-62.9	3.2	1.45	7.5	192	1/2	82	18.6
UAT-90L	5100	45-75	33.3-55.5	3.2	1.45	7.5	192	1/2	79	15.8
UAT-100	5200	70-130	51.8-96.2	3.7	1.70	7.8	199	1/2	82	19.3
UAT-130	4500	110-150	81.4-111	5.1	2.3	8.5	215	1/2	82	24.7
UAT-200	2400	200-400	147.6-295.2	12.8	5.8	11	279	3/4	85	35.3

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

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).

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

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	3700	2.5-5.5	1.9-4.1	1.6	.75	8.7	221	1/4	68	7
UAT-40S	3300	4.5-8.0	3.3-5.9	1.9	.85	8.8	224	3/8	70	7
UAT-40SD	3300	4.5-8.0	3.3-5.9	1.9	.85	8.8	224	1/4	70	7
UAT-50S	3900	4.5-8.0	5.2-11.5	1.9	.85	8.8	224	3/8	78	8.8
AT-50SD	3900	4.5-8.0	5.2-11.5	1.9	.85	8.8	224	1/4	78	8.8
UAT-50SL	3800	7-15.5	5.2-11.5	1.9	.85	8.8	224	3/8	75	7
AT-50SDL	3800	7-15.5	5.2-11.5	1.9	.85	8.8	224	1/4	75	7
UAT-60S	5700	15-32	11.1-23.7	1.9	.87	9	229	3/8	80	10.5
AT-60SD	5700	15-32	11.1-23.7	1.9	.87	9	229	1/4	80	10.5
UAT-60SL	5300	13-28	9.6-20.7	1.9	.87	9	229	3/8	77	8.8
AT-60SDL	5300	13-28	9.6-20.7	1.9	.87	9	229	1/4	77	8.8
UAT-70S	4700	30-50	22.2-37	2.1	.95	9.4	239	3/8	80	12.3
AT-70SL	4400	25.0-45	18.5-33.3	2.1	.95	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

Note Torque Ranges reflect residual B joint torque values

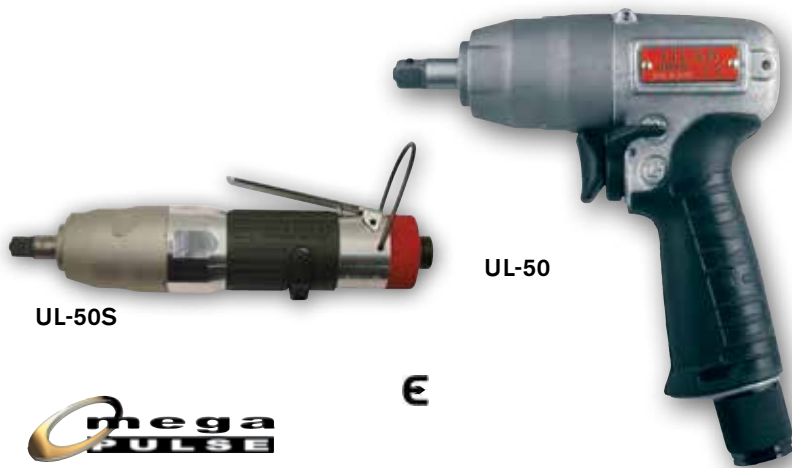
UAT Models containing "L" indicate models designed to run at 57 PSI air pressure.

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).

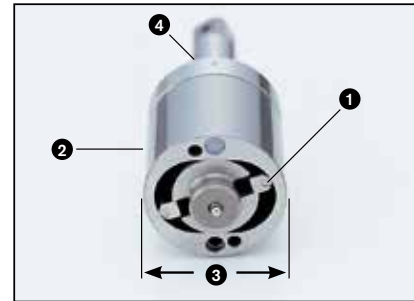
Air Inlet Thread: 1/4" NPT for UAT-30 to UAT-70

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

OMEGA PULSE TOOLS: UL SERIES



Omega Series Pulse Unit



- 1 Roller bearings – reduced friction.
- 2 Accumulator – stable fluid temperature.
- 3 Reduced size – lightweight tools.
- 4 New O-ring design – better durability

UL SERIES PISTOL NON SHUT-OFF

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED	TORQUE RANGE		WEIGHT		OVERALL LENGTH		DRIVE	SOUND LEVEL	AIR USAGE
	rpm	Nm	ft-lb	lb	kg	in	mm	in	dB(A)	cfm
UL-30D	5,700	6 - 12	4.4 - 8.9	1.5	0.7	5.3	135	1/4 hex dr.	75	7.0
UL-30	5,700	6 - 12	4.4 - 8.9	1.5	0.7	5.2	131	3/8 sq. dr.	75	7.0
UL-40D	6,100	11 - 20	8.1 - 14.8	1.5	0.7	5.5	140	1/4 hex dr.	75	7.0
UL-40	6,100	13 - 22	9.6 - 16.3	1.5	0.7	5.2	131	3/8 sq. dr.	75	7.0
UL-50D	6,400	18 - 28	13.3 - 20.7	1.7	0.8	5.7	144	1/4 hex dr.	78	10.5
UL-50	6,400	22 - 35	16 - 26	1.7	0.8	5.4	137	3/8 sq. dr.	78	10.5
UL-60D	7,000	22 - 35	16 - 26	1.8	0.8	5.7	144	1/4 hex dr.	80	14.0
UL-60	7,000	32 - 50	24 - 37	1.8	0.8	5.4	137	3/8 sq. dr.	80	14.0
UL-70	5,700	40 - 65	30 - 48	2.1	1.0	5.9	149	3/8 sq. dr.	80	15.8
UL-80	5,600	45 - 70	33 - 50	2.5	1.2	6.4	162	3/8 sq. dr.	80	16.8
UL-90	6,000	60 - 100	44 - 74	2.9	1.3	6.6	168	1/2 sq. dr.	82	18.6
UL-100	5,400	80 - 130	59 - 96	3.7	1.7	6.9	175	1/2 sq. dr.	80	20.3
UL-130	4,400	100 - 160	74 - 118	5.1	2.3	7.7	195	1/2 sq. dr.	83	22.7
UL-150	3,800	150 - 230	110 - 313	6.6	3.0	8.4	213	3/4 sq. dr.	-	24.7

UL SERIES INLINE NON SHUT-OFF

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED	TORQUE RANGE		WEIGHT		OVERALL LENGTH		DRIVE	SOUND LEVEL	AIR USAGE
	rpm	Nm	ft-lb	lb	kg	in	mm	in	dB(A)	cfm
UL-30SD	5,700	6 - 12	4.4 - 8.9	1.5	0.7	5.2	131	1/4 hex dr.	75	7.0
UL-30S	5,700	6 - 12	4.4 - 8.9	1.5	0.7	5.3	135	3/8 sq. dr.	75	7.0
UL-40SD	6,100	9 - 20	6.7 - 14.8	1.5	0.7	5.2	131	1/4 hex dr.	75	7.0
UL-40S	6,100	11 - 22	8.1 - 16.3	1.5	0.7	5.5	140	3/8 sq. dr.	75	7.0
UL-50SD	6,500	18 - 28	13.3 - 20.6	1.6	0.74	8.4	214	1/4 hex dr.	78	19.3
UL-50S	6,500	22 - 35	16.3 - 25.9	1.6	0.74	8.2	208	3/8 sq. dr.	78	19.3
UL-60SD	7,000	22 - 35	16.3 - 25.9	1.7	0.77	8.3	212	1/4 hex dr.	80	15.8
UL-60S	7,000	32 - 50	23.7 - 37	1.7	0.77	8.2	209	3/8 sq. dr.	80	15.8
UL-70S	5,700	36 - 60	26.6 - 44.4	2.1	1.0	5.9	149	3/8 sq. dr.	80	15.8

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-100 (D/SD)
All pulse tools ending in "D" include a 1/4" Hex quick-change bit holder.

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

NOTE: Torque ranges reflect residual B joint torque values

OMEGA PULSE TOOLS: ULT SERIES



€

ULT-180

ULT SERIES 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			
ULT-150	3,700	140 - 210	103 - 155	6.4	2.9	9.4	238	3/4 sq. dr.	82	24.5
ULT-150L	3,500	110 - 170	81.4 - 125.8	6.4	2.9	9.4	240	3/4 sq. dr.	82	17.5
ULT-180	3,300	170 - 260	126 - 192	8.1	3.7	10.4	262	3/4 sq. dr.	82	24.5
ULT-180L	3,000	130 - 210	96.2 - 155	8.1	3.7	10.4	264	3/4 sq. dr.	82	17.5

Air Hose Size: 1/2" I.D. for ULT-150 - ULT-180

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

NOTE: Torque ranges reflect residual B joint torque values

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ULT-50C



ULT SERIES ANGLE 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			
ULT-50C	4,500	7.0 - 15.5	5.2 - 11.5	3	1.35	9.8	250	3/8" Sq. Dr.	78	8.6
ULT-50CL	4,500	7.0 - 15.5	5.2 - 11.5	3	1.35	9.8	250	3/8" Sq. Dr.	75	7
ULT-60C	5,200	13 - 28	9.6 - 20.7	3.2	1.45	10.3	261	3/8" Sq. Dr.	80	10.5
ULT-60CL	5,200	13 - 28	9.6 - 20.7	3.2	1.45	10.3	261	3/8" Sq. Dr.	78	8.6
ULT-70C	4,400	20 - 35	14.8 - 25.9	3.6	1.65	10.8	275	3/8" Sq. Dr.	82	12.3
ULT-70CL	4,300	20 - 35	14.8 - 25.9	3.6	1.65	10.8	275	3/8" Sq. Dr.	78	9.5
ULT-70CH	2,500	30 - 50	22.2 - 37.0	4.1	1.85	11.4	290	3/8" Sq. Dr.	82	12.3
ULT-70CHL	2,300	30 - 50	22.2 - 37.0	4.1	1.85	11.4	290	3/8" Sq. Dr.	78	9.5

"L" following model number denotes Low Air Pressure type

"H" within model number denotes High Torque type

NOTE: Torque ranges reflect residual B joint torque values

ACRA-PULSE® SERIES



UXR-T3000S



UXR-T1820



UXR-T1400



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

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED	TORQUE RANGE		OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		SO. DRIVE	NOISE LEVEL	AIR USAGE
	rpm	Nm	ft-lb	mm	in	lb	kg	mm	in	in	dB(A)	cfm
UXR-T700L*	7,500	13 - 26	10 - 19	187	7.3	3.2	1.4	25.5	1.0	3/8	72	10.5
UXR-T700*	7,500	20 - 38	15 - 28	187	7.3	3.2	1.4	25.5	1.0	3/8	72	10.5
UXR-T800	8,300	30 - 45	22 - 33	196	7.7	4.0	1.8	28.0	1.1	3/8	75	12.3
UXR-T900	7,000	35 - 70	25 - 50	202	7.9	4.4	2.0	30.0	1.2	1/2	75	16.0
UXR-T1000	6,800	50 - 90	36 - 65	207	8.1	5.2	2.3	33.0	1.3	1/2	75	17.6
UXR-T1300	6,200	70 - 130	50 - 95	225	8.9	6.2	2.8	36.0	1.4	1/2	79	19.4
UXR-T1400	5,300	100 - 160	75 - 118	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

* UXR-T700 and UXR-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, UXR-T700 becomes UXR-T700TM).

SHUT-OFF 3/4" - 1" DRIVE

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED	TORQUE RANGE		OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		SO. DRIVE	NOISE LEVEL	AIR USAGE
	rpm	Nm	ft-lb	mm	in	lb	kg	mm	in	in	dB(A)	cfm
UXR-T1620	5,000	120 - 210	87 - 150	260	10.2	8.1	3.7	40	1.6	3/4	82	22.9
UXR-T1820	4,400	150 - 250	110 - 180	270	10.6	9.9	4.5	42	1.6	3/4	84	24.7
UXR-T2000	4,000	200 - 400	150 - 290	303	11.9	15.0	6.8	47	1.8	3/4	85	34.0
UXR-T2400S*	3,600	360 - 650	260 - 470	444	17.5	26.4	12.0	62	2.8	1	85	35.2
UXR-T3000S	4,400	450 - 850	330 - 620	477	18.8	32.0	14.5	62	2.8	1	85	37.1

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

ACRA-PULSE® SERIES



PISTOL NON SHUT-OFF 1/4" HEX DRIVE

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED	TORQUE RANGE		OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		NOISE LEVEL dB(A)	AIR USAGE cfm
	rpm	Nm	ft-lb	mm	in	lb	kg	mm	in		
U-350D	10,500	3.5 - 5.8	2.5 - 4.2	155	6.1	1.6	0.8	22	0.9	74	5.3
UX-450D	9,500	8 - 14	5.8 - 10	151	5.9	1.9	0.8	22	0.9	65	7.0
UX-500D	9,300	13 - 20	10 - 15	152	6.0	1.9	0.8	22	0.9	70	8.8
UX-612D	9,300	16 - 28	12 - 20	164	6.4	2.1	0.9	23	0.9	75	11.2
UX-700D	9,000	20 - 36	16 - 28	174	6.7	3.0	1.4	26	1.0	72	12.3

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	TORQUE RANGE		OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		SO. DRIVE	NOISE LEVEL dB(A)	AIR USAGE cfm
	rpm	Nm	ft-lb	mm	in	lb	kg	mm	in	in		
U-410	10,500	7 - 10	5.0 - 7.2	177	7.0	2.2	1.0	22	0.9	3/8	70	5.3
UX-450	9,500	9 - 15	6.5 - 11	148	5.8	1.9	0.8	22	0.9	3/8	65	7.0
UX-500	9,300	15 - 25	11 - 19	148	5.8	1.9	0.8	22	0.9	3/8	70	8.8
UX-612	9,300	20 - 35	15 - 25	160	6.3	2.1	0.9	23	0.9	3/8	75	11.2
UX-700	9,000	25 - 45	20 - 35	169	6.5	3.0	1.4	26	1.0	3/8	73	12.3
UX-800	9,000	35 - 60	25 - 45	176	5.9	3.7	1.7	28	1.1	3/8	73	14.1
UX-900	7,600	45 - 75	35 - 55	181	7.1	4.1	1.9	30	1.2	1/2	75	14.9
UX-1000	6,800	50 - 95	40 - 70	187	7.3	4.8	2.2	33	1.3	1/2	75	17.9
UX-1300	6,200	80 - 130	60 - 95	205	8.1	5.9	2.7	36	1.4	1/2	76	19.4
UX-1400	5,300	100 - 160	75 - 118	224	8.7	7.0	3.2	40	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; ALPHA-130

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	TORQUE RANGE		OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		SO. DRIVE	NOISE LEVEL dB(A)	AIR USAGE cfm
	rpm	Nm	ft-lb	mm	in	lb	kg	mm	in	in		
ALPHA-160	3,700	160 - 270	118 - 198	245	9.6	8.4	3.8	40	1.6	3/4	84	31.7
ALPHA-180	3,500	270 - 350	198 - 258	250	9.8	10.1	4.6	42	1.7	3/4	85	33.6
UX-1620	5,000	120 - 190	90 - 140	241	9.5	7.9	3.6	40	1.6	3/4	82	22.9
UXR-1820	4,600	160 - 250	118 - 185	242	9.5	9.0	4.1	42	1.6	3/4	84	26.3
UXR-2000	4,200	300 - 450	220 - 330	280	11.0	15.0	6.8	47	1.8	3/4	85	31.5
UXR-2000S	4,200	300 - 450	220 - 330	340	13.4	15.4	7.0	47	1.8	3/4	85	31.6
UXR-2400S	4,000	400 - 650	290 - 470	385	15.2	23.7	10.8	55	2.1	1	85	35.2
UXR-3000S	4,400	500 - 850	360 - 630	455	16.6	29.3	13.3	62	2.8	1	85	37.1

Air Hose Size: 3/8 I.D. for UX-1620, ALPHA-140 - ALPHA-160 - 1/2" I.D. for UXR-1820 - UXR-3000S, ALPHA-180

Air Inlet: N.P.T. 1/4 for UX-1620 N.P.T. 3/8 for UXR-1820, UXR-2000(S), Alpha-180 N.P.T. 1/2 for UXR-2400S - UXR-3000S

NOTE: Torque ranges reflect residual B joint torque values Torque Control in Left-Hand Rotation Available (UXR-2000 - UXR-3000S) Inside Trigger Standard (UXR-2000S - UXR-3000S)

ACRA-PULSE® SERIES



UX-ST1000



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	1.7	28	1.1	75	10.5
UX-ST1000	6,300	50 - 90	40 - 65	210	8.3	5.5	2.5	33	1.3	75	16.8

Air Hose Size: 3/8 I.D.

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

NOTE: Torque ranges reflect residual B joint torque values

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	0.7	74	5.3
U-350SD	10,500	3.5 - 5.8	2.5 - 4.2	238	9.4	1.5	0.6	22	0.9	74	5.3
U-410SD	10,500	7 - 10	5 - 7.2	240	9.4	1.8	0.8	22	0.9	69	5.3
UX-450SD	9,500	8 - 14	5.8 - 10	239	9.4	1.8	0.8	22	0.9	69	7.0
UX-500SD	9,300	13 - 20	10 - 15	244	9.6	2.0	0.9	22	0.9	70	8.8
UX-612SD	9,300	16 - 28	12 - 20	253	9.9	2.2	1.0	23	0.9	75	11.1
UX-700SD	9,000	20 - 36	16 - 28	249	9.8	2.8	1.3	27	1.0	78	12.3

Air Hose Size: 1/4 I.D. for U-310SD - UX-500SD - 3/8" I.D. for UX-612SD - 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	0.9	3/8	70	5.3
UX-450S	9,500	9 - 15	6.5 - 11	233	9.2	1.8	0.8	22	0.9	3/8	67	7.0
UX-500S	9,300	15 - 25	11 - 19	239	9.4	2.0	0.9	22	0.9	3/8	70	8.8
UX-612S	9,300	20 - 35	15 - 25	248	9.8	2.2	1.0	23	0.9	3/8	75	11.1
UX-700S	9,000	25 - 45	20 - 35	244	9.6	2.8	1.3	27	1.0	3/8	78	12.3
UX-800S	9,000	35 - 60	25 - 45	250	9.8	3.2	1.5	36	1.4	3/8	75	14.2
UX-900S	7,600	45 - 75	35 - 55	310	12.2	3.9	1.8	38	1.4	1/2	75	14.9
UX-1000S	6,800	50 - 95	40 - 70	320	12.6	4.6	2.1	39	1.4	1/2	75	17.6
UX-1300S	6,200	80 - 130	60 - 95	336	13.2	6.6	2.5	42	1.3	1/2	79	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

ANGLE 3/8" - 1/2" DRIVE

Recommended Air Pressure: 85 psi

MODEL	FREE SPEED rpm	TORQUE RANGE		WEIGHT		OVERALL LENGTH		SQ. DRIVE in	NOISE LEVEL dB(A)	AIR USAGE cfm
		Nm	ft-lb	lb	kg	mm	in			
ALPHA-70C	6,300	25 - 40	18 - 29	3.9	1.8	266	10.5	3/8	82	15.8
ALPHA-70CH	3,600	50 - 76	36 - 56	4.4	2.0	282	11.1	1/2	82	15.8
UX-500C	9,300	13 - 20	10 - 15	2.8	1.3	270	10.6	3/8	82	8.8
UX-612C	9,800	16 - 28	12 - 20	3.0	1.4	283	11.1	3/8	85	11.2
UX-700C	9,500	20 - 36	16 - 28	3.7	1.7	275	10.8	3/8	85	12.3
UX-800C	9,000	29 - 43	20 - 31	4.3	1.9	285	11.2	3/8	85	14.1
UX-1000C	6,800	50 - 80	40 - 58	6.8	3.1	365	14.3	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

UDBP PULSE SERIES CORDLESS TOOLS

The next generation of the 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 LED's 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.



RF



Battery: UB111Li, UB222Li, UB333Li, UB333Li

The lithium-ion battery provides better power-to-weight ratio. It will not be affected by the memory effect caused by the 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)



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		WEIGHT W/BATTERY	LENGTH	DRIVE	SOUND LEVEL	VOLTAGE	BATTERY	CHARGER
			Nm	ft-lb	lb	in	in	dB(A)	V		
UDBP-T4A0	Shut-off	4800	4.5-8	3.3-5.9	3.08	8.18	1/4 Hex	75	11.1	UB111Li	UBC
UDBP-TA40(RF)	Shut-off	4800	4.5-8	3.3-5.9	3.08	8.18	1/4 Hex	75	11.1	UB111Li	UBC
UDBP-TA50	Shut-off	4800	6.5-13	4.8-9.6	3.08	8.18	1/4 Hex	76	11.1	UB111Li	UBC
UDBP-TA50(RF)	Shut-off	4800	6.5-13	4.8-9.6	3.08	8.18	1/4 Hex	76	11.1	UB111Li	UBC
UDBP-TA60	Shut-off	4800	15-28	11.1-20.7	3.74	8.83	1/4 Hex	76	22.2	UB222Li	UBC
UDBP-TA60(RF)	Shut-off	4800	15-28	11.1-20.7	3.74	8.83	1/4 Hex	76	22.2	UB222Li	UBC
UDBP-TA50(P)	Shut-off	4800	7-15	5.1-11.1	3.08	8.07	3/8 Sq.	76	11.1	UB111Li	UBC
UDBP-TA50(P)(RF)	Shut-off	4800	7-15	5.1-11.1	3.08	8.07	3/8 Sq.	76	11.1	UB111Li	UBC
UDBP-TA60(P)	Shut-off	4800	15-28	11.1-20.7	3.74	8.83	3/8 Sq.	76	22.2	UB222Li	UBC
UDBP-TA60(P)(RF)	Shut-off	4800	15-28	11.1-20.7	3.74	8.83	3/8 Sq.	76	22.2	UB222Li	UBC
UDBP-TA70P	Shut-off	4800	26-47	19.2-34.7	4.41	9.21	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)

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

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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	3.3-5.9	3300	7	179.5	2.9	1.35	1/4" Hex
UDP-TA40D-B	4.5-8	3.3-5.9	3300	7.2	182.5	2.9	1.35	3/8" Sq
UDP-TA50-B	7.0-15.5	5.2-11.4	3900	7	179.5	2.9	1.35	1/4" Hex
UDP-TA50D-B	7.0-15.5	5.2-11.4	3900	7.2	182.5	2.9	1.35	3/8" Sq
UDP-TA55-B	12.5-25	9.2-18.4	4800	7.3	184.5	3	1.38	1/4" Hex
UDP-TA55D-B	12.5-25	9.2-18.4	4800	7.4	187.5	3	1.38	3/8" Sq

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

UDP-TA40 (B-TL)	4.5-8	3.3-5.9	3300	7	179.5	2.9	1.35	1/4" Hex
UDP-TA40D (B-TL)	4.5-8	3.3-5.9	3300	7.2	182.5	2.9	1.35	3/8" Sq
UDP-TA50 (B-TL)	7.0-15.5	5.2-11.4	3900	7	179.5	2.9	1.35	1/4" Hex
UDP-TA50D (B-TL)	7.0-15.5	5.2-11.4	3900	7.2	182.5	2.9	1.35	3/8" Sq
UDP-TA55 (B-TL)	12.5-25	9.2-18.4	4800	7.3	184.5	3	1.38	1/4" Hex
UDP-TA55D (B-TL)	12.5-25	9.2-18.4	4800	7.4	187.5	3	1.38	3/8" Sq

OPTIONAL ACCESSORIES

MODEL	DESCRIPTION
UCB-25	Power Cable Balancer
UDP-TA-CBL	Power Cable
910-629-0	Breaker Unit
910-618-0	5M UDP Tool to Breaker Cable
910-619-0	10M UDP Tool to Breaker Cable
910-627-0	5M UDP Extension Cable*
910-628-0	10M UDP to Breaker Cable*

* Extension Cables connect between Tool and Breaker Cables



UCB-25



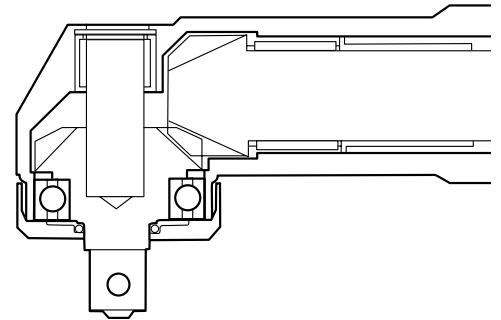
910-629-0

NUTRUNNERS: OVERVIEW

UAN SERIES ANGLE NUTRUNNERS

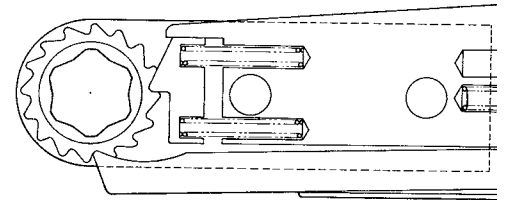
- Torque Control
- Electronically Monitored or Controlled Type

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

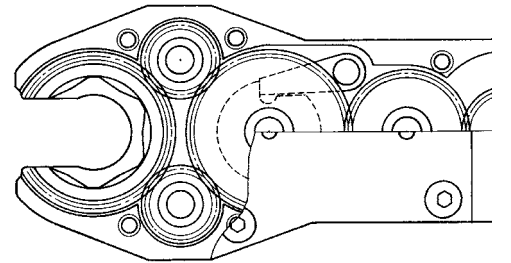
Designed to set flush over the fastener head, the URW Series is ideal for narrow fastening spaces. Motor torque is transferred from a gear driven, dual lobed cam that pushes a spring loaded push rod, rotating the socket one tooth at a time. A wide variety of socket sizes, head thicknesses, and tool lengths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



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 LEVEL 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	47.0	1.9	14.0	0.6	1.6	3.5	3/8	80	21.2
UAN-611R-50C	8.5 - 15.0	5.7 - 10.8	470	373	14.7	47.0	1.9	14.0	0.6	1.6	3.5	3/8	80	21.2
UAN-611R-40C	10.0 - 18.0	7.2 - 12.9	400	373	14.7	47.0	1.9	14.0	0.6	1.6	3.5	3/8	80	21.2
UAN-611R-30C	13.0 - 25.0	9.3 - 18.0	270	373	14.7	47.0	1.9	14.0	0.6	1.6	3.5	3/8	80	21.2
UAN-701R-60C	20.0 - 31.0	14.8 - 22.8	600	445	17.5	47.0	1.9	14.0	0.6	2.4	5.3	3/8	85	31.8
UAN-701R-40C	28.0 - 45.0	20.7 - 33.2	400	455	17.9	51.0	2.0	18.0	0.7	2.4	5.3	3/8	85	31.8
UAN-701R-30C	37.0 - 60.0	27.3 - 44.2	300	455	17.9	60.5	2.4	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/UOW-T SERIES

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		
STALL											
UOW-11-10	12.7	9.4	400	295	11.7	3.1	1.4	7 - 12	1/4 - 7/16	75	12.5
UOW-11-14	15.7	11.6	260	311	12.2	4.0	1.8	10 - 17	3/8 - 5/8	75	12.5
UOW-11-22	23.5	17.4	180	326	12.8	4.0	1.8	13 - 24	1/2 - 7/8	75	12.5
UOW-11-30	31.4	23.1	135	347	13.6	5.5	2.5	17 - 32	5/8 - 1-3/16	75	12.5
SHUT-OFF CLUTCH											
UOW-T60-10	3.9 - 12.7	2.9 - 9.4	300	370	14.6	4.0	1.8	7 - 12	1/4 - 7/16	75	18.0
UOW-T60-14	4.9 - 16.7	3.6 - 12.3	230	385	15.1	4.8	2.2	10 - 17	3/8 - 5/8	75	18.0
UOW-T60-22	6.9 - 23.5	5.1 - 17.4	170	400	15.7	4.8	2.2	13 - 24	1/2 - 7/8	75	18.0
UOW-T60-30	9.8 - 31.4	7.2 - 23.1	130	422	16.6	6.4	2.9	17 - 32	5/8 - 1-3/16	75	18.0
GEARED WRENCHES											
UGW-6N	18	13.3	530	310	12.2	3.1	1.4	9 - 11	3/8 - 7/16	76	22.0
UGW-8N	23	17.0	410	322	12.7	3.3	1.5	12 - 14	3/8 - 5/8	76	22.0

NUTRUNNERS



URW SERIES

Recommended Air Pressure: 85 psi

MODEL	MAX TORQUE		FREE SPEED rpm	OVERALL LENGTH		WEIGHT		MIN/MAX HEX SOCKET SIZE		AIR USAGE cfm
	Nm	ft-lb		mm	in	lb	kg	mm	in	
STRAIGHT HEAD										
URW-6	10.8	7.9	200	292	11.5	2.5	1.1	5.5 - 12	1/4 - 7/16	9.9
URW-8N	15.7	11.6	220	300	11.8	4.0	1.8	6 - 15	1/4 - 9/16	19.5
URW-8	13.7	10.1	240	360	14.2	4.0	1.8	6 - 15	1/4 - 9/16	19.5
URW-9N	31.4	23.1	200	380	15.0	5.0	2.3	6 - 15	1/4 - 9/16	23.7
URW-10N	56.8	41.9	150	394	15.5	5.8	2.6	10 - 19	3/8 - 3/4	25.0
URW-12N	58.8	43.4	150	397	15.6	5.9	2.7	12 - 22	5/16 - 7/8	25.0
URW-12NA	78.4	57.8	100	408	16.1	6.6	3.0	16 - 30	7/16 - 1	25.0
URW-12NB	93.1	68.7	85	416	16.3	7.0	3.2	14 - 33	1/2 - 1-15/16	25.0
BENT HEAD										
URW-60R	10.8	7.9	200	288	11.3	2.5	1.1	5.5 - 12	1/4 - 7/16	9.9
URW-60	10.8	7.9	200	288	11.3	2.5	1.1	5.5 - 12	1/4 - 7/16	9.9
URW-80R	15.7	11.6	220	300	11.9	4.0	1.8	6 - 15	1/4 - 9/16	19.5
URW-80	15.7	11.6	220	300	11.9	4.0	1.8	6 - 15	1/4 - 9/16	19.5
URW-81R	15.7	11.6	220	300	11.9	4.0	1.8	6 - 15	1/4 - 9/16	19.5



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 (2800NM 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.



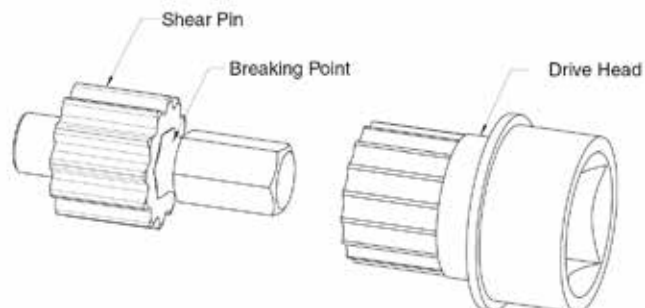
ANTI-WIND UP FEATURE

Standard on models delivering 2800NM 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

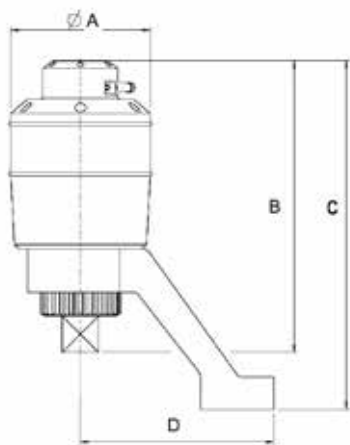
In order to protect the gear system against overload, DynaTorque Multipliers are fitted with a controlled shear-off system (spare torsion shaft included). Sheared off pins can easily be replaced at the work site.



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

ACCESSORIES

CARRYING CASE

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



SCREWDRIVERS: OVERVIEW

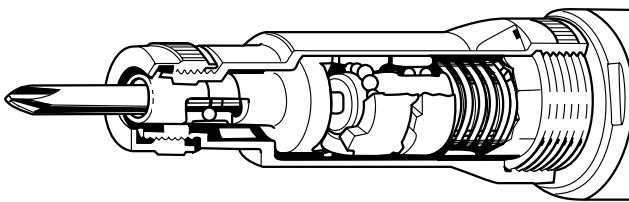
TORQUE CONTROL AUTOMATIC SHUT-OFF TYPE

- 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.



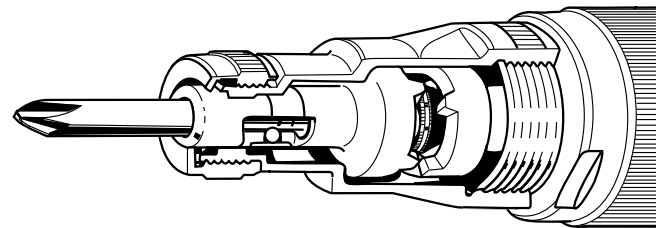
CUSHION CLUTCH TYPE

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



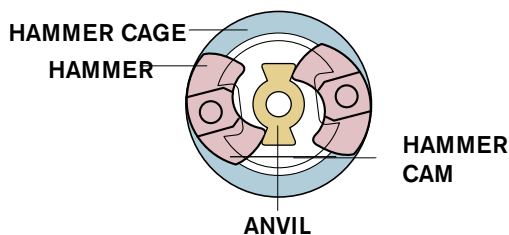
POSITIVE CLUTCH TYPE

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



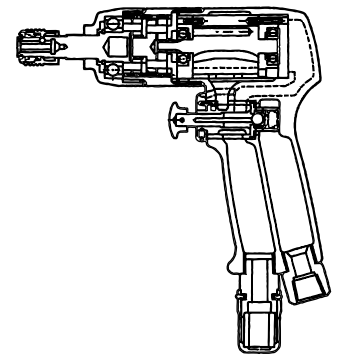
IMPACT TYPE

- 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
Each model is equipped with its standard and alternate clutch springs.

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	0.20 - 0.60	1.8 - 5.3	1,000	190	7.5	0.6	0.3	12	0.5	75	5.2
US-LT20B-10	0.15 - 1.10	1.3 - 9.7	1,000	180	7.1	0.7	0.3	13	0.5	70	5.6
US-LT20B-18	0.15 - 0.70	1.3 - 6.2	1,800	180	7.1	0.7	0.3	13	0.5	70	5.6
US-LT20B-26	0.15 - 0.35	1.3 - 3.1	2,600	180	7.1	0.7	0.3	13	0.5	70	5.6
US-LT30B-11	0.40 - 2.10	3.5 - 18.5	1,100	187	7.2	0.9	0.4	16	0.6	70	7.0
US-LT30B-17	0.40 - 1.50	3.5 - 13.0	1,700	187	7.2	0.9	0.4	16	0.6	70	7.0
US-LT30B-23	0.40 - 1.00	3.5 - 8.7	2,300	187	7.2	0.9	0.4	16	0.6	71	7.0
US-LT40B-08	1.00 - 4.00	8.7 - 34.7	800	209	8.2	1.4	0.6	17	0.6	70	10.5
US-LT40B-15	1.00 - 2.20	8.7 - 19.1	1,500	209	8.2	1.4	0.6	17	0.6	70	10.5
US-LT40B-21	1.00 - 1.70	8.7 - 14.8	2,100	209	8.2	1.4	0.6	17	0.6	74	10.5
US-LT50B-05	1.50 - 10.50	13.2 - 92.4	480	240	9.4	2.2	1.0	20	0.8	74	17.5
US-LT50B-08	1.50 - 5.50	13.2 - 48.4	800	240	9.4	2.2	1.0	20	0.8	75	17.5
US-LT50B-17	1.50 - 2.50	13.2 - 23.0	1,700	240	9.4	2.2	1.0	20	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

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			
ANGLE												
US-LT30B-11C	0.39 - 2.10	3.5 - 18.5	1,100	298	10.7	1.5	0.7	10	0.4	1/4	73	7.0
US-LT30B-17C	0.39 - 1.50	3.5 - 13.2	1,700	295	10.7	1.5	0.7	10	0.4	1/4	73	7.0
US-LT40B-05C	2.26 - 5.60	20.0 - 49.5	500	322	13.0	2.1	0.9	13	0.5	1/4	75	10.5
US-LT40B-08C	0.98 - 3.92	8.7 - 34.7	800	320	12.8	2.0	0.9	10	0.4	1/4	75	10.5
US-LT40B-15C	0.98 - 2.20	8.7 - 19.4	1,500	320	12.8	2.0	0.9	10	0.4	1/4	75	10.5
US-LT40-03C	4.90 - 9.80	43.4 - 86.8	300	360	14.2	2.4	1.1	13	0.5	1/4 Sq.	72	10.5
US-LT40-05C	2.26 - 5.70	20.0 - 50.2	500	322	13.0	2.1	0.9	13	0.5	1/4 Sq.	75	10.5
US-LT40-08C	0.98 - 3.92	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
LEVER												
US-LT30BL-11	0.39 - 2.10	3.5 - 18.5	1,100	229	8.2	1.2	0.5	15	0.6	1/4	70	7.0
US-LT30BL-17	0.39 - 1.47	3.5 - 13.0	1,700	229	8.2	1.2	0.5	15	0.6	1/4	70	7.0
US-LT30BL-23	0.39 - 0.98	3.5 - 8.7	2,300	229	8.2	1.2	0.5	15	0.6	1/4	71	7.0
US-LT40BL-08	0.98 - 4.00	8.7 - 35.2	800	249	9.1	1.5	0.7	17	0.7	1/4	70	10.5
US-LT40BL-15	0.98 - 2.20	8.7 - 19.4	1,500	249	9.1	1.5	0.7	17	0.7	1/4	70	10.5
US-LT40BL-21	0.98 - 1.70	8.7 - 15.0	2,100	249	9.1	1.5	0.7	17	0.7	1/4	74	10.5

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	1.0 - 5.0	8.8 - 44.0	500	189	7.3	1.9	0.8	16.0	0.6	70	7.0
US-LT31PB-11	0.4 - 2.1	3.5 - 18.5	1,100	170	6.7	1.6	0.7	15.5	0.6	70	7.0
US-LT31PB-17	0.4 - 1.5	3.5 - 13.2	1,700	170	6.7	1.6	0.7	15.5	0.6	70	7.0
US-LT31PB-23	0.4 - 1.0	3.5 - 8.8	2,300	170	6.7	1.6	0.7	15.5	0.6	70	7.0
US-LT41PB-08	1.0 - 3.9	8.8 - 34.7	800	175	7.0	1.8	0.8	16.5	0.6	70	10.5
US-LT41PB-15	1.0 - 2.2	8.8 - 19.4	1,500	175	7.0	1.8	0.8	16.5	0.6	70	10.5
US-LT41PB-21	1.0 - 1.7	8.8 - 15.0	2,100	175	7.0	1.8	0.8	16.5	0.6	74	10.5
US-LT51PB-05	1.5 - 10.5	13.2 - 91.2	480	198	8.4	2.6	1.2	19.5	0.7	74	17.5
US-LT51PB-08	1.5 - 5.5	13.2 - 48.4	800	198	8.4	2.6	1.2	19.5	0.7	75	17.5
US-LT51PB-17	1.5 - 2.6	13.2 - 23.0	1,700	198	8.4	2.6	1.2	19.5	0.7	75	17.5
US-LT60-03*	7.0 - 20.0	61.6 - 176.0	320	230	9.0	3.7	1.7	22.0	0.9	75	21.0
US-LT60P-07*	4.0 - 10.0	35.2 - 88.0	650	230	9.0	3.7	1.7	22.0	0.9	76	21.0
US-LT60P-11*	4.0 - 7.0	35.2 - 61.6	1,100	230	9.0	3.7	1.7	22.0	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



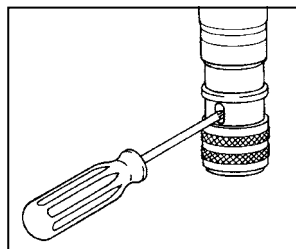
US-LT Series Model

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
		Black (not included)	1.22 - 2.74	10.8 - 24.3	976-504-0
US-LT30 Series, 1700 rpm	Red		0.67 - 1.47	6.1 - 13.0	976-493-0
		Pink	0.39 - 0.98	3.5 - 8.7	976-471-0
US-LT30 Series, 2300 rpm	Pink		0.39 - 0.98	3.5 - 8.7	976-471-0
US-LT40-03C	Red		4.90 - 9.80	43.4 - 86.8	976-516-0
US-LT40 Series, 800 rpm	Black		1.57 - 3.92	13.9 - 34.7	976-515-0
		Red	0.98 - 2.17	8.7 - 19.1	976-516-0
		Yellow	0.98 - 1.67	8.7 - 14.8	976-517-0
US-LT40 Series, 1500 rpm	Red		0.98 - 2.17	8.7 - 19.1	976-516-0
		Yellow	0.98 - 1.67	8.7 - 14.8	976-517-0
US-LT40 Series, 2100 rpm	Yellow		0.98 - 1.67	8.7 - 14.8	976-517-0
US-LT50 Series, 500 rpm	Black		4.9 - 10.3	43.4 - 91.1	976-620-0
		Red	2.9 - 5.4	26.1 - 47.7	976-614-0
		Yellow	1.4 - 2.5	13.0 - 22.6	976-588-0
US-LT50 Series, 800 rpm	Red		2.7 - 5.4	24.3 - 47.7	976-614-0
		Yellow	1.4 - 2.5	13.0 - 22.6	976-588-0
US-LT50 Series, 1700 rpm	Yellow		1.4 - 2.6	13.0 - 23.0	976-588-0

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

DIRECT DRIVE SERIES

Recommended Air Pressure: 85 psi

MODEL	MAX. TORQUE		FREE SPEED		OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		NOISE LEVEL dB(A)	AIR USAGE cfm	
	SOFT JOINT Nm	ft-lb	HARD JOINT Nm	ft-lb	rpm	mm	in	lb	kg	mm			in
PISTOL													
US-LD40P-08	4.8	3.6	5.2	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	6.1	2.0	0.9	20	0.8	74	17.5
US-LD50P-08	6.5	4.8	7.8	5.8	900	153	6.1	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													
US-3.5AGB	1.2	0.9	2.4	1.8	2,000	236	9.3	1.4	0.6	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	TORQUE RANGE		FREE SPEED rpm	OVERALL LENGTH		WEIGHT LESS BIT		FROM CENTER TO OUTSIDE		NOISE LEVEL dB(A)	AIR USAGE cfm
	Nm	in-lb		mm	in	lb	kg	mm	in		
US-3.5PB	1.1 - 2.5	10 - 22	2,000	200	7.9	1.6	0.7	17	0.7	75	7.0
US-3.5B	1.2 - 2.5	11 - 22	2,000	214	8.4	1.4	0.6	17	0.7	75	7.0
US-5	3.4 - 7.7	30 - 68	1,400	258	10.1	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"



UW-6SLRDK

IMPACT SERIES

Recommended Air Pressure: 85 psi

MODEL	TORQUE RANGE		FREE SPEED rpm	OVERALL LENGTH		WEIGHT LESS BIT		FROM CENTER TO OUTSIDE		NOISE LEVEL dB(A)	AIR USAGE cfm
	Nm	ft-lb		mm	in	lb	kg	mm	in		
PISTOL											
US-350PW*	4.2 - 8.3	3.1 - 6.1	16,000	121	4.8	1.2	0.5	17	0.7	82	7.0
US-450PW*			11,000	149	5.9	1.7	0.8	17	0.7	79	7.0
US-652PW*	7.1 - 12.1	5.2 - 8.9	9,300	155	6.1	1.9	0.8	23	0.9	78	8.8
UW-6SL(R)DK	5.7 - 15	4.2 - 11.1	8,500	165	6.5	2.2	1.0	22	0.8	90	10.5
UW-61E(R)DK	14 - 60	10.3 - 44.2	7,500	150	5.3	3.6	1.6	30	1.2	92	12.4
STRAIGHT											
US-450WB*	3.2 - 7.2	2.4 - 5.3	11,000	161	6.3	1.2	0.5	19	0.7	80	7.0
UW-6SSH(R)DK	16 - 36	11.8 - 26	7,300	265	10.4	2.8	1.3	24	0.9	91	12.4

Air Hose Size: 1/4" I.D. for US-350PW, US-450WB & US-652PW - Air Inlet: N.P.T. 1/4"
(R) Denotes Directional Muffled Rear Exhaust option *Recommended air pressure: 57 psi

NOTE: Additional models available. Please contact AIMCO, 1-800-852-1368.
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 Precision Clutch Tools produce the performance required to meet the needs of today's cordless tool applications.

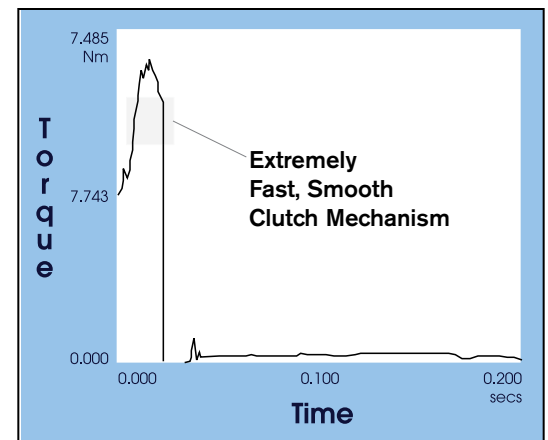
These tools feature Ergonomic handle designs providing the operator with ideal balance and weight as they use the tool. These tools allow for fastening in tight locations at torques up to 9 Foot Pounds (12 NM) in the Pistol Configuration and 25 Foot Pounds (35 NM) in the Angle Nutrunner configurations. 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

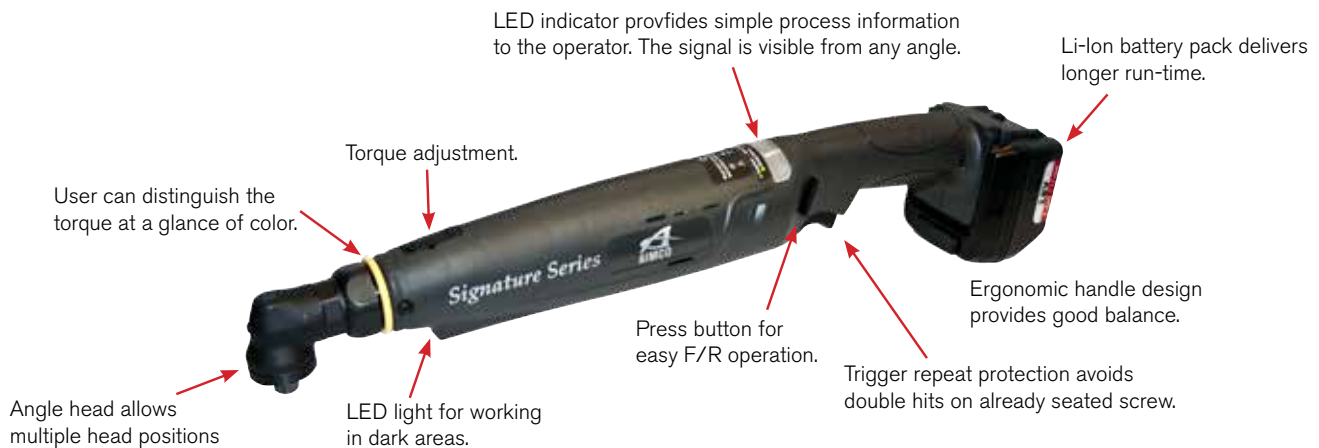
The Signature Series Tool series feature a quick releasing clutch that delivers accuracy across multiple joint types. Each clutch assembly is constructed of precisely machined parts to ensure, not only accuracy, but durability over the lifespan of the tool. In addition to tight tolerances, the driving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

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 tools will deliver the accuracy that 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	
Pistol Grip							
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	.95kg	1/4" hex
Angle Nutrunner							
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

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 charging and battery 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 simplicity and superior charge life and weight. The batteries are all charged by the same charger that 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 insuring durability and ease of swapability when changing batteries for charging.



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) 158.75mm X 127mm X 89mm	1.2Lb/.54kg

TOOL SPEED PROGRAMMER

The Signature Series Precision Cordless tool line features a unique ability to specifically program the running RPM into the tool within that tool's 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 required for the demands of the application. Once flashed, the tool will hold that RPM setting until a change is desired and it is re-flashed regardless of battery changes. 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 allows the operator's hands to be free for other tasks.



SPC-QC

HOLSTERS

For ease in carrying your Signature Series Pistol and Right Angle Tools, and to protect your application, AIMCO offers several holster designs.



SPC-P-HL

BODY JACKETS

MODEL	DESCRIPTION
BJ0082	For Signature Series G2 Pistol Tools
BJ0083	For Signature Series G2 Angle Nutrunners

TOOL BASKETS



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 the bench or rack and can be used for either the Pistol or Right Angle Tools.

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.
- 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.



AE-5681



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.

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 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.
- 1/4" Hex Quick Change Chuck – For easy bit changes.
- External Torque Collar – For easy torque adjustment.



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.

ELECTRIC SCREWDRIVERS

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 ³	3.5 - 15.6	4 - 18.0	1,000	1.2	0.5	9.3	237	1/4	6.4	115V AC ¹
AE-8681 ⁴	15 - 45	23.0 - 51.8	600	1.6	0.7	10.6	269	1/4	6.4	115V AC ¹
LOW VOLTAGE LEVER START SERIES ²										POWER SUPPLY:
AE-2020B	.35 - 1.3	.40 - 1.5	720	0.7	0.3	8.0	203	1/4	6.4	See page 116
AE-4020	.9 - 5	1.0 - 6.0	720	0.7	0.3	8.0	203	1/4	6.4	for required
AE-4520	1.3 - 8.7	1.5 - 10.0	720	0.7	0.3	8.0	203	1/4	6.4	power supplies ²
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 ²										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 116 for
AE-8010PS	10.4 - 26.0	12.0 - 29.9	550	1.4	0.6	9.3	236	1/4	6.4	power supplies ²

- ¹ 220V AC is available upon request. Contact AIMCO at 1-800-852-1368.
- ² Low voltage units require an external power supply.

- ³ AE-5681 includes a torque cover
- ⁴ AE-8681 includes a pistol grip handle adapter

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-5681ESD	3.5 - 15.6	4 - 18.0	1,000	1.2	0.5	9.3	237	1/4	6.4	115V AC ¹
AE-4520ESD ²	1.3 - 8.7	1.5 - 10.0	720	0.9	0.4	8.0	204	1/4	6.4	35V DC

- ¹ 220V AC is available upon request. Contact AIMCO at 1-800-852-1368.
- ² Low voltage units require an external power supply.

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	110V/120VAC ¹

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

PRECISION SERIES

MODEL	TORQUE RANGE		FREE SPEED rpm	WEIGHT		LENGTH		HEX DRIVE in
	in-lb	kgf-cm		lb	kg	in	mm	
STANDARD								
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
HIGH SPEED								
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
EXTENDED LIFE								
AE-6300M	1.0 - 5.5	1.1 - 6.3	550	0.9	0.4	8.5	216	1/4

POWER SUPPLIES

MODEL	FEATURE	DIMENSIONS		WEIGHT	
		in	mm	lb	kg
STANDARD AND HIGH SPEED					
AE-24PS	Standard PS	2.6 x 1.6 x 5.0	66 x 14 x 127	1.0	0.5
APS-35W	Variable Speed / Soft Start	2.6 x 1.6 x 5.0	66 x 14 x 127	1.0	0.5
EXTENDED LIFE					
APM-30	Extended Life PS	2.1 x 3.4 x 1.9	53 x 87 x 48	0.4	0.2

ELECTRIC SCREWDRIVERS



APS-35W



AE-24PS and AE-278PS

ELECTRA SERIES ACCESSORIES - POWER SUPPLIES

MODEL	COMPATIBLE SCREWDRIVERS	TOOL RPM	VOLTAGE CONVERSION	DIMENSIONS (LB)	WEIGHT (KG)
AE-24PS	AE-2020B 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-35	AE-2020B 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 / 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 / 35V 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).



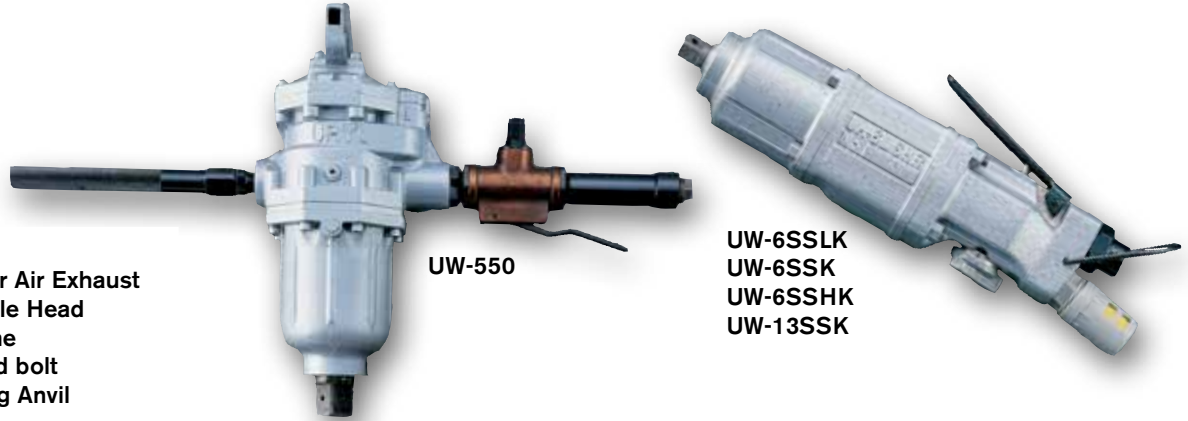
FASTENER COUNTER

Verifies and error-proofs assembly process.

OPTIONAL ACCESSORIES

ITEM	MODEL	COMPATIBLE SCREWDRIVERS
Angle Head Attachments	AE-2045A AE-7080A	For AE-2020B, 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-2020B, 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



KEY
R: Rear Air Exhaust
C: Angle Head
SS: Inline
ST: Stud bolt
L: Long Anvil

UW-550

UW-6SSLK
UW-6SSK
UW-6SSHK
UW-13SSK

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

Recommended Air Pressure: 85 psi

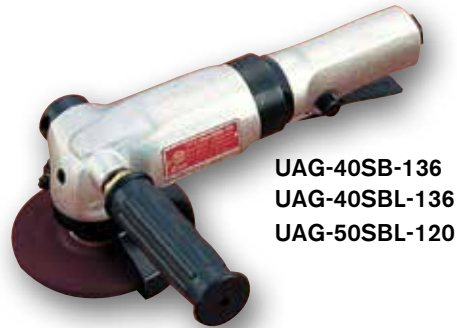
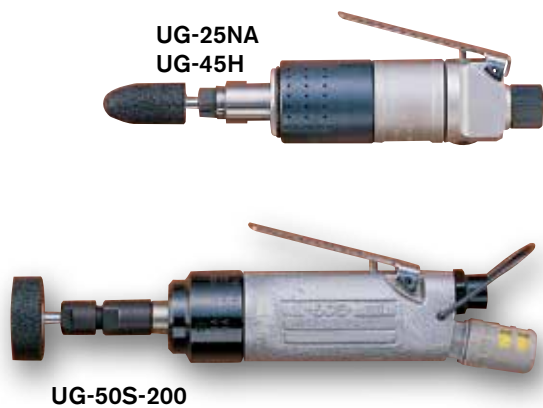
MODEL	CAPACITY		SPEED rpm	OVERALL LENGTH		WEIGHT		FROM CENTER TO OUTSIDE		SQ. DR. OR HEX SIZE in	NOISE LEVEL dB(A)	AVERAGE AIR CONSUMPTION cfm
	mm	in		mm	in	kg	lb	mm	in			
UW-6SLRDK	6	1/4	8,500	169	6.6	1.4	3.1	31.0	1.2	1/4	91	10.5
UW-6SLK	6	1/4	8,500	165	6.5	1.0	2.1	22.0	0.8	1/4	92	10.5
UW-6SSLK	6	1/4	8,500	202	7.9	0.9	2.0	22.0	0.8	1/4	91	10.5
UW-6SSDK	6	1/4	7,500	194	7.6	1.0	2.2	28.0	1.1	1/4	91	10.5
UW-6SSHDK	6	1/4	8,500	202	7.9	0.9	2.0	22.0	0.8	1/4	91	10.5
UW-6SSLRDK	6	1/4	8,500	202	7.9	0.9	2.0	22.0	0.8	1/4	91	10.5
UW-6SSRK	6	1/4	7,500	201	7.9	1.0	2.1	29.5	1.2	3/8	90	10.5
UW-6SL(R)K	6	1/4	6,500	260	10.2	1.1	2.5	31.0	1.2	3/8	92	10.5
UW-6CSK	6	1/4	7,500	271	10.7	1.4	3.1	22.0	0.8	3/8	94	10.5
UW-6CSLRK	6	1/4	8,000	238	8.3	1.2	2.6	14.0	0.6	3/8	93	10.5
UW-6SK	6	1/4	7,500	160	6.3	1.2	2.7	22.0	0.8	3/8	93	10.5
UW-6SSHK	8	5/16	7,500	211	8.3	1.3	2.8	24.0	0.9	1/4	92	12.4
UW-6SSHRDK	8	5/16	7,300	238	9.4	1.3	2.9	29.5	1.2	1/4	91	12.4
UW-6SSHRK	8	5/16	7,300	228	8.9	1.3	2.8	29.0	1.1	3/8	91	12.4
UW-61E(R)K	8	5/16	7,300	154	6.0	1.5	3.3	29.5	1.2	3/8	91	12.4
UW-6CSH(R)K	8	5/16	7,300	256	10.1	1.7	3.8	27.5	1.1	3/8	94	10.5
UW-6T6SHK	8	5/16	6,500	170	6.7	1.7	3.7	24.0	1.0	3/8	92	14.0
UW-6SH(R)K	8	5/16	7,300	172	6.8	1.6	3.4	31.0	1.2	1/2	93	14.0
UW-9CSK	10	3/8	7,000	338	13.3	2.8	6.1	34.0	1.3	1/2	95	12.4
UW-9SRK	10	3/8	7,000	173	6.8	1.8	3.9	27.5	1.1	1/2	93	16.0
UW-9SK	10	3/8	7,000	185	7.2	1.8	4.0	34.0	1.3	1/2	95	17.6
UW-9SSK	10	3/8	7,000	290	11.4	2.1	4.6	34.0	1.3	1/2	95	16.0
UW-140P(WR)	12	1/2	6,500	190	7.5	2.7	5.9	30.0	1.2	1/2	93	25.0
UW-10SH(R)K	12	1/2	6,000	197	7.8	2.1	4.7	30.5	1.2	1/2	95	16.0
UW-13CSK	13	1/2	6,500	375	14.8	5.2	11.4	39.0	1.5	1/2	97	26.5
UW-13S(R)K	13	1/2	6,000	205	8.1	2.6	5.7	37.5	1.5	1/2	95	16.0
UW-13SSK	13	1/2	6,300	303	11.9	3.2	7.0	34.0	1.3	1/2	97	19.4
UW-131ERK	13	1/2	5,500	210	8.3	3.0	6.5	37.5	1.5	1/2	97	19.4
UW-220P(L)	19	3/4	5,500	225	8.9	4.4	9.6	42.0	1.7	3/4	95	25.0
UW-251P	25	1	5,500	275	10.8	8.0	17.6	51.5	2.0	1	95	28.0
UW-381	38	1-1/2	4,700	355	13.0	9.5	20.9	58.5	2.3	1	100	31.5
UW-381P(L)	38	1-1/2	4,700	425	16.8	10.0	22.0	58.5	2.3	1	99	31.5
UW-401(L)	38	1-1/2	3,200	421	16.6	15.1	33.2	62.5	2.5	1	110	42.4
UW-550	56	2-1/4	3,500	525	20.7	36.0	79.2	78.0	3.1	1-1/2	112	79.0
UW-75S	76	3	1,400	668	26.3	56.0	123.0	91.0	3.6	1-1/2	112	114.0

Air Hose Size: 3/8" I.D. (UW-6 - 140P)
 1/2 I.D. (UW-220P(L))
 3/4 I.D. (UW-75S)

Air Inlet: N.P.T. 1/4" (UW-6 - 140P)
 N.P.T. 3/8 (UW-220P(L))
 N.P.T. 1 (UW-75S)

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

GRINDERS AND SANDERS



UAG-40SB-136
UAG-40SBL-136
UAG-50SBL-120

GRINDERS

Recommended Air Pressure: 85 psi

MODEL	CAPACITY (WHEEL SIZE) in	SPEED rpm	RATED HORSEPOWER hp	OVERALL LENGTH		OVERALL HEIGHT		WEIGHT		NOISE LEVEL dB(A)	AVERAGE AIR CONSUMPTION cfm
				mm	in	mm	in	kg	lb		
UAG-40SB-136	4	13,600	0.5	208	8.2	76	3.0	1.5	3.3	84	34.0
UAG-40SBL-136	4	13,600	0.5	246	9.7	76	3.0	1.3	2.9	84	34.0
UAG-50SBL-109	5	10,900	0.5	246	9.7	76	3.0	1.6	3.5	82	34.0
UAG-50SBL-120	5	12,000	0.5	246	9.7	76	3.0	1.4	3.1	82	34.0
UAG-70SBL-76	7	7,600	1.1	300	11.8	98	3.9	2.9	6.4	83	57.0
UAG-90SBL-59	9	5,900	1.4	308	12.1	98	3.9	3.3	7.3	88	67.0
VG6-45	6	4,500	1.7	-	-	196	7.7	4.6	10.1	89	77.7
VG6-59	6	5,900	1.7	-	-	196	7.7	4.6	10.1	89	77.7
VG7-59	7	5,900	1.7	-	-	179	7.0	4.3	9.5	89	81.0
VG7-76	7	7,600	1.7	-	-	179	7.0	4.3	9.5	89	81.0
VG9-59	9	5,900	1.7	-	-	179	7.0	4.6	10.1	87	81.0

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) in	COLLET CHUCK SIZE in	SPEED rpm	RATED HORSEPOWER hp	OVERALL LENGTH		WEIGHT		NOISE LEVEL dB(A)	AVERAGE AIR CONSUMPTION cfm
					mm	in	kg	lb		
UG-25NA	-	1/4	25,000	.20	153	6.0	0.5	1.2	82	10.7
UG-38N	-	1/4	25,000	.25	164	6.5	0.6	1.3	85	10.7
UG-38NA	-	1/4	20,000	.25	165	6.5	0.7	1.4	75	14.0
UG-38NL	-	1/4	25,000	.25	330	13	0.9	2.0	85	10.7
UG-38NS	-	1/4	25,000	.25	168	6.6	0.6	1.3	85	10.7
UG-50S-200	-	1/4	20,000	.20	198	7.8	0.6	1.3	73	14.0
UG-60S-29	-	1/4	25,000	.50	227	8.9	1.1	2.3	77	18.0
UG-45H	-	1/4	18,000	.30	196	7.7	0.8	1.8	76	22.0
UG-20A-200	-	1/4	20,000	.15	131	5.2	0.5	1.1	75	10.7
UG-20A-120	-	1/4	12,000	.15	131	5.2	0.5	1.1	75	10.7
UG-50S-200A	-	1/4	20,000	.20	195	7.7	0.9	2.0	76	10.7
UG-65EB	2.5	-	14,600	.30	242	9.8	1.3	2.8	95	22.0
UG-65EL	2.5	-	14,600	.30	272	10.7	1.4	3.1	95	22.0
UG-65ER	2.5	-	14,600	.30	271	10.7	1.5	3.3	85	22.0
UG-65EBL	2.5	-	14,600	.30	272	10.7	1.4	3.1	95	22.0
UG-65OEL	2.5	-	14,600	.30	420	16.5	1.6	3.4	85	22.0
UG-1250L-72	5	-	7,200	.55	436	17.2	2.8	6.2	88	32.7
UP-25DB	5	-	9,000	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	0.8	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	214	8.4	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	212	8.3	1.8	4.0	26.0	1.0	1/2	1/2-20UNF	79	23
UD-80-07	13	1/2	700	242	9.5	2.3	5.1	26.0	1.0	1/2	1/2-20UNF	79	23
UD-80-04	13	1/2	400	265	10.4	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	0.8	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	18
UD-60S-29	8	5/16	2,900	227	8.9	1.0	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	2.6	22.5	0.9	5/16	3/8-24UNF	76	23
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.	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	4.2	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	5.0	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	190	7.5	1.4	3.1	12.7	0.5	100	4.0	95	13.0
BRH-5US(R,H)*	1/4	3/16	1,800	248	9.8	1.5	3.2	12.7	0.5	100	4.0	95	13.0
BRH-5UG(R,H)*	1/4	3/16	1,800	255	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	162	6.4	1.4	3.0	14.3	0.6	38	1.5	91	12.0
BRH-5UV(R,H)*	1/4	3/16	1,800	227	9.0	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	190	7.5	1.6	3.6	19.1	0.75	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

MODEL	BLOW POWER	RIVET SET DIA. x LENGTH	SHANK DIA.		STROKE		LENGTH		WEIGHT	
	lb		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-20	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	106	-	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

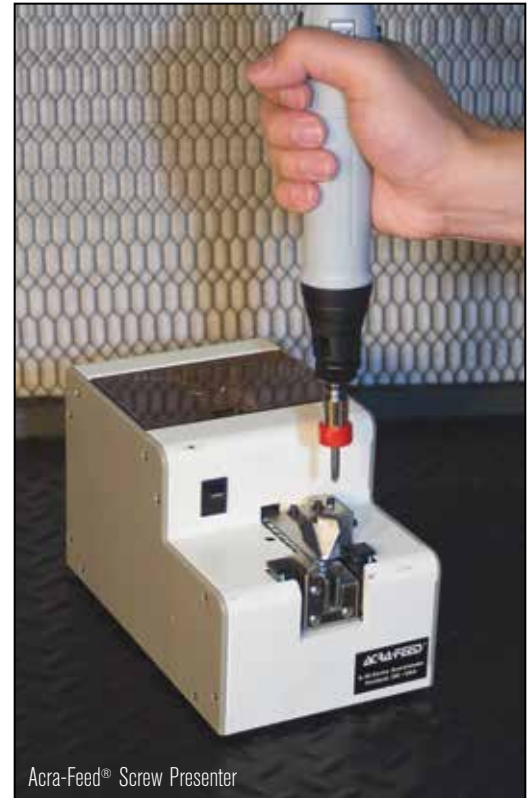
- Allows for fewer arm and hand movements.

RELIABILITY

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

QUALITY

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



Acra-Feed® Screw Presenter

ACRA-FEED®

FASTENING IN 3 EASY STEPS



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



2 Address screw with magnetized bit.

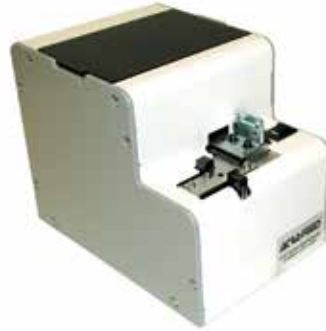


3 Bring screw to workpiece and fasten parts.

A-50 SCREW PRESENTERS



ROBOTIC



COMPACT ROBOTIC



STANDARD

STANDARD SCREW PRESENTERS

MODEL	ADDITIONAL RAIL	SCREW SIZE		MAX. SCREW LENGTH	
		Part No	in	mm	in
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	SCREW SIZE		MAX. SCREW LENGTH	
		Part No	in	mm	in
A-50ARBT-0	AR-RBT-0	#0	1.4	.39	10
A-50ARBT-1.7	AR-RBT-1.7	-	1.7	.39	10
A-50BRBT-1	BR-RBT-1	#1	2.0	.70	18
A-50BRBT-2	BR-RBT-2	#2	2.3	.70	18
A-50BRBT-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	NOMINAL SCREW SIZE		MAX. SCREW LENGTH	
		Part No.	in	mm	in
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.



A-2100



A-315V

MODEL	APPLICABLE SCREWS	SCREW LENGTH in mm	HOPPER CAPACITY	MAX. FASTENING SPEED	WEIGHT lb	DIMENSIONS l x w x h (in)
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

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 to TW-70 Series

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.



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	NM
AIR CYLINDER SERIES								
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
OIL CYLINDER SERIES								
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

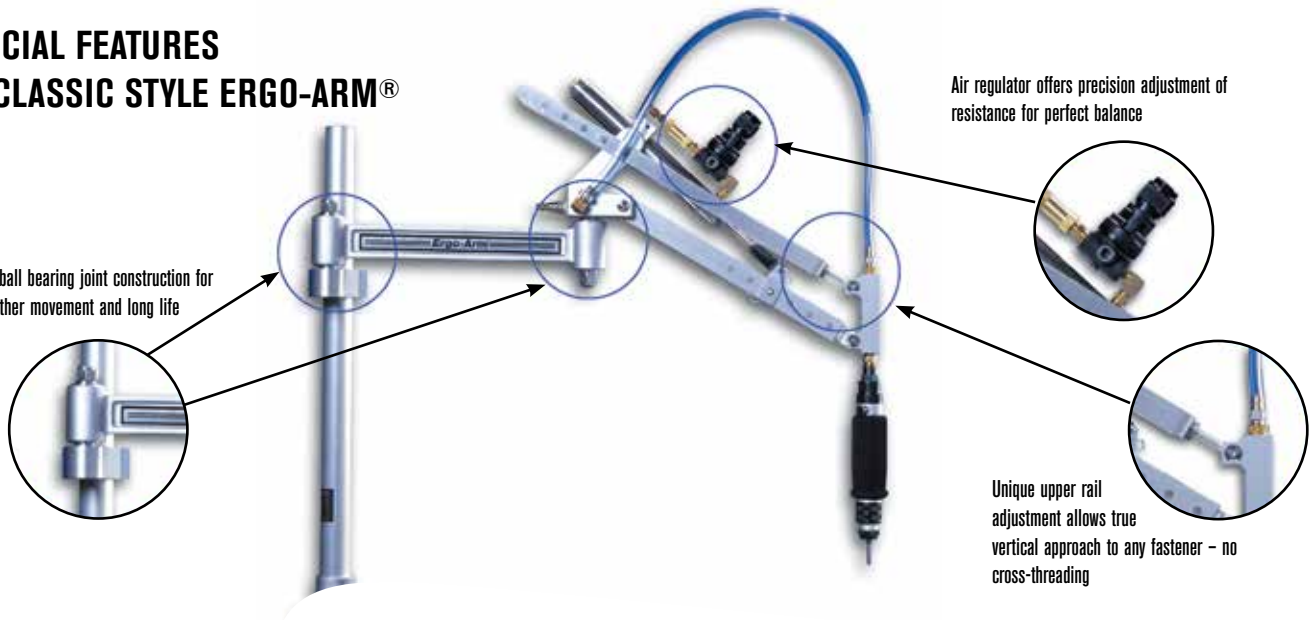
** For single arm electric tool mount, order EAP-202ED-KIT

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.

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.

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.

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	23	58	3-10	1.4-4.5	25	34	36	91.4	1.6	4.1
LQ-0024H	Heavy Duty Arm	23	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



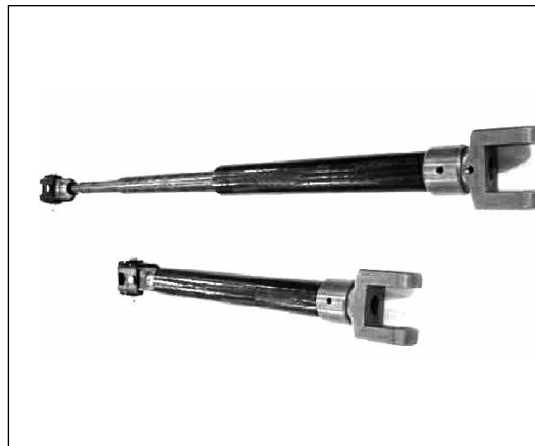
Torque Tube

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

CARBON TORQUE ARMS

- With the Carbon Torque Arm, the assembly operation will be smooth and comfortable since the arm is absorbing the torque reaction generated by the tool.
- The Carbon Arm are ergonomics and easy to use, thanks to the telescopic design which allow maximum freedom of movement and flexibility.
- Extremely durable and require no maintenance.



PART #	MAX TORQUE NM	MIN. LENGTH MM	MAX LENGTH MM
CLL10-1000	10	500	1,000
CLR55-1230	55	570	1,230
CLR55-2000	55	760	1,800
CLR55-2500	55	970	2,430
CLR100-1230	100	570	1,230
CLR100-2000	100	760	1,800
CLR100-2500	100	970	2,430
CLR150-1230	150	570	1,230
CLR150-2000	150	760	1,800
CLR150-2500	150	970	2,430
CLR220-1230	220	570	1,230
CLR220-2000	220	760	1,800
CLR220-2500	220	970	2,430

TOOL HOLDERS

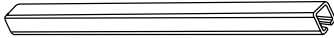
PART #	DESCRIPTION
CLR55-110P	Pistol Mount CLR55
CLR55-110PQ	Pistol Mount , Quick Change CLR55
CLR55-110A	Angle Mount CLR55
CLR55-110AQ	Angle Mount, Quick Change CLR55
CLR55-110AS	Angle Mount, Swivel CLR55
CLR100-200P	Pistol Mount CLR100
CLR100-200PQ	Pistol Mount, Quick Change CLR100
CLR100-200A	Angle Mount CLR100
CLR100-200AQ	Angle Mount, Quick Change CLR100
CLR100-200AS	Angle Mount, Swivel CLR100
CLR220-300P	Pistol Mount CLR160/220
CLR220-300PQ	Pistol Mount, Quick Change CLR160/220
CLR220-300A	Angle Mount CLR160/220
CLR220-300AQ	Angle Mount,Quick Change CLR160/220
CLR220-300AS	Angle Mount,Swivel CLR160/220

WORKSTATION COMPONENTS AND ASSEMBLIES

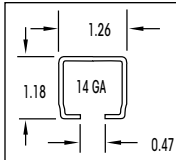
COMPONENTS

TRACK

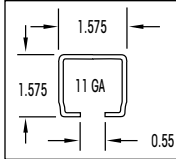
Steel with beige polyester finish. Use for vertical and horizontal workstation support.



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



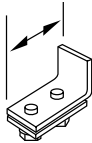
TRACK NUT (ATN-3/5)

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.



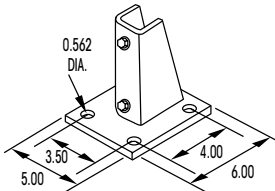
END STOP (AES-3/5)

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



MOUNTING PLATE (AMP-5)

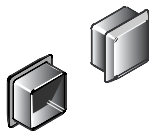
Black polyester finish. Use as a base to mount vertical uprights.



END CAP (AEP-3/5)

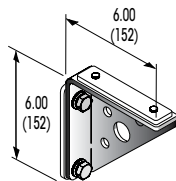
Black molded vinyl. Use to cap track ends for a professional finish.

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



ANGLE BRACKET (AB-3/5)

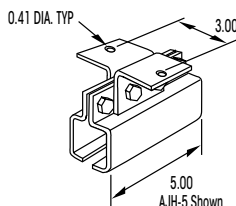
Black polyester finish. Use to mount horizontal track to vertical track. Fits both 50 lb. and 30 lb. track.



JOINT HANGER BRACKET (AJH-3/5)

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

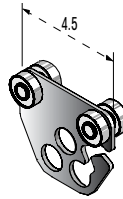
- AJH - 3 for 30 lb. track
- AJH - 5 for 50 lb. track



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.

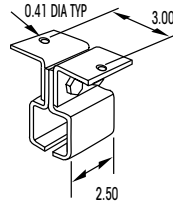
- ABT-3 for 30 lb track (1.00 dia)
- ABT-5 for 50 lb track (1.25 dia)



HANGER BRACKET (AHB-3/5)

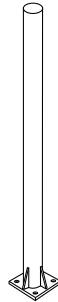
Black polyester finish. Use to suspend track at right angle.

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



VERTICAL COLUMN (AVC-5*)

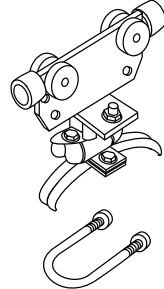
Beige polyester finish, 3" diameter x 9 ft upright steel column with welded base. Use as floor mount for extra stability with jibs or workstation components.



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



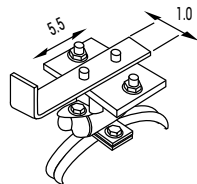
U-BOLTS (AUB-5)

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



END CLAMP (AEC5-2)

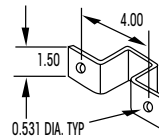
Black polyester finish. Use as end stop with hose carrier for festoon. Cable/hose OD .60-.94.



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



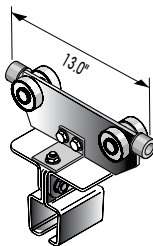
TOOL CLIP (SH-5)

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



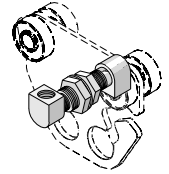
ROLLING HANGER (ABT5-R)

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.



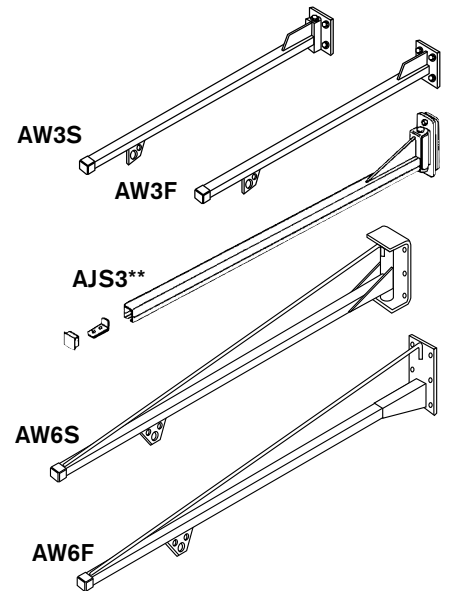
WALL AND FLOOR MOUNTED JIBS

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

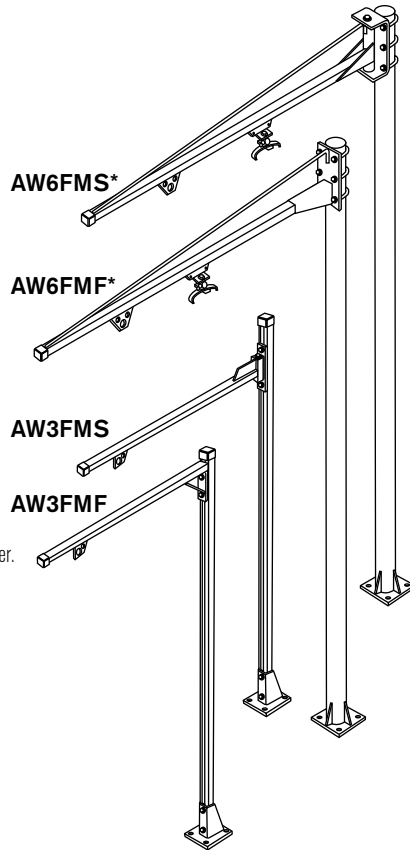
**FLOOR MOUNTED
3 FT. SWINGING JIB
(AW3FMS)**

**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

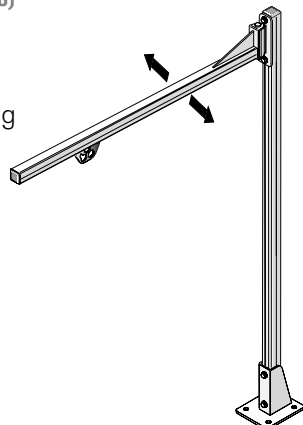
Units include end stop,
balancer trolley and intermediate carrier.



AIMCO TOOL SUPPORT ARMS

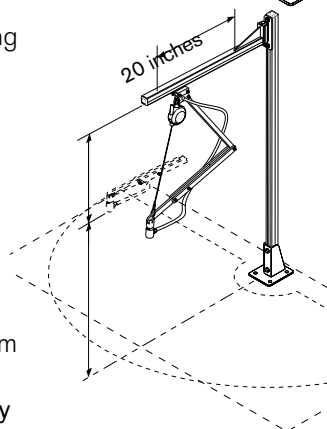
**BENCH MOUNTED SWINGING JIB (JJ30-S)
BENCH MOUNTED FIXED JIB (JJ30)**

- 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



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

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.



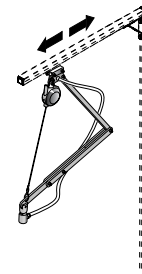
AIMCO BASIC WORKSTATION KIT (ATW-50)

- 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.

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.



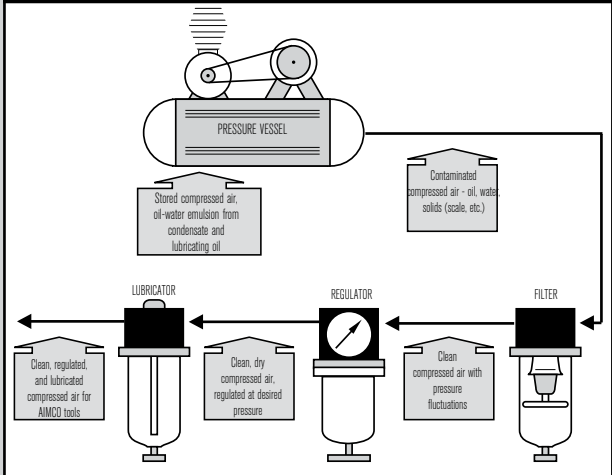
AFRL-3



AFRL-2-C

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

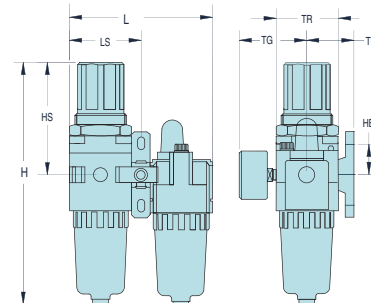


To determine unit size for application, you will need to know:

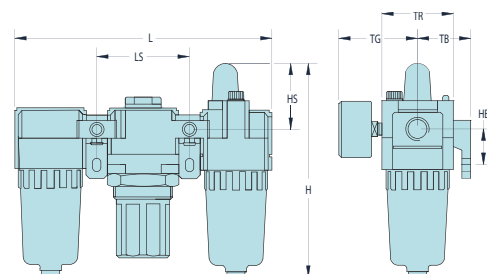
- Total air flow (CFM) required for application.
- Size of incoming air line.
- Size of air line required by tool.
- Air supply pressure (PSI).
- Allowable pressure drop.
- Does the application requires lubrication?
- Does the overall system have the required capacity?

MODEL	PORT	GAUGE PORT	FLOW RATE	BOWL SHIELD	
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)



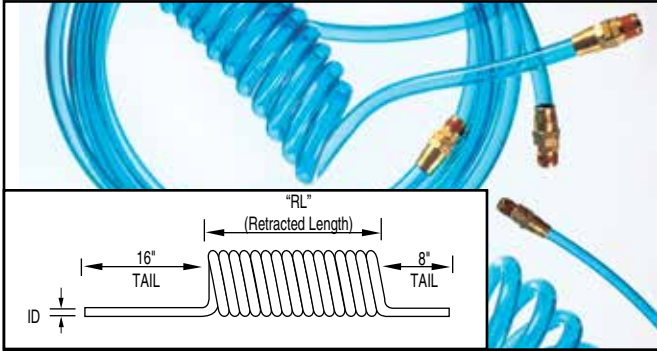
AFRL-2-C
AFRL-3-C



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 100PSI	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:

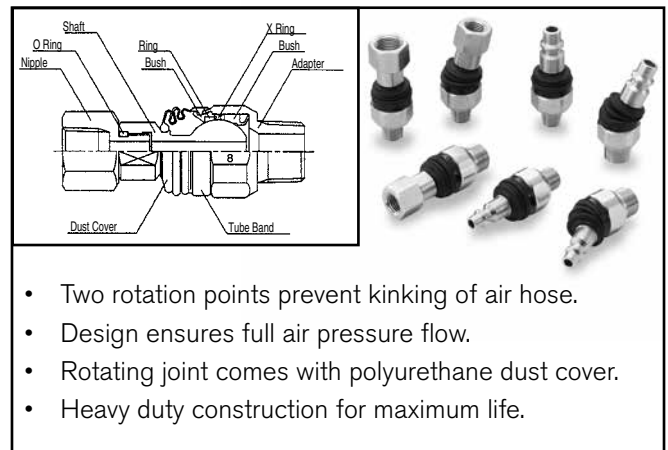
- Use recommended ID air hose and fittings.
- Replace air hose regularly to help maintain clean air.
- A clear hose allows you to see water or dirt accumulation in hose.
- Use correct length of hose to reduce air loss and pressure drop.
- Use locking quick disconnect couplers for additional safety.

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
208P-6-4	1/4 NPT F x 3/8 NPT M Bushing
208P-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

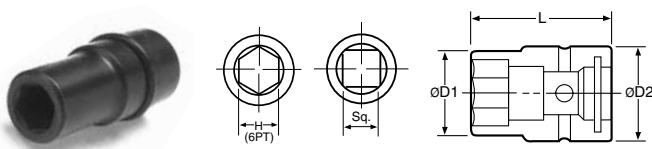
STANDARD FASTENER TOOLS

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 all your fastener needs. If 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
3/8" Square Drive							
A31/4	1/4"	10	0.39	19	0.75	34	1.34
A35/16	5/16"	12	0.47	19	0.75	34	1.34
A33/8	3/8"	15	0.59	19	0.75	34	1.34
A306	6 mm	10	0.39	19	0.75	34	1.34
A307	7 mm	13	0.49	20	0.79	32	1.26
A308	8 mm	14	0.55	20	0.79	32	1.26
3/8" Square Drive, Deep							
A307-2	7 mm	13	0.49	20	0.79	50	1.97
A307-2.75	7 mm	13	0.49	20	0.79	70	2.76
A308-2	8 mm	14	0.55	20	0.79	50	1.97
3/8" Square Drive, Magnetic							
A31/4MP	1/4"	10	0.39	19	0.75	34	1.34
A35/16MP	5/16"	12	0.47	19	0.75	34	1.34
A33/8MP	3/8"	15	0.59	19	0.75	34	1.34
A308MP	8 mm	14	0.55	20	0.79	32	1.26
A310MP	10 mm	17	0.65	20	0.79	32	1.26
A311MP	11 mm	17	0.65	19	0.75	34	1.34
1/2" Square Drive							
A43/8	3/8"	16	0.63	25	0.98	38	1.50
A47/16	7/16"	18	0.69	25	0.98	38	1.50
A41/2	1/2"	19	0.75	25	0.98	50	1.97
A408	8 mm	16	0.61	25	0.98	40	1.58
A409	9 mm	16	0.63	25	0.98	40	1.58
A410	10 mm	18	0.69	25	0.98	40	1.58
1/2" Square Drive, Deep							
A43/8-3.25	3/8"	17	0.67	25	0.98	82	3.23
A47/16-3.25	7/16"	19	0.73	25	0.98	82	3.23
A41/2-3.25	1/2"	22	0.85	25	0.98	82	3.23
A410-2	10 mm	18	0.69	25	0.98	50	1.97
A410-3	10 mm	18	0.69	25	0.98	75	2.95
A410-3.25	10 mm	17	0.67	25	0.98	82	3.23
A411-3.25	11 mm	19	0.73	25	0.98	82	3.23

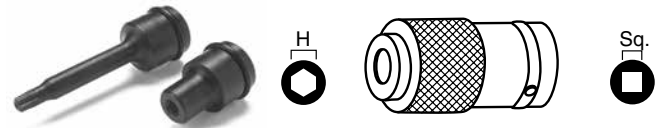
Part No	Hex	D1 mm	D1 in	D2 mm	D2 in	L mm	L in
1/2" Square Drive, Magnetic							
A408MP	8 mm	16	0.61	25	0.98	40	1.58
A410MP	10 mm	18	0.69	25	0.98	40	1.58
A412MP	12 mm	21	0.81	25	0.98	40	1.58

Part No	Hex	D1 mm	D1 in	D2 mm	D2 in	L mm	L in
3/4" Square Drive							
A611/16	11/16"	30	1.18	44	1.73	50	1.97
A63/4	3/4"	32	1.26	44	1.73	50	1.97
A613/16	13/16"	35	1.38	44	1.73	50	1.97
A614	14 mm	24	0.95	38	1.50	55	2.17
A616	16 mm	27	1.06	44	1.73	50	1.97
A617	17 mm	30	1.18	38	1.50	55	2.17

Part No	Hex	D1 mm	D1 in	D2 mm	D2 in	L mm	L in
3/4" Square Drive, Deep							
A611/16-4	11/16"	31	1.22	44	1.73	100	3.94
A63/4-4	3/4"	33	1.30	44	1.73	100	3.94
A613/16-4	13/16"	36	1.42	44	1.73	100	3.94
A617-4	17 mm	31	1.22	44	1.73	100	3.94
A618-4	18 mm	32	1.26	44	1.73	100	3.94
A619-4	19 mm	33	1.30	38	1.50	100	3.94

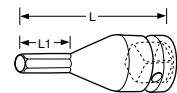
Part No	Hex	D1 mm	D1 in	D2 mm	D2 in	L mm	L in
1" Square Drive							
A87/8	7/8"	37	1.46	54	2.13	59	2.32
A815/16	15/16"	38	1.50	54	2.13	59	2.32
A81	1"	41	1.61	54	2.13	59	2.32
A817	17 mm	31	1.22	50	1.97	63	2.48
A819	19 mm	33	1.30	50	1.97	63	2.48
A821	21 mm	37	1.46	50	1.97	63	2.48

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

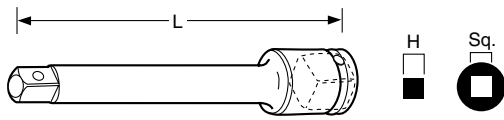


Part No	Hex	L1 mm	L1 in	L mm	L in
3/8" Square Drive					
A31/4C	1/4"	10	0.39	42	1.65
A304C	4 mm	10	0.39	42	1.65
1/2" Square Drive					
A41/4C	1/4"	25	0.98	50	1.97
A405C	5 mm	25	0.98	50	1.97

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

STANDARD FASTENER TOOLS

EXTENSIONS



Part No	Square 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

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

BIT HOLDERS



Part No	L mm	L in
1/4" Hex, Magnetic		
A3BHM-3	75	2.94
A3BHM-4	100	3.94
A3BHM-6	150	5.91
A3BHM-8	200	7.87
A3BHM-10	250	9.84

UNIVERSAL SOCKETS



Part No	Hex	D1 mm	D1 in	D2 mm	D2 in	L mm	L in
3/8" Square Drive							
A310U	10 mm	16	0.63	20	0.79	55	2.17
A311U	11 mm	16	0.63	20	0.79	60	2.36
1/2" Square Drive							
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

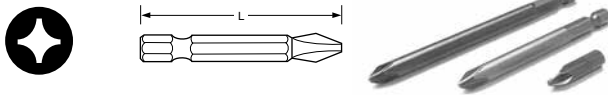
BITS

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.

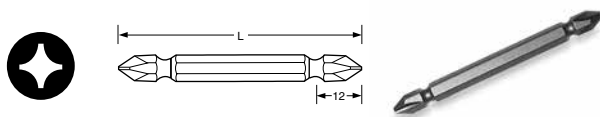
STANDARD FASTENER TOOLS

PHILLIPS POWER BITS



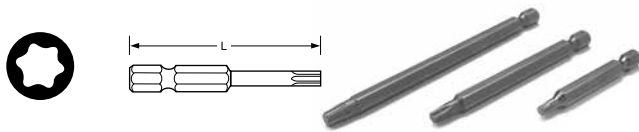
Part No	Point Size	L mm	L in
A3S0-2	0	50	1.97
A3S1-2	1	50	1.97
A3S1-2.75	1	70	2.76
A3S1-3	1	75	2.95
A3S1-3.5	1	90	3.54
A3S1-4	1	100	3.94
A3S1-6	1	150	5.91
A3S2-1.2	2	30	1.18
A3S2-1.6	2	40	1.57
A3S3-2	3	50	1.97
A3S3-2.75	3	70	2.76

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



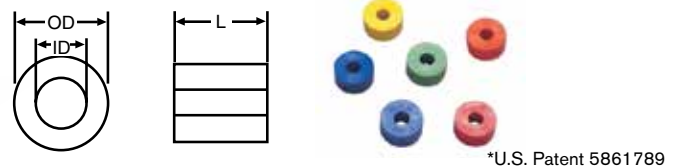
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A3T6-2	T6	50	1.97
A3T7-2	T7	50	1.97
A3T7-2.75	T7	70	2.76
A3T7-3.5	T7	90	3.54
A3T7-6	T7	150	5.91
A3T8-2	T8	50	1.97
A3T9-2.75	T9	70	2.76

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®*



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.

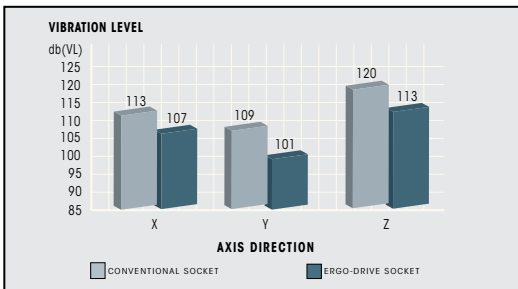
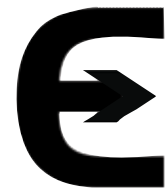
ERGO-DRIVE® SERIES

ERGO-DRIVE® SOCKETS PROTECT...



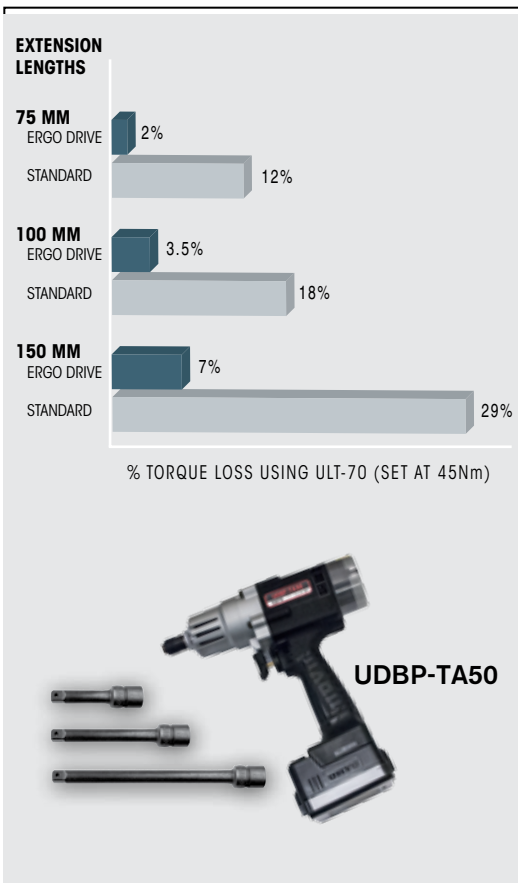
...YOUR INVESTMENT!

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!

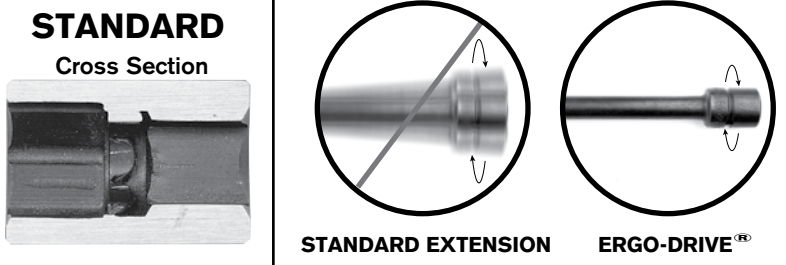
ERGO-DRIVE® sockets cause significantly less vibration during fastening than conventional sockets. This allows your assemblers to do their jobs without the worry of vibration related injuries.



...YOUR PRODUCTS!

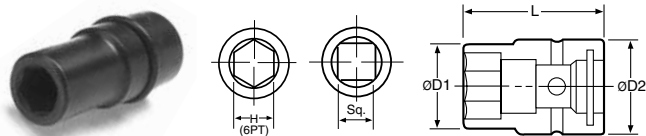
By reducing run-out and vibration, ERGO-DRIVE® sockets allow the most repeatable, accurate rundowns to take place, ensuring excellent product quality.

ERGO-DRIVE® VS. STANDARD



ERGO-DRIVE® FASTENER TOOLS

ERGO-DRIVE® SOCKETS



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

3/8" Square Drive

A31/4EDS	1/4"	10	0.39	19	0.75	44	1.73
A31/2EDS	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

A41/2EDS	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

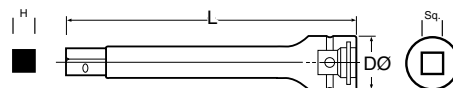
1" Square Drive

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
A31/4P20	1/4-20"	55	2.17	3/8
A305P0.8	M5	42	1.65	3/8
A41/4P20	1/4-20"	65	2.59	1/2
A406P1.0	M6	50	1.97	1/2

ERGO-DRIVE® EXTENSIONS



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

3/8" Square Drive

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

1/2" Square Drive

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

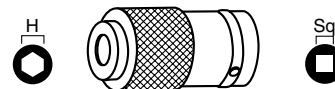
3/4" Square Drive

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

1" Square Drive

A8150EDE	1"	1"	150	5.91	54	2.13
A8200EDE	1"	1"	200	7.87	54	2.13

QUICK CHANGE CHUCKS



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

3/8" Square Drive

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

1/2" Square Drive

ADC-4SEDSQ	1/2"	1/4"
ADC-4SEDSQH7/16	1/2"	7/16"

Additional types and sizes of fastener tools 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

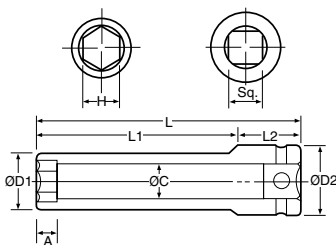
AIMCO can provide specials for virtually any application. From design to delivery, AIMCO's quick response ensures high quality, tight tolerance specials.

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 ₁	L ₂	A	ØC	ØD ₁	ØD ₂	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)



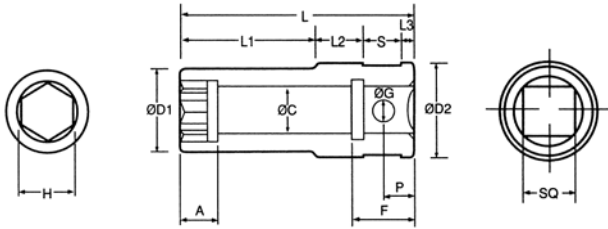
FAST LEAD
(FL)



SINGLE SQUARE
(SQ)



HEX LOBULE
(TORX)

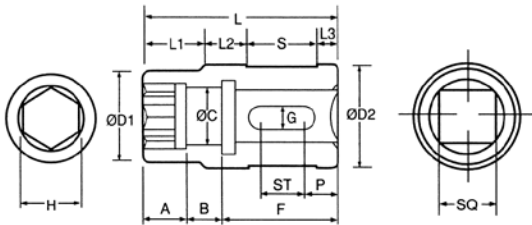


NUTRUNNER SOCKET TYPE A

Min. Qty. 10

Magnet MP MT MS	H	L	L ₁	L ₂	L ₃	S	ØD ₁	A	ØC	ØG	P	F	ØD ₂	Sq.	Qty.
SIZE															
TYPE															

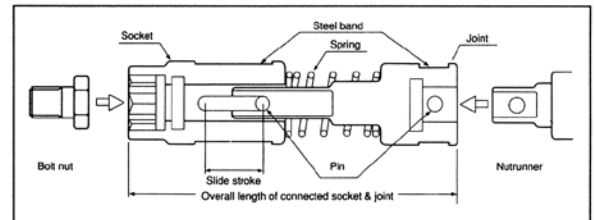
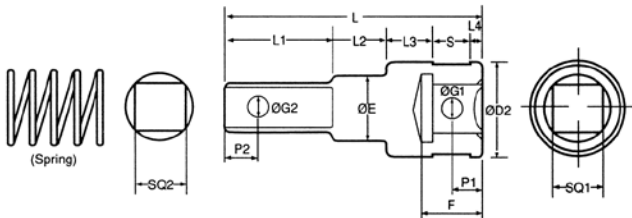
✓ Box for Ergo-Drive



NUTRUNNER SOCKET TYPE B

Min. Qty. 10

H	L	L ₁	L ₂	L ₃	S	ØD ₁	A	B	ØC	G	P	F	ST	ØD ₂	Sq.	Qty.
SIZE																
TYPE																

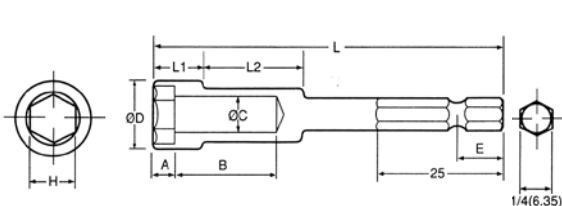


NUTRUNNER JOINT TYPE B

Min. Qty. 10

SQ ₂	L	L ₁	L ₂	L ₃	L ₄	S	P ₁	ØG ₂	ØE	F	ØG ₁	P ₂	ØD ₂	SQ ₁	Qty.

✓ Box for Ergo-Drive



NUT SETTER

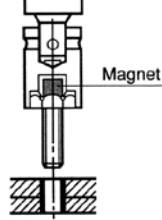
Min. Qty. 10

H	ØD	L	E	L ₁	L ₂	A	B	ØC	Qty.
SIZE									
TYPE									

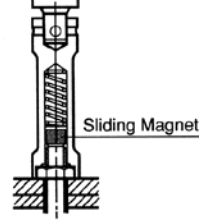
SPECIAL PARTS

MAGNETIC STYLES

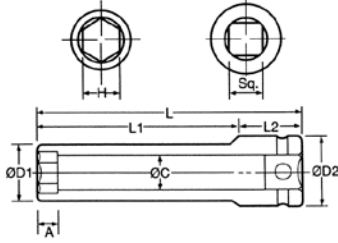
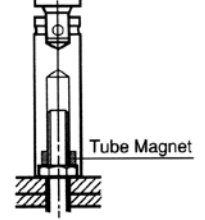
MP (Press-inserted) Type



MS (Sliding) Type



MT (Tube) Type

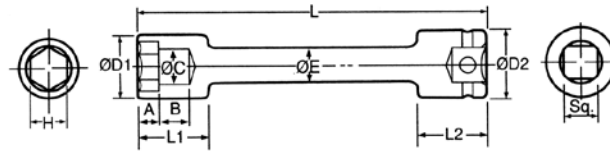


SOCKET

Min. Qty. 10

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

√ Box for Ergo-Drive

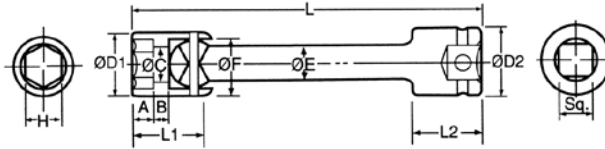


EXTENSION SOCKET

Min. Qty. 10

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

√ Box for Ergo-Drive



UNIVERSAL SOCKET

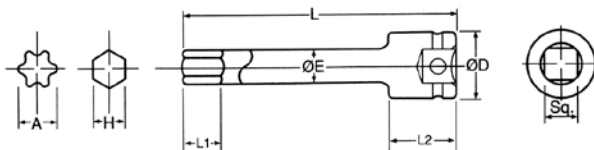
Min. Qty. 10

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

√ Box for Ergo-Drive

ALLEN HEAD/TORX HEAD

Min. Qty. 10

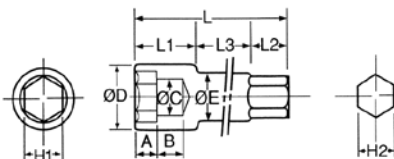


Torx	H	L	L ₁	L ₂	ØD	ØE	Sq.	Qty.

√ Box for Ergo-Drive

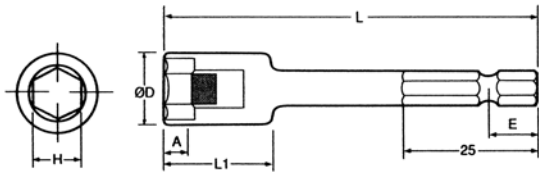
SOCKET ADAPTER

Min. Qty. 10



H ₁	L	L ₁	L ₂	L ₃	ØD	A	B	ØC	ØE	H ₂	Qty.
SIZE											
TYPE											

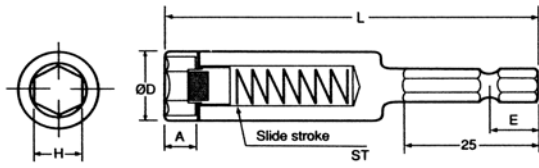
SPECIAL PARTS



(MP) MAGNETIC NUT SETTER

Min. Qty. 10

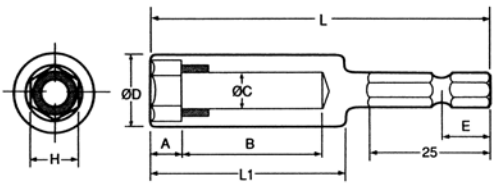
	H	L	E	L ₁	ØD	A	Qty.
SIZE							
TYPE							



(MS) MAGNETIC NUT SETTER

Min. Qty. 10

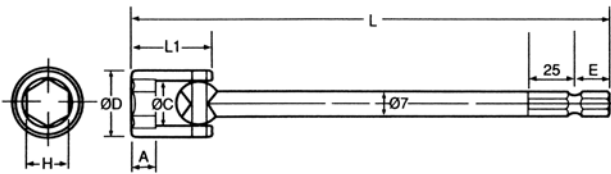
	H	L	E	ØD	A	ST	Qty.
SIZE							
TYPE							



(MT) MAGNETIC NUT SETTER

Min. Qty. 10

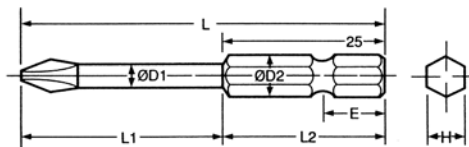
	H	L	E	L ₁	ØD	A	B	ØC	Qty.
SIZE									
TYPE									



UNIVERSAL NUT SETTER

Min. Qty. 10

	H	L	E	L ₁	A	ØC	ØD	Qty.



CIRCLE ONE:



SCREWDRIVER BIT

Min. Qty. 500









	Point Size	L	L ₁	L ₂	ØD ₁	ØD ₂	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 Converted	=					METRIC		INTERNATIONAL SYSTEM - S.I.		
		ozf-in	SAE 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



www.AIMCO-GLOBAL.com

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