

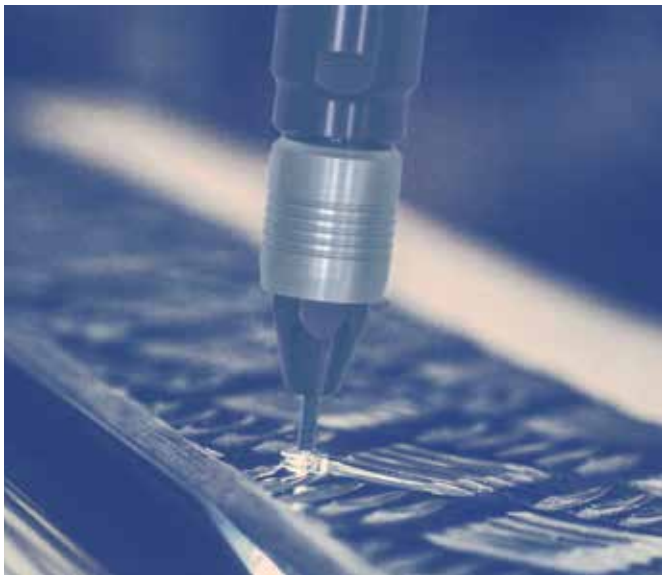


## DC Rivet Nutrunners



# RIVET NUTRUNNER SYSTEM

PROCESS MONITORING FOR EXACT TORQUE EVERY TIME



## A TRANSDUCERIZED CLOSED LOOP SYSTEM MEANS:

- Don't settle for guesswork! The built-in transducer ensures torque values are accurate. Dynamic torque is measured at the square drive, unlike the competition
- Torque measurement is not affected by changes in gear efficiency, normal tool wear between calibrations, temperature, voltage, or motor performance
- On-tool LEDs for Accept/Reject signals
- The system can easily be verified and calibrated anywhere
- Interchangeable tools, cables, and controllers – calibrations are specific to the tool not the system as a whole

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

## FEATURES AND BENEFITS

- Pull-to-torque tool/controller system ensures accurate, repeatable, and measurable tightening every time
- 1000 & 2000 series tools available with bottom exit, rear exit, or top exit cable configurations
- Simple, quick mandrel change design
- Low friction coating on mandrel for extended life
- Precise control of rivet compression with Torque and Angle detection capability
- Suitable for a wide range of material thicknesses – limited only by rivet nut size
- Data collection and networking capabilities to capture and utilize result data for QMS systems and line controls
- Multi-function button (MFB) provides increased flexibility
- On-board lights and audible signal for operator feedback
- Works with rivet sizes M4–M10 or 8-32–3/8-16

# PISTOL



Bottom Exit Cable

Top Exit Cable

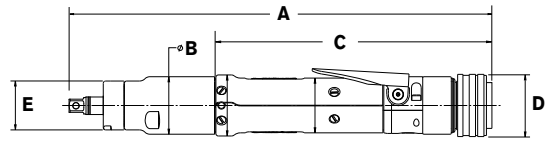
Rear Exit Cable

## APPLICATION DATA

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

\* 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.

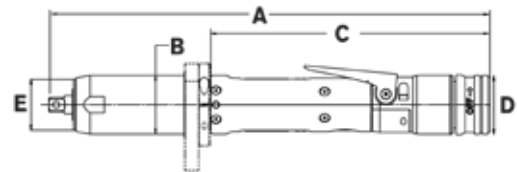
# STRAIGHT



**APPLICATION DATA**

1000 SERIES	MAX TORQUE		TORQUE RANGE		FREE SPEED	WEIGHT (-) SOCKET		OUTPUT DRIVE	A		B		C		D		E	
	NM	FT-LB	NM	FT-LB		RPM	LB		KG	IN	MM	IN	MM	IN	MM	IN	MM	IN
STRAIGHT*																		
AES4A12003BR	3	2.2	0.8 - 3	0.6 - 2.2	2,625	2.0	0.91	3/8 sq. dr.	11.12	282.7	1.47	37.3	7.38	187.5	1.59	40.4	1.25	31.8
AES4A12006BR	6	4.4	1.5 - 6	1.1 - 4.4	2,625	2.0	0.91	3/8 sq. dr.	11.12	282.7	1.47	37.3	7.38	187.5	1.59	40.4	1.25	31.8
AES4A12011BR	11	8.1	2.8 - 11	2 - 8.1	1,313	2.2	1.00	3/8 sq. dr.	11.44	290.5	1.47	37.3	7.38	187.5	1.59	40.4	1.25	31.8
AES4A12014BR	14	10	3.5 - 14	2.6 - 10	1,037	2.2	1.00	3/8 sq. dr.	11.44	290.5	1.56	39.6	7.38	187.5	1.59	40.4	1.25	31.8
AES4A12018BR	18	13	4.5 - 18	3.3 - 13	840	2.2	1.00	3/8 sq. dr.	11.44	290.5	1.47	37.3	7.38	187.5	1.59	40.4	1.25	31.8
AES4A12022BR	22	16	5.5 - 22	4.1 - 16	656	2.2	1.00	3/8 sq. dr.	11.44	290.5	1.47	37.3	7.38	187.5	1.59	40.4	1.25	31.8

# PUSH TO START



**APPLICATION DATA**

1000 SERIES	MAX TORQUE		TORQUE RANGE		FREE SPEED	WEIGHT (-) SOCKET		OUTPUT DRIVE	A		B		C		D		E	
	NM	FT-LB	NM	FT-LB		RPM	LB		KG	IN	MM	IN	MM	IN	MM	IN	MM	IN
PUSH-TO-START																		
AEL4A12003BR	3	2.2	0.8 - 3	0.6 - 2.2	2,625	2.0	0.91	3/8 sq. dr.	11.31	287.3	1.56	39.6	7.38	187.5	1.59	40.4	1.25	31.8
AEL4A12006BR	6	4.4	1.5 - 6	1.1 - 4.4	2,625	2.0	0.91	3/8 sq. dr.	11.32	287.4	1.56	39.6	7.38	187.5	1.59	40.4	1.25	31.8
AEL4A12011BR	11	8.1	2.8 - 11	2 - 8.1	1,313	2.2	1.00	3/8 sq. dr.	11.62	295.4	1.56	39.6	7.38	187.5	1.59	40.4	1.25	31.8
AEL4A12014BR	14	10	3.5 - 14	2.6 - 10	1,037	2.2	1.00	3/8 sq. dr.	11.62	295.4	1.56	39.6	7.38	187.5	1.59	40.4	1.25	31.8
AEL4A12018BR	18	13	4.5 - 18	3.3 - 13	840	2.2	1.00	3/8 sq. dr.	11.62	295.4	1.56	39.6	7.38	187.5	1.59	40.4	1.25	31.8
AEL4A12022BR	22	16	5.5 - 22	4.1 - 16	656	2.2	1.00	3/8 sq. dr.	11.62	295.4	1.56	39.6	7.38	187.5	1.59	40.4	1.25	31.8

\* Add "F" to part numbers for flush socket. "Q" indicates 1/4" quick change output.

**FIXTURED**



**Fixtured  
Rear Exit Cable**

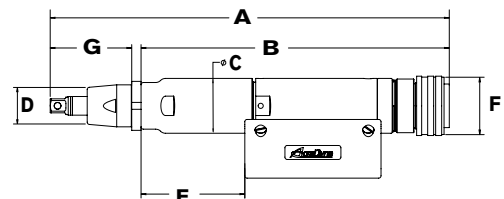


**Fixtured  
Bottom Exit Cable**

**APPLICATION DATA**

1000 SERIES	NM	MAX TORQUE FT-LB	NM	TORQUE RANGE FT-LB	FREE SPEED RPM	LB	WEIGHT (-) SOCKET	KG	OUTPUT DRIVE
FIXTURED*									
AEF4X12003BR(B)	3	2.2	0.8 - 3	0.6 - 2.2	2,625	2.0	0.91		3/8 sq. dr.
AEF4X12006BR(B)	6	4.4	1.5 - 6	1.1 - 4.4	2,625	2.0	0.91		3/8 sq. dr.
AEF4X12011BR(B)	11	8.1	2.8 - 11	2 - 8.1	1,313	2.2	1.00		3/8 sq. dr.
AEF4X12014BR(B)	14	10	3.5 - 14	2.6 - 10	1,037	2.2	1.00		3/8 sq. dr.
AEF4X12018BR(B)	18	13	4.5 - 18	3.3 - 13	840	2.2	1.00		3/8 sq. dr.
AEF4X12022BR(B)	22	16	5.5 - 22	4.1 - 16	656	2.2	1.00		3/8 sq. dr.

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



**DIMENSIONS**

FIXTURED	A		B		C		D)		E		F		G	
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
AEF4X12003BR	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
AEF4X12006BR	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
AEF4X12011BR	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
AEF4X12014BR	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
AEF4X12018BR	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
AEF4X12022BR	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

The Gen IV ACE Controller Platform is the core of the modular AcraDyne DC system. One controller will command any tool in the AcraDyne line from 0.5 Nm to 12,000 Nm, all with one cable. It is filled with countless advanced capabilities and features.

### Four Digit LED Torque Display:

Large numbers can be seen from a distance.

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

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



### Parameter Set Display:

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


### Optional 7" Touch-Screen Display:

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

## FEATURES AND BENEFITS

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

## NETWORKING CAPABILITIES

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



### GEN IV ACE iEC Controller for all AcraDyne DC Tools

MODEL*	SYSTEM PORT & REMOVABLE MEMORY	LIGHTS (L) LED DISPLAY (D) GRAPH (G)	24V I/O ASSIGNABLE 8 X 8*	SERIAL PORT WITH PROTOCOLS	BACKUP & RESTORE (USB)	ETHERNET** TWO PORTS
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

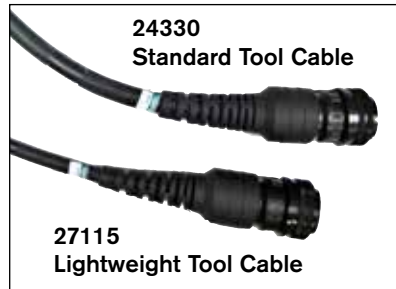
\* Add (-T) to model number for top exit tool cable option. For fieldbus options add: P = Profibus, C = CC Link, D = DeviceNet, N = ProfiNet. Other fieldbus options available upon request.

\*\* Ethernet channel supports the Open Protocol, Toolsnet, EtherNet/IP, Modbus/TCP, and other protocols.

## CABLE ASSEMBLIES

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

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



MODEL	DESCRIPTION
<b>TOOL CABLES</b>	
24330	Cable G3 Tool Cable 3m (9.8 ft)
25350	Cable G3 Tool Cable 5m (16.4 ft)
24320	Cable G3 Tool Cable 10m (32.8 ft)
27110	Cable G3 Tool Cable 3m (9.8 ft) Lightweight*
27115	Cable G3 Tool Cable 5m (16.4 ft) Lightweight*
27122	Cable G3 Tool Cable 10m (32.8 ft) Lightweight*
<b>EXTENSIONS</b>	
24320	Extension cable 10m (32.8 ft)
25518	Extension cable 20m (65.6 ft)

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

## TOOL BAILS

Spring bails snap on quickly and firmly at any place on the body of the tool for perfect balance and secure suspension

	MODEL	DESCRIPTION
	25501	Wire Bail for 1000 Series Tools
	27594	Stationary Bail for 1000 Series Tools
	27791	Rotating Bail Assembly for 1000 Series Tools
	26568	Cable Bail to Hang Tool Vertically for Gen III Cables
	21208	Spring Bail for 2000 Series Tools
	23662	Rotating Bail for 2000 Series Tools

## BAR CODE SCANNER



**28859**  
Bluetooth®-Enabled  
Scanner Kit

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

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

MODEL	DESCRIPTION
20400	RS232 Barcode Reader Kit
28859	RS232 Wireless Barcode Reader Kit

## UNIVERSAL TOOL BASKET

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



## LIGHT TOWER

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

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



# APPLICATIONS

## AUTOMOTIVE INTERIOR



Seating



HVAC



Sunroof



Dashboard

## AUTOMOTIVE EXTERIOR



Bumper



Roof Rack

## MOTOR HOME & RV



Interior / Exterior

## AIRLINE



Seating / Overhead Bins

## GENERAL INDUSTRY



Office Furniture



White Goods



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