

A-craDyne®
A Division of AIMCO

AST
INDUSTRIAL



High-Performance Cordless AB Series



**INNOVATIVE TOOLS
IN A POWERFUL PACKAGE**

AcraDyne Cordless AB Series

Work Smarter, Not Harder

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

1 AB-CTA

Transducer
Shut-Off Tool that
Controls Torque
and Angle

2 AB-MTA

Clutch Shut-Off
Tool that
Measures
Torque and
Reports Angle

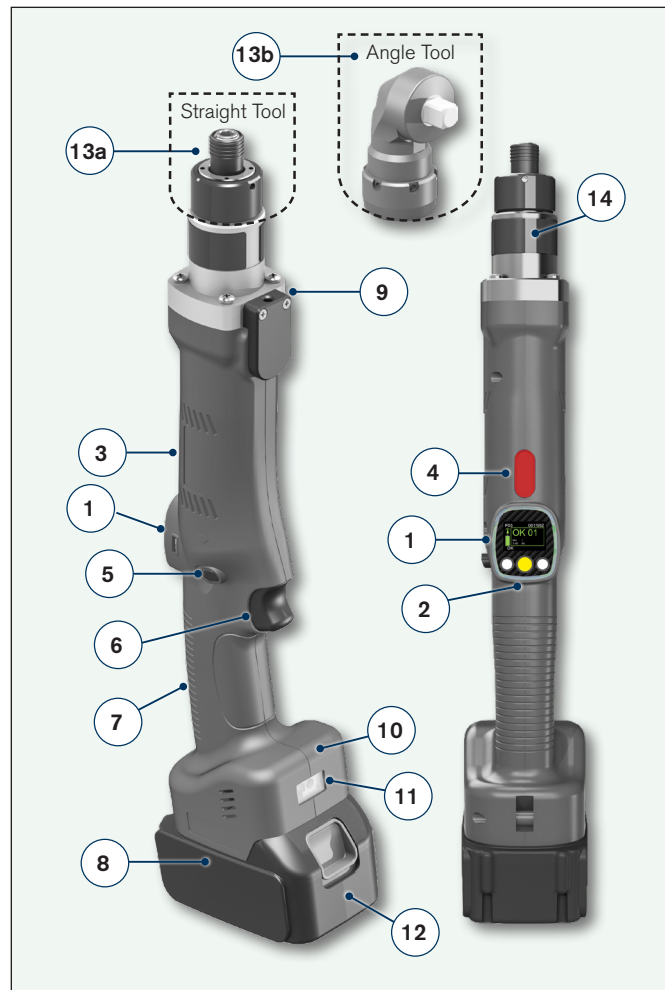
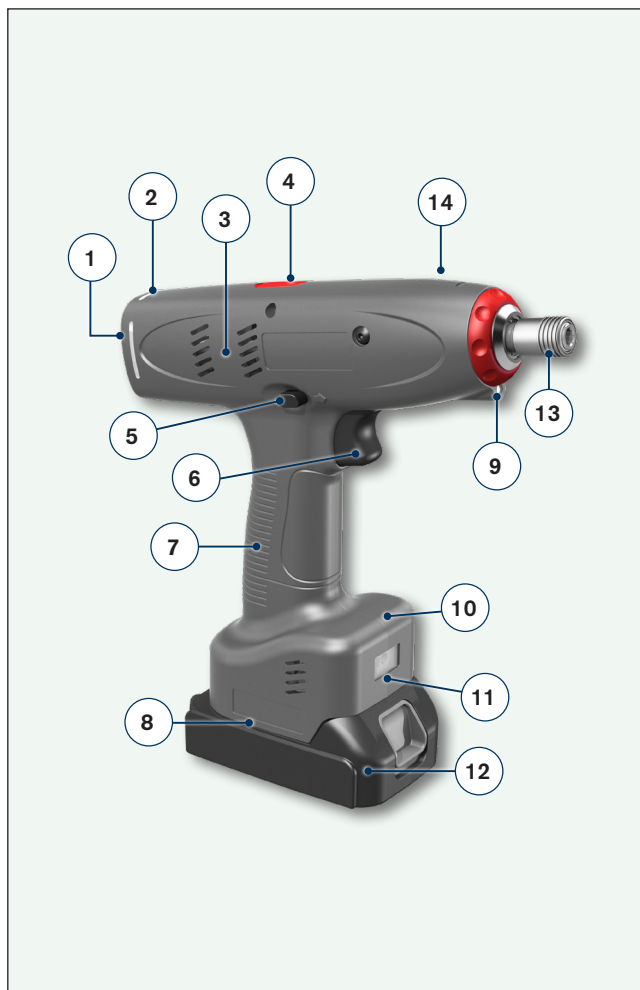
3 AB-MCA

Clutch Shut-Off
Tool that **Monitors**
Torque as
Determined by
Current and
Reports Angle

FEATURES AND BENEFITS OF ALL AB TOOLS

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

Features



- | | | |
|--|---|--|
| 1 OLED Display | 7 Ergonomical handle | 13 1/4" hex socket adapter (Pistol Tool) |
| 2 Multi-color LED control light | 8 USB interface (in battery compartment) | 13a 1/4" hex socket adapter (Straight Tool) |
| 3 Brushless high-powered motor | 9 Powerful LED | 13b 3/8" square adapter (Angle Tool) |
| 4 Color index | 10 Optional WiFi module | 14 Clutch Access (MTA & MCA models) |
| 5 CW / CCW switch | 11 Optional scanner | |
| 6 Large trigger | 12 Premium Li-Ion battery | |

Multi-Colored LED Control Light

The AcraDyne cordless series has a LED control function light that is near the display and spans the circumference of the tool. The light indicates tool status.

The time-length of the light can be programmed as glowing, flashing, or pulsating for each LED signal.



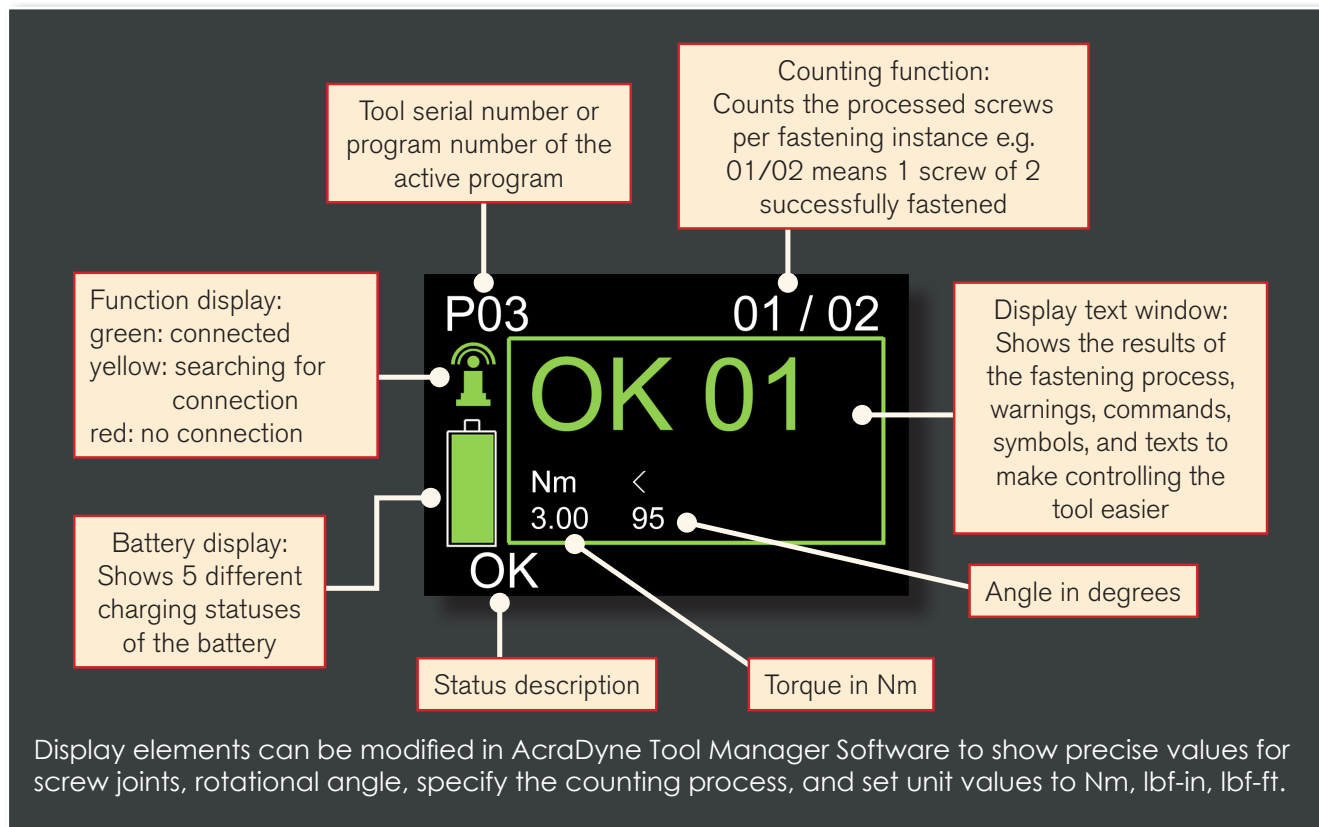
Color Indicator:

- | | |
|---|--|
|  | Screwdriver is released |
|  | Tool is on reverse mode; counter-clockwise rotation |
|  | Tightening was successful (OK) |
|  | Error at tightening (NOK) |
|  | Tool needs acknowledgement of the result or action of the worker |

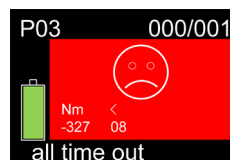
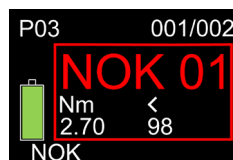
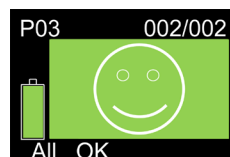


LED Display Module

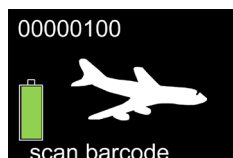
Provides Quick Operator Feedback



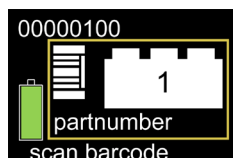
Display Operation



Easy to read results: User can program which type of screen to display: OK/NOK or Happy/Sad Face icons.



An application can require that the product ID be scanned before the tool is released. Symbol can also be a car.



An application can require scanning of components/assemblies before tool is released.



This screen indicates that the tool is locked and is disabled by line controls via the iBC controller over Wifi.



CTA Series

Controls Torque and Angle

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

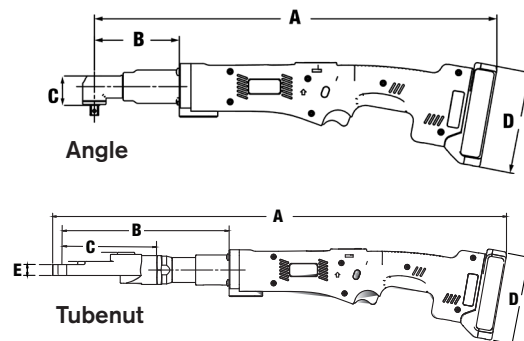
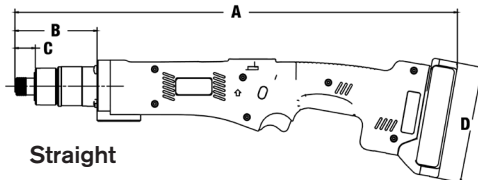
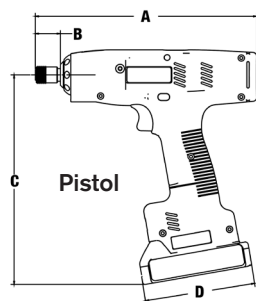


AB-CTA Torque Ranges:

- Pistol Tool: 1.5–17 Nm
- Straight Tool: 1.5–17 Nm
- Angle Tool: 1.5–120 Nm
- Tubenut Tool: 3.0–20 Nm

MODEL	TORQUE RANGE NM FT-LB		MAX SPEED RPM	DRIVE TYPE	WEIGHT W/O BATTERY KG LB		TOOL DIMENSIONS									
							A	B	C	D	E					
							IN	MM	IN	MM	IN	MM	IN	MM		
PISTOL																
ABP-CTA12(Q)(WQ)(BQ)(WBQ)	1.5 - 12	1.1 - 8.9	629	1/4" QC	1.15	2.5	9.1	230	1.02	26	8.56	218	4.5	115	–	–
ABP-CTA17(Q)(WQ)(BQ)(WBQ)	3 - 17	2.2 - 12.5	449	1/4" QC	1.15	2.5	9.1	230	1.02	26	8.56	218	4.5	115	–	–
STRAIGHT																
ABS-CTA12(Q)(WQ)(BQ)(WBQ)	1.5 - 12	1.1 - 8.9	570	1/4" QC	0.95	2.1	172	437	3.19	81	0.79	20	4.5	115	–	–
ABS-CTA17(Q)(WQ)(BQ)(WBQ)	3 - 17	2.2 - 12.5	460	1/4" QC	0.95	2.1	172	437	3.19	81	0.79	20	4.5	115	–	–
ANGLE																
ABN-CTA10(W)(B)(WB)	1.5 - 10	1.1 - 7.4	570	3/8" Sq.	1.35	3.0	179	455	3.94	100	1.12	29	4.5	115	–	–
ABN-CTA17(W)(B)(WB)	2.5 - 17	1.8 - 12.5	380	3/8" Sq.	1.4	3.1	18.1	461	4.14	105	1.29	33	4.5	115	–	–
ABN-CTA24(W)(B)(WB)	5 - 24	3.7 - 17.7	300	3/8" Sq.	1.2	2.6	18.1	461	4.14	105	1.29	33	4.5	115	–	–
ABN-CTA36(W)(B)(WB)	8 - 36	5.9 - 26.6	170	3/8" Sq.	1.2	2.6	21.6	547	7	179	1.65	42	4.5	115	–	–
ABN-CTA55(W)(B)(WB)	15 - 55	11.1 - 40.6	90	3/8" Sq.	1.4	3.1	23.1	587	8.61	219	1.65	42	4.5	115	–	–
ABN-CTA90(W)(B)(WB)	25.0 - 90	18.4 - 66.4	60	1/2" Sq.	2.9	6.4	25.9	658	11.4	290	1.91	49	4.5	115	–	–
ABN-CTA120(W)(B)(WB)	35.0 - 120	25.8 - 88.5	50	1/2" Sq.	3.1	6.8	28.4	720	13.9	352	2.81	71	4.5	115	–	–
TUBENUT																
ABT-CTA15W	3 - 15	2.2 - 11.1	400	1/4" - 7/16" hex	1.2	2.6	22.2	565	7.82	199	4.17	106	4.5	115	0.5	12.7
ABT-CTA20W	5 - 20	3.7 - 14.8	300	3/8" - 5/8" hex.	1.2	2.6	22.9	582	8.39	213	4.74	121	4.5	115	0.56	14

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



MTA Series

Measures Torque and Reports Angle

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



AB-MTA Torque Ranges:

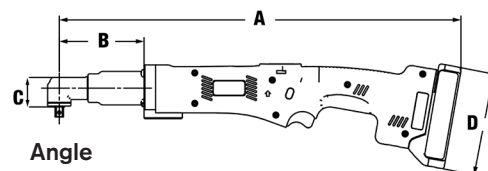
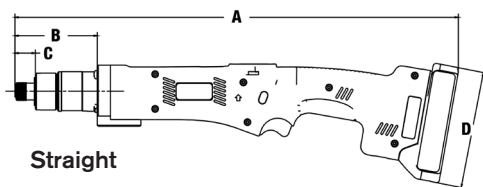
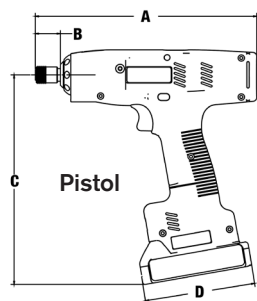
- Pistol Tool: 1.0–17 Nm
- Straight Tool: 1.0–17 Nm
- Angle Tool: 2.5–115 Nm

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



MODEL	TORQUE RANGE NM FT-LB		MAX SPEED RPM	DRIVE TYPE	WEIGHT W/O BATTERY KG LB		TOOL DIMENSIONS							
							A		B		C		D	
							IN	MM	IN	MM	IN	MM	IN	MM
PISTOL														
ABP-MTA06(Q)(WQ)(BQ)(WBQ)	1.0 - 6	0.8 - 4.4	1,100	1/4" QC	1.25	2.75	9.1	230	1.02	26	8.56	218	4.5	115
ABP-MTA08(Q)(WQ)(BQ)(WBQ)	1.5 - 8	1.1 - 5.9	880	1/4" QC	1.25	2.75	9.1	230	1.02	26	8.56	218	4.5	115
ABP-MTA12(Q)(WQ)(BQ)(WBQ)	2.3 - 12	1.7 - 8.9	629	1/4" QC	1.25	2.75	9.1	230	1.02	26	8.56	218	4.5	115
ABP-MTA17(Q)(WQ)(BQ)(WBQ)	3.5 - 17	2.6 - 12.5	449	1/4" QC	1.25	2.75	9.1	230	1.02	26	8.56	218	4.5	115
STRAIGHT														
ABS-MTA06(Q)(WQ)(BQ)(WBQ)	1.0 - 6	0.8 - 4.4	1,100	1/4" QC	1.0	2.2	17.2	437	3.19	81	0.79	20	4.5	115
ABS-MTA08(Q)(WQ)(BQ)(WBQ)	1.5 - 8	1.1 - 5.9	880	1/4" QC	1.0	2.2	17.2	437	3.19	81	0.79	20	4.5	115
ABS-MTA12(Q)(WQ)(BQ)(WBQ)	2.3 - 12	1.7 - 8.9	629	1/4" QC	1.1	2.4	17.2	437	3.19	81	0.79	20	4.5	115
ABS-MTA17(Q)(WQ)(BQ)(WBQ)	3.5 - 17	2.6 - 12.5	449	1/4" QC	1.25	2.75	17.2	437	3.2	81	0.8	20	4.5	115
ANGLE														
ABN-MTA10(W)(B)(WB)	2.5 - 10	1.9 - 7.4	629	3/8" Sq.	1.35	3.0	17.9	455	3.94	100	1.12	29	4.5	115
ABN-MTA17(W)(B)(WB)	3.5 - 17	2.6 - 12.5	420	3/8" Sq.	1.4	3.1	18.1	461	4.14	105	1.29	33	4.5	115
ABN-MTA24(W)(B)(WB)	5 - 24	3.7 - 17.7	300	3/8" Sq.	1.4	3.1	18.1	461	4.14	105	1.29	33	4.5	115
ABN-MTA36(W)(B)(WB)	8 - 36	5.9 - 26.6	165	3/8" Sq.	1.4	3.1	21.6	547	7	179	1.65	42	4.5	115
ABN-MTA55(W)(B)(WB)	13 - 55	9.6 - 40.6	94	3/8" Sq.	2.7	6.0	22.5	572	7.7	196	1.65	42	4.5	115
ABN-MTA90(W)(B)(WB)	18 - 90	13.3 - 66.4	70	3/8" Sq.	2.9	6.4	25.9	658	10.2	259	1.8	46	4.5	115
ABN-MTA115(W)(B)(WB)	23 - 115	17 - 84.8	56	1/2" Sq.	3.1	6.8	28.4	721	13.9	353	2.8	71	4.5	115

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



MCA Series

Monitors Torque as Determined by Current and Reports Angle

The AB-MCA series is the most cost-effective solution in the AcraDyne AB line. The series includes the shut-off benefits of the MTA series, but without the expense associated with a transducer. Torque applied is reported based on the current consumed by the motor at the moment the tool completes its tightening event. Angle delivered to the fastener is reported as well. For applications where highest precision is not required, the AB-MCA series provides data related to the fastening operation and great value to budget.

AB-MCA Torque Ranges:

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

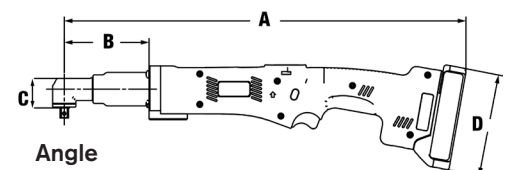
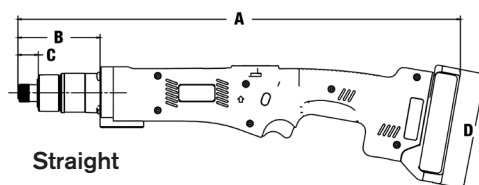
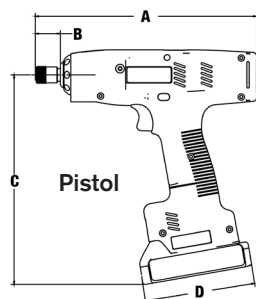


For simple adjustment, the MCA series provides easy clutch access.



MODEL	TORQUE RANGE NM FT-LB		MAX SPEED RPM	DRIVE TYPE	WEIGHT W/O BATTERY KG LB		TOOL DIMENSIONS							
							A		B		C		D	
							IN	MM	IN	MM	IN	MM	IN	MM
PISTOL														
ABP-MCA06(Q)(WQ)(BQ)(WBQ)	1.0 – 6	0.8 – 4.4	1,100	1/4" QC	1.25	2.75	9.1	230	1.02	26	8.56	218	4.5	115
ABP-MCA08(Q)(WQ)(BQ)(WBQ)	1.5 – 8	1.1 – 5.9	880	1/4" QC	1.25	2.75	9.1	230	1.02	26	8.56	218	4.5	115
ABP-MCA12(Q)(WQ)(BQ)(WBQ)	2.3 – 12	1.7 – 8.9	629	1/4" QC	1.25	2.75	9.1	230	1.02	26	8.56	218	4.5	115
ABP-MCA17(Q)(WQ)(BQ)(WBQ)	3.5 – 17	2.6 – 12.5	429	1/4" QC	1.25	2.75	9.1	230	1.02	26	8.56	218	4.5	115
STRAIGHT														
ABS-MCA06(Q)(WQ)(BQ)(WBQ)	1.0 – 6	0.8 – 4.4	1,100	1/4" QC	1.0	2.2	17.2	437	3.19	81	0.79	20	4.5	115
ABS-MCA08(Q)(WQ)(BQ)(WBQ)	1.5 – 8	1.1 – 5.9	880	1/4" QC	1.0	2.2	17.2	437	3.19	81	0.79	20	4.5	115
ABS-MCA12(Q)(WQ)(BQ)(WBQ)	2.3 – 12	1.7 – 8.9	629	1/4" QC	1.1	2.4	17.2	437	3.19	81	0.79	20	4.5	115
ABS-MCA17(Q)(WQ)(BQ)(WBQ)	3.5 – 17	2.6 – 12.5	429	1/4" QC	1.25	2.75	17.2	437	3.2	81	0.8	20	4.5	115
ANGLE														
ABN-MCA10(W)(B)(WB)	2.5 – 10	1.9 – 7.4	629	3/8" Sq.	1.35	3.0	17.9	455	3.94	100	1.12	29	4.5	115
ABN-MCA17(W)(B)(WB)	3.5 – 17	2.6 – 12.5	420	3/8" Sq.	1.4	3.1	18.1	461	4.14	105	1.29	33	4.5	115
ABN-MCA24(W)(B)(WB)	5 – 24	3.7 – 17.7	300	3/8" Sq.	1.4	3.1	18.1	461	4.14	105	1.29	33	4.5	115
ABN-MCA36(W)(B)(WB)	8 – 36	5.9 – 26.6	165	3/8" Sq.	1.4	3.1	21.6	547	7	179	1.65	42	4.5	115
ABN-MCA55(W)(B)(WB)	13 – 55	9.6 – 40.6	94	3/8" Sq.	2.7	6.0	22.5	572	7.7	196	1.65	42	4.5	115
ABN-MCA90(W)(B)(WB)	18 – 90	13.3 – 66.4	70	3/8" Sq.	2.9	6.4	25.9	658	10.2	259	1.8	46	4.5	115
ABN-MCA115(W)(B)(WB)	23 – 115	17 – 84.8	56	1/2" Sq.	3.1	6.8	28.4	721	13.9	353	2.8	71	4.5	115

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





AcraDyne iBC Gen IV Controller

Clear and Concise Connectivity

AcraDyne's iBC Gen IV Controller maximizes production quality seamlessly by giving the customers' assembly process flexible line integration, real-time monitoring, and simple system programming.



Easy to
Use

- Same simple platform as the other GEN IV models, the user friendly interface is easy to use and simple to set up

Cost
Effective

- No third party data integrator required, the data can seamlessly transfer from the tool to the controller via WIFI
- FREE software – No hidden fees

Flexible

- Ability to adapt to a wide range of plant protocols
 - Open Protocol
 - Device Net
 - CC Link
 - Profibus
 - PFCS
 - Jtekt
 - XML
 - Toolsnet

Batteries & Chargers

BATTERIES

- Li-Ion for best energy density
- Deep-discharge protection prevents battery failure
- All AB models utilize the same battery connection and chargers
- Batteries available in 2.5 Ah or 5.0 Ah



AB-B1825LI



AB-B1850LI

BATTERY MODEL #	VOLTAGE	TYPE	CAPACITY	WEIGHT
AB-B1825LI	18V	Li-Ion	2.5 Ah	.8 Lb/.35 kg
AB-B1850LI	18V	Li-Ion	5.0 Ah	1.3 Lb/.6 kg



AB-C18110

BATTERY CHARGERS

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



AB-C18-4W

MODEL	DESCRIPTION	OUTPUT	INPUT	CHARGING TIME	DIMENSIONS (W/O BATTERY)	WEIGHT
AB-C18110	Quick-charge unit for 110V	14.4V - 18V, 3.0A	110VAC, 50-60Hz	Max 55 min for 2.5 Ah battery	3.39" (W) x 4.21" (H) x 6.02" (D) 86 mm (W) x 107 mm (H) x 153 mm (D)	1.2 Lb/.55 kg
AB-C18220	Quick-charge unit for 220V	14.4V - 18V, 3.0A	220-240VAC, 50-60Hz	Max 55 min for 2.5 Ah battery	3.39" (W) x 4.21" (H) x 6.02" (D) 86 mm (W) x 107 mm (H) x 153 mm (D)	1.2 Lb/.55 kg
AB-C18-4W	4-bay charge unit for 100-240VAC	14.4V - 18V, 3.0A	100-240VAC, 50-60Hz	Max 55 min for 2.5 Ah battery	21.2" (W) x 7.2" (H) x 10.2" (D) (incl. feet) 539 mm (W) x 182 mm (H) x 260 mm (D) (incl. feet)	16.8 Lb/7.6 kg

AcraDyne AB Series Overview

FEATURE	MTA MODEL	CTA MODEL	MCA MODEL
Clutch Shut-Off	✓		
Transducer Shut-Off		✓	
Clutch Shut-Off with Current Monitor			✓
Five Programmable Configurations with only one tool: • Torque • Angle • RPM • Time • Fastening Directions	✓	✓	✓
Six step, 100 job functionality	✓	✓	✓
Free Software	✓	✓	✓
Interchangeable Battery, USB, Charger	✓	✓	✓
Brushless Motor	✓	✓	✓
Maintenance Indicators	✓	✓	✓
100 Parameter Sets	✓	✓	✓
Operator Feedback and Battery Status on LED display module	✓	✓	✓
Large Storage Capacity – 150,000 data results w/curves on the tool	✓	✓	✓
Can run with iBC ACE Controller	✓	✓	✓
Tactile Feedback	✓	✓	✓
Barcode Scanner	✓	✓	✓
Tool Programming Software loadable through USB cable interface	✓	✓	✓
Long lasting Lithium-Ion Battery	✓	✓	✓
Wireless Communication	✓	✓	✓
Ergonomic	✓	✓	✓

Applications

AcraDyne's cordless AB Series tools are ideal for customers who require flexibility in the assembly process.:

- Inside vehicles where access is restricted
- Cab applications on construction equipment / agriculture products / class A trucks
- Gas meter field service (tubenut)
- Server racks

ATV / Offroad



Aerospace



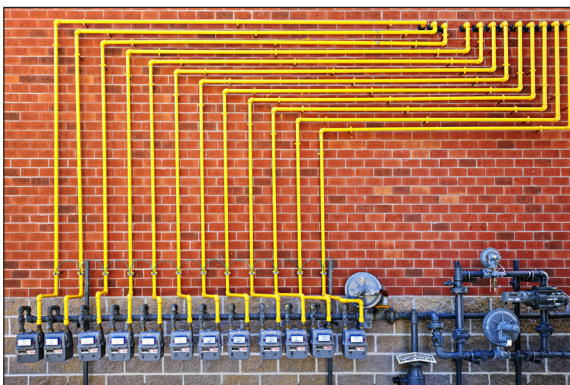
MVI



Agriculture



Natural Gas



Renewable Energy





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