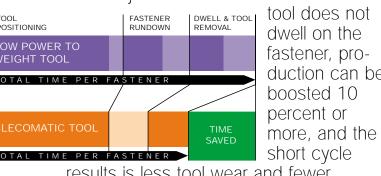
The Remarkable Clecomatic® Clutch

The heart and soul of the Cleco #5 - thething

> sets this tool apart from every other screwdriver – is the patented, time-proven

A tool with the Clecomatic clutch starts when the bit is depressed and stops the instant preset torque is reached on the fastener. This helps assure consistent repetition of torque settings over a long period, which means better quality in the finished product and fewer rejects and makeovers. Since the

Clecomatic clutch.



boosted 10 percent or more, and the short cycle

fastener, pro-

duction can be

results is less tool wear and fewer replacement parts.

The adjacent TORQUE/ TIME graphs illustrate how Clecomatic

tools reduce the length of time an operator spends counteracting the ratcheting effect of other screwdrivers.

Operators using Clecomatic tools are exposed to far less tool noise. The automatic start/stop feature

means that the tool runs only while the fastener is being tightened. With virtually no clutch ratcheting tool noise is reduced by as much as 80%.

TYPE OF SCREWDRIVER	MOTOR NOISE DURING POSITIONING OF TOOL	MOTOR NOISE WHILE DRIVING FASTENER	MOTOR AND CLUTCH NOISE DURING DWELL	
Clecomatic	NONE	~~~~~	NONE	
Push-to-Start Ratcheting	NONE	~~~~~	/////////////////////////////////////	
Lever-Operated Ratcheting	~~~~~	~~~~~	/////////////////////////////////////	

Making The Best Even Better

The Cleco #5 is a product of Cooper Tools, a company dedicated to the relentless pursuit of science in offering continual product improvements to meet the needs of its market partners.

So, it should not come as a big surprise to learn that we have now made the best even better, by re-engineering the #5 into a plug-in electric screwdriver.

Cleco 14 Series Electric Screwdriver Specifications

		Scre	w Size	Eroo						
Model Number		GR.5 GR. 9.8	GR. 9.8	- Free Speed	Torque Range		Length		Weight	
110V	220V	in	mm	ŔРМ	inlbs.	Nm	in	mm	lbs.	kg
Push-to-Start										
14E1SA02Q	14E2SA02Q	#6	M3.5	1900	16-3	1.8-0.4	12.9	328	2.0	0.9
14E1SA03Q	14E2SA03Q	#8	M4	1150	26-5	2.9-0.6	12.9	328	2.0	0.9
14E1SA04Q	14E2SA04Q	#10	M4	800	34-5	3.8-0.6	12.9	328	2.0	0.9
14E1SA05Q	14E2SA05Q	#10	M5	450	45-5	5.1-0.6	12.9	328	2.0	0.9
Push and Lever	· Start									
14E1CA02Q	14E2CA02Q	#6	M3.5	1900	16-3	1.8-0.4	12.9	328	2.0	0.9
14E1CA03Q	14E2CA03Q	#8	M4	1150	26-5	2.9-0.6	12.9	328	2.0	0.9
14E1CA04Q	14E2CA04Q	#10	M4	800	34-5	3.8-0.56	12.9	328	2.0	0.9
14E1CA05Q	14E2CA05Q	#10	M5	450	45-5	5.1-0.6	12.9	328	2.0	0.9
STANDARD EQUIPMEN	T:	Two	additional	nosepieces		RUTH	Rapid Sel			

STANDARD FOUIPMENT 10 foot power cord

Operating instructions & service manual Clutch Adjustment Tool

All torque springs required to meet indicated Suspension Bail

OPTIONAL EQUIPMENT: Voltage/speed selector: 205943 Voltage/speed selector cable for 110V: 541683-01

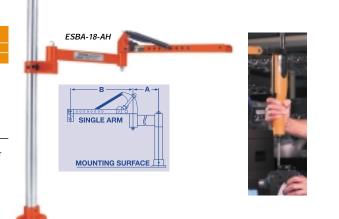
Voltage/speed selector and cable (220V models only)

available for fast delivery on limited quantities

Balance Arms

Single Ar	Dimensions						
Model No.	Code No.	in.	A	in.	B mm	Post in.	Height
ESBA-12-AH	I 240373	12	305	12	305	30	mm 762
ESBA-18-AH	1 240374	12	305	18	457	30	762
ESBA-24-AH	I 240375	12	305	24	610	30	762
ESBA-30-AH	I 240376	12	305	30	762	30	762
AH = Adjustable Height		OARD EQUIP	MENT	_	PTIONAL E		-

attach electric screwdriver to SP-1200 catalog.



Models indicated with the *Rapid Select* icon

represent our most popular tools, and are

Portable Tool Balancers

Part	Cap	acity	Net	Min. Dist.	Length of	
Number	Max.	Min.	Weight	Hook to Hook		
200427	2 lb.	0 lb.	1 lb. 4 oz.	10 7/8 in.	5 ft.	
200428	4 lb.	2 lb.	1 lb. 4 oz.	10 7/8 in.	5 ft.	

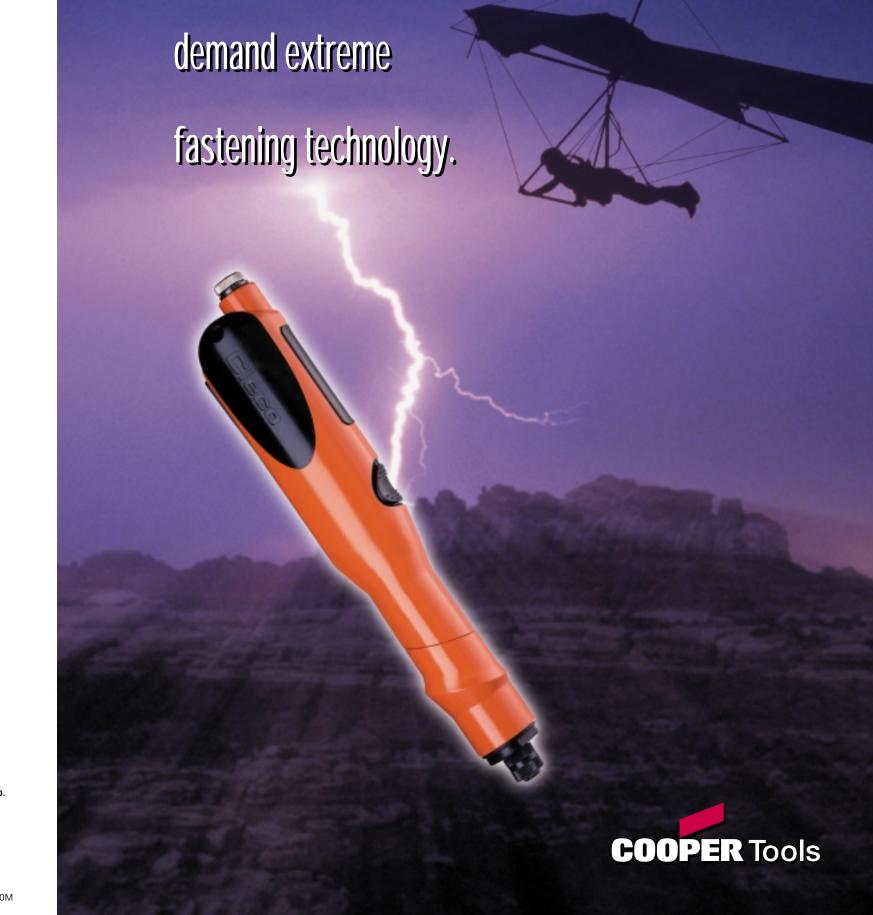


APEX® • BUCKEYE®

COOPER AUTOMATION • CRESCENT® DGD® • DOLER® • DOTCO® • EREM® GARDNER-DENVER® • GARDOTRANS GETA • KAHNETICS® • LUFKIN® MASTER POWER® • METRONIX NICHOLSON® • PLUMB® • H.K. PORTER® QUACKENBUSH • RECOULES • ROTOR™ JTICA® • WELLER® • WIRE-WRAP®

P.O. Box 1410 Phone: (803) 359-1200 Fax: (803) 359-2013 www.clecotools.com

Postfach 30 Lexington, SC 29071-1410 D-73461 Westhausen, Germany Phone: (49)7363-810 Fax: (49)7363-81222 www.coopertools.cor



Extreme fastening requirements

How do you improve a tool that's already

100 Years Of Performance

ments has made Cleco the world's For years, the Cleco #5 series has been number one choice for assembly the workhorse for medium to light tool technology. assembly applications – the standard against which all other brands in its class are measured.

With more than 100 years of quality manufacturing experience built into each and every tool, Cleco screwdrivers are designed to withstand the demanding requirements of the high-volume, highrepetition, high-precision environment of the contemporary assembly line.

And the direct, no-nonsense philosophy behind these screwdrivers in overcoming even the

Clecomatic

most complicated application require

Patented and time-proven clutch assembly and planetary gears.

PECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. GARDNER-DENVER IS A REGISTERED TRADEMARK OF GARDNER-DENVER MACHINERY, INC., USED UNDER LICENSE. © 2001 COOPER INDUSTRIES, INC. SP-1009 1201 10W

Introducing The New Cleco 14 Series Plug-In Electric Screwdriver.

Extreme fastening require ments demand extreme fastening technology.

And to meet the demands of today's sophisticated electronics assembly and other clean-room applications, Cleco is introducing the most extraordinary electric screwdriver ever made.

If you've always thought that an electric screwdriver couldn't be as good as a pneumatic, you were right – until now.

Now the Cleco 14 Series combines the time-proven industry leadership of the Cleco #5, the leading-edge fastening technology we pioneered with our Cleco Tightening Manager system, and a powerful, proprietary electric motor that is so revolutionary its brushes never need replacing.



Performs Like A **Pneumatic**

The result is a remarkable electric tool that delivers the performance of a pneumatic. But the Cleco 14 Series is safe for use in electronics assembly and other clean-room applications, which require an electric

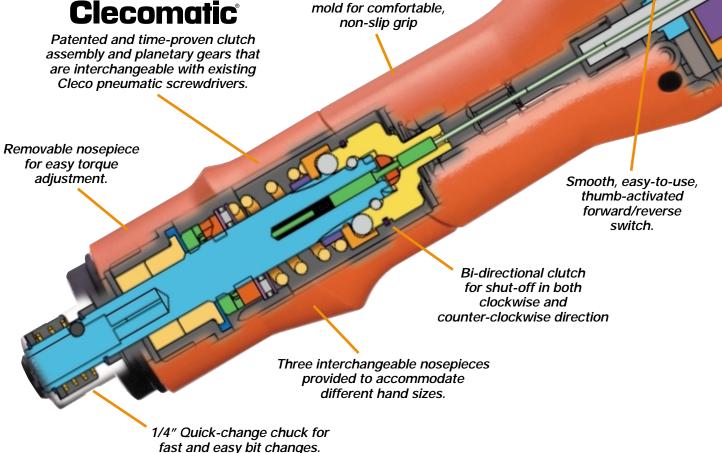
Noise levels are also greatly reduced with an electric screwdriver. That is a critical factor. because electronics assembly is often performed in tighter quarters than a traditional open assembly line where there is already a high noise level.

Frankly, a screwdriver this good didn't exist, so we had to invent one.

And, although this is Cleco's first electric screwdriver, its designers were able to rely on more than 50 years of solid

experience in electrical tool design and manufacture within the CooperTools family - including the experience we gained in the development of the Cleco Tightening

Manager system, one of the most significant advancements in the history of fastening technology.



Soft, textured over-

Features You Want

of substantial advantages over other electric screwdrivers on the market.

- brushes that never wear out. They are made of a proprietary material that delivers 10 times the lifespan of other brushes.
- over-current and over-voltage protection within the circuit board.
- the renowned Clecomatic clutch mechanism
- Bi-directional clutch shut-off

. . . . Over-current and over-voltage protection within

suspension bail for

auick

modular design for easy and quick

torque ranges from 3 to 45 in.-lbs.

push-to-start or lever-permit

speeds up to 1900 RPM

heavy-duty clutch, gears and bearings

that are interchangeable with Cleco #5

repairability

start options

hanging.

No brush replacement indicator because brushes never wear out.

the circuit board.

Threaded quick disconnect with

The first plug-in motor good enough to carry the Cleco name.



■ The Cleco 14 Series is equipped with

- surfaced-mounted chip technology

In addition, two other features demand special mention.

■ Electronic Brake System

We have designed the braking system to work in both forward and reverse modes, because there are critical safety and precision reasons why you want the tool to stop the split-second the operator releases the trigger.



■ Three Grip Sizes

We have also designed the Cleco 14 Series to be ergonomically sound and feel good in the hand. But not all hands are created equal, so we made the nosepiece in three different sizes, and we ship each tool with all three nosepieces so it can easily be changed to fit the hand size of different operators.

Benefits You Need

The people who design and manufacture the new Cleco 14 Series electric screwdriver are keenly aware that improving production rates and lowering costs are critical to the success of any manufacturing operation

Accordingly, we are building every Cleco 14 Series to deliver:

optimum speed

torque accuracy consistency

long-term reliability

ease of maintenance reduced energy costs

longer operating life

fewer replacement parts

sound ergonomics

operator convenience

significant power-to-weight ratios

adaptability to a variety of applications

the ultimate in flexibility

All of that boils down to better repeatability, fewer rejects, less operator fatigue, and reduced down time on the assembly line, which translates into greater productivity and profit potential for you and your company.

The Total Light Assembly Solution

For all of your assembly applications, make one call to CooperTools at 1.803.359.1200. We have the total tooling solution.



