



BRUSHLESS
ELECTRIC
SCREWDRIVERS

TORQUE 0.01-25 Nm



www.deltaregis.com

TORQUE TESTERS
TOOL SUPPORTS
SCREW FEEDERS



NAVIGATION LEGEND



Screwdrivers



Controllers



Tool Supports



Torque Testers



Screw Feeders

Delta Regis products are warranted for one year from the date of purchase against defects in material and workmanship. In addition, DC premium brushless screwdrivers are warranted for two years and DC brushless motors are warranted for three years from the date of purchase against defects in material and workmanship. This warranty does not cover damage due to transportation, abuse, misuse, alteration, or improper service. Items subject to wear during normal use (such as tool cables, carbon brushes, driver bits, etc) are considered maintenance items and are not normally covered by this warranty, unless deemed to be defective upon our further evaluation.

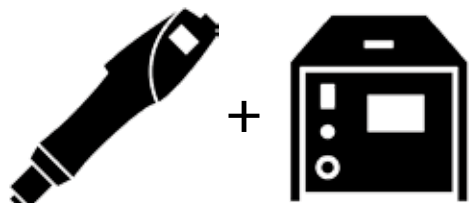
Our sole remedy is to repair or replace (at our discretion) any unit found to be defective due to defects in material or workmanship. It is the responsibility of the user to return any product thought to be defective, freight prepaid, to our warehouse for inspection and evaluation.

There is no warranty of merchantability or fitness of purpose. In no event will Delta Regis Tools, Inc. be liable for business interruptions, loss of profits, harm, injury, damage, personal injury, cost of delay, or any other special, indirect, incidental, or consequential losses, costs, or damages.

Efforts have been made to ensure the accuracy of the information and specifications in this catalog. Delta Regis Tools reserves the right to correct or change any specifications found herein without further notification.

Please contact us if you have any questions, concerns, or would like to discuss the details of an application. We are available to assist in any way that we can.

SCREWDRIVERS & CONTROLLERS



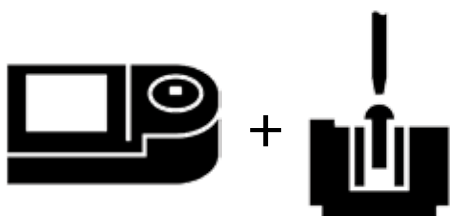
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SCREWDRIVER SELECTION GUIDE

Know your assembly requirements

With the endless range of applications for installing threaded fasteners, proper selection of a screwdriver begins with knowing the details of the job that needs to be performed by the driver.

Torque - What is the required torque to properly install the fastener? This torque value is determined through the engineering and testing of the product being assembled and not something that we can provide for you. How critical is the final torque value?

Prevailing Torque - Is the fastener running down freely into a threaded hole, or is it self-tapping? Does the fastener have thread-locking compound or a locknut? Any prevailing torque must be lower than final torque.

Joint Type - Once the fastener initially seats, is there extended rotation of the screwdriver due to soft gaskets, spring washers, or other compression in the assembled joint?

Speed and Direction - Is the fastener installation speed restricted by materials (eg. plastics) or other design criteria? Will the screwdriver run primarily in the forward (CW) direction, or does the application require frequent switching between forward and reverse?

Duty Cycle - What is the estimated time to run-down a fastener? How many fasteners are installed per minute? How many hours will the tool be running per day? Is there prevailing torque during run-down?

Select the appropriate model

Based on the application's torque (and speed) requirements, the quick reference chart on the following page indicates possible choices in the Delta Regis product line. In many cases, you will find that several models of screwdrivers offer the required torque output. Try to select models where the required torque falls into the middle portion of the screwdriver's range. The chart is sub-divided by series of screwdrivers. If you require assistance in selecting the most appropriate model for your application, please feel free to contact us by phone or e-mail.

DC Premium Brushless (12V/32V/40V) - The DC brushless models offer the best performance for production applications. Clean running, maintenance-free brushless DC motors allow for higher duty cycles than brush motor tools. Premium low voltage DC drivers are available with ESD-safe housings and various control options. Standard controllers have Hi/Lo speed selection, optional controllers available for slow start, I/O and counting with rundown verification. All brushless tools come with a precise shut-off clutch for excellent repeatability.

BRUSHLESS SCREWDRIVERS MODEL OVERVIEW

Model No.	RPM	Page	Torque Range - Nm (in-lb)											
(DC models use controller)	(Hi / Low)		0	1 (8.8)	2 (16.7)	3 (26.5)	4 (35.4)	5 (44.2)	7.5 (66.4)	10 (88.5)	20 (177)	30 (266)		
12VDC Shut-off Premium Brushless		7												
ESL210	1000 / 700													
ESL210S	280 / 200													
ESL211	1000 / 700													
ESL211S	280 / 200													
32VDC Shut-off Premium Brushless		8												
CESL810	1000 / 700													
CESL810S	500 / 350													
CESL811	1000 / 700													
CESL812	1000 / 700													
CESL823/823P	100/700													
CESL823F/823PF	2000													
CESL824/824P	1000/700													
CESL824F/824PF	2000													
CESL827/827P	1200/900													
32VDC Right Angle Drivers		9												
CESL823/RA	1000 / 700													
CESL823F/RA	2000													
CESL824/RA	1000													
CESL824F/RA	2000													
40VDC Shut-off Handheld Drivers		12												
CESL828/828P	1000													
CESL828F/828PF	2000													
CESL829/829P	1000													
40VDC Handheld/ Fixture Mount		12-13												
CESL835M/835PM/CESP835	1000 / 750													
CESL845M/845PM/CESP845	800/600													
CESL855M/855PM/CESP855	550/400													
CESL855FM/855PFM	880/660													
CESL865M/865PM/CESP865	350/250													
CESL865FM/865PFM	600/450													
CESL875M/875PM	350/250													
40VDC Handheld/ Fixture Mount		12												
CESL935/935P	1000 / 750													
CESL935F/935PF	2200/1650													
CESL945/945P	1000/750													
CESL955/955P	880/660													
40VDC Right Angle Drivers		14												
CESL828/RA / 828F/RA	1000 (2000)													
CESL829/RA	1000													
CESL835M/RAB	1000													
CESL845M/RAB	800													
CESL855M/RAB	550													
CESL865M/RAB	350													



SCREWDRIVER FEATURES

Our drivers are designed with operator ergonomics in mind. Most models feature a cushioned grip for operator comfort. Our 12V, 32V and 40VDC Screwdrivers are available with ESD-Safe housings for assembling sensitive components. Other features include:



Suspension bail allows for hanging tool from tool balancer for improved ergonomics and tool life.



Stepless external torque adjustment includes scale (0-8) for reference purposes (scale does not indicate actual torque value).



Quick change bit holder accepts industrial screwdriver bits:
ESL210-211: 4mm round bits
All other models: 1/4" hex power bits



Torque Repeatability - Delta Regis Electric Drivers utilize precise clutches for repeatable performance. The factory target values are:
32VDC Shut-off Clutch: +/- 3%
12VDC / 40VDC: +/- 5%

Please note that actual repeatability is joint dependent. It will vary based on factors such as joint type and consistency, lubrication, speed, operator input, and test equipment.



All models have a forward/reverse switch conveniently positioned for thumb operation.



A torque lock sleeve can be installed in place of the standard front housing nut to cover the torque adjustment and prevent accidental changes. 12VDC and 32VDC brushless models include a torque lock sleeve.

ESL2 SERIES MINI BRUSHLESS, SHUT-OFF CLUTCH



.01-.34 Nm
.07-3.1 in.lb

The Delta Regis ESL2 Series Miniature Shut-Off Screwdriver provides excellent low torque repeatability in a small package for precise installation of small screws. The screwdriver's brushless 12VDC motor ensures durability and low maintenance. Each tool includes a 2m cable for connecting to the required BECT200 Controller.

Tool Includes



TOP-MOUNTED REVERSE BUTTON
AND DETACHABLE 2m TOOL CABLE



BECT200
HI/LO SPEED CONTROLLER

2 BITS:
ESL210 - PH#00, #0
ESL211 - PH#0, #1



4mm BIT DRIVE FOR
MINIMAL RUN-OUT



TORQUE LOCK SLEEVE



Features

- Compact size designed for installing miniature fasteners. Ideal for assembly of cell phones and other small electronics
- Precise shut-off clutch provides excellent repeatability
- Torque range of 0.07 - 3.08 in-lbs (0.01 - 0.34 Nm)
- Low RPM models available for slow-speed applications
- ESD safe tool housing is standard (non-ESD available)
- Lever start, top-mounted reverse button
- 12VDC brushless motor requires no maintenance
- Bit holder accepts 4mm round winged bits (2 included)
- Tool and controller are CE/RoHS compliant; Controller is ETL approved



12VDC Brushless Screwdrivers & Controllers

Model No. with Controller ^(1,2)	Range In.Lbs	Range Nm	Speed (RPM) Hi / Lo
ESL210-ESD / BECT200	0.07 - 1.32	0.01 - 0.147	1000 / 700
ESL210S-ESD / BECT200	0.07 - 1.32	0.01 - 0.147	280 / 200
ESL211-ESD / BECT200	0.44 - 3.08	0.05 - 0.343	1000 / 700
ESL211S-ESD / BECT200	0.44 - 3.08	0.05 - 0.343	280 / 200
Dimensions (mm): 165 (L) x 23 (dia) / (in): 6.5 (L) x 0.9 (dia)			Weight: 170g / 0.4lbs

⁽¹⁾ Screwdriver and Controller are packaged and sold as a set. Above dimensions are for the screwdriver only.

⁽²⁾ Controller includes standard North American power cord. Add suffix 'E' for EU cord, suffix 'UK' for UK cord.

BECT200 Controller Specifications

Input 100-240VAC, 50/60hz, 1A ; Output 12/9VDC, 30W



CESL8 32VDC PREMIUM BRUSHLESS, SHUT-OFF CLUTCH

.02-2.94 Nm
0.2-26 in.lb

The Delta Regis CESL8 Series Premium Brushless Screwdrivers provide the ultimate combination of ergonomics, precision, performance and environmental cleanliness to the installation of fasteners. The quiet, brushless DC motor does not create the carbon dust generated by the brushes in a conventional DC motor. The motor's low power consumption results in a tool that runs cooler, even under demanding applications.

The CESL8 Series 32VDC Brushless Screwdriver can be used with either the standard BECT620C/820 Hi/Lo Speed Controller or with our BECT832-SSO FASTEN/COUNT/VERIFY Controller for applications requiring batch counting and input/output interface with external equipment.



Tool Includes



6 PIN, 2m
TOOL CABLE



ACCESSORY TORQUE
LOCK SLEEVE



BITS:
CESL810-812: PH#00, #0, #1
CESL823-824: PH#1, #2
CESL827: PH#2 (x2)

Features

- Precise Torque Control, Low Torque Reaction
- Quiet, Brushless DC motor means no carbon dust - 3 year motor warranty.
- Compact body design results in exceptional manouverability and operator comfort
- Less heat build-up and higher duty cycle capabilities than conventional brush motors
- 32V DC models available with ESD or Non-ESD housing
- CE, RoHS Compliant

32VDC Brushless Screwdriver Models

Model No. w/ESD Housing	Model No. without ESD	Start Type	Range (In.Lbs)	Range (Nm)	Speed (RPM) Hi	Speed (RPM) Lo	Driver Bit Type	Length mm / in	Diameter mm / in	Weight g / lbs
CESL810-ESD ⁽²⁾	-	Lever	0.2 - 3.1	0.02 - 0.35	1000	700	1/4" hex	185 / 7.3	32 / 1.3	385 / 0.8
CESL810S-ESD ⁽²⁾	-		0.2 - 3.1	0.02 - 0.35	500	350				
CESL811-ESD ⁽²⁾	CESL811 ⁽²⁾		0.4 - 6.2	0.05 - 0.69	1000	700				
CESL812-ESD ⁽²⁾	CESL812 ⁽²⁾		0.9 - 8.7	0.10 - 0.98	1000	700				
CESL823-ESD	CESL823	Lever	1.3 - 10.5	0.15 - 1.18	1000	700	1/4" hex	245 / 9.6	36 / 1.4	520 / 1.1
CESL823F-ESD ⁽¹⁾	CESL823F ⁽¹⁾		1.3 - 10.5	0.15 - 1.18	2000	-				
CESL824-ESD	CESL824		2.6 - 16.5	0.29 - 1.86	1000	700				
CESL824F-ESD ⁽¹⁾	CESL824F ⁽¹⁾		2.6 - 14.7	0.29 - 1.67	2000	-				
CESL823P-ESD	CESL823P	Push	1.3 - 10.5	0.15 - 1.18	1000	700				
CESL823PF-ESD ⁽¹⁾	CESL823PF ⁽¹⁾		1.3 - 10.5	0.15 - 1.18	2000	-				
CESL824P-ESD	CESL824P		2.6 - 16.5	0.29 - 1.86	1000	700				
CESL824PF-ESD ⁽¹⁾	CESL824PF ⁽¹⁾		2.6 - 14.7	0.29 - 1.67	2000	-				
CESL827-ESD ⁽¹⁾⁽³⁾	CESL827 ⁽¹⁾⁽³⁾	Lever	8.7 - 26.0	0.98 - 2.94	1200	900	1/4" hex	278 / 10.9	39.5 / 1.6	800 / 1.8
CESL827P-ESD ⁽¹⁾⁽³⁾	CESL827P ⁽¹⁾⁽³⁾	Push	8.7 - 26.0	0.98 - 2.94	1200	900				

⁽¹⁾ Use controller model BECT820 with these screwdrivers.

⁽²⁾ Driver available with optional 4mm round (winged bit) bit holder. Add suffix '-4mm' to model number.

⁽³⁾ CESL827 is for hard joint, non-prevailing torque applications below 20% duty cycle. Use 40V model CESL828 for more demanding requirements.

32VDC RIGHT ANGLE DRIVERS

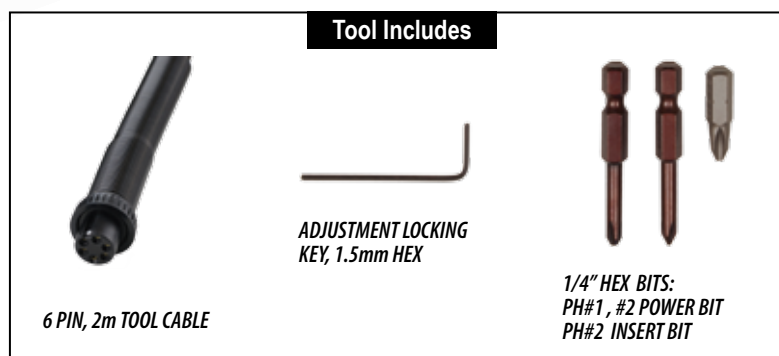


0.1-1.3 Nm
0.9-12 in.lb

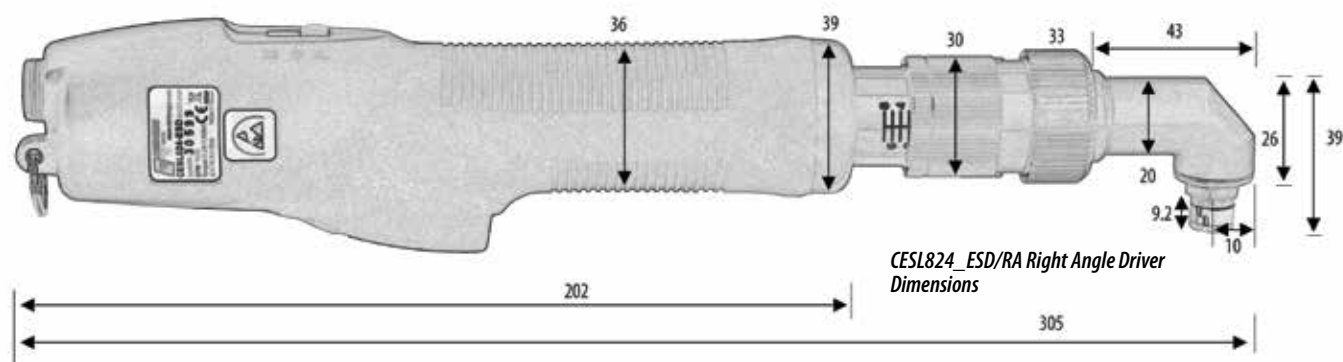
Delta Regis 32VDC Right Angle Drivers allow screwdrivers access to fasteners located in areas that cannot be reached by a standard in-line tool.



CESL824_ESD/RA Right Angle Driver



-RA Right Angle Drivers					
Model No. (Standard Housing)	Model No. (w/ ESD Housing)	Range (In.Lbs)	Range (Nm)	Speed (RPM)	Weight g / lbs
CESL823/RA	CESL823-ESD/RA	0.9 - 7.3	0.11 - 0.83	1000/700	770 / 1.7
CESL823F/RA	CESL823F-ESD/RA	0.9 - 7.3	0.11 - 0.83	2000	
CESL824/RA	CESL824-ESD/RA	1.8 - 11.6	0.20 - 1.30	1000/700	
CESL824F/RA	CESL824F-ESD/RA	1.8 - 10.4	0.20 - 1.17	2000	



CESL824_ESD/RA Right Angle Driver
Dimensions



32 VDC CONTROLLERS & ACCESSORIES

The BECT620C/820 Controllers are specifically for use with CESL810-827 Brushless Tools. One controller (ordered separately) is required per screwdriver. CE/RoHS/ETL Approved.

**BECT820
CONTROLLER**



Controllers for 32VDC Brushless Drivers							
Model Number ⁽¹⁾	Outlets	Speeds	Tool Connector	Input	Output	Dimensions L x W x H (mm)	Weight kg / lbs
BECT620C	1	Hi / Lo	6 pin	100-240V AC	32/24V DC, 60W	145 x 60 x 35	0.25 / 0.6
BECT820					32/24V DC, 120W	195 x 76 x 56	0.45 / 1

⁽¹⁾ Part number with North American cordset. For EU cord, add suffix 'E', UK cord add suffix 'UK'.

Accessories

Select driver model no. on the right, follow column down the chart; X signifies an appropriate accessory.

Torque Lock Sleeve - covers torque adjusting nut to deter tampering (1 included), metal lock sleeves also available											
DR80-20133C			X								
DR80-20133E (ESD safe)	X	X									
DR80-10134C						X	X				
DR80-10134E (ESD safe)				X	X						
DR80-20142C										X	X
DR80-20142E (ESD safe)								X	X		
Pistol Grip Attachment - reconfigures an in-line screwdriver for horizontal fastener installation											
DR80-PG623/4						X					
DR80-PG623/4ESD				X							
DR80-PG623/4P							X				
DR80-PG623/4PESD					X						
DR80-PG628/9										X	
DR80-PG628/9ESD								X			
DR80-PG628/9P											X
DR80-PG628/9PESD					X				X		
Tool Holster - fasten to the edge of a workbench and park the screwdriver when not in use											
DR80-10136 (w/ lock sleeve)				X	X	X	X	X	X	X	X
DR80-20136 (no lock sleeve)				X	X	X	X				
DR80-20141	X	X	X								
Cable Assemblies - for use with all 32VDC CESL8 Screwdrivers running on std hi/low speed controllers											
DR96-66002	2m (6.5 ft), 6 pin, Standard Cable (included with each screwdriver)										
DR96-66003	3m (9.8 ft), 6 pin, Optional Long Cable										
DR96-66003/C	3m (9.8 ft), 6 pin, Coiled Cable with 0.4m whip ends										
DR96-66006	6m (19.6 ft), 6 pin, Optional Long Cable										
Shielded Tool Cables - Use with Count/Verify Controllers and ECT8-SSOA Advanced I/O Module											
DR96-832X3MSH	3m (9.8 ft), 6 pin, Optional Long Cable (included with BECT832-SSO, ECT8-SSOA)										
DR96-832X5MSH	5m (16ft), 6 pin, Shielded Cable										
DR96-832X10MSH	10m (32ft), 6 pin, Shielded Cable										



DR80-PG628/9



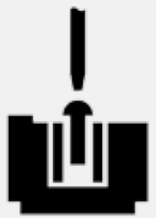
DR80-10136



Standard

Shielded

DRFF PRECISION SCREW FEEDER



The Fast Feed 520 utilizes a precision feed system suitable for almost any type of screw. The Fast Feed 520 also features three adjustments giving the user superb control over feed speed and time. Thanks to the flexible design of the rail, it can be quickly adjusted to feed screw sizes from 1.0 to 5.2 mm thread diameter.

Features

- One rail to accommodate many screw sizes
- Multiple adjustments = Optimized feed rate
- Fewer moving parts increases the durability
- Low maintenance / Easy to service
- Quiet operation



Specifications

Model Number	DRFF-520
Screw Thread Diameter	1.0-5.2mm (#0-#10)
Max. Screw Length	19mm (0.75 in)
Dimensions L x W x H	183 x 125 x 142 mm
Weight kg / lbs	2.5 / 5.5
Accessories (included)	
AC Adapter, Rail Adjustment Kit, Operation Manual	

The DRFF-520 is compact, lightweight and costs only a fraction of the price of a conventional bowl feeder.

The feeder features three potentiometer adjustments to dial in the optimal feed rate for your specific application and screw type.

Vibration Intensity controls the vibration frequency of the rail that moves the screws from the hopper to the pickup point.

The Drum Rotation Timer and Vibration Timer control the amount of extra run-time for each of these functions after a screw has arrived into position at the pickup point.



Rail Adjustment Kit (included)



The rotating drum inside the hopper is capable of quickly supplying screws to the vibrating rail. The rail feeds the screws smoothly, resulting in a screw replenishment rate that is fast enough to keep up with the quickest operators.





CESL8/9 40VDC BRUSHLESS SCREWDRIVERS

1-12 Nm
9-106 in.lb

Delta Regis 40VDC Premium Brushless Screwdrivers pack the performance to satisfy demanding assembly applications. With torque capabilities to 25 Nm and brushless motor technology that withstands higher duty cycles, these drivers are ready to perform on production lines typically dependent on pneumatic tools. As with all Delta Regis Shut-off Clutch Screwdrivers, excellent torque repeatability is the fundamental building block that defines these models. A host of screwdriver configurations, accessories and control options are available to make the 40VDC Series an ideal choice for production assembly across a wide range of industries.



CESL828/829 drivers have powerful brushless motors to handle demanding applications. Fast versions are available to speed-up production lines that require installation of long fasteners.

CESL8 Handheld Inline Drivers

Model Number ⁽¹⁾	Start Type	Range (In.Lbs)	Range (Nm)	Speed (RPM)	Drive Type
Inline Body Style, Handheld ⁽¹⁾					
CESL828	Lever	8.9 - 26.0	0.98 - 2.94	1000	1/4" hex
CESL828F		8.9 - 26.0	0.98 - 2.94	2000	
CESL829		17.4 - 43.4	1.96 - 4.90	1000	
CESL828P	Push	8.9 - 26.0	0.98 - 2.94	1000	1/4" hex
CESL828PF		8.9 - 26.0	0.98 - 2.94	2000	
CESL829P		17.4 - 43.4	1.96 - 4.90	1000	
Dimensions (mm): 278(L) x 39.5(dia)			Weight: 0.8 kg / 1.76lbs		

Tool Includes



⁽¹⁾ ESD Safe housing available - add suffix '-ESD'



Tool Includes



Delta Regis CESL9 Series Screwdrivers are engineered to perform in tough applications. The slim design and threaded metal front end make it an ideal choice for fixture mount and auto-screwfeed applications. A powerful motor and integrated fan keep the driver running cooler, particularly on soft joint and higher cycle applications. 40VDC Series drivers are capable of developing high torques - side handles are included where suitable. We recommend mounting in a torque reaction arm for ultimate ergonomics and operator safety.

CESL9 Handheld/Fixture Mount

Model Number	Start Type	Range (In. Lbs)	Range (Nm)	Speed (RPM)	Bit Type
CESL935	Lever	18-53	2-6	1000/750	1/4" hex
CESL935F		18-53	2-6	2200/1650	
CESL945		27-79	3-9	1000/750	
CESL955		53-106	6-12	880/660	
CESL935P	Push	18-53	2-6	1000/750	1/4" hex
CESL935PF		18-53	2-6	2200/1650	
CESL945P		27-79	3-9	1000/750	
CESL955P		53-106	6-12	880/660	
Dimensions (mm): 306(L) x 41.4(dia) / (in): 12(L) x 1.6(dia)				Weight: 1.03kg / 2.3lbs	

HIGH TORQUE PREMIUM BRUSHLESS, SHUT-OFF CLUTCH



2-25 Nm
18-221 in.lb



3/8" SQUARE DRIVE
ADD SUFFIX '-SQ'

CESL8_M Series Screwdrivers incorporate an aluminum front collar to facilitate fixture mounting and include an accessory side handle for handheld applications.

Tool Includes



TOP CONNECTION
ADD SUFFIX '-U'

Tool Includes



CESL8_M Handheld / Fixture Mount

Model Number ⁽¹⁾	Start Type	Range (In.Lbs)	Range (Nm)	Speed (RPM)	Drive Type
Inline Body Style, Handheld or Fixture Mount					
CESL835M	Lever	18 - 53	2 - 6	1000/750	1/4" hex ⁽²⁾
CESL845M		27 - 79	3 - 9	800/600	
CESL855M		36 - 106	4 - 12	550/400	
CESL855FM		36 - 106	4 - 12	880/660	
CESL865M		53 - 159	6 - 18	350/250	
CESL865FM		53 - 159	6 - 18	600/450	
CESL875M		71 - 221	8 - 25	350/250	
CESL835PM	Push	18 - 53	2 - 6	1000/750	1/4" hex ⁽²⁾
CESL845PM		27 - 29	3 - 9	800/600	
CESL855PM		36 - 106	4 - 12	550/400	
CESL855PFM		36 - 106	4 - 12	880/660	
CESL865PM		53 - 159	6 - 18	350/250	
CESL865PFM		53 - 159	6 - 18	600/450	
CESL875PM		71 - 221	8 - 25	350/250	
Dimensions (mm): 297(L) x 46.2(dia) / (in): 11.7 (L) x 1.81 (dia)					
Weight: 1.25 kg / 2.75lbs (CESL875, 1.45kg / 3.2lbs)					

(1) ESD Safe housing available - add suffix '-ESD'

(2) 3/8" Square Drive Available - add suffix '-SQ'

CESP8 Brushless Pistol Grip Drivers

Model Number (1)	Start Type	Range (In.Lbs)	Range (Nm)	Speed (RPM)	Drive Type
Pistol Grip Body Style					
CESP835	Trigger	18 - 53	2 - 6	1000/750	1/4" hex
CESP835-SQ		18 - 53	2 - 6	1000/750	3/8" square
CESP845		27 - 79	3 - 9	800/600	1/4" hex
CESP845-SQ		27 - 79	3 - 9	800/600	3/8" square
CESP855		36 - 106	4 - 12	550/400	1/4" hex
CESP855-SQ		36 - 106	4 - 12	550/400	3/8" square
CESP865		53 - 159	6 - 18	350/250	1/4" hex
CESP865-SQ		53 - 159	6 - 18	350/250	3/8" square
Dimensions (mm): 270(L) x 169(H) x 48(dia)				Weight: 1.2 kg / 2.64lbs	

(1) Pistol Grip tool has cable connection in bottom of handle as standard.
For top rear connection, add suffix 'U' to model number.

(1) ESD Safe housing available - add suffix '-ESD'

CESP8 Pistol Grip tools come standard with the cable connection at the bottom of the handle - top rear cable connection is optional.

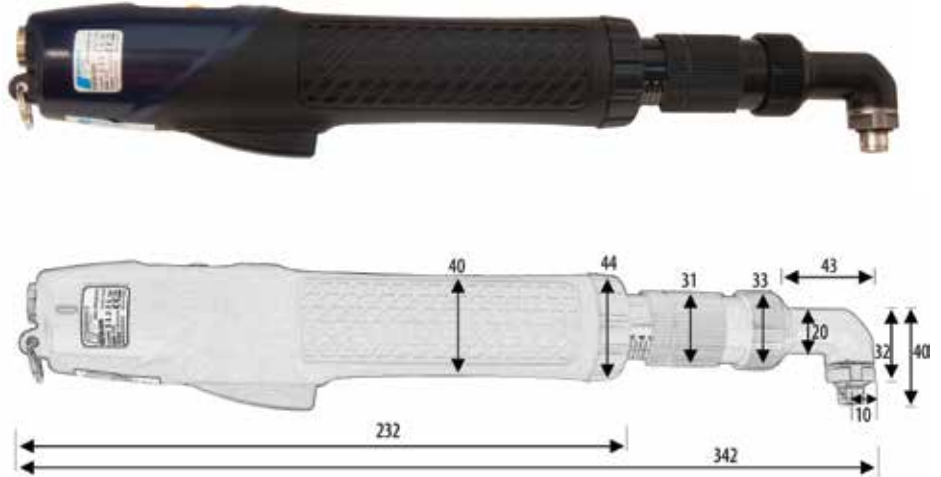
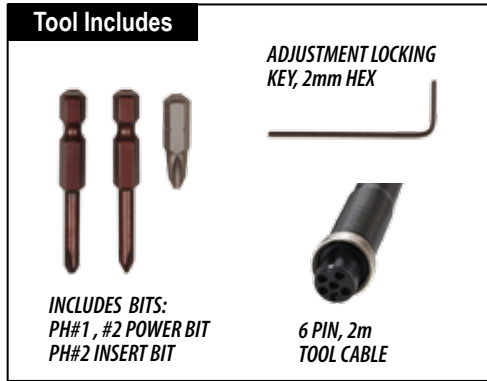


CESL8 40VDC RIGHT ANGLE DRIVERS

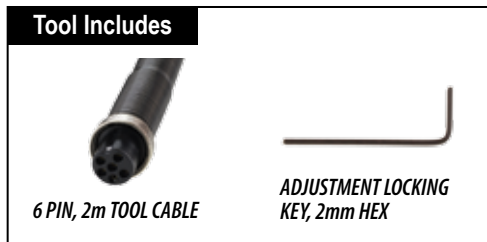
1-20 Nm
9-177 in.lb

The Delta Regis 40VDC 90° Right Angle Drivers are a combination of a standard 40V high torque inline screwdriver with an added angle head attachment for access to tight areas.

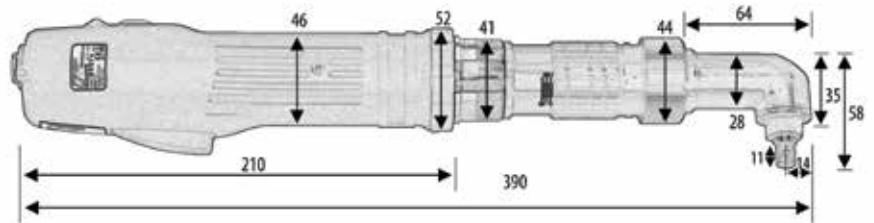
1/4" Hex Drive Models CESL828-829/RA, 0.98-3.61 Nm (8.9-32 In.Lbs)



*CESL828-829/RA: Right Angle Driver
Dimensions(mm)*



3/8" Sq. Drive Models CESL835M-875M/RAB, 2-20 Nm (18-177 In.Lbs)



*CESL8_M/RAB Right Angle Driver
Dimensions(mm)*

CESL8_M/RAB / RA Right Angle Drivers						
Model No. (Standard Housing)	Model No. (w/ ESD Housing)	Range (In.Lbs)	Range (Nm)	Speed (RPM)	Drive Type ⁽¹⁾	Weight kg / lbs
Right Angle Head Driver, 3/8" square drive, optional swivel bail						
CESL828/RA	CESL828-ESD/RA	8.9 - 19	0.98 - 2.15	1000	1/4" hex	0.77 / 1.7
CESL828F/RA	CESL828F-ESD/RA	8.9 - 19	0.98 - 2.15	2000		
CESL829/RA	CESL829-ESD/RA	17.4 - 32	1.96 - 3.61	1000		
CESL835M/RAB	CESL835M-ESD/RAB	18 - 45	2 - 5	1000	3/8" square	1.77 / 3.9
CESL845M/RAB	CESL845M-ESD/RAB	27 - 67	3 - 7.5	800		
CESL855M/RAB	CESL855M-ESD/RAB	36 - 90	4 - 10	550		
CESL865M/RAB	CESL865M-ESD/RAB	53 - 145	6 - 15	350		
CESL875M/RAB	CESL875M-ESD/RAB	71 - 177	8 - 20	350		

⁽¹⁾ 1/4" hex available. Please contact our sales department for further inquiries.

40VDC BRUSHLESS CONTROLLERS & ACCESSORIES



There are two standard Hi/Lo Speed Controllers available for the 40VDC Brushless Drivers. The BECT640HL is used primarily for screwdriver models CESL828-829 (F/P/PF). The high power output model BECT940HL is used for the higher torque 40VDC tools. CE/ROHS/ETL Approved.



BECT640HL
HI/LO SPEED CONTROLLER

Power Supplies / Controllers

Model Number	Outlets	Speeds	Tool Connector	Output	Input	Dimensions L x W x H (mm)	Weight kg / lbs	Use only with Screwdriver Models
BECT640HL	1	Hi/Lo	6 pin	40/30VDC, 220W	100-240VAC, 6.3A	220 x 134 x 85	1.8 / 4	CESL828-829(P/F)
BECT940HL	1	Hi/Lo	6 pin	40/30VDC, 360W	100-240VAC, 6.3A	220 x 134 x 85	1.8 / 4	CESL835-875M(PM) CESP835-865, CESL9

Power supply shipped with standard North American cordset. For EU cord, add suffix 'E'; for UK cord, add suffix 'UK'.

Accessories

Select driver model no. on the right, follow column down the chart; X signifies an appropriate accessory.

Accessories	CESL828 (F) CESL829	CESL828P (PF) CESL829P	CESL828 (F) - ESD CESL829 - ESD	CESL828P (F) - ESD CESL829P - ESD	CESL835M - 875M	CESL835PM - 875PM	CESP835 - 865	CESL835M / RA - CESL865M / RA
Select driver model no. on the right, follow column down the chart; X signifies an appropriate accessory.								
Torque Lock Sleeve - covers the torque adjusting nut to deter tampering (*1 included with 828/829 drivers)								
DR80-20142C (Clear) *	X	X						
DR80-20142E (ESD safe) *			X	X				
DR80-20142M (Metal)	X	X	X	X				
Pistol Grip Attachment - reconfigures an in-line screwdriver for horizontal fastener installation								
DR80-PG628/9	X							
DR80-PG628/9ESD			X					
DR80-PG628/9P		X						
DR80-PG628/9PESD				X				
Tool Holster - fasten to the edge of a workbench and park the screwdriver when not in use								
DR80-10136	X	X	X	X				
DR80-TH8-9	X	X	X	X				
Cable Assemblies - for use with all 40VDC CESL8/CESP8 Screwdrivers running on std hi/lo speed controllers								
DR96-10016M	2m (6.5 ft), 6 pin, Standard Cable (included with each screwdriver)							
DR96-10018M	3m (9.8 ft), 6 pin, Optional Long Cable							
DR96-10018M/C	3m (9.8 ft), 6 pin, Coiled Cable with 0.4m whip ends							
DR96-10020M	6m (19.6 ft), 6 pin, Optional Long Cable							
Shielded Tool Cables - use with Count/Verify Controllers and ECT8-SSOB Advanced I/O Module								
DR96-840X3MSH	3m (9.8 ft), 6 pin, Shielded Cable (included with BECT840/940-SSO, ECT8-SSOB)							
DR96-840X5MSH	5m (16 ft), 6 pin, Shielded Cable							
DR96-840X10MSH	10m (32 ft), 6 pin, Shielded Cable							



ESD

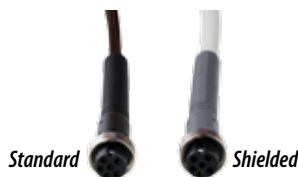
Non-ESD



DR80-PG628/9



DR80-TH8-9



Standard

Shielded



COUNTING CONTROLLER: 40 V/32V BRUSHLESS DRIVERS

Add error-proofing to your Delta Regis brushless driver with the BECT832/840/940-SSO Counting Controller. Available functions include Slow Start, Batch Counting, and OK/NG Rundown Indication based on the screwdriving cycle occurring within a predefined time window. An I/O terminal strip provides the interface to outputs for rundown OK, rundown NG, and batch complete. External switches can be wired to the input terminals for remote screwdriver enable/disable, remote start/reverse, and clear (reset batch count).

Features

- Selectable **Slow Start** Speed and Time
- Large LED Display of Screw Count Values
- Externally Accessible **I/O Connections**
- **Programmable Batch Counting** with Audible Buzzer indicating batch complete
- **Programmable Time Window** for comparison with actual fastening cycle time - LED's indicate **OK/NG** rundown cycle
- Optional **Timed Auto-Reverse** for applications requiring back-out after fastening
- Locks to limit access to program modifications
- BECT832-SSO operates 32V CESL8 Screwdrivers, BECT840/940-SSO run 40V CESL8 Series Drivers
- ETL / CE / RoHS Compliant



Counting Controller Model & Specifications

Model Number	Outlets	Speeds	Approvals	Output	Input	Dimensions L x W x H (mm) / (in)	Weight kg / lbs
BECT832-SSO	1	Hi/Lo	CE/RoHS/ETL	32/24V DC, 60W	100-240V AC, 1.2A	200 x 130 x 100 7.9 x 5.1 x 3.9	1.6 / 3.5
BECT840-SSO				40/32/24V DC, 220W	100-240V AC, 6.3A	248 x 130 x 100	2.5 / 5.5
BECT940-SSO				40/32/24V DC, 360W		9.8 x 5.1 x 3.9	
Use with driver models:		BECT832-SSO for 32V screwdrivers only: CESL810-812, CESL823-824(P/F/PF), CESL827(P) BECT840-SSO: CESL828-829(P/F/PF) + all 32V CESL8 drivers (DR96-40TO32V-WHIP cable req'd when using 32V drivers)) BECT940-SSO: CESL835M-875M(PM), CESP835-865, CESL935-955(P/F/PF)					

Power supply shipped with standard North American cordset. For EU cord, add suffix 'E'; for UK cord, add suffix 'UK'.

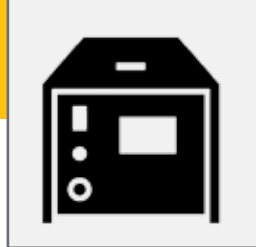
Features	
Slow Start Time Adjustment	0 - 9.9 sec
Slow Start Speed Adjustment	30 - 100%
Count (per batch)	1 - 99
Time Window Setting Range (min/max)	0 - 9.9 sec
Audible Alert (selectable)	Good/NG/Batch OK
Timed Auto-Reverse after Clutch-out	0 - 9.9 sec

Inputs (Dry switch contact req'd)
1. Remote Start
2. Remote Reverse
3. Disable Screwdriver
4. External Confirm
5. Enable at Batch Start
6. Remote Clear

Outputs (MOS relay) (max. 40VDC, 250mA)
1. Rundown OK
2. Rundown NG
3. Batch Complete

Inputs require an external switch (dry contact) only. A 24 VDC voltage supply is available to power the output circuit, if required.

BECT840-SSO CONTROLLER OVERVIEW



Parameters are set-up on the BECT832/840/940-SSO using the four button keypad and LED display panel. A simple program loop provides access to settings for slow start speed and time, batch count quantity, and min/max allowable rundown times. During normal operation, the large two-digit display shows the current screw count value and also provides visual LED indication of whether the rundown was Good or No Good based on the time window parameters that have been programmed into the controller.

REMOTE SEQUENCING OPTION (-3SL)

In some applications, there may be a requirement to remotely select from one of the available sequences that have been programmed into the controller. The '-3SL' model number suffix replaces the standard remote start/reverse inputs with a remote sequence selection input option. With this option, one of 3 sequences may be selected by providing a remote input from a PLC or external switches. To order a BECT840-SSO controller with this option, use model number BECT840-SSO-3SL. Please contact us for further details.



Keypad for programming and selection



Hi/Lo Speed Selector

Program Lock

Brushless Screwdriver Cable Connection



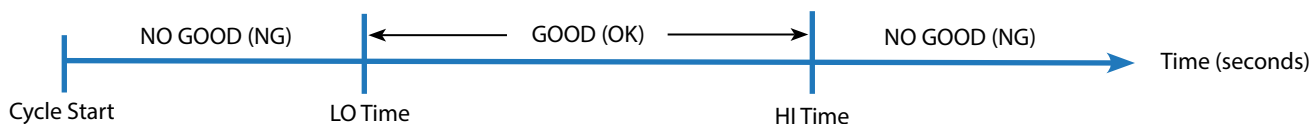
DIP Switch for optional functionality

PWR SUPPLY AVAILABLE:
24VDC, 1A / COM (0 VDC)
INPUTS:
ENABLE/DISABLE
REMOTE START/REVERSE
CLEAR, CONFIRM
OUTPUTS:
OK / NG / OK ALL

BECT840/940-SSO include an output voltage selector switch for use with 32V screwdrivers



Plug-in I/O connector has screw terminals for connecting wiring



If the fastening cycle completes (clutch trips) within the programmed time window, the rundown cycle will be accepted as GOOD (OK) and the batch count will increment. A rundown outside the time parameters will result in a NG output.



ECT8-SSO SLOW START & I/O MODULE

Delta Regis ECT8-SSO Series Control Modules are ideal for processes that require more functionality than is provided by the standard hi/lo speed controller. The module installs in-line between the controller and the driver. It has a whip cable which plugs into the controller, and a 6 pin connector to accept the screwdriver cable. An LED display and programming buttons are provided for set-up of slow start parameters. Depending on the model, either basic output signals or advanced I/O connections are available for interfacing to external equipment.

ECT8-SSOA / ECT8-SSOB Advanced Multi-Function Input/Output Modules



Push buttons and LED display for setting slow start parameters. Indicator lights show status of input / output signals.



Bypass switch to disable control functionality.



ECT8-SSO Module plugs in-line between a CESL8/9 Series Driver and a standard 32V or 40VDC Hi/Lo Speed Controller.

(1) 3M long shielded tool cable is included with each ECT8-SSOA/B module to use in place of the standard unshielded tool cable that is included with the driver.



DIP switch settings control specific I/O functions



INPUTS (dry switch contact required)
- Remote Start and Remote Reverse
- Remote Enable/Disable

OUTPUTS (MOS relay, max. 40VDC, 250mA)
- Tool Started/Running
- Clutch Tripped
- Tool in Reverse

Model Number	Use with Screwdriver Models	Compatible with Controller Models
ECT8-SSOA (32V Tools)	CESL810-812, 823-827(P/F/PF)	BECT620C/IC, BECT820
ECT8-SSOB (40V Tools)	CESL828-829(P/F/PF), CESP835-865, CESL835M-875M(PM), CESL935-955(P/F/PF)	BECT640HL, BECT940HL

Features		Inputs (dry contact switch req'd)	Relay Outputs (max. 40VDC, 250mA)	Dimensions L x W x H
Slow Start Time Adjustment	0 - 9.9 sec	1. Remote Start	1. Tool Started/Running	103 x 100 x 32 mm
Slow Start Speed Adjustment	~ 30 - 100%	2. Remote Reverse	2. Clutch Activated	4.1 x 3.9 x 1.3 in
Max. Run Time Setting	0 - 9.9 sec	3. Remote Enable/Disable	3. Tool in Reverse	Weight: 180 g / 0.4 lbs

ECT8-SSOC / ECT8-SSOD Basic Modules with Slow Start & Output Signals

Basic modules are available for applications requiring only slow start and/or output signals that can be interfaced with external equipment. The slow start function offers the same adjustments as the advanced module shown above. The output signals (tool running/clutch activated/tool in reverse) are via dry relay contacts (40VDC, 250mA max).

Model Number	Use with Screwdriver and Controller Models	Relay Outputs (max. 40VDC, 250mA)
ECT8-SSOC (32V Tools)	CESL810-812, 823-827(P/F/PF) ; BECT620C/IC, BECT820	Tool Running, Clutch Activated, Tool in Reverse
ECT8-SSOD (40V Tools)	CESL828-829(P/F/PF), CESP835-865, CESL835M-875M(PM), CESL9 ; BECT640/940HL	

PRESET & ADJUSTABLE MANUAL TORQUE DRIVERS



0.15-6 Nm
1.25-50 in.lb

Series 7400 Torque Screwdrivers

Features

More and more screw connections in service and industry have to be tightened to a prescribed torque. Only the exact torque guarantees a secure fastening.

Our adjustable models can be adjusted in fine increments allowing for controlled tightening. Preset models come preset to their lowest setting and can be changed within their available torque range.

- Ergonomic handle provides better turning power with less effort resulting in more power and speed with less operator fatigue.
- Quick change bit holder accommodates insert and power bits.
- Accuracy is +/- 6% (complies with EN ISO 6789).
- Calibration certificate provided with each tool.
- 1/4" Hex Drive.

Model Number	Type	Style	Range	Graduations
DR95-A7440M	Adjustable	Straight	0.3-1.2 Nm	0.05 Nm
DR95-A7441M		Straight	1.2-3.0 Nm	0.10 Nm
DR95-A7442PM		Pistol	3.0-6.0 Nm	0.25 Nm
DR95-A7445		Straight	2.5-11.5 in.lbs	0.5 in.lbs
DR95-A7446		Straight	11-29 in.lbs	1.0 in.lbs
DR95-A7447P		Pistol	25-50 in.lbs	2.5 in.lbs
DR95-P7465	Preset	Straight	2.5-11.5 in.lbs	-
DR95-P7466		Straight	11-29 in.lbs	-
DR95-P7467P		Pistol	25-50 in.lbs	-



Adjustable Straight and Pistol Styles with Quick Release Bitholder

Series 1000 Torque Screwdrivers

Features

Whether the need is for preset torque screwdrivers for the assembly line or adjustable ones for field maintenance, the compact precision and versatility of our screwdrivers provides the ability to assure quality on an ongoing basis.

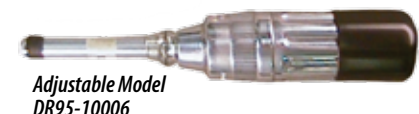
- Clutch releases automatically when preset torque is attained - no over torquing. Anti-backlash design for repeatability

- Can be used in both right and left hand directions
- Accuracy of +/- 6% indicated value meets or exceeds ANSI B107.14M and ISO 6789
- Comes with free NIST traceable certification
- 1/4" Hex Drive

Model Number	Type	Style	Range	Graduations
DR95-10002	Adjustable	Straight	15 - 74 cNm	1 cNm
DR95-10003			20 - 100 in.oz	1 in.oz
DR95-10006			2 - 36 in.lbs (0.2 - 4.0 Nm)	2 in.lbs (0.2 Nm)
DR95-10004	Preset	Straight	20 - 100 in.oz (15 - 74 cNm)	-
DR95-10005			3 - 15 in.lbs (0.34 - 1.7 Nm)	-
DR95-10007			7 - 36 in.lbs (0.8 - 4.0 Nm)	-



Adjustable Models
DR95-10002 & DR95-10003





DRTQ TOUCH-SCREEN TORQUE TESTER



Specifications

Models (max torque)	10 in.lb, 25 in.lb, 100 in.lb, 250 in.lb, 100 ft.lb
Accuracy	$\pm 0.5\%$ of reading (20-100% full scale) $\pm 1\%$ or ± 1 digit (10% to $<20\%$ full scale)
Maximum Overload	150% of full scale (‘Overload’ displays at 110% +)
Battery	3.7V Li-ion, 4400mAh 4 hrs continuous run, 12 hrs standby
AC Adapter / Charger	Input: 100-240 VAC, 50/60 Hz Output: 5 VDC, center positive
Dimensions (L x W x H)	229 x 102 x 80 mm 9 x 4 x 3.13 in
Weight	2.7 kg / 6 lbs
Included with each tester	AC Adapter, Carrying Case, Calibration Cert, Manual, Rundown Joint ⁽¹⁾

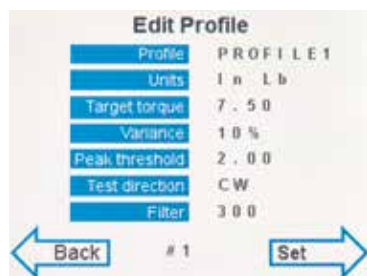
Features

- Full color LCD touch screen
- Processes statistical calculations: CP, CPK, Sigma
- On screen statistics: Torque calculator and graphing for performance analysis
- Export data directly to an SD card
- Automatic screen rotation (level sensor flips screen between vertical and horizontal mode)
- ‘Quick Run’ mode provides the ability to quickly audit and verify a tool
- ‘Measure mode’ allows users to establish acceptable tolerances - eight configurable torque test profiles available
- Eight available measurement units: in.oz, in.lb, ft.lb, Nm, cNm, kgF.cm, gF.cm, kgF.m
- Li-ion technology provides extended battery life
- Battery saving features: Sleep Mode, Back Light Timer, Automatic Shutdown
- Up to 4 hours of continuous use - 12 hours standby
- Peak mode: For use with manual, electric, pneumatic, and cordless torque controlled tools (not for use with impact tools)
- Track Mode: For use with dial or electronic torque wrenches
- Advanced user programmable options: Auto Clear, Date/Time, Peak Time, Screen Brightness
- 2 year warranty
- Made in North America

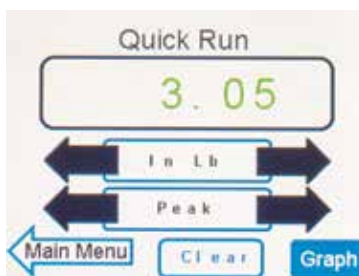


Each DRTQ Torque Tester includes:
protective carrying case, user manual,
calibration certificate, AC adapter, and
rundown joint**
(**joint not included with DRTQ-100-f)

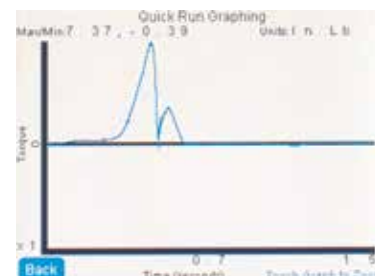
DRTQ TOUCH-SCREEN TORQUE TESTER



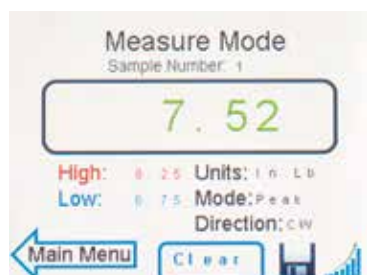
Configure up to 8 unique profiles to accommodate different test strategies.



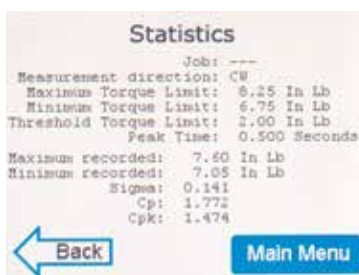
Use Quick Run mode to perform a single run torque test and view a graph of the results.



Resulting graph displays torque vs. time. Tap an area of the graph to zoom up to 4 times the size.



Use Measure Mode to evaluate a series of torque readings based on the profile parameter settings.



Statistics are calculated based on profile settings and evaluation of the sample group readings.



Sample group torque readings & statistics can be saved with a file name to an SD card for export.

DRTQ Torque Tester Models

Model Number	Torque Range		Input Drive (female)
DRTQ-160-z	16.00 - 160.00 in.oz	(0.11 - 1.13 Nm)	1/4" square drive
DRTQ-10-i	1.00 - 10.00 in.lb	(0.11 - 1.13 Nm)	1/4" square drive
DRTQ-25-i	2.50 - 25.00 in.lb	(0.28 - 2.82 Nm)	1/4" square drive
DRTQ-100-i	10.00 - 100.00 in.lb	(1.13 - 11.30 Nm)	1/4" square drive
DRTQ-250-i	25.00 - 250.00 in.lb	(2.82 - 28.25 Nm)	3/8" square drive
DRTQ-100-f ⁽¹⁾	10.00 - 100.00 ft.lb	(13.56 - 135.58 Nm)	1/2" square drive

⁽¹⁾ Rundown joint is not included with DRTQ-100-f, sold separately

Each DRTQ Torque Tester is dead-weight calibrated with certified mass standards and arms to verify conformance to the stated accuracy of $\pm 0.5\%$ of indicated value (from 20-100% of full scale). A calibration certificate is included with each tester.

DRTQ Accessories

Part Number	Description
DRTQ-MOUNT	Reaction collar for bench mounting
DRTQ-RDA-1/4	1/4" sq.dr. joint simulator (70 in.lb / 8 Nm max)
DRTQ-RDA-3/8	3/8" sq.dr. joint simulator (250 in.lb / 28 Nm max)
DRTQ-RDA-1/2	1/2" sq.dr. joint simulator (60 ft.lb / 80 Nm max)
DRTQ-ELEC3045	AC Adapter, 100-240VAC input / 5VDC output





ERGO-12 TELESCOPIC TORQUE REACTION ARM

The ERGO-12 Telescopic Reaction Arm is used to absorb and transfer the reaction force generated at the screwdriver during fastening, without having a significant effect on freedom of movement, thereby reducing operator fatigue. Through the use of carbon-fiber tubes, the arm is extremely tough while being light at the same time. With the universal mounting adapter, the ERGO-12 is capable of being mounted problem-free in most work areas.

Telescopic carbon-fiber tubes have been polished for a precision fit and are guided in low wear polymer bushings.



Solidly constructed rotation and swivel joints. The universal adapter allows for easy mounting in most work environments.



Sturdy tool holder accepts tool diameters of 26 to 55 mm. Optimize tool mounting by selecting the aluminum torque lock sleeve for your model of Delta Regis screwdriver. Contact us for further details.

Telescopic Arm Model Number	Max. Torque in-lb / Nm	Max. Work Radius mm / in	Min. Work Radius mm / in	Fits Tool Diameter mm / in	Weight kg / lbs
ERGO-12-L-HZ	106 / 12	962 / 37.8	515 / 20.3	26 - 55 / 1.0 - 2.1	0.57 / 1.3
ERGO-30-L-HZ	265 / 30	962 / 37.8	515 / 20.3	26 - 55 / 1.0 - 2.1	0.68 / 1.5

DR90-20004 ECONOMY TORQUE REACTION ARM

Reduce employee injury by absorbing torque transmission, eliminating repetitive strain on hands, wrists and arms. These arms are capable of supporting tools up to 5 lbs (2.27 kg) while withstanding torque reaction up to 20 ft-lbs (27 Nm).

Features

Two versions are available to suit either pneumatic tool or electric tool mounting. The DR90-20004P has a 1/4" npt threaded female port for mounting an in-line air tool vertically using a pipe nipple. The DR90-20004E includes an electric tool adaptor to provide for clamping around the body of an electric screwdriver.

- Adjustable height. Parallel arm design maintains tool perpendicular to work surface.
- Tool weight is supported by a spring loaded arm assembly. Spring tension is adjustable.



DR90-20004E
Torque Arm

Part Number	Description
DR90-20004E	Torque Arm for Electric Screwdriver
DR90-20004P	Torque Arm for Pneumatic Driver
DR90-20002	Optional Bench Clamp

E-MIDI PRECISION PARALLEL TORQUE ARM



The E-MIDI Parallel Torque Arm is designed to maintain a power tool in a vertical attitude. A maximum of 4 pneumatic lift cylinders remove the weight of the tool from the operator's hand. Reaction torque is isolated from the operator and transferred through the base of the arm to the mounting surface. All pivot points combine tight machining tolerances with ball and needle bearings for precision and ease of motion.

Features

- Precision arm designed to hold screwdrivers and tappers
- Perfect for higher torque Brushless Series screwdrivers
- Consistency of arm improves driver torque repeatability
- No torque reaction from the tool to the operator (max torque 25 Nm)

Solid construction provides smooth arm movement. All moving axes equipped with ball and/or needle bearings.

Pneumatic cylinder(s) support the weight of the tool. Adjustable air pressure regulator varies lifting force. Non-return valve protects from sudden dropping. Requires compressed air supply.

Sturdy tool holder accepts tool diameters of 26 to 55 mm. Optimize tool mounting by selecting an aluminum torque lock sleeve that corresponds to your model of Delta Regis Electric Screwdriver. Visit our website or contact us for optional metal lock sleeve part numbers.



Specifying a model number:

Use the chart below to select a model number for the arm.

Vertical Travel mm / in	Torque Max. (Nm)	Torque Arm Weight kg / lbs
368 / 14.5	25	7.2 / 15.9

The standard configuration is:

EMIDI-1-1-0-1-1 (800mm work radius, 1 cylinder (max tool weight 2kg), no encoders, 560mm high mounting column)

EMIDI	-	Work Radius	-	# of Cylinders	-	Angle Encoder	-	Column Height	-	Tool Holder
		X		X		X		X		X
		1 = 800 mm		1 = 2 kg max		0 = none		0 = no column		1 = standard
		2 = 990 mm		2 = 4 kg max		1 = X/Y encoders		1 = 560 mm		(26-55mm)
				3 = 6 kg max		(no controller)		2 = 915 mm		
				4 = 8 kg max						



TOOL STAND AND BALANCERS

DR90-30001 Tool Stand

Using a tool balancer in conjunction with a tool stand will keep your screwdriver at the ready, leaving your work area clear when not in use. The DR90-30001 tool stand fastens directly to your workbench (screws req'd). An optional extra arm kit can be used to suspend two tools from the same stand.



Optional Accessories



Part Number	Description
DR90-30001	Tool Stand - 110 cm high, 60 cm reach, 2.3 kg (5 lbs) maximum load
DR90-3ARMKIT	Extra Arm Kit - 60 cm reach, includes slider and hanging clip
DR90-3CLAMP	Bench Clamp - Fastens stand to edge of workbench, no drilling req'd

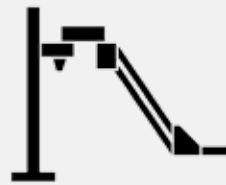
Tool Balancers

A tool balancer mounted directly above the assembly area is an ideal way to prolong the service life of a power tool while keeping it readily available for use. Our spring-rewind balancers have adjustable retract force and a maximum vertical travel of 6 feet.



Part Number	Description
DR90-10101	Tool Balancer - 0.23 - 0.68 kg (0.5 - 1.5 lbs), 1.8m (6') travel
DR90-10103	Tool Balancer - 0.68 - 1.36 kg (1.5 - 3.0 lbs), 1.8m (6') travel
DR90-10105	Tool Balancer - 1.36 - 2.27 kg (3.0 - 5.0 lbs), 1.8m (6') travel
DR90-10104	Economy Balancer - 0.6 - 1.5 kg (1.3 - 3.3 lbs), 1.8m (6') travel

ERGO-SYS TOOL SUPPORT SYSTEM



Features

For excellent tool support combined with tool torque reaction capability, choose the Delta Regis ERGO-SYS Tool Support System. Each system includes the following:

- (1) DR90-30001 Tool Stand
- (1) ERGO-12-L-HZ Torque Reaction Arm
- (1) DR90-1010_ Tool Balancer*

Optional Metal Lock Sleeves are available. Contact our sales department for further details.



*Select the system with the balancer that best suits the weight of the tool being supported. Optional metal lock sleeve and tool stand bench clamp can be purchased as separate accessories if required. (Screwdriver not included).

System Part No	Includes Balancer	Supports Tool Weight
ERGO-SYS-1	DR90-10101	0.5 - 1.0 lbs
ERGO-SYS-3	DR90-10103	1.0 - 2.5 lbs
ERGO-SYS-5	DR90-10105	2.5 - 4.5 lbs



VAC PICKUP ATTACHMENT

SCREWDRIVER VACUUM PICK-UP ATTACHMENT

Need to hold a non-ferrous fastener with the bit of your electric screwdriver? The Delta Regis Vacuum Pickup Attachment is a miniature, bit-mounted vacuum nozzle. The vacuum attachment is held on the screwdriver bit by a collet appropriately sized for the shank diameter of the bit. This allows for initial positioning of the pickup nozzle relative to the tip of the screwdriver bit. The nozzle tip is spring loaded and has a small amount of linear travel. The head of the screw seals up against the end of the nozzle and the nozzle rotates with the screw and driver bit. The outer collar of the attachment remains stationary and connects to a vacuum supply.



Vacuum Pickup Attachment With Driver Bit

The vacuum pickup attachment is ordered as an assembly complete with the required screwdriver bit. The nozzle which seals the vacuum against the fastener rotates with the screw head and driver bit. The table below outlines options to specify a model number for the assembly. Please note that the bit types and nozzle configurations shown below cover the most common applications. Please contact us for information on other bit types or special nozzle configurations.

Model #

VACPU

H70PH1

30

A

M2

Material Code	Nozzle Material
A	Aluminum
B	Brass
S	Stainless

Code	Bit Type (1/4" Hex)	Bit Length (mm)	Replacement Bit Part #	Bit Tip Dia (mm)	Bit shank Dia (mm)	Collet Dia Code
H70PHX	PH #00	70	DR91-1202XRD-A	2	3	30
H70PH0	PH #0	70	DR91-12020RD-A	2.5	3	30
H70PH1	PH #1	70	DR91-12021RD-A	2.5	3	30
H70PH2	PH #2	70	DR91-12022RD-A	3	4	40
H70TX5	TX5	70	DR91-135171	3	3	30
H70TX6	TX6	70	DR91-134740	3	3	30
H70TX8	TX8	70	DR91-060098	3	3	30
H70TX10	TX10	70	DR91-060100	4	4	40
H70TX15	TX15	70	DR91-060105	4	4	40
H89IP6	6IP	89	DR91-134667	3	3	30
H89IP8	8IP	89	DR91-134670	3	3	30
H89IP9	9IP	89	DR91-134669	3	3	30
H70IP10	10IP	70	DR91-134684	4	4	40
H70IP15	15IP	70	DR91-134686	4	4	40

Nozzle Code	Length (mm)	OD (mm)	ID (mm)
'M' Nozzles require min. 70mm bit length			
M0	10	6.4	3.2
M1	10	6.4	4
M2	10	6.4	4.5
M3	10	8	5
M4	10	8	6.4
Select a nozzle with an ID at least 1mm larger than the bit tip diameter. Nozzle ID must be smaller than the screw head OD.			



Vacuum Pump (Pneumatic)



The DR80-VACPUMP acts as a vacuum source for the VACPU assembly. The vacuum generator operates on a compressed air supply and includes an ON/OFF slide valve and a pressure regulator to adjust the vacuum flow. 2.5m (8 ft) of 6mm OD tubing is included to connect the VACPUMP to the fitting on the vacuum pickup attachment.

Air Supply requirements: 1 SCFM, 45-90 psig, 1/4" npt inlet port

Driver Bits & Bit Holders

Delta Regis offers a comprehensive selection of Screwdriver Bits, Nutsetters, and Bit Holders. Due to the extensive range of product, we have chosen to maintain an updated PDF list of available accessory bits on our website at www.deltaregis.com/Accessories/Driver_Bits.

We offer bits in standard 1/4" hex drive for screws with Phillips, Slot, Torx, Square and Socket heads. A limited selection of bits with 4mm and 5mm round shank (winged) drive are also available. Magnetic and non-magnetic Nutsetters and Bit Holders of various lengths and configurations are available to suit specific application requirements. Minimum purchase quantities may apply, depending on the item.

Please give us a call or send us an e-mail if you require an accessory item that you don't see listed on our website or in our catalog. We'll be glad to try and assist you in getting the proper accessory to use with your Delta Regis screwdriver.



TORQUE CONVERSION FACTORS

oz-in	lb-in	lb-ft	kgf-cm	Nm
oz-in x 0.0071 = Nm	lb-in x 0.1130 = Nm	lb-ft x 1.356 = Nm	kg-cm x 0.01 = kg-m	Nm x 0.1020 = kg-m
oz-in x 0.0007 = kg-m	lb-in x 0.0115 = kg-m	lb-ft x 0.1383 = kg-m	kg-cm x 13.89 = in-oz	Nm x 10.197 = kg-cm
oz-in x 0.0720 = kg-cm	lb-in x 1.152 = kg-cm	lb-ft x 13.826 = kg-cm	kg-cm x 0.868 = in-lb	Nm x 141.60 = oz-in
oz-in x 0.0625 = lb-in	lb-in x 16.0 = oz-in	lb-ft x 192 = oz-in	kg-cm x 0.0723 = lb-ft	Nm x 8.851 = lb-in
oz-in x 0.0052 = lb-ft	lb-in x 0.08333 = lb-ft	lb-ft x 12 = lb-in	kg-cm x 0.098 = Nm	Nm x 0.7376 = lb-ft

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