

DELTA REGIS

Tools Inc.

- Brushless Electric Screwdrivers
- Torque Testers
- Screw Feeders
- Tool Supports



WARRANTY

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.

INDEX

INFORMATION

| | |
|-----------------------------------|-----|
| WARRANTY | 2 |
| DRIVER SELECTION GUIDE & FEATURES | 4-7 |
| TORQUE CONVERSION TABLE | 5 |

ELECTRIC SCREWDRIVERS & CONTROLLERS



| | |
|--|-------|
| 12V MINI (0.07-3.08 in-lbs) | 8 |
| 32V INLINE (0.2-26.0 in-lbs) | 9 |
| 32V ANGLE (0.9-18.2 in-lbs) | 10 |
| 32V CONTROLLERS, ACCESSORIES | 11 |
| 40V INLINE (8.9-443 in-lbs) | 12-14 |
| 40V ANGLE (8.9-195 in-lbs) | 15 |
| 40V PISTOL (2.7-159 in-lbs) | 16 |
| 40V CONTROLLERS, ACCESSORIES | 17 |
| COUNTING CONTROLLERS | 18-19 |
| SLOW START & I/O MODULES | 20 |
| 120V INLINE / ANGLE (1.33-21.7 in-lbs) | 21 |

SCREW FEEDERS, TORQUE TESTERS, ACCESSORIES



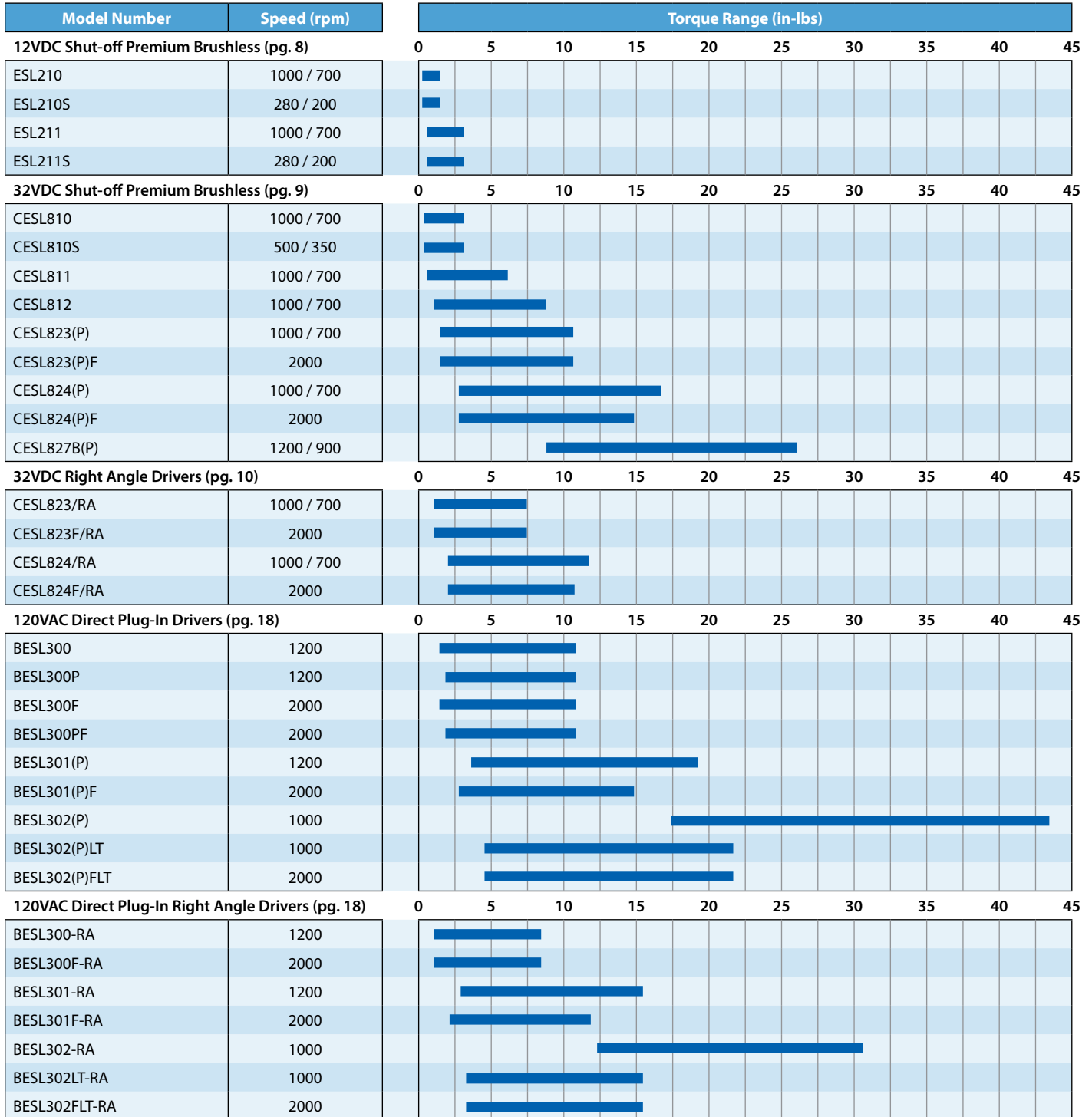
| | |
|--|-------|
| SCREW FEEDERS, 1.0-5.2 MM THREAD DIAMETER | 22-23 |
| MANUAL TORQUE DRIVERS, PRESET AND ADJUSTABLE | 29 |
| DRTQ TORQUE TESTERS, 1 IN-LB-100 FT-LBS | 24-25 |
| VACUUM PICKUP ATTACHMENT | 30-31 |
| SCREWDRIVER BITS AND BIT HOLDERS | 31 |

TORQUE ARMS & TOOL SUPPORTS

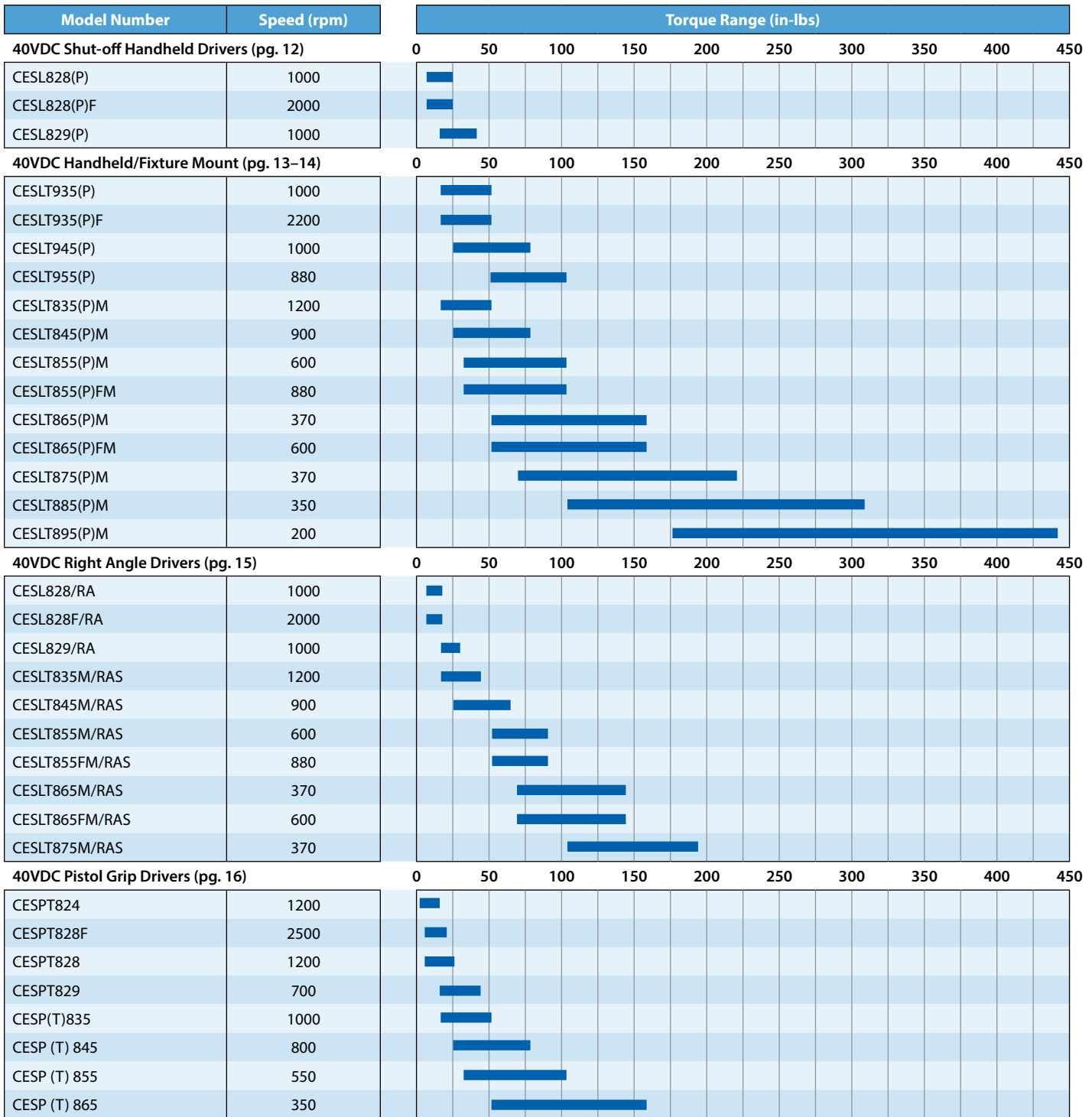


| | |
|------------------------------------|----|
| TELESCOPIC REACTION ARMS, 12/30 NM | 26 |
| TOOL STAND AND TOOL BALANCERS | 27 |
| ERGO-SYS STAND, BALANCER AND ARM | 28 |

BRUSHLESS SCREWDRIVERS MODEL OVERVIEW



BRUSHLESS SCREWDRIVERS MODEL OVERVIEW



TORQUE CONVERSION TABLE
(row * cell = column)

| | in-oz | in-lbs | ft-lbs | kgf-cm | Nm |
|--------|--------|--------|---------|--------|--------|
| in-oz | 1 | 0.0625 | 0.0052 | 0.0720 | 0.0071 |
| in-lbs | 16 | 1 | 0.08333 | 1.152 | 0.1130 |
| ft-lbs | 192 | 12 | 1 | 13.826 | 1.1356 |
| kgf-cm | 13.89 | 0.868 | 0.0723 | 1 | 0.098 |
| Nm | 141.60 | 8.851 | 0.7376 | 10.197 | 1 |

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 previous pages 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 are available for slow start, I/O and counting with rundown verification. All brushless tools come with a precise shut-off clutch for excellent repeatability.

Our 40VDC High Torque models are an excellent upgrade from pneumatic tools in many applications. The clean brushless motor and consistent clutch overcome torque and environmental problems that can be associated with drivers running on compressed air.

SCREWDRIVER FEATURES

Torque Repeatability — Delta Regis Electric Drivers utilize precise clutches for repeatable performance. Each 32VDC and 120VAC driver is tested at mid-scale for repeatability within $\pm 3\%$. 12VDC and 40VDC drivers are tested for repeatability of $\pm 5\%$ or better. Please note that these are factory test values and 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.

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

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

12V, 32V, 40VDC screwdrivers are available with ESD-safe housings for assembling sensitive components.

Our drivers are designed with operator ergonomics in mind. Most models feature a cushioned grip for operator comfort.

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



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, 32VDC, and selected 40VDC brushless models include a torque lock sleeve.



ESL2 12VDC MINI BRUSHLESS, SHUT-OFF CLUTCH

0.07–3.08 in-lbs (0.01–0.343 Nm)

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.

- 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 speed models available for sensitive 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
- **Requires external power controller BECT200 sold separately**



Tool Includes



| Model Number | Torque Range | | Speed (rpm) | Length mm / in | Diameter mm / in | Weight g / lbs |
|--------------|--------------|------------|-------------|----------------|------------------|----------------|
| | in-lbs | Nm | | | | |
| ESL210-ESD | 0.07–1.32 | 0.01–0.147 | 1000 / 700 | 165 / 6.5 | 23 / 0.9 | 170 / 0.4 |
| ESL210S-ESD | 0.07–1.32 | 0.01–0.147 | 280 / 200 | | | |
| ESL211-ESD | 0.44–3.08 | 0.05–0.343 | 1000 / 700 | | | |
| ESL211S-ESD | 0.44–3.08 | 0.05–0.343 | 280 / 200 | | | |

| Controller* | Input | Output | Dimensions (L x W x H) | Weight (g / lbs) |
|-------------|----------------|--------------|--|------------------|
| BECT200 | 100–240VAC, 1A | 12/9VDC, 30W | 100 x 50 x 35 mm / 3.9 x 2.0 x 1.4" | 145 / 0.3 |

*Part number with North American cordset — Add suffix 'E' for EU cord, or suffix 'UK' for UK cord.



CESL8 32VDC PREMIUM BRUSHLESS, SHUT-OFF CLUTCH

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, and its 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 BECT620N/820N Hi/Lo Speed Controller or with our BECT832N-SSO FASTEN/COUNT/VERIFY Controller for applications requiring batch counting and input/output interface with external equipment.

- Precise torque control, low torque reaction
- Quiet, brushless DC motor means no carbon dust — 3 year motor warranty
- Compact body design results in exceptional maneuverability and operator comfort
- Less heat build-up and higher duty cycle capabilities than conventional brush motors
- Optional ESD-safe housing available
- CE/RoHS compliant



0.2–26.0 in-lbs (0.02–2.94 Nm)

Tool Includes



| Model Number | | Start Type | Torque Range | | Speed (rpm) | Driver Bit Type | Length mm / in | Diameter mm / in | Weight g / lbs |
|------------------|-----------------|------------|--------------|-----------|-------------|-----------------|----------------|------------------|----------------|
| Standard Housing | ESD Housing | | in-lbs | Nm | | | | | |
| — | CESL810-ESD | 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 | | | | 500 / 350 | | | | |
| CESL811 | CESL811-ESD | | 0.4–6.2 | 0.05–0.69 | 1000 / 700 | | | | |
| CESL812 | CESL812-ESD | | 0.9–8.7 | 0.10–0.98 | 1000 / 700 | | | | |
| CESL823 | CESL823-ESD | Lever | 1.3–10.5 | 0.15–1.18 | 1000 / 700 | 1/4" hex | 245 / 9.6 | 36 / 1.4 | 520 / 1.1 |
| CESL823P | CESL823P-ESD | Push | | | 2000 | | | | |
| CESL823F | CESL823F-ESD | Lever | | | | | | | |
| CESL823PF | CESL823PF-ESD | Push | | | | | | | |
| CESL824 | CESL824-ESD | Lever | 2.6–16.5 | 0.29–1.86 | 1000 / 700 | 1/4" hex | 245 / 9.6 | 36 / 1.4 | 520 / 1.1 |
| CESL824P | CESL824P-ESD | Push | | | | | | | |
| CESL824F | CESL824F-ESD | Lever | 2.6–14.7 | 0.29–1.67 | 2000 | | | | |
| CESL824PF | CESL824PF-ESD | Push | | | | | | | |
| — | CESL827B-ESD** | Lever | 8.7–26.0 | 0.98–2.94 | 1200 / 900 | 1/4" hex | 278 / 10.9 | 39.5 / 1.6 | 800 / 1.8 |
| — | CESL827BP-ESD** | Push | | | | | | | |

*Drivers available with optional 4mm round (winged bit) bit holder — Add suffix '-4mm' to model number

**CESL827B(P)-ESD is for hard joint, non-prevailing torque applications below 20% duty cycle. Use 40V model CESL828 for more demanding requirements.



32VDC RIGHT ANGLE DRIVERS

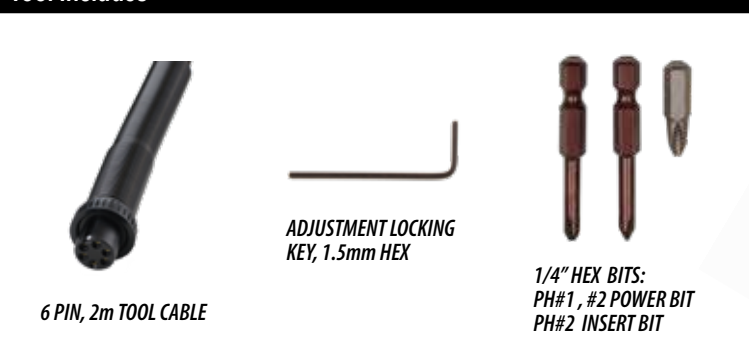
Delta Regis 32VDC Right Angle Drivers provide access to fasteners located in areas that cannot be reached by a standard in-line tool.

- Precise torque control, low torque reaction
- Quiet, brushless DC motor means no carbon dust
- Less heat build-up and higher duty cycle capabilities than conventional brush motors
- Optional ESD-safe housing available
- CE/RoHS compliant

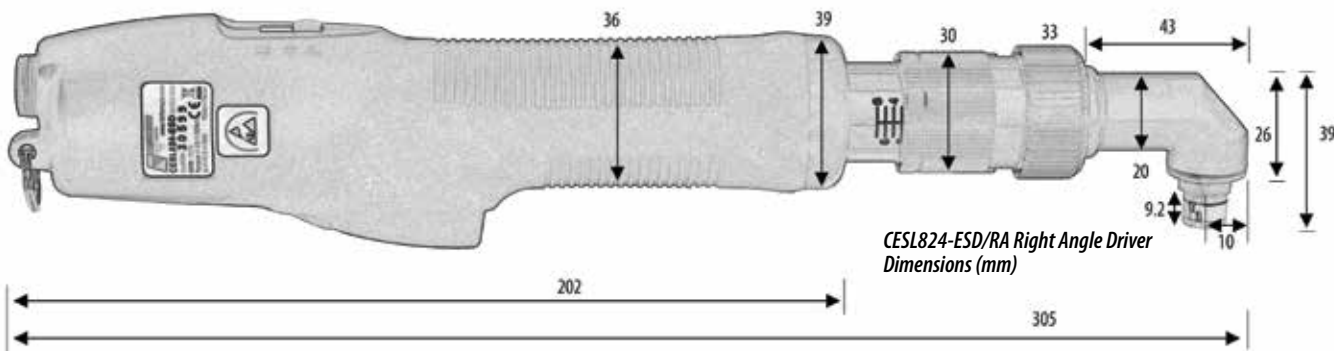


0.9–18.2 in-lbs (0.11–2.06 Nm)

Tool Includes



| Model Number (Standard Housing) | Model Number (w/ ESD Housing) | Torque Range | | Speed (rpm) | Weight g / lbs |
|---------------------------------|-------------------------------|--------------|-----------|-------------|----------------|
| | | in-lbs | Nm | | |
| 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 | |
| — | CESL827B-ESD/RA | 6.0–18.2 | 0.68–2.06 | 1200/900 | 1050 / 2.3 |



32VDC CONTROLLERS & ACCESSORIES

The BECT620N/820N Controllers are specifically for use with CESL810-827 Brushless Tools. One controller (ordered separately) is required per screwdriver.

CE/RoHS/ETL Approved.



BECT820N CONTROLLER

| Model Number* | Outlets | Speeds | Tool Connector | Input | Output | Dimensions L x W x H (mm) | Weight kg / lbs | Use only with Screwdriver Models |
|---------------|---------|--------|----------------|------------------|----------|---------------------------|-----------------|---|
| BECT620N | 1 | Hi/Lo | 6 pin | 100-240VAC, 2.0A | 32/24VDC | 145 x 60 x 35 | 0.25 / 0.6 | All 32VDC drivers except CESL823-824(P)F, CESL827B(P)-ESD |
| BECT820N | | | | 100-240VAC, 1.2A | 32/24VDC | 195 x 76 x 56 | 0.45 / 1.0 | All 32VDC drivers |

*Part number with North American cordset — Add suffix 'E' for EU cord, or suffix 'UK' for UK cord.

| Accessories | Select driver model number on the right, follow column down the chart; X signifies an appropriate accessory. | | | | | | | | |
|---|--|---------|---------|------------|------------|-------------|-------------|--------------|---------------|
| | CESL810(S) | CESL811 | CESL812 | CESL823(F) | CESL824(F) | CESL823P(F) | CESL824P(F) | CESL827B-ESD | CESL827BP-ESD |
| Torque Lock Sleeve — covers torque adjusting nut to deter tampering (1 included), metal lock sleeves also available (replace 'C' with 'E' in model number for ESD-safe version, or replace with 'M' for metal version) | | | | | | | | | |
| DR80-20133C (Clear, Non-ESD) | X | X | X | | | | | | |
| DR80-10134C (Clear, Non-ESD) | | | | X | X | X | X | | |
| DR80-10131E (ESD-Safe) | | | | | | | | X | X |
| Pistol Grip Attachment — reconfigures an in-line screwdriver for horizontal fastener installation (add 'ESD' to end of model number for ESD-safe version) | | | | | | | | | |
| DR80-PG823/4 | | | | X | X | | | | |
| DR80-PG823/4P | | | | | | 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 |
| DR80-20136 (no lock sleeve) | | | | X | X | X | X | | |
| DR80-20141 | X | X | X | | | | | | |



| 32VDC Cable Model | Length | Pins | Shielded? | Other Notes |
|-------------------|------------|------|-----------|--------------------------------------|
| DR96-66002M | 2m (6.5') | 6 | no | included with each driver |
| DR96-66003M | 3m (9.8') | 6 | no | — |
| DR96-66003M/C | 3m (9.8') | 6 | no | coiled cable with 0.4m whip ends |
| DR96-66006M | 6m (19.6') | 6 | no | — |
| DR96-832X3MSHA | 3m (9.8') | 6 | yes | included with BECT832-SSO, ECT8-SSOA |
| DR96-832X5MSHA | 5m (16') | 6 | yes | — |
| DR96-832X10MSHA | 10m (32') | 6 | yes | — |

CESL8 40VDC BRUSHLESS SCREWDRIVERS

8.9–43.4 in-lbs (0.98–4.90 Nm)

Delta Regis 40VDC Premium Brushless Screwdrivers pack the performance to satisfy demanding assembly applications. With 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. Fast versions of some screwdrivers are available to speed up production lines that require installation of long fasteners.

- Clean, powerful 40V brushless motor technology
- 1/4" hex drive
- High speed versions available
- Dependable, long lifespan
- Lever and push start versions available, forward/reverse switch
- Optional ESD-safe housing available
- CE/RoHS compliant



Tool Includes



1/4" HEX BITS:
PH#2 (x2)

TORQUE LOCK SLEEVE

6 PIN, 2m
TOOL CABLE

| Model Number* | Start Type | Torque Range | | Speed (rpm) | Drive Type | Length mm / in | Diameter mm / in | Weight kg / lbs |
|---------------|------------|--------------|-----------|-------------|------------|----------------|------------------|-----------------|
| | | in-lbs | Nm | | | | | |
| CESL828 | Lever | 8.9–26.0 | 0.98–2.94 | 1000 | 1/4" hex | 278 | 39.5 | 0.8 / 1.76 |
| CESL828P | Push | | | | | | | |
| CESL828F | Lever | | | 2000 | | | | |
| CESL828PF | Push | | | | | | | |
| CESL829 | Lever | 17.4–43.4 | 1.96–4.90 | 1000 | | | | |
| CESL829P | Push | | | | | | | |

*ESD-safe housing available — add suffix '-ESD'



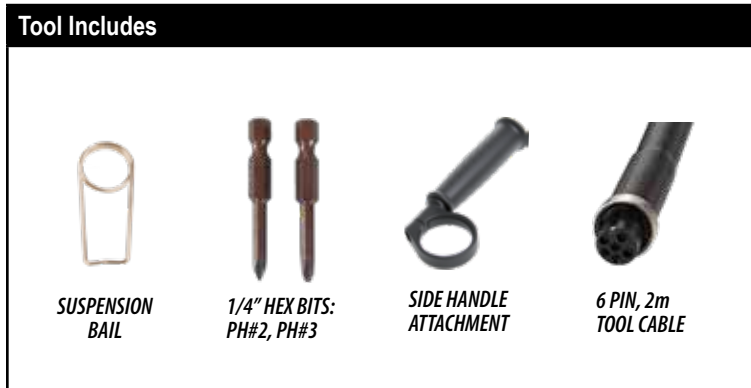
CESLT9 40VDC BRUSHLESS SCREWDRIVERS

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. These drivers must be used with the included side handle attachment or mounted in a torque reaction arm for operator safety.

- Clean, powerful 40V brushless motor technology
- Integrated fan keeps the driver running cooler
- 1/4" hex drive
- High speed versions available
- Dependable, long lifespan
- Lever and push start versions available, forward/reverse switch
- Threaded metal front end ideal of fixture mounting
- Ideal for integrating into blow feed applications
- Optional ESD-safe housing available
- CE/RoHS compliant

18-106 in-lbs (2-12 Nm)



| Model Number* | Start Type | Torque Range | | Speed (rpm) | Drive Type | Length mm / in | Diameter mm / in | Weight kg / lbs |
|---------------|------------|--------------|------|-------------|------------|----------------|------------------|-----------------|
| | | in-lbs | Nm | | | | | |
| CESLT935 | Lever | 18-53 | 2-6 | 1000 | 1/4" hex | 306 / 12 | 41.4 / 1.6 | 1.03 / 2.3 |
| CESLT935P | Push | | | | | | | |
| CESLT935F | Lever | | | 2200 | | | | |
| CESLT935PF | Push | | | | | | | |
| CESLT945 | Lever | 27-79 | 3-9 | 1000 | | | | |
| CESLT945P | Push | | | | | | | |
| CESLT955 | Lever | 53-106 | 6-12 | 880 | | | | |
| CESLT955P | Push | | | | | | | |

*ESD-safe housing available — add suffix '-ESD'



HIGH TORQUE PREMIUM BRUSHLESS, SHUT-OFF CLUTCH

CESLT8_M Series Screwdrivers incorporate an aluminum front collar to facilitate fixture mounting and each driver includes an accessory side handle for handheld applications (Excludes CESLT885/895(P)M Models).

40VDC Series drivers are capable of developing high torques. These drivers must be used with the included side handle attachment or mounted in a torque reaction arm for operator safety.

- Clean, powerful 40V brushless motor technology
- 1/4" hex drive
- Dependable, long lifespan
- Lever and push start versions available, forward/reverse switch
- Optional ESD-safe housing available
- CE/RoHS compliant



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

Tool Includes



SUSPENSION
BAIL

1/4" HEX BITS:
PH#3 (x2)

SIDE HANDLE
ATTACHMENT
(Excludes CESLT885/895(P)M Models)

6 PIN, 2m
TOOL CABLE

| Model Number* | Start Type | Torque Range | | Speed (rpm) | Drive Type | Length mm / in | Diameter mm / in | Weight kg / lbs | | | | |
|------------------|------------|--------------|-------|-------------|------------|----------------|------------------|-----------------|-------------|------------|-------------|------------|
| | | in-lbs | Nm | | | | | | | | | |
| CESLT835M | Lever | 18-53 | 2-6 | 1200 | 1/4" hex** | 297 / 11.7 | 46.2 / 1.81 | 1.25 / 2.75 | | | | |
| CESLT835PM | Push | | | | | | | | | | | |
| CESLT845M | Lever | 27-79 | 3-9 | 900 | | | | | | | | |
| CESLT845PM | Push | | | | | | | | | | | |
| CESLT855M | Lever | 36-106 | 4-12 | 600 | | | | | | | | |
| CESLT855PM | Push | | | | | | | | | | | |
| CESLT855FM | Lever | | | 880 | | | | | | | | |
| CESLT855PFM | Push | | | | | | | | | | | |
| CESLT865M | Lever | 53-159 | 6-18 | 370 | | | | | | | | |
| CESLT865PM | Push | | | | | | | | | | | |
| CESLT865FM | Lever | | | 600 | | | | | | | | |
| CESLT865PFM | Push | | | | | | | | | | | |
| CESLT875M | Lever | 71-221 | 8-25 | 370 | | | | | | | | |
| CESLT875PM | Push | | | | | | | | | | | |
| CESLT885M-SQ*** | Lever | 106-310 | 12-35 | 350 | | | | | 3/8" Square | 393 / 15.5 | 52.7 / 2.07 | 2.2 / 4.85 |
| CESLT885PM-SQ*** | Push | | | | | | | | | | | |
| CESLT895M-SQ*** | Lever | 177-443 | 20-50 | 200 | | | | | | | | |
| CESLT895PM-SQ*** | Push | | | | | | | | | | | |

*ESD-safe housing available — add suffix '-ESD'

**3/8" Square Drive Available — add suffix '-SQ'

***not intended for soft joint applications

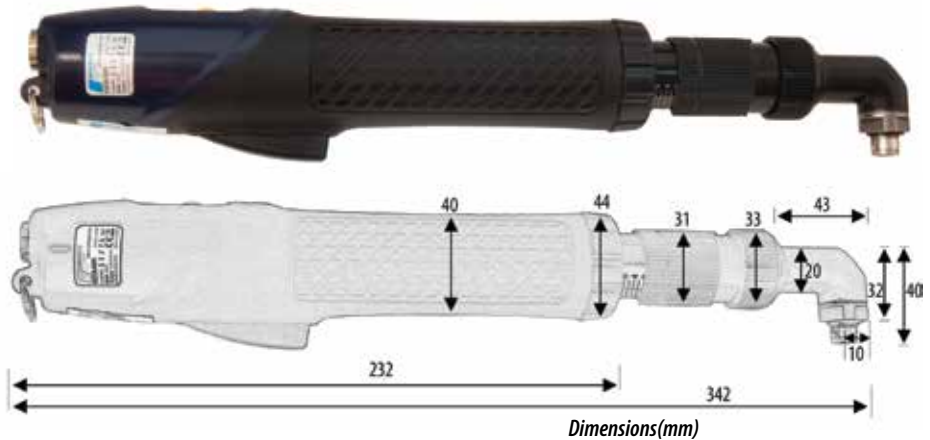
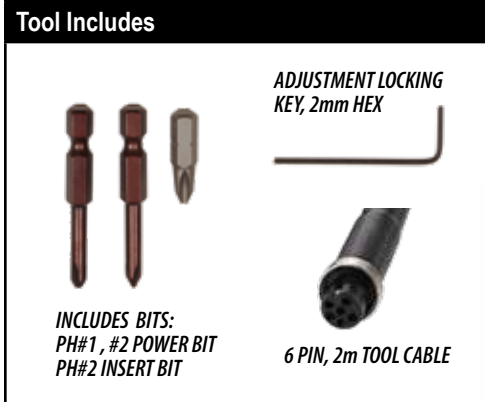
18-443 in-lbs (2-50 Nm)

CESL(T)8 40VDC RIGHT ANGLE DRIVERS

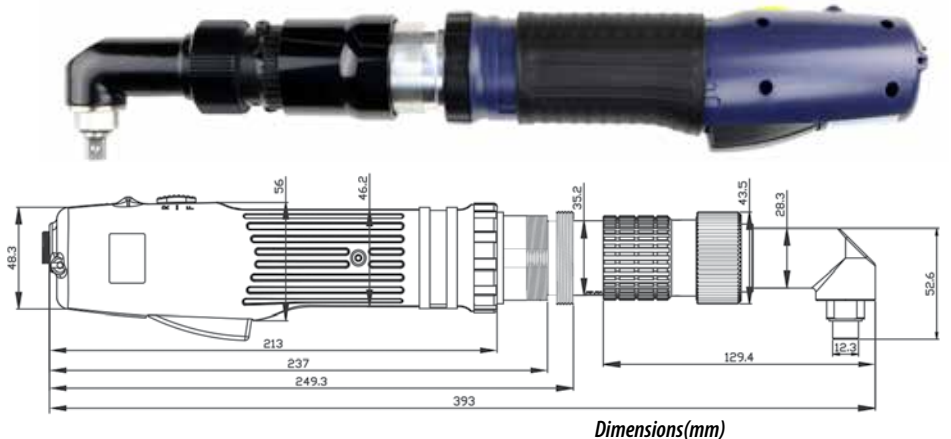
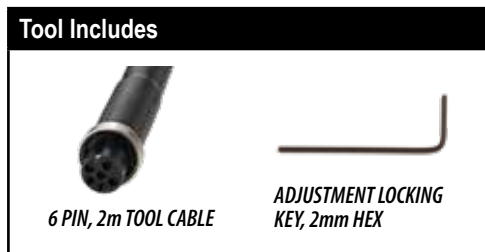
The Delta Regis 40VDC 90° Right Angle Drivers have a low-profile angle head attachment for applications with limited clearance. The right angle design provides the operator with a long handle to react the torque. CE/RoHS compliant.

8.9–195 in-lbs (0.98–22 Nm)

1/4" Hex Drive Models CESL828–829/RA, 0.98–3.61 Nm (8.9–32 in-lbs)



3/8" Sq. Drive Models CESLT835M–875M/RAS, 2–22 Nm (18–195 in-lbs)



| Model Number (Standard Housing) | Model Number (w/ ESD Housing) | Torque Range | | Speed (rpm) | Drive Type | Weight kg / lbs |
|---------------------------------|-------------------------------|--------------|-----------|-------------|--------------|-----------------|
| | | in-lbs | Nm | | | |
| 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 | | |
| CESLT835M/RAS | CESLT835M-ESD/RAS | 18–45 | 2–5 | 1200 | 3/8" square* | 1.77 / 3.9 |
| CESLT845M/RAS | CESLT845M-ESD/RAS | 27–67 | 3–7.5 | 900 | | |
| CESLT855M/RAS | CESLT855M-ESD/RAS | 53–90 | 6–10 | 600 | | |
| CESLT855FM/RAS | CESLT855FM-ESD/RAS | 53–90 | 6–10 | 880 | | |
| CESLT865M/RAS | CESLT865M-ESD/RAS | 71–145 | 8–15 | 370 | | |
| CESLT865FM/RAS | CESLT865FM-ESD/RAS | 71–145 | 8–15 | 600 | | |
| CESLT875M/RAS | CESLT875M-ESD/RAS | 106–195 | 12–22 | 370 | | |

*1/4" hex available — Replace "RAS" suffix with "RAH"

CESPT8 SERIES 40V PISTOL GRIP SCREWDRIVERS

2.7–159 in-lbs (0.3–18 Nm)

- Clean, powerful 40V brushless motor technology
- 1/4" hex drive
- Fan-cooled motor reduces heat build-up
- Dependable, long lifespan
- Two speed selections available
- Trigger start, forward/reverse switch
- Compact, ergonomic pistol housing
- Available with top or bottom cable connection
- Optional ESD-safe housing available
- CE/RoHS compliant



Tool Includes



| Model Number* | Torque Range | | Speed (rpm) | Screw Diameter (mm) | | Size (L x H) | Weight |
|---------------|--------------|---------|-------------|---------------------|---------|------------------------------|---------------------|
| | in-lbs | Nm | | Machine | Tapping | | |
| CESPT824 | 2.7–17.7 | 0.3–2 | 1200 | 2.3–3.5 | 2.3–3.0 | 185 x 150 mm (7.3 x 5.9") | 0.7 kg (1.5 lbs) |
| CESPT828F | 7.1–22.1 | 0.8–2.5 | 2000 | 2.6–4.0 | 2.6–3.5 | | |
| CESPT828 | 7.1–26.5 | 0.8–3 | 1200 | 2.6–4.0 | 2.6–3.5 | | |
| CESPT829 | 17.7–44.3 | 2–5 | 700 | 4.0–5.0 | ≤4 | | |

*Standard model has cable connection in bottom of handle — for top connection, add suffix 'U'. For ESD-safe housing, add suffix '-ESD'.



OPTIONAL TOP CONNECTION AVAILABLE

Tool Includes



| Model Number* | Torque Range | | Speed (rpm) | Drive Type** | Size (L x H x dia) | Weight |
|---------------|--------------|------|-------------|--------------|--|----------------------|
| | in-lbs | Nm | | | | |
| CESP(T)835 | 18–53 | 2–6 | 1000 | 1/4" hex | 270 x 169 x 48 mm (10.6 x 6.7 x 1.9") | 1.2 kg (2.64 lbs) |
| CESP(T)845 | 27–79 | 3–9 | 800 | | | |
| CESP(T)855 | 36–106 | 4–12 | 550 | | | |
| CESP(T)865 | 53–159 | 6–18 | 350 | | | |

*Standard model has cable connection in bottom of handle — for top connection, add suffix 'U'. For ESD-safe housing, add suffix '-ESD'.

**3/8" Square Drive available — add suffix '-SQ'

40VDC BRUSHLESS CONTROLLERS & ACCESSORIES

There are two standard Hi/Lo Speed Controllers available for the 40VDC Brushless Drivers. The BECT640NHL is used primarily for screwdriver models CESL828-829(P)(F). The high power output model BECT940HL is used for the higher torque 40VDC tools.

CE/RoHS/ETL Approved.

BECT640HL
HI/LO SPEED CONTROLLER



| Model Number* | Outlets | Speeds | Tool Connector | Input | Output | Dimensions L x W x H (mm) | Weight kg / lbs | Use only with Screwdriver Models |
|---------------------|---------|--------|----------------|------------------|----------------|---------------------------|-----------------|--|
| BECT640NHL | 1 | Hi/Lo | 6 pin | 100–240VAC, 6.3A | 40/30VDC, 220W | 220 x 134 x 85 | 1.8 / 4 | CESL828–829(P)(F), CESPT824–829(F) (Excluding CESPT828F) |
| BECT940(N)HL | | | | | 40/30VDC, 360W | | | CESLT835–875M(PM) CESP835–865, CESLT9 |

*Part number with North American cordset — Add suffix 'E' for EU cord, or suffix 'UK' for UK cord.

| Accessories | CESL828(F) CESL829 | | CESL828P(F) CESL829P | | CESL828(F)-ESD CESL829-ESD | | CESL828P(F)-ESD CESL829P-ESD | | CESLT935–955(P)(F) | CESLT835–875(P)M | CESPT835–865 | CESPT824–829(F) |
|-------------|--|--|-------------------------|--|-------------------------------|--|---------------------------------|--|--------------------|------------------|--------------|-----------------|
| | Select driver model number 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 applicable drivers) | | | | | | | | | | | | |
|---|---|---|---|---|---|--|--|---|---|---|---|---|
| DR80-20142C (Clear) * | X | X | | | | | | | | | | |
| DR80-20142E (ESD-safe) * | | | X | X | | | | | | | | |
| DR80-20142M (Metal) | X | X | X | X | | | | | | | | |
| DR80-20230M/L (Metal) | | | | | | | | X | | | | |
| DR80-20228M (Metal) * | | | | | | | | | | X | | |
| DR80-20229M (Metal) | | | | | | | | | | | X | |
| DR80-20233M (Metal) * | | | | | | | | | | | | X |
| Pistol Grip Attachment — reconfigures an in-line screwdriver for horizontal fastener installation (add 'ESD' to end of model number for ESD-safe version) | | | | | | | | | | | | |
| DR80-PG828/9 | X | | X | | | | | | | | | |
| DR80-PG828/9P | | | X | | 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 | X | | | | | | | |
| DR80-TH8M | | | | | | | | | X | X | X | |

| 40VDC Cable Model | Length | Pins | Shielded? | Other Notes |
|------------------------|------------|------|-----------|--|
| DR96-10016M | 2m (6.5') | 6 | no | included with each driver |
| DR96-10018M | 3m (9.8') | 6 | no | — |
| DR96-10018M/C | 3m (9.8') | 6 | no | coiled cable with 0.4m whip ends |
| DR96-10020M | 6m (19.6') | 6 | no | — |
| DR96-840X3MSHA | 3m (9.8') | 6 | yes | included with BECT840/940-SSO, ECT8-SSOB |
| DR96-840X5MSHA | 5m (16') | 6 | yes | — |
| DR96-840X10MSHA | 10m (32') | 6 | yes | — |



COUNTING CONTROLLER: 40V/32V BRUSHLESS DRIVERS

Add error-proofing to your Delta Regis brushless driver with the BECT832/840/940N-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).

- 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 — LEDs indicate **OK/NG** rundown cycle
- **Timed Auto-Reverse** function for applications requiring back-out after fastening
- Locks to limit access to program modifications
- ETL / CE / RoHS Compliant



| Model Number* | Outlets | Speeds | Input | Output | Dimensions L x W x H (mm) / (in) | Weight kg / lbs | Applicable Driver Models |
|---------------|---------|--------|------------------|-------------------|-----------------------------------|-----------------|---|
| BECT832N-SSO | 1 | Hi/Lo | 100–240VAC, 1.2A | 32/24VDC, 60W | 200 x 130 x 100 / 7.9 x 5.1 x 3.9 | 1.6 / 3.5 | CESL810–812, CESL823–824(P)(F), CESL827(P) |
| BECT840N-SSO | | | 100–240VAC, 6.3A | 40/32/24VDC, 200W | 248 x 130 x 100 / 9.8 x 5.1 x 3.9 | 2.5 / 5.5 | CESL828–829(P)(F), CESPT824–829(F), (Excluding CESPT828F) all 32V CESL8 drivers** |
| BECT940N-SSO | | | | 40/32/24VDC, 360W | | | all 32V and 40V brushless drivers** |

*Power supply shipped with standard North American cordset. Add suffix 'E' for EU cord, or add suffix 'UK' for UK cord.

**DR96-40TO32V-WHIP cable required to connect 32V drivers with BECT840N-SSO or BECT940N-SSO

| Features | | Inputs (dry switch contact required) | Outputs (MOS relay, max. 40VDC, 250mA) |
|-------------------------------------|------------------|--------------------------------------|--|
| Slow Start Time Adjustment | 0–9.9 sec | 1. Remote Start | 1. Rundown OK |
| Slow Start Speed Adjustment | 30–100% | 2. Remote Reverse | 2. Rundown NG |
| Count (per batch) | 1–99 | 3. Disable Screwdriver | 3. Batch Complete |
| Time Window Setting Range (min/max) | 0–9.9 sec | 4. External Confirm | A 24 VDC voltage supply is available to power the output circuit, if required. |
| Audible Alert (selectable) | Good/NG/Batch OK | 5. Enable at Batch Start | |
| Timed Auto-Reverse after Clutch-out | 0–9.9 sec | 6. Remote Clear | |



COUNTING CONTROLLER OVERVIEW

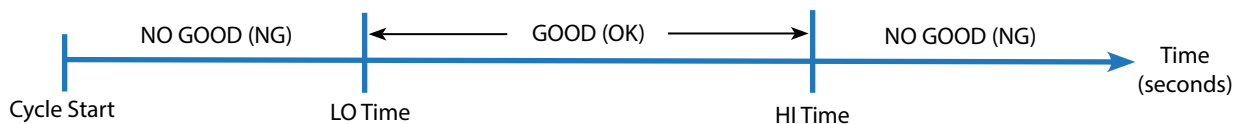
Parameters are set-up on the BECT(832/840/940)N-SSO using the four button keypad and LED display panel. A simple program loop provides access to settings for slow start speed and time, batch count quantity, and min/max allowable rundown times. During normal operation, the large two-digit display shows 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.

BECT(840/940)N-SSO-3SL CONTROLLER WITH REMOTE SEQUENCING OPTION

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. Please contact us for further details.



*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.



BESL3 SERIES 120VAC DIRECT PLUG-IN SCREWDRIVERS

1.33–43.4 in-lbs (0.15–4.9 Nm)

- Clean, brushless motor technology
- Dependable, long lifespan
- Outperforms brush-type drivers
- Plugs directly into 115VAC receptacle
- Input 110–120VAC, 50/60Hz, 48W
- Integral 3m power cord w/ US plug
- Lever or push start models available
- Right angle versions available



Tool Includes



TORQUE LOCK SLEEVE



SUSPENSION BAIL



1/4" HEX BITS:
BESL300–301: PH#1, #2
BESL302: PH#2 (x2)

| Model Number | Start Type | Torque Range | | Speed (rpm) | Length in / mm | Diameter in / mm | Weight lbs / g |
|--------------|------------|--------------|-----------|-------------|----------------|------------------|----------------|
| | | in-lbs | Nm | | | | |
| BESL300 | Lever | 1.33–10.44 | 0.15–1.18 | 1200 | 9.6 / 245 | 1.4 / 36 | 1.0 / 470 |
| BESL300P | Push | 1.77–10.44 | 0.2–1.18 | 1200 | | | |
| BESL300F | Lever | 1.33–10.44 | 0.15–1.18 | 2000 | | | |
| BESL300PF | Push | 1.77–10.44 | 0.2–1.18 | 2000 | | | |
| BESL301 | Lever | 3.47–19.12 | 0.39–2.16 | 1200 | | | |
| BESL301P | Push | 3.47–19.12 | 0.39–2.16 | 1200 | | | |
| BESL301F | Lever | 2.57–14.78 | 0.29–1.67 | 2000 | | | |
| BESL301PF | Push | 2.57–14.78 | 0.29–1.67 | 2000 | | | |
| BESL302LT | Lever | 4.34–21.7 | 0.49–2.45 | 1000 | 11.0 / 280 | 1.5 / 38 | 1.6 / 740 |
| BESL302PLT | Push | 4.34–21.7 | 0.49–2.45 | 1000 | | | |
| BESL302FLT | Lever | 4.34–21.7 | 0.49–2.45 | 2000 | | | |
| BESL302PFLT | Push | 4.34–21.7 | 0.49–2.45 | 2000 | | | |
| BESL302 | Lever | 17.4–43.4 | 1.96–4.9 | 1000 | | | |
| BESL302P | Push | 17.4–43.4 | 1.96–4.9 | 1000 | | | |

| Right Angle Model Number | Start Type | Torque Range | | Speed (rpm) | Length in / mm | Diameter in / mm | Weight lbs / g |
|--------------------------|------------|--------------|-----------|-------------|----------------|------------------|----------------|
| | | in-lbs | Nm | | | | |
| BESL300-RA | Lever | 1.06–8.35 | 0.12–0.94 | 1200 | 11.4 / 290 | 1.4 / 36 | 1.6 / 720 |
| BESL300F-RA | | 1.06–8.35 | 0.12–0.94 | 2000 | | | |
| BESL301-RA | | 2.77–15.30 | 0.31–1.73 | 1200 | | | |
| BESL301F-RA | | 2.06–11.82 | 0.23–1.34 | 2000 | 13.3 / 337 | 1.5 / 38 | 2.2 / 990 |
| BESL302LT-RA | | 3.0–15.2 | 0.34–1.71 | 1000 | | | |
| BESL302FLT-RA | | 3.0–15.2 | 0.34–1.71 | 2000 | | | |
| BESL302-RA | | 12.2–30.4 | 1.37–3.43 | 1000 | | | |



ECT8-SSO SLOW START & I/O MODULE

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

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. I/O connections are available for interfacing to external equipment.



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

SLOW START PARAMETERS

- Slow Start Time (0–9.9s)
- Slow Start Speed (~30–100%)
- Max Run Time (0–9.9s)



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

A 3m long shielded tool cable is included with each ECT8-SSOA/B module to use in place of the standard unshielded cable included with the driver.



INPUTS (dry switch contact required)

- Remote Start
- Remote Reverse
- Remote Enable/Disable

OUTPUTS (MOS relay, max. 40VDC, 250mA)

- Tool Started/Running
- Clutch Tripped
- Tool in Reverse



Bypass switch to disable control functionality



DIP switch settings control specific I/O functions

| Model Number | Use with Screwdriver Models | Compatible Controllers | Dimensions (L x W x H) | Weight |
|-----------------------|---|--------------------------|---|-----------------|
| ECT8-SSOA (32V Tools) | CESL810–812, 823–827(P/F/PF) | BECT620N, BECT820N | 103 x 100 x 32 mm / 4.1 x 3.9 x 1.3" | 180 g / 0.4 lbs |
| ECT8-SSOB (40V Tools) | CESL828–829(P)(F), CESP(T)835–865, CESLT835–875(P)M, CESLT935–955(P)(F) | BECT640NHL, BECT940(N)HL | | |

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 Models | Compatible Controllers |
|-----------------------|---|--------------------------|
| ECT8-SSOC (32V Tools) | CESL810–812, 823–827(P/F/PF) | BECT620N, BECT820N |
| ECT8-SSOD (40V Tools) | CESL828–829(P/F/PF), CESP(T)835–865, CESLT835–875(P)M, CESLT9 | BECT640NHL, BECT940(N)HL |

SCREW FEEDERS FOR MANUAL PICKUP

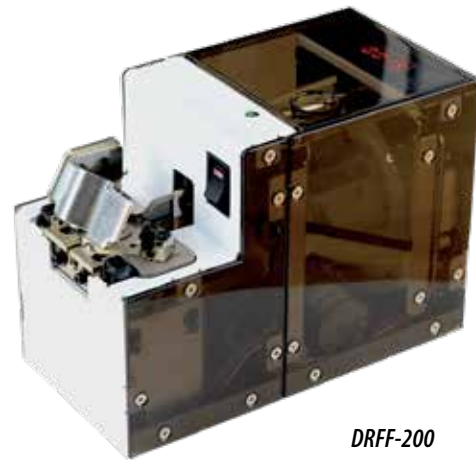
- Improve productivity — screw dispensed for easy pick-up
- Magnetic pick-up of ferrous screws
- Precise vibration control allows feeding of many different screw types and sizes
- Adjustable drum rotation timer, vibration timer, and vibration intensity
- Individual driver motors for vibration and feeding
- Auto shut-off of vibration/feed when not in use
- Quiet operation
- Simple service and set-up
- Great value — very cost effective way to increase productivity
- Small size — does not clutter work space
- Includes AC adapter, set-up tools and shims



DRFF-520



DRFF-500



DRFF-200

| Model | Dimensions (L x W x H) | Weight (w/o adapter) | Power Source | AC Adapter | Applicable Screw | Max Screw Thread Length |
|-----------|------------------------|----------------------|--------------|------------|--|-------------------------|
| DRFF-520 | 182 x 126 x 147 mm | 2.49kg / 5.5lbs | 100–240VAC | 15VDC | M1.0–M5.0 (Adjustable) | 19 mm |
| DRFF-500* | 182 x 124 x 150 mm | 3.1kg / 6.8lbs | 100–240VAC | 12VDC | M1.2 / M1.4 / M1.7 / M2.0 / M2.3 / M2.6 / M3.0 / M3.5 / M4.0 / M5.0 (Specify size when ordering) | 12 mm |
| DRFF-200* | 160 x 82 x 112 mm | 1.53kg / 3.3lbs | | | M0.8 / M1.0 / M1.2 / M1.4 / M1.7 / M2.0 (Specify size when ordering) | 5 mm |

*To order, add screw size to model number as a suffix (eg.— for a DRFF-500 with M1.4 screws specify 'DRFF-500-1.4')

SCREW FEEDERS FOR VACUUM PICKUP & AUTOMATION

- Ideal for robotic applications — magnetic or vacuum pick-up
- Signal output when screw is ready for pick-up/PLC counting
- Brushless driver motors for vibration and feeding
- Quiet operation
- Simple service and set-up
- Integrated screw counter with LED displays for assembly process feedback
- Small size — does not clutter work space
- Includes AC adapter, set-up tools and shims
- DRFF-200R and 500R cover most applications, 300R is available for longer screws



DRFF-300R



DRFF-500R



DRFF-200R

| Model* | Dimensions (L x W x H) | Weight (w/o adapter) | Power Source | AC Adapter | Applicable Screw (Specify size when ordering) | Max Screw Thread Length |
|-----------|------------------------|----------------------|--------------|------------|---|-------------------------|
| DRFF-200R | 160 x 82 x 112 mm | 1.46kg / 3.2lbs | 100–240VAC | 12VDC | M0.8 / M1.0 / M1.2 / M1.4 / M1.7 / M2.0 | 5 mm |
| DRFF-500R | 182 x 124 x 150 mm | 3.1kg / 6.8lbs | | | M1.2 / M1.4 / M1.7 / M2.0 / M2.3 / M2.6 / M3.0 / M3.5 / M4.0 / M5.0 | 12 mm |
| DRFF-300R | 182 x 124 x 146 mm | 3.0kg / 6.6lbs | | | M0.8 / M1.0 / M1.2 / M1.4 / M1.7 / M2.0 / M2.3 / M2.6 / M3.0 | 15 mm |

*To order, add screw size to the model number as a suffix (eg.— for a DRFF-200R with M1.4 screws specify 'DRFF-200R-1.4')

DRTQ TOUCH-SCREEN TORQUE TESTER



| Specifications | |
|---------------------------|---|
| Models (max torque) | 10 in-lbs, 25 in-lbs, 100 in-lbs, 250 in-lbs, 100 ft-lbs |
| Accuracy | ± 0.5% of reading @ 20–100% full scale ±1% of reading @ 10–20% full scale |
| Maximum Overload | 150% of full scale |
| Battery | 3.7V Li-ion, 4400mAH 8 hrs continuous runtime |
| 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, User Manual, Calibration Certificate, Rundown Joint* |

*Rundown joint is not included with DRTQ-100-f, sold separately



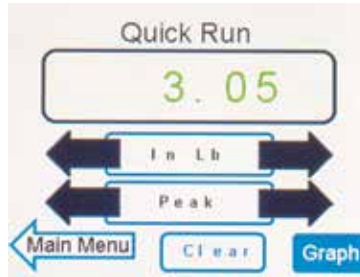
- CE Compliant
- Full color LCD touch screen
- Processes statistical calculations: CP, CPK, Sigma
- On screen statistics: Torque calculator and graphing for performance analysis
- Export data directly to an SD card
- Automatic screen rotation (level sensor flips screen between vertical and horizontal 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-lbs, ft-lbs, 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
- 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



DRTQ TOUCH-SCREEN TORQUE TESTER



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



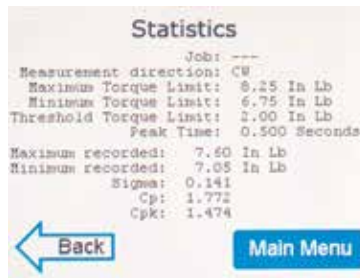
Use Quick Run mode to perform a single run torque test and view a graph of the results.



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 |
| DRTQ-10-i | 1.00–10.00 in-lbs | 0.11–1.13 Nm | 1/4" square |
| DRTQ-25-i | 2.50–25.00 in-lbs | 0.28–2.82 Nm | 1/4" square |
| DRTQ-100-i | 10.00–100.00 in-lbs | 1.13–11.30 Nm | 1/4" square |
| DRTQ-250-i | 25.00–250.00 in-lbs | 2.82–28.25 Nm | 3/8" square |
| DRTQ-100-f | 10.00–100.00 ft-lbs | 13.56–135.58 Nm | 1/2" square |

Each DRTQ Torque Tester is dead-weight calibrated with certified mass standards and arms to verify conformance to the stated accuracy of ±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-HT | Reaction collar for bench mounting |
| DRTQ-RDA-1/4* | 1/4" sq.dr. joint simulator |
| DRTQ-RDA-3/8 | 3/8" sq.dr. joint simulator (250 in-lbs / 28 Nm max) |
| DRTQ-RDA-1/2-100NM | 1/2" sq.dr. joint simulator (74 ft-lbs / 100 Nm max) |
| DRTQ-ELEC3050 | AC Adapter, 100–240VAC input / 5VDC output USB |

*Add '-10i', '-25i', or '-100i' to end of model number to specify hardness of joint (as configured by default)

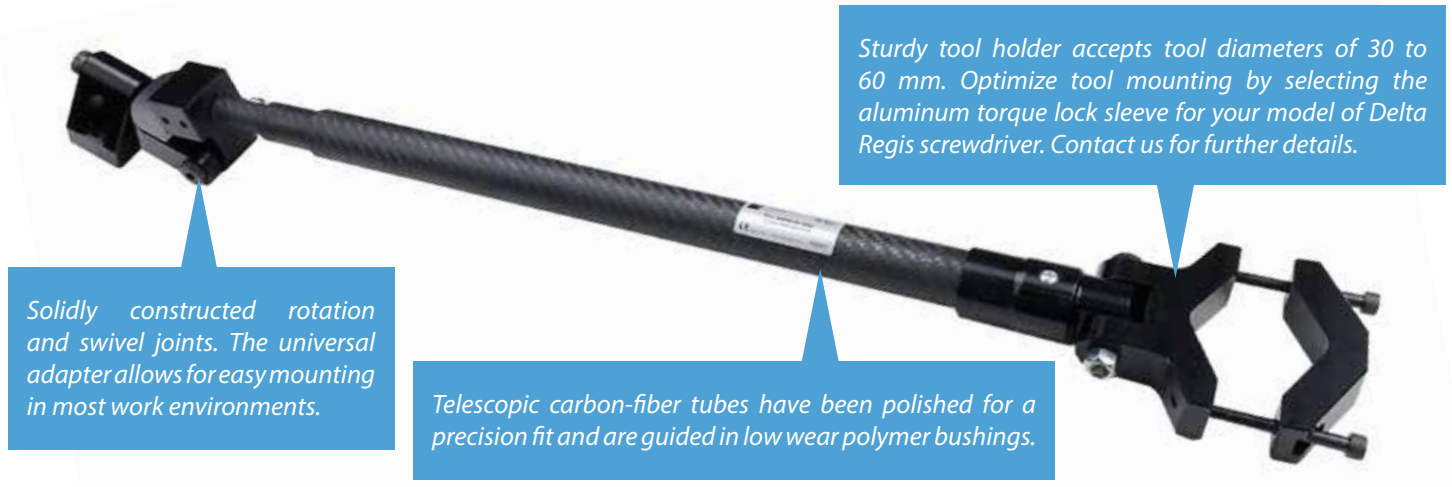


DRTQ-MOUNT-HT
Bench Mounted Reaction Collar
(Accepts all DRTQ Models)

TORQUE REACTION ARMS

ERGO Telescopic Torque Reaction Arm

The ERGO 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 is capable of being mounted problem-free in most work areas.



| Model Number | Max. Torque | Work Radius | Fits Tool Diameter | Weight |
|---------------------|--------------------|----------------------------|-----------------------|-------------------|
| ERGO-15-1000 | 133 in-lbs / 15 Nm | 486–1066 mm / 19.13–41.97" | 27-45 mm / 1.06–1.77" | 1.5 lbs / 0.69 kg |
| ERGO-40-1000 | 354 in-lbs / 40 Nm | 486–1066 mm / 19.13–41.97" | 30–60 mm / 1.2–2.4" | 2.5 lbs / 1.13 kg |

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 240 in-lbs (27 Nm). Arm height is adjustable, and a parallel arm design keeps the tool perpendicular to the work surface. Tool weight is supported by a spring-loaded arm assembly with adjustable spring tension.

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 adapter to provide for clamping around the body of an electric screwdriver.



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

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 required). An optional extra arm kit can be used to suspend two tools from the same stand.



**DR90-30001
TOOL STAND**



**DR90-3ARMKIT
EXTRA ARM KIT (INCLUDES SLIDER AND HANGER)**



DR90-3CLAMP

| 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 required |

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.



**DR90-10104
Balancer**



**DR90-10103
Balancer**

| Part Number | Cable | Optimal Load Range | Travel Distance |
|-------------------|-------|----------------------------|-----------------|
| DR90-10101 | Steel | 0.23–0.68 kg (0.5–1.5 lbs) | 1.8m (6') |
| DR90-10103 | Steel | 0.68–1.36 kg (1.5–3.0 lbs) | 1.8m (6') |
| DR90-10105 | Steel | 1.36–2.27 kg (3.0–5.0 lbs) | 1.8m (6') |
| DR90-10104 | Nylon | 0.6–1.5 kg (1.3–3.3 lbs) | 1.8m (6') |

ERGO-SYS TOOL SUPPORT SYSTEM

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

Each system includes:

- (1) DR90-30001 Tool Stand
- (1) ERGO-15-1000 Torque Reaction Arm
- (1) DR90-1010_ Tool Balancer

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.



Optional metal lock sleeves are available. Contact our sales department for further details.



| System Number | 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 |

ADJUSTABLE & PRESET MANUAL SCREWDRIVERS

- Adjustable in small increments — Set and lock at required torque
- Ergonomic handle provides better turning power with less effort, minimizing operator fatigue
- Quick change bit holder accommodates insert and power bits (1/4" Hex models)
- Accuracy is $\pm 6\%$ (complies with EN ISO 6789)
- Calibration certificate provided with each tool
- ESD-safe models identified by yellow grip and ESD symbol



| Adjustable Screwdrivers | | | | | | |
|-------------------------|----------------|----------|-----------------|-------------|-------------|------------------------------|
| Model | ESD-Safe Model | Style | Range | Graduations | Length (mm) | Drive |
| — | DR95-A1430-ESD | Straight | 0.02–0.06 Nm | 0.0025 Nm | 141 | 4mm Halfmoon / 4mm Winged |
| — | DR95-A1431-ESD | Straight | 0.05–0.11 Nm | 0.005 Nm | 141 | |
| — | DR95-A7435-ESD | Straight | 0.10–0.34 Nm | 0.015 Nm | 142 | |
| — | DR95-A7436-ESD | Straight | 0.30–1.00 Nm | 0.05 Nm | 142 | |
| DR95-A7430 | DR95-A7430-ESD | Straight | 0.10–0.34 Nm | 0.015 Nm | 142 | 1/4" Hex |
| DR95-A7431 | DR95-A7431-ESD | Straight | 0.30–1.00 Nm | 0.05 Nm | 142 | |
| DR95-A7432 | DR95-A7432-ESD | Straight | 0.90–1.50 Nm | 0.05 Nm | 142 | |
| DR95-A7440 | DR95-A7440-ESD | Straight | 0.3–1.2 Nm | 0.05 Nm | 155 | |
| DR95-A7441 | DR95-A7441-ESD | Straight | 1.2–3.0 Nm | 0.10 Nm | 155 | |
| DR95-A7442 | — | Pistol | 3.0–6.0 Nm | 0.25 Nm | 150 x 100 | |
| DR95-A7443 | — | Pistol | 4.0–8.8 Nm | 0.40 Nm | 150 x 100 | |
| DR95-A7445 | DR95-A7445-ESD | Straight | 2.5–11.5 in-lbs | 0.5 in-lbs | 155 | |
| DR95-A7446 | DR95-A7446-ESD | Straight | 11–29 in-lbs | 1.0 in-lbs | 155 | |
| DR95-A7447 | — | Pistol | 25–55 in-lbs | 2.5 in-lbs | 150 x 100 | |



DR95-A7436-ESD

| Preset Screwdrivers | | | | | | |
|---------------------|----------------|----------|-----------------|-------------|------------------------------|--|
| Model | ESD-Safe Model | Style | Range | Length (mm) | Drive | |
| — | DR95-P1460-ESD | Straight | 0.02–0.06 Nm | 131 | 4mm Halfmoon / 4mm Winged | |
| — | DR95-P1461-ESD | Straight | 0.05–0.11 Nm | 131 | | |
| — | DR95-P7455-ESD | Straight | 0.1–0.34 Nm | 138 | | |
| — | DR95-P7456-ESD | Straight | 0.3–1.0 Nm | 138 | | |
| DR95-P7450 | DR95-P7450-ESD | Straight | 0.1–0.34 Nm | 133 | 1/4" Hex | |
| DR95-P7451 | DR95-P7451-ESD | Straight | 0.3–1.0 Nm | 133 | | |
| DR95-P7452 | DR95-P7452-ESD | Straight | 0.9–1.5 Nm | 133 | | |
| DR95-P7460 | DR95-P7460-ESD | Straight | 0.3–1.2 Nm | 155 | | |
| DR95-P7461 | DR95-P7461-ESD | Straight | 1.2–3.0 Nm | 155 | | |
| DR95-P7462 | — | Pistol | 3.0–6.0 Nm | 150 x 100 | | |
| DR95-P7463 | — | Pistol | 4.0–8.8 Nm | 150 x 100 | | |
| DR95-P7465 | — | Straight | 2.5–11.5 in-lbs | 155 | | |
| DR95-P7466 | — | Straight | 11–29 in-lbs | 155 | | |
| DR95-P7467 | — | Pistol | 25–55 in-lbs | 150 x 100 | | |



DR95-P1460-ESD

SCREWDRIVER VACUUM PICK-UP ATTACHMENT

Vacuum Pickup Attachment With Driver Bits



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.

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.

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.

Please note that the bit types and nozzle configurations shown cover the most common applications. Please contact us for information on other bit types or special nozzle configurations.

SCREWDRIVER BITS & BIT HOLDERS

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.

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.



Applifast.



251 Cree Crescent, Winnipeg, MB Canada R3J 3X4
Tel: 204 837 8361 • 1 800 563 1293
info@applifast.com



applifast.com