mountz®
the torque tool specialists

PRODUCT BROCHURE
e-DRIV® EC & ECT-SERIES


# "HAND ME THE MOUNTZ!"

## Mountz e-DRIV® ECT-Series Transducerized Smart Electric Screwdrivers and Mountz e-DRIV® EC-Series Smart Electric Screwdrivers

# SAFEGUARDING AGAINST FASTENING FAILURES

- Error-proof the fastening process
- Programmable fastening sequences and workflows
- Data collection—record and store torque and fastening data
- Single automation fastening system replaces up to 15 power tools
- Achieve multiple fastening tasks with one tooling system
- Digital I/O allows interfacing with a machine & PLC interface for line control
- Transducerized Tool—traceability, superior accuracy and precision
- Free product software—no annual licensing required—savings of $2K
- Clean room compliant (ISO14644-1 2015 Class 5)

ENGINEERED IN SILICON VALLEY
MOUNTZ
SINCE 1965

# ACCELERATE SMART MANUFACTURING

**Relied on by leaders in aviation, automotive, transportation, medical and electronic-all industries in which error-proofing process control is critical.**

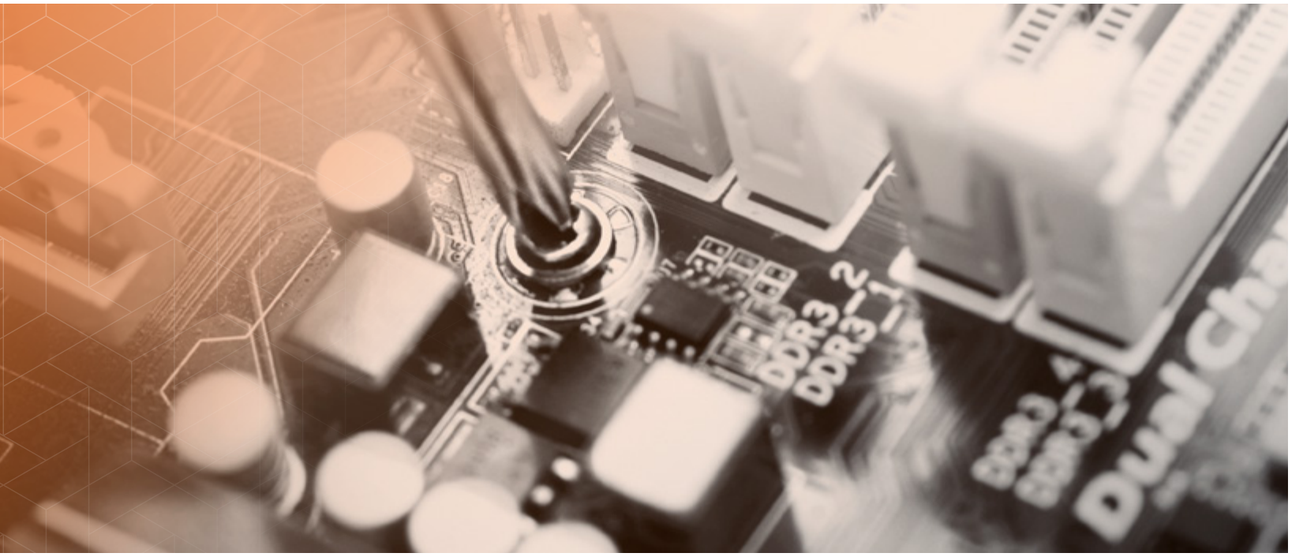
## The all-in-one transducerized smart electric screwdriver system that delivers productivity and quality advantages in complex manufacturing environments

Mountz's all-in-one transducerized smart electric screwdriver solution safeguards against fastening failures for quality-minded engineers with critical industrial manufacturing applications requiring documented precision and accuracy torque control. The EC and ECT-Series are available only through Mountz Torque, a durable torque and automation control system engineered for precise, accurate and repeatable torque control. The high-performance torque fastening system allows manufacturers to optimize the assembly area, reduce labor costs and increase productivity.

The screwdriver system can implement multiple fastening strategies for sensitive and difficult assembly joints. The system increases productivity as one tool can be programmed to do the job of numerous conventional tools, saving time, maintenance cost, space, and training.

## Error-proofing manufacturing increases assurance in critical assembly operations

The error-proofing system eliminates manufacturing risks and prevents product defects. Easily program the controllers with fastening workflows and torque tolerances for each fastener in the sequence. The screwdriver system provides error-proofing capabilities that track each screw the tools fasten. Program the controller not to clear an assembly until the completion of all the fastening events. When a fastening error occurs, the torque control system will detect it, flag it, and prevent the product from moving further down the line. The Industry 4.0 error-proofing tool has I/O interfaces that enable manufacturing integration for line control monitoring techniques. The IoT connected automation tool improves production and quality by collecting and storing data and providing real-time transparency in a manufacturer's assembly operations. Such real-time transparency enables quality assurance personnel to detect any fastening issues as soon as they arise.



## Easier process control and compliance

The torque control system expedites all aspects of the automation process, from installing error-proofing disciplines to adaptive fastening strategies. A single Mountz DC control automation system replaces up to 15 power tools. The assembly tool reduces tooling costs and improves operations by optimizing a company's manufacturing footprint. Achieve multiple fastening tasks with one tooling system. The assembly tool gives you the flexibility you need to carry out varied and complicated manufacturing plans. The ECT-Series is a transducerized tool that features a built-in sensor that continually measures torque in real-time and feeds data back into the system. Mountz intelligent screwdriver system offers maximum production results and product oversight with a built-in screw counter and error-proofing software. And by providing documented fastening results, Mountz DC control tools also make regulatory compliance effortless.

## Fastening automation workflows

When there is a repetitive series of tightening tasks, manufacturers should implement a fastening automation workflow process. Often these repetitive tasks are managed across multiple workstations, tools, and assembly operators. By creating a fastening automation workflow, the manufacturing process becomes streamlined and reduces human error risk.

Group similar processes and assign a set of standardized tasks: program fastening sequences and torque tolerances for each fastener in a sequence for sensitive and complex assembly joints. Workflow automation is the best method to achieve tightening tasks efficiently. It produces reliable and accurate torque control results every time.

Workflow automation provides visibility of the various fastening tasks and improves production efficiency, consistency, and quality. The smart screwdriver system offers benefits for improving consistency and quality.

## Preset parameter settings

Each preset setting has the following programmable parameters:

| PRESET SETTINGS | PROGRAMMABLE PARAMETERS |
|---|---|
| Tightening Mode | Torque control + angle monitoring (TC/AM)<br>Angle control + torque monitoring (AC/TM) |
| Torque | Target torque, min/max torque, snug torque, seating torque, torque compensation |
| Angle | Target angle, min/max angle, free speed angle |
| Speed | Target speed, Free speed, Ramp up speed |
| Time | Soft start time, torque rising time, torque holding time |
| Thread Tapping | Target torque, min/max thread torque, speed, angle start |
| Screw Counting | Cycle start signal, time limit, total screw count, count port signal type |

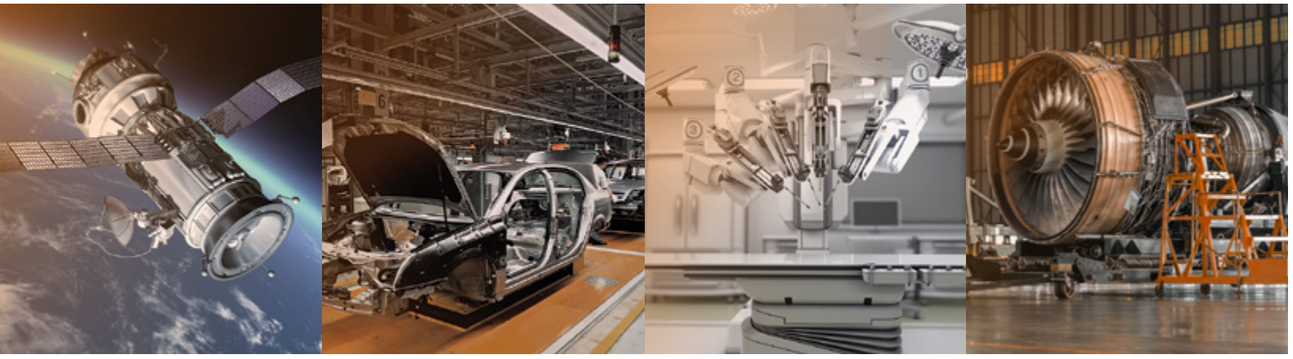
## Sequence control

Mountz DC control tools are easy to program and can remember up to 30 process sequences with 20 program steps. The tool gives you the flexibility you need to carry out varied and complicated manufacturing plans.


## Example with sample program of sequence control

| STEP 1 | STEP 2 | STEP 3 | STEP 4 | STEP 5 |
|---|---|---|---|---|
| **Input** | **Delay** | **Output** | **Tightening** | **Output** |
| Detect workpiece arrival on the position | Time delay 0.5 seconds to the next step | Lock the workpiece with an air cylinder | Tightening total 7 with Preset #12 | Release the workpiece from an air cylinder |

Note: Can configure up to 15 presets and 15 models, consisting of up to 20 steps for each model.



## Automation and production monitoring system

Assembly automation and line monitoring control systems are critical aspects of modern assembly line production. Manufacturing products with consistent quality requires automation equipment to execute production tasks with high precision and repeatability—the foundation of process control.

Automation techniques and equipment enable manufacturers to achieve and maintain process uniformity. A flexible automation system can assemble, process, monitor, and prevent fastening errors. Instead of tinkering with human process variables, a smart screwdriver system is inherently well suited for automation process and effectively integrate with line control devices for a well-balanced production line.

## Enhance efficiency with a bar code scanner

Adding a bar code scanner option to the torque control system allows the operator to instantly select and activate a programmed fastening event on the controller. A bar code scanner can scan the bar code to trigger the correct event and capture and record the data for each run down by assigning a bar code to a fastening event. This capability is an error-proofing technique that permanently links the fastening data with the right part. Combined with built-in error-proofing software, the automation tools offer maximum production results and product oversight. And by providing documented fastening results, these precision tools also make regulatory compliance effortless.

Error-proofing the assembly process by automatically verifying the scanned part against a predefined fastening process or real-time verification will provide substantial savings in rework, repair, and even recall costs.


# PRODUCT OVERVIEW

| FEATURE | WHAT IS IT? | ADVANTAGE | END USER BENEFIT |
|---|---|---|---|
| Data Collection | • Process of recording and storing the torque & fastening data | • Automate data collection<br>• Data centralization<br>• Uniform data<br>• Accurate real-time and historical information | • Ensure conformity with quality standards & regulatory compliances<br>• Accumulate fastening data efficiently into a database<br>• Capturing and analyzing data<br>• Document the assembly process |
| Error-Proofing | • Mistake-proofing<br>• Implementation of fail-safe process and mechanism | • Ensures correct torque is applied<br>• Eliminates risk in the process<br>• Prevent fastening failures<br>• Real-time monitoring and error detections | • Prevent defects<br>• Reduce scrap rates<br>• Ensure high-quality standards<br>• Improve productivity & quality<br>• Safeguards against fastening failures |
| Screw Counting | • Count the number of screws delivered<br>• Detect and display fastening errors | • Detects cross-threading, omissions, unfinished rundowns | • Improve production efficiency<br>• Monitor the assembly process |
| Process Control | • Program assembly sequences & torque tolerances for each fastener<br>• Group similar processes and assign a set of standardized tasks | • Create standardize fastening workflows<br>• Optimize the tightening process<br>• Streamline assembly workflow processes | • Enhance process reliability & efficiency<br>• Reduce processing time<br>• Improve consistency and quality<br>• Decrease downtime |
| Productivity | • Achieve multiple fastening tasks with one tooling system | • A single tool system replaces up to 15 tools<br>• Increase tooling efficiency<br>• Lean manufacturing | • Increase production rate<br>• Reduce tooling costs<br>• Minimize the number of workstations<br>• Optimize workstation cycle time<br>• DC integrates with existing process control software |
| I/O Interface | • Enables integration for line control monitoring techniques<br>• 4.0 MES system ready | • Monitor fastening processes and tasks<br>• Industry 4.0 equipped automation tool | • Real-time monitoring and notifications<br>• Digital signals for communication with external devices such as PLC |
| Automation | • Industrial fastening automation<br>• Intelligent process automation | • Replace manual processes<br>• Easy integration into a production line<br>• Reduce production costs and time | • Maximize production capacity<br>• Lower production lead times & bottlenecks.<br>• Flexible and agile to respond to demand shifts |
| Torque Data Analysis | • Fastening torque data analysis | • Performance metrics & equipment effectiveness<br>• Data-driven manufacturing<br>• Standard Deviation,<br>• Mean, Average, CP, CPK analytics | • Tool data management<br>• Predictive tool maintenance.<br>• Improve productivity and profitability<br>• Gain visibility into fastening process data<br>• Optimize manufacturing process |
| Transducerized Tools | • Tool equipped with a transducer inside | • Transducer is constantly measuring torque in real-time and feeding data back into the system.<br>• High degree of precision | • Ensures fastening precision and accuracy<br>• Enhance the detection of fastening errors<br>• A documented and traceable torque tool |

## ECD and ECTD controllers for EC and ECT electric screwdrivers

- Preset selection capability: Front panel or 25P I/O
- Angle Control: 0.1 - 10 turns
- 15 Preset Parameters: Torque, Speed, Soft Start & Angle
- Auto-detection of a connected electric screwdriver when the controller is powered on*
- Error display: Error code display (3 groups)
- Fastening Quality Control: OK/NG monitoring of screw fastening by preset pattern of angle and/or time
- PC based program for parameter settings, monitoring and real-time output
- Screw counting
- Front panel 7” Color LCD with touch screen
- 8 Input & 8 Output flexible I/O (25P D-Sub)
- Communication 1 x RS232C, 1 x Ethernet
- Protocol: Modbus, Open Protocol
- 4.0 MES system ready
- SD Card data memory slot (memory card included)

#### MOUNTING BRACKET (INCLUDED)

The ECD and ECTD controllers are supplied with the detachable Vesa bracket. The controller can be easily hung on the wall-mounted bracket. One part of the bracket is assembled on the back of the controller. The other part is installed on the wall.

**Detachable Vesa Bracket**
Item #310214

#### SPECIFICATIONS

**Input (Electric):**
AC120VC / AC230V, 50/60Hz
Output (Electric): DC38V 3.5A

**Dimension (W x L x H):** 7 1/2” x 8” x 10 1/4”

**Weight:** 8.6 lbs

#### 110V CONTROLLERS

**ECD-4000U Controller**
Item #313197
For electric screwdriver models:
EC-Series (40000 models)

**ECD-5000U Controller**
Item #313000
For electric screwdriver models:
EC-Series (50000 models)

**ECTD-5000U Controller**
Item #313003
For electric screwdriver models:
all ECT-Series models

#### 230V CONTROLLERS

**ECD-4000U Controller**
Item #313198
For electric screwdriver models:
EC-Series (40000 models)

**ECD-5000E Controller**
Item #313002
For electric screwdriver models:
EC-Series (50000 models)

**ECTD-5000E Controller**
Item #313004
For electric screwdriver models:
all ECT-Series models

*Note: Cannot simply swap electric screwdriver models without going through a few setup steps, as all of the parameter values stored with the ECD and ECTD controller are related to the prior connected electric screwdriver model.

## Fastening data collection and analytics

Manufacturing processes generate a vast amount of fastening data that can provide valuable information to aid manufacturers. Data collection allows engineers to make more intelligent process decisions to minimize quality failures and maximize productivity.

The smart torque control system features data collection processes for recording and storing torque and fastening information, allowing companies to generate a detailed production record for every product assembled. Documentation helps engineers improve assembly processes and demonstrate compliance with quality standards & regulations.

Collecting and analyzing production data gives manufacturers valuable insights into their production processes. The more you know about your production process, the better you’ll be able to correct problems in real-time.

## Modbus protocol communication

ECD and ECTD provide the Modbus RTU for RS232 and Modbus TCP/IP for the Ethernet port connection.

#### MODBUS RTU

| Slave ID | F Code | Data |
|---|---|---|

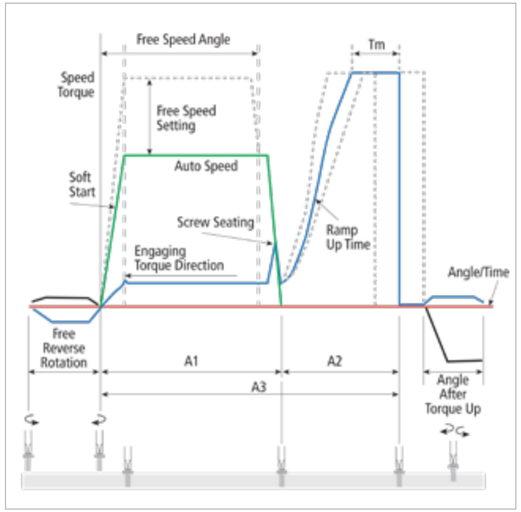
#### MODBUS TCP/IP ADU

| Transaction ID | Protocol ID | Length | Unit ID | F Code | Data |
|---|---|---|---|---|---|

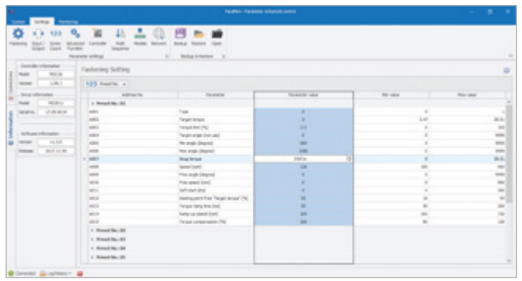

## Software

Collect and store essential quality data in a repository for data analytics, regulatory compliance, and traceability.

- Provides easy workflow and parameter settings, data monitoring & analysis
- 2 channel real-time curve display for torque, speed, angle
- Torque capability analysis for mean value, standard deviation, CP, and CPK
- Auto data output on every event in the Modbus protocol
- Free product software and upgrade—no annual licensing required

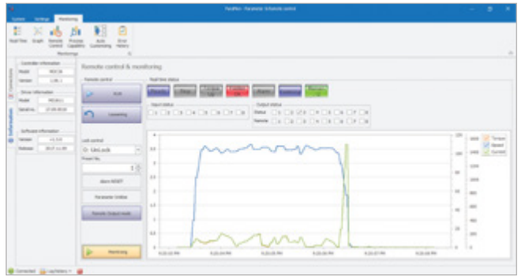



FASTENING PARAMETER SETTING



PROCESS CAPABILITY ANALYSIS

REMOTE CONTROL MONITORING



REAL-TIME GRAPH MONITORING (2 CHANNEL)



## Mountz ECT-Series transducerized smart electric screwdrivers

IN-LINE TRANSDUCERIZED MODELS

| MODEL | ITEM NO. | DRIVER TYPE | TORQUE RANGES | | ADJUSTABLE SPEED RPM | GRIP DIAMETER | LENGTH | DRIVE SIZE | WEIGHT |
|---|---|---|---|---|---|---|---|---|---|
| | | | LBF.IN | N.M | | | | | |
| ECT40100(C) | 310242 | Lever Start | 2.5–12.4 | 0.3–1.4 | 100–1500 | 1 1/2" | 10 3/4" | 1/4" F/Hex | 1.8 lbs |
| ECT40200 | 313190 | Lever Start | 6–30.1 | 0.7–3.4 | 100–900 | 1 1/2" | 10 3/4" | 1/4" F/Hex | 1.8 lbs |
| ECT40300 | 313191 | Lever Start | 8.9–44.3 | 1–5 | 100–620 | 1 1/2" | 10 3/4" | 1/4" F/Hex | 1.8 lbs |
| ECT50100 | 313034 | Lever Start | 7.1–35.4 | 0.8–4 | 100–1800 | 1 1/2" | 11 1/8" | 1/4" F/Hex | 1.8 lbs |
| ECT50104 | 313035 | Lever Start | 7.1–35.4 | 0.8–4 | 100–1800 | 1 1/2" | 11 1/4" | 3/8" Sq. Dr. | 1.8 lbs |
| ECT50150 | 313036 | Lever Start | 13.3–66.4 | 1.5–7.5 | 100–950 | 1 1/2" | 11 1/8" | 1/4" F/Hex | 2 lbs |
| ECT50154 | 313037 | Lever Start | 13.3–66.4 | 1.5–7.5 | 100–950 | 1 1/2" | 11 1/4" | 3/8" Sq. Dr. | 2 lbs |
| ECT50200 | 313038 | Lever Start | 15.9–79.7 | 1.8–9 | 50–690 | 1 1/2" | 11 1/8" | 1/4" F/Hex | 2 lbs |
| ECT50204 | 313039 | Lever Start | 15.9–79.7 | 1.8–9 | 50–690 | 1 1/2" | 11 1/4" | 3/8" Sq. Dr. | 2 lbs |
| ECT50300 | 313040 | Lever Start | 24.8–123.9 | 2.8–14 | 50–470 | 1 1/2" | 11 1/8" | 1/4" F/Hex | 2 lbs |
| ECT50304 | 313041 | Lever Start | 24.8–123.9 | 2.8–14 | 50–470 | 1 1/2" | 11 1/4" | 3/8" Sq. Dr. | 2 lbs |
| ECT50554 | 313042 | Lever Start | 47.8–239 | 5.4–27 | 50–260 | 1 1/2" | 11 1/4" | 3/8" Sq. Dr. | 2.3 lbs |
| ECT50704 | 313043 | Lever Start | 62–309.8 | 7–35 | 50–180 | 1 1/2" | 11 1/4" | 3/8" Sq. Dr. | 2.5 lbs |
| ECT50705 | 313044 | Lever Start | 62–309.8 | 7–35 | 50–180 | 1 1/2" | 11 3/4" | 1/2" Sq. Dr. | 2.5 lbs |
| ECT50854 | 313045 | Lever Start | 88.5–442.5 | 10–50 | 50–135 | 1 1/2" | 11 3/4" | 3/8" Sq. Dr. | 2.5 lbs |
| ECT50855 | 313046 | Lever Start | 88.5–442.5 | 10–50 | 50–135 | 1 1/2" | 11 3/4" | 1/2" Sq. Dr. | 2.5 lbs |

# Mountz ECT-Series transducerized smart electric screwdrivers continued

## PISTOL GRIP TRANSDUCERIZED MODELS

| MODEL | ITEM NO. | DRIVER TYPE | TORQUE RANGES | | ADJUSTABLE SPEED RPM | GRIP DIAMETER | LENGTH | DRIVE SIZE | WEIGHT |
|---|---|---|---|---|---|---|---|---|---|
| | | | LBF.IN | N.M | | | | | |
| ECT50100-PB<br>ECT50100-PT | 313047<br>313062 | Pistol Grip | 8–39.8 | 0.9–4.5 | 100–1800 | 2" | 8 1/3" | 1/4" F/Hex | 2.2 lbs |
| ECT50104-PB<br>ECT50104-PT | 313048<br>313063 | Pistol Grip | 8–39.8 | 0.9–4.5 | 100–1800 | 2" | 8 1/3" | 3/8" Sq. Dr. | 2.2 lbs |
| ECT50120-PB<br>ECT50120-PT | 313049<br>313064 | Pistol Grip | 11.5–57.5 | 1.3–6.5 | 100–1250 | 2" | 8 1/3" | 1/4" F/Hex | 2.2 lbs |
| ECT50124-PB<br>ECT50124-PT | 313050<br>313065 | Pistol Grip | 11.5–57.5 | 1.3–6.5 | 100–1250 | 2" | 8 1/3" | 3/8" Sq. Dr. | 2.2 lbs |
| ECT50200-PB<br>ECT50200-PT | 313051<br>313066 | Pistol Grip | 20.4–101.8 | 2.3–11.5 | 50–690 | 2" | 9" | 1/4" F/Hex | 2.4 lbs |
| ECT50204-PB<br>ECT50204-PT | 313052<br>313156 | Pistol Grip | 20.4–101.8 | 2.3–11.5 | 50–690 | 2" | 9" | 3/8" Sq. Dr. | 2.4 lbs |
| ECT50300-PB<br>ECT50300-PT | 313053<br>313067 | Pistol Grip | 28.3–141.6 | 3.2–16 | 50–470 | 2" | 9" | 1/4" F/Hex | 2.4 lbs |
| ECT50304-PB<br>ECT50304-PT | 313054<br>313068 | Pistol Grip | 28.3–141.6 | 3.2–16 | 50–470 | 2" | 9" | 3/8" Sq. Dr. | 2.4 lbs |
| ECT50500-PB<br>ECT50500-PT | 313055<br>313069 | Pistol Grip | 42.5–212.4 | 4.8–24 | 50–310 | 2" | 9" | 1/4" F/Hex | 2.4 lbs |
| ECT50504-PB<br>ECT50504-PT | 313056<br>313070 | Pistol Grip | 42.5–212.4 | 4.8–24 | 50–310 | 2" | 9" | 3/8" Sq. Dr. | 2.4 lbs |
| ECT50604-PB<br>ECT50604-PT | 313057<br>313071 | Pistol Grip | 58.4–292.1 | 6.6–33 | 50–200 | 2" | 9 1/2" | 3/8" Sq. Dr. | 2.6 lbs |
| ECT50804-PB<br>ECT50804-PT | 313058<br>313072 | Pistol Grip | 70.8–354 | 8–40 | 50–160 | 2" | 9 1/2" | 3/8" Sq. Dr. | 2.6 lbs |
| ECT50805-PB<br>ECT50805-PT | 313059<br>313073 | Pistol Grip | 70.8–354 | 8–40 | 50–160 | 2" | 9 1/2" | 1/2" Sq. Dr. | 2.6 lbs |
| ECT50904-PB<br>ECT50904-PT | 313060<br>313074 | Pistol Grip | 100.9–504.5 | 10–50 | 50–115 | 2" | 9 1/2" | 3/8" Sq. Dr. | 2.6 lbs |
| ECT50904-PB<br>ECT50904-PT | 313060<br>313074 | Pistol Grip | 100.9–504.5 | 10–50 | 50–115 | 2" | 9 1/2" | 3/8" Sq. Dr. | 2.6 lbs |
| ECT50905-PB<br>ECT50905-PT | 313061<br>313075 | Pistol Grip | 100.9–504.5 | 10–50 | 50–115 | 2" | 9 1/2" | 1/2" Sq. Dr. | 2.6 lbs |

Note: PB models have power tool cable connection located at the bottom grip section of the tool.
PT models have power tool cable connection located at the top section of the tool.



# Mountz ECT-Series transducerized smart electric screwdrivers continued

## RIGHT ANGLE TRANSDUCERIZED MODELS

| MODEL | ITEM NO. | DRIVER TYPE | TORQUE RANGES | | ADJUSTABLE SPEED RPM | GRIP DIAMETER | LENGTH | DRIVE SIZE | WEIGHT |
|---|---|---|---|---|---|---|---|---|---|
| | | | LBF.IN | N.M | | | | | |
| ECT40100-RA | 313193 | Right Angle | 2.5–12.4 | 0.3–1.4 | 100–1500 | 2" | 13 1/2" | 1/4" F/Hex | 2.8 lbs |
| ECT40200-RA | 313194 | Right Angle | 6–30.1 | 0.7–3.4 | 100–900 | 2" | 13 1/2" | 1/4" F/Hex | 2.8 lbs |
| ECT40300-RA | 313195 | Right Angle | 8.9–44.3 | 1–5 | 100–620 | 2" | 13 1/2" | 1/4" F/Hex | 2.8 lbs |
| ECT50100-RA | 313076 | Right Angle | 8–39.8 | 0.9–4.5 | 100–1800 | 2" | 13 1/2" | 1/4" F/Hex | 2.8 lbs |
| ECT50104-RA | 313077 | Right Angle | 8–39.8 | 0.9–4.5 | 100–1800 | 2" | 13 1/2" | 3/8" Sq. Dr. | 2.8 lbs |
| ECT50120-RA | 313196 | Right Angle | 11.5–57.5 | 1.3–6.5 | 100–1250 | 2" | 13 1/2" | 1/4" F/Hex | 3 lbs |
| ECT50124-RA | 313088 | Right Angle | 11.5–57.5 | 1.3–6.5 | 100–1250 | 2" | 13 1/2" | 3/8" Sq. Dr. | 3 lbs |
| ECT50150-RA | 313078 | Right Angle | 13.3–66.4 | 1.5–7.5 | 100–950 | 2" | 13 1/2" | 1/4" F/Hex | 3 lbs |
| ECT50154-RA | 313079 | Right Angle | 13.3–66.4 | 1.5–7.5 | 100–950 | 2" | 13 1/2" | 3/8" Sq. Dr. | 3 lbs |
| ECT50200-RA | 313080 | Right Angle | 20.4–101.8 | 2.3 - 11.5 | 50–690 | 2" | 13 1/2" | 1/4" F/Hex | 3 lbs |
| ECT50204-RA | 313081 | Right Angle | 20.4–101.8 | 2.3 - 11.5 | 50–690 | 2" | 13 1/2" | 3/8" Sq. Dr. | 3 lbs |
| ECT50300-RA | 313082 | Right Angle | 28.3–141.6 | 3.2–16 | 50–470 | 2" | 13 1/2" | 1/4" F/Hex | 3 lbs |
| ECT50304-RA | 313083 | Right Angle | 28.3–141.6 | 3.2–16 | 50–470 | 2" | 13 1/2" | 3/8" Sq. Dr. | 3 lbs |
| ECT50500-RA | 313086 | Right Angle | 42.5–212.4 | 4.8–24 | 50–310 | 2" | 13 1/2" | 1/4" F/Hex | 3.3 lbs |
| ECT50504-RA | 313179 | Right Angle | 42.5–212.4 | 4.8–24 | 50–310 | 2" | 13 1/2" | 3/8" Sq. Dr. | 3.3 lbs |
| ECT50604-RA | 313185 | Right Angle | 58.4–292.1 | 6.6–33 | 50–200 | 2" | 13 1/2" | 3/8" Sq. Dr. | 3.3 lbs |
| ECT50804-RA | 313187 | Right Angle | 70.8–354 | 8–40 | 50–160 | 2" | 13 1/2" | 3/8" Sq. Dr. | 3.5 lbs |
| ECT50805-RA | 313192 | Right Angle | 70.8–354 | 8–40 | 50–160 | 2" | 13 1/2" | 1/2" Sq. Dr. | 3.5 lbs |
| ECT50904-RA | 313181 | Right Angle | 100.9–504.5 | 11.4–57 | 50–115 | 2" | 13 1/2" | 3/8" Sq. Dr. | 3.5 lbs |
| ECT50905-RA | 313200 | Right Angle | 100.9–504.5 | 11.4–57 | 50–115 | 2" | 13 1/2" | 1/2" Sq. Dr. | 3.5 lbs |

## Mountz ECT-Series transducerized smart electric screwdrivers continued

### ROBOTIC TRANSDUCERIZED MODELS

| MODEL | ITEM NO. | DRIVER TYPE | TORQUE RANGES | | ADJUSTABLE SPEED RPM | GRIP DIAMETER | LENGTH | DRIVE SIZE | WEIGHT |
|---|---|---|---|---|---|---|---|---|---|
| | | | LBF.IN | N.M | | | | | |
| ECT40100-R+C | 313164 | Remote Start | 2.5–12.4 | 0.3–1.4 | 100–1500 | 1 1/2" | 13 1/8" | 1/4" F/Hex | 2.4 lbs |
| ECT40200-R+C | 313162 | Remote Start | 6–30.1 | 0.7–3.4 | 100–900 | 1 1/2" | 13 1/8" | 1/4" F/Hex | 2.4 lbs |
| ECT40300-R+C | 313167 | Remote Start | 8.9–44.3 | 1–5 | 100–620 | 1 1/2" | 13 1/8" | 1/4" F/Hex | 2.4 lbs |
| ECT50100-R | 313089 | Remote Start | 8–39.8 | 0.9–4.5 | 100–1800 | 1 1/2" | 13 1/8" | 1/4" F/Hex | 2.4 lbs |
| ECT50104-R | 313090 | Remote Start | 8–39.8 | 0.9–4.5 | 100–1800 | 1 1/2" | 13 1/8" | 3/8" Sq. Dr. | 2.4 lbs |
| ECT50200-R | 313091 | Remote Start | 20.4–101.8 | 2.3–11.5 | 50–690 | 1 1/2" | 13 1/8" | 1/4" F/Hex | 2.4 lbs |
| ECT50204-R | 313092 | Remote Start | 20.4–101.8 | 2.3–11.5 | 50–690 | 1 1/2" | 13 1/8" | 3/8" Sq. Dr. | 2.4 lbs |
| ECT50300-R | 313093 | Remote Start | 28.3–141.6 | 3.2–16 | 50–470 | 1 1/2" | 13 1/8" | 1/4" F/Hex | 2.4 lbs |
| ECT50304-R | 313094 | Remote Start | 28.3–141.6 | 3.2–16 | 50–470 | 1 1/2" | 13 1/8" | 3/8" Sq. Dr. | 2.4 lbs |
| ECT50500-R | 313095 | Remote Start | 42.5–212.4 | 4.8–24 | 50–310 | 1 1/2" | 13 1/8" | 1/4" F/Hex | 2.7 lbs |
| ECT50504-R | 313096 | Remote Start | 42.5–212.4 | 4.8–24 | 50–310 | 1 1/2" | 13 1/8" | 3/8" Sq. Dr. | 2.7 lbs |
| ECT50604-R | 313097 | Remote Start | 58.4–292.1 | 6.6–33 | 50–200 | 1 1/2" | 13 1/8" | 3/8" Sq. Dr. | 2.7 lbs |
| ECT50804-R | 313098 | Remote Start | 70.8–354 | 8–40 | 50–160 | 1 1/2" | 13 5/8" | 3/8" Sq. Dr. | 2.8 lbs |
| ECT50805-R | 313099 | Remote Start | 70.8–354 | 8–40 | 50–160 | 1 1/2" | 13 5/8" | 1/2" Sq. Dr. | 2.8 lbs |
| ECT50904-R | 313100 | Remote Start | 100.9–504.5 | 11.4–57 | 50–115 | 1 1/2" | 13 5/8" | 3/8" Sq. Dr. | 2.8 lbs |
| ECT50905-R | 313101 | Remote Start | 100.9–504.5 | 11.4–57 | 50–115 | 1 1/2" | 13 5/8" | 1/2" Sq. Dr. | 2.8 lbs |



## Stands and brackets

### Vertical Controller Stand

The vertical stand is an accessory option to mount the ECD or ECTD Controller for placement on an assembly workbench station.

**Vertical Controller Stand**
Item #310203

### Wall Mount Bracket

The wall mount bracket is an accessory option for the ECD or ECTD controller. It can be firmly installed on the wall with 4 screws.

**Wall Mount Bracket**
Item #310215

### Pistol Grip Side Handle

The pistol grip side handle is an optional accessory that mounts on either side for additional handgrip, greater control, and versatility.

For use with only pistol grip models for ECT-Series and EC-Series smart screwdrivers.

**Pistol Grip Side Handle**
Item # 313199





### Bit Socket Trays

Error-proofing solution minimizes the risk of errors by automatically selecting the correct torque according to the chosen socket or bit. The device connects to the ECD or ECTD controller. It will improve productivity and reduce operator errors. Saves downtime by automatically changing program settings for multiple fastening sequences and workflows.

LCD MODELS

**Bit Socket Tray (4 bit holders)**
Item #310185
Includes four 7.5 mm bit holders

**Bit Socket Tray (8 bit holders)**
Item #310186
Includes eight 7.5 mm bit holders

**Bit Socket Tray (12 bit holders)**
Item #310187
Includes twelve 7.5 mm bit holders.

**Bit Socket Tray (16 bit holders)**
Item #310188
Includes sixteen 7.5 mm bit holders

Note: Additional bit holder insert sizes are available. See options on the next page.

## Bit socket configuration process

The Bit Socket Tray system requires three components:

1. Select Bit Socket Tray option (see previous page)
2. Add SMPS adapter
3. Select communication cable that connects the Bit Socket Tray to the ECD and ECTD Controller

**SMPS Adapter (24VDC 1A)**
Item #310102
Includes a UL 2P 110V Power cord plug.*

**Power Cord for SMPS Adapter (220V CE Plug)**
Item #310110

**Cable 25P I/O (M-M) 3 meters**
Item #310112

**Cable 25P I/O (M-M) 5 meters**
Item #310115

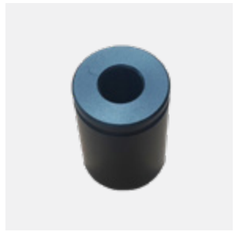
*Note: For 220V, purchase Item #310110 along with #310102

## Bit Holders

Additional bit holder inserts can be purchased separately for the bit socket tray.

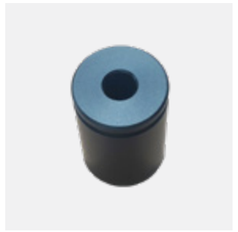
**Bit Holder (Hole size 18mm)**
Item #310104

**Bit Holder (Hole size 15mm)**
Item #310105



**Bit Holder (Hole size 10mm)**
Item #310106

**Bit Holder (Hole size 7.5mm)**
Item #310107



**Bit Holder (Hole size 3mm)**
Item #310108

**Bit Holder (Plain)**
Item #310109





## 44P I/O Wiring Box

It provides easy and convenient wiring for 12 inputs and outputs for a ECD, ECTD or ADC controller by sharing one single 24V power source (Input power: 24VDC 1A).

A I/O Cable is needed to connect to a controller.


**I/O Wiring Box**
Item #310055

Note: It requires an AC Adapter, Item #310102

**I/O Cable 3m**
**(44P male to 25P male)**
Item #310057

| D_SUB 44P | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | In 1 | 10 | In 10 | 19 | Out 4 | 28 | – | 37 | Out Com |
| 2 | In 2 | 11 | In 11 | 20 | Out 5 | 29 | Out Com | 38 | – |
| 3 | In 3 | 12 | In 12 | 21 | Out 6 | 30 | Out Com | 39 | – |
| 4 | In 4 | 13 | – | 22 | Out 7 | 31 | 24V+ | 40 | – |
| 5 | In 5 | 14 | In Com | 23 | Out 8 | 32 | 24V+ | 41 | – |
| 6 | In 6 | 15 | In Com | 24 | Out 9 | 33 | 24V+ | 42 | – |
| 7 | In 7 | 16 | Out 1 | 25 | Out 10 | 34 | – | 43 | – |
| 8 | In 8 | 17 | Out 2 | 26 | Out 11 | 35 | Out Com | 44 | – |
| 9 | In 9 | 18 | Out 3 | 27 | Out 12 | 36 | Out Com | | |

## Telescopic Bit Cushions

The telescopic bit cushion reduces impact and vibration transmitted in the screw fastening process. Ideal for fastening delicate components such as disk drives, plastics, and electronics. Commonly used with the robotic screwdriver models.

**TBC-1**
Item #310200
Compatible with ECT screwdriver models: ECT50100-R, ECT50200-R, ECT50300-R, and ECT50500-R (1/4 F/Hex models) see page 14 for ECT-Series robotic models.

Compatible with EC-Series models: EC50000-R, EC50050-R, EC50100-R, EC50120-R EC50150-R, EC50200-R, EC50300-R, and EC50500-R " (1/4 F/Hex models) see page 18 for EC-Series robotic models.

**TBC-2**
Item #310201
Compatible with ECT-Series screwdriver models: EC50000-R, EC50050-R, EC50100-R, EC50150-R, and EC50200-R (1/4 F/Hex models)

Compatible with ECT-Series models: ECT50104-R, ECT50204-R, ECT50304-R, ECT50504-R, ECT50604-R, ECT50804-R, and ECT50904-R (3/8 Sq. Dr. models) see page 14 for ECT-Series robotic models.

Compatible with EC-Series models: EC50104-R, EC50124-R EC50204-R, EC50304-R, EC50504-R, EC50604-R, EC50804-R, and EC50904-R (3/8 Sq. Dr. models) see page 18 for EC-Series robotic models.





## Power tool cables

Each EC and ECT electric screwdriver is supplied with the standard 3-meter length cable. The driver cable connects the EC and ECT-Series electric screwdriver to the ECD or ECTD controller.

**STANDARD POWER TOOL CABLES FOR EC AND ECT-SERIES**

**3m length cable**
Item #310210

**5m length cable**
Item #310211

**8m length cable**
Item #310212

**10m length cable**
Item #310213

## ECD and ECTD controller cables

Various supporting cables for the controllers.

**RS232 Cable**
**(DB9 male x DB9 female, 2m)**
Item #773856

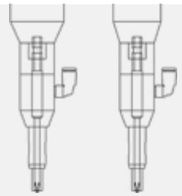
**Cable**
**(USB to RS232 adapter)**
Item #773069

**I/O Cable 3m**
**(44P male to 25P male)**
Item #310057

## Vacuum adapter kits

Vacuum adapter kits can be mounted on an electric screwdriver. The screwdriver is fitted with a suction head that holds the screw on the bit, enabling the operator to pick it up with the tool itself. This kit is a useful, time-saving device that works with most fasteners.

Item #310075
Specification: For 1/4 F/Hex Dr, M20
Bit: Ohmi V-17, 70mmL
Screwdriver types: EC40000, EC40050, EC40100, EC40200, EC40300, EC50000, EC50050, ECT40100, ECT40200, ECT40300



M23 X 1PT

Item #310076
Specification: For 1/4 F/Hex Dr, M23
Bit: Ohmi V-17, 70mmL
Screwdriver types: EC50100, EC50150, EC50200, EC50300, ECT50100, ECT50150, ECT50200, ECT50300

Note: Mouthpiece and bit purchased separately.

OHMI V-05 DIA 4MM–64ML

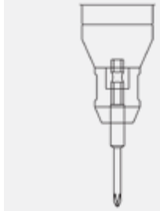
OHMI V-17 HEX 1/4–70ML

## Torque cover bit holders

Provides better bit concentricity for a long length bit.

M23 X 1PT | M23 X 1PT | 1/4 HEX M23 | 1/4 HEX M20

Item #310078
Specification: For 1/4 F/Hex Dr, M20
Bit: Ohmi V-17, 70mmL
Screwdriver types: EC40000, EC40050, EC40100, EC40200, EC40300, EC50000, EC50050, ECT40100, ECT40200, ECT40300



Item #310079
Specification: For 1/4 F/Hex Dr, M23
Bit: Ohmi V-17, 70mmL
Screwdriver types: EC50100, EC50150, EC50200, EC50300, ECT50100, ECT50150, ECT50200, ECT50300


**Achieve a robust manufacturing process using Mountz intelligent electric screwdriver system.**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