DATA TORK®
CEM3/CEM3-P

Digital Torque Wrench for Inspection and Tightening

CEM3 Standard Version
- Dual LCD and LED Displays for Optimal Viewing
- User Friendly Operations
- Manage Data with Time and Date Functions
- Various Data Processing Options with PC or Handy Terminal (Model HT)

CEM3-P Version
- Expanded Programming Features Link Torque Data to Fastener Information
- Prevent Inspection Errors and Improve Testing Efficiency
- Easy to Create Torque Inspection Routes with Supplied Software

Your Torque Partner TOHNICHI
Features of CEM3

- Judgment Function: OK/NG Buzzer and LED light
- Dual Displays: Switch between power saving LCD and LCD+LED for easy viewing
- Measured Data Linked to Time and Date
- 999 Data Storage Capacity
- Preset Value Buzzer and Display Alerts.
- Data Output: RS232C-Compliant (USB 1.1 Compliant) and Infrared
- 20 Hours Battery Life (30 hrs of continuous use in power saving mode)
- Environmentally friendly Ni-MH battery
- LCD Residual Battery Life Indicator
- Light Weight Robust Aluminum Body Construction
- Innovative Handle Design Shows Effective Length Point for Optimal Use
- Statistical Data: Sample Size, Min., Max. and Average Values Displayed
- Download Individual or Selected Range of Data
- Advanced Data Management Options with PC or Handy Terminal (Model HT)

Dual Mode on your purpose:

- **Inspection**
  - Perform loosening or retightening test
    - Most common is retightening where you must apply more torque to the bolt until it move, capturing the peak torque.
  - For quality control checks

- **Tightening**
  - Tighten bolt to a specific torque value
  - For special tightening applications that require data storage
CEM3-P is a programmable version of the CEM3 model. This specialized version has expanded data management functions which are set up through PC software and uploaded to the wrench via cable. (software and #584 cable included)

Various Data can be set up including:
- Product Category/Route Name,
- Fastener Location,
- Number of Fasteners,
- Torque Hi/Lo Limits,
- Sequence

The programmed “Torque Route” information is displayed on the wrench which guides the user through a sequence of torque inspections. Judgment alarms can be set up to signal if value is OK or NG. Stored data can then be downloaded to an Excel file through supplied software package.

Features of CEM3-P
- 6 Character Name Display
- 10 Main Categories (Product/Route Names)
- 10 Different Tightening Jobs
- Up to 99 Fasteners per Job
- Route Completion Indicator
- Main Category Selector
- Repeat Same Torque Route or Toggle To Select
- Ideal for linking product information with torque values
- Easy for users to keep track of various testing routes.

Operation Example

Customised Optional Interface
Tightening Control System for Statistical Data Processing

Overview
- DFS Software communicates with Handy Terminal
- Measured torque data taken with DATA TORK CEM3 can be filed according to each model.
- Data Search, Statistical Data Processing, Graphing, Daily/Monthly Reports
- Flexible system with Master File maintenance, transmitting and receiving
- Help menu guidance for quick installation and set up

Statistic data processing

For more detail information, please contact TOHNICHI dealers.
### Specifications

**Accuracy:** 1% ±1digit

**Display (Torque value):**
- 14 segments LCD 3 lines
- 7mm

**Digit Height (Torque value):**
- 10.16mm

**Number of Data Memory:** 999

**Basic Functions:**
- Peak Hold
- Peak Data Memory
- Run Mode
- Auto Memory & Resetting
- Auto Zero setting
- Auto Off (3 min)
- Over Torque Alarm
- Clock

**Communication Functions:**
- RS232C (2400-19200bps)
- Serial output corresponding to a USB connecter

**Battery Life Indicator:** Available

**Power Supply:** Ni-MH rechargeable battery

**Continuous Use:**
- Approx 20hrs (Recharging 8hrs)

**Recharging Time:**
- Approx. 3.5hours

**Communication Mode Switch:** Key Operation

**ILCD-LED mode**

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### Interchangeable Head

<table>
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<th>Metric</th>
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**Accessories:**

- Interchangeable Head
- Protective Cover
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**Battery Charger**

- BC-3-100
- BC-3-200

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**Note:** Metric model is named “M”, e.g. CEM10N3X8D-M for 20-100kgf-cm.

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