



WrenchStar Multi-e

Electrically-safe, insulated digital torque wrenches.

The electrically safe, insulated WrenchStar Multi-e digital torque wrench has been developed by Crane Electronics, especially for new electric vehicle and electric battery production environments and applications.

Meeting the growing global demand for insulated tooling, Crane has developed the new WSM-e, based on the established WrenchStar Multi digital torque wrench. Already approved for use by a wide range of leading manufacturers around the world, you can now have all the benefits of the WrenchStar Multi whilst complying with EV production quality standards.

The insulated wrench has been tested in accordance with the appropriate sections of the IEC 60900:2018* standard, applicable to insulated hand tools used for working with, or close to, live parts.

The WrenchStar Multi-e also includes an inductive battery charging system that complies to WPC/Qi standards. The WSM-e wrench works in combination with our lineside controllers for seamless assembly applications, or with our torque data collectors for accurate quality control tasks.

Key Features

- Fully insulated wrench design with non-conductive plastic insulation over the wrench handle, shaft and wrench head.
- Fully isolated metal components underneath the protective insulation makes the wrench completely resistant to potentially dangerous electrical conductivity.
- Inductive battery charging system, complying to WPC/Qi standards, for safer and efficient charging of the wrench.
- The WrenchStar Multi-e has been designed and manufactured for use in EV environments, with user safety in mind at all stages of development.
- All of the innovative features and capabilities of the existing WrenchStar Multi digital torque wrench.

For electrically-safe operation in both Production & Quality applications.

- Connect to our TCI-2 lineside controllers for production applications. Connect wirelessly via RF to become a production wrench with audit capability.
- Accurately tighten and measure critical fasteners to pre-set torque and angle specifications.
- Connect to the TorqueStar Pro data collector for quality auditing applications, ensuring that critical fasteners and joints are accurately tightened.
- The WSM-e confirms process and quality verification whilst also helping achieve complete assembly data traceability.



| Product Code | Range |
|-------------------|--|
| WS1JE-0010-C1DARX | 10Nm - Insulated Ratchet Adapter Head with Battery & Cradle |
| WS1JE-0025-C1DARX | 25Nm - Insulated Ratchet Adapter Head with Battery & Cradle |
| WS1JE-0050-C1DARX | 50Nm - Insulated Ratchet Adapter Head with Battery & Cradle |
| WS1JE-0075-C1DARX | 75Nm - Insulated Ratchet Adapter Head with Battery & Cradle |
| WS1JE-0100-C1DARX | 100Nm - Insulated Ratchet Adapter Head with Battery & Cradle |
| WS1XS-0000-CRCNXE | Additional Inductive Charging Cradle |
| WS1XS-00JB-CRRXXE | Additional Insulated Ratchet Adapter Head - 9 x 12 DIN to 3/8" |

For pricing, availability or further technical information about the WrenchStar Multi-e, please contact us online at www.crane-electronics.com or alternatively, email us at sales@crane-electronics.com.

Technical Specification

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|---|---|
| Operating Temp Range: | +5° to +40°C. |
| Storage Temp Range: | -20 to +50°C. |
| Humidity: | 10-75% non-condensing. |
| IP Rating: | IP40 (indoor use only - not suitable for use when wet). |
| Zero Stability: | <0.02% FSD/°C. |
| Static Accuracy: | ±0.25% FSD. |
| Reading Storage: | 200 readings in offline mode. |
| Sampled: | Every 60 micro seconds (16,667 per second). |
| Physical Measurement: | Bi-directional torque and angle. |
| Measurement Modes: | Peak, MoveOn and Yield. |
| Angle Measurement: | Sample every 1000 micro seconds. |
| Frequency Response: | 75Hz to 4608Hz. |
| Battery: | Rechargeable 3.7v Lithium Ion. |
| Capacity: | 2600mAh. |
| Wireless Charging: | 5V DC 2000mA power supply, Qi/ WPC technology chipset, approx. 800mA charge rate. |
| Display: | OLED 32 x 128 pixels white. |
| Communication with IQVu-2: | 2.4GHz RF only. |
| Communication with TorqueStar Pro: | 2.4GHz RF only. |
| Communication with TCI-2/TCI Multi | 2.4GHz RF with Open Protocol or Crane Protocol. |
| Warranty: | 12 months parts and labour against faulty workmanship or materials. |



Locations

UK - Watling Drive, Hinckley, Leicestershire LE10 3EY
 USA - 1260 11th Street West, Milan, Illinois 61264
 Germany - Im Rank 5, 73655 Plüderhausen

