

## Torcbrain™ smart cordless torque wrench for critical applications

The Torcbrain C-Series Torque Wrenches are precision tools designed for critical assembly processes, incorporating advanced technology to ensure accuracy, efficiency, and safety

### Key Features and Benefits:

- Precision Torque Control: Delivers exact torque values consistently, minimizing the risk of over or under-tightening.
- Data Logging and Analysis: Records critical bolting data, such as torque values, angle, and time, for traceability and process optimization.
- Connectivity: Enables wireless communication with external devices (e.g., computers, tablets) for data transfer and remote monitoring.
- Ergonomic Design: Provides comfort and reduces operator fatigue during extended use.
- Battery Life: Offers sufficient power for extended operation without interruptions.
- Safety Features: Includes features like rehit detection, two-hand operation, and audible/visual alarms to prevent accidents.
- Durability: Built to withstand harsh working environments and heavy use.
- Customization: Allows for tailored settings and profiles to meet specific application requirements.



### Comfort

- Lightweight and ergonomically balanced tool for easy handling and reduced fatigue.
- User-friendly interface with simple menu navigation.
- Easily select from pre-set torque values for quick settings.

### Process Quality and Safety

- Ensures safe operation with electronic auto shut-off once the desired torque is achieved.
- Bolt Retention Prevention: Detects fully tightened bolts and halts process to avoid over-tightening.
- Maximize torque accuracy with an optional integrated torque sensor measuring output drive torque.
- Prioritize operator safety with an optional two-hand safety switch.
- German-engineered and made, for superior quality and reliability.

### Productivity

- Position the tool on the bolt easily with precise fingertip speed control.
- The smart energy regeneration system allows for more bolts per battery charge to be fastened.
- Advanced battery technology for enhanced performance and efficiency.
- Intelligent motor control system for optimised performance and precision.
- Fast, maintenance-free, brushless EC motor and gearbox for reliable operation.

### Connectivity

- Real time monitoring, recording, and assessment of wrench performance and bolting outcomes.
- Tamper-proof data is securely stored both on the wrench and in a cloud-based system (optional).
- Advanced security measures: encrypted communication and password-controlled access.
- Effortless creation of custom parameter sets directly on mobile devices using wireless connection without requiring additional applications or software.



## Torcbraintm smart cordless torque wrench for critical applications

- Direct connection (WPA3) to mobile devices (without Internet)
- torcbraintm-cloud (internet necessary)

- torcbraintm-Precision planetary gearbox (400 Nm / 1000 Nm)
- 360° pivotable

**Torque measurement** with integrated Torque sensor (direct measurement at the output)



### Touch Display

- Program selection
- Real-time torque values
- Status (time, date, WiFi, battery status)

18 V / 5.5 Ah CAS Alliance rechargeable battery  
<https://www.cordless-alliance-system.com/>



### Multifunction LED:

green = OK  
red = NOK  
white = lighting

- Start button (speed trigger) for easy and fast mating of the nut
- More safety due to **Two-hand start** (optional)

### Proven Torcbraintm technology

- Complete bolting solution: motor, gearbox, and software from a single source.
- 25 years of bolting expertise, condensed into one powerful tool.
- Versatile design for various applications thanks to its compact and ergonomic form.
- Precision-engineered components with roller and needle bearings deliver outstanding efficiency, extended lifespan, and unmatched accuracy.
- Optimized power-to-weight ratio and balanced design for effortless use.
- High-speed, maintenance-free brushless DC motor for reliable performance.
- Precision-engineered, compact planetary gearbox offering 360° swivel capability and long service life.

### Highest bolting process quality documentation system

- Direct torque sensing using a torque transducer at the output drive to measure reaction force.
- The bolting angle is a controllable variable for enhanced process optimisation.
- Bolt Retention Prevention: Detects fully tightened bolts and halts process to avoid over-tightening.
- Real time monitoring, recording, and assessment of wrench performance and bolting outcomes.
- Tamper-proof, automated recording of bolting data, including achieved torque values and fastening curves, both on the tool and in cloud storage (optional).

## Torcbraintm process-quality operating concept

- Efficient selection of pre-stored torque values for common bolting connections based on VDI/DIN-EN standards directly on the tool.
- Easily add new torque values directly from your mobile device without needing additional apps or internet connection.
- Unnecessary torque values can be hidden for a streamlined user interface.
- Define and secure user access levels with customisable roles and password protection.
- Post-process color-coded illumination indicates task outcome: green for successful completion, red for error.



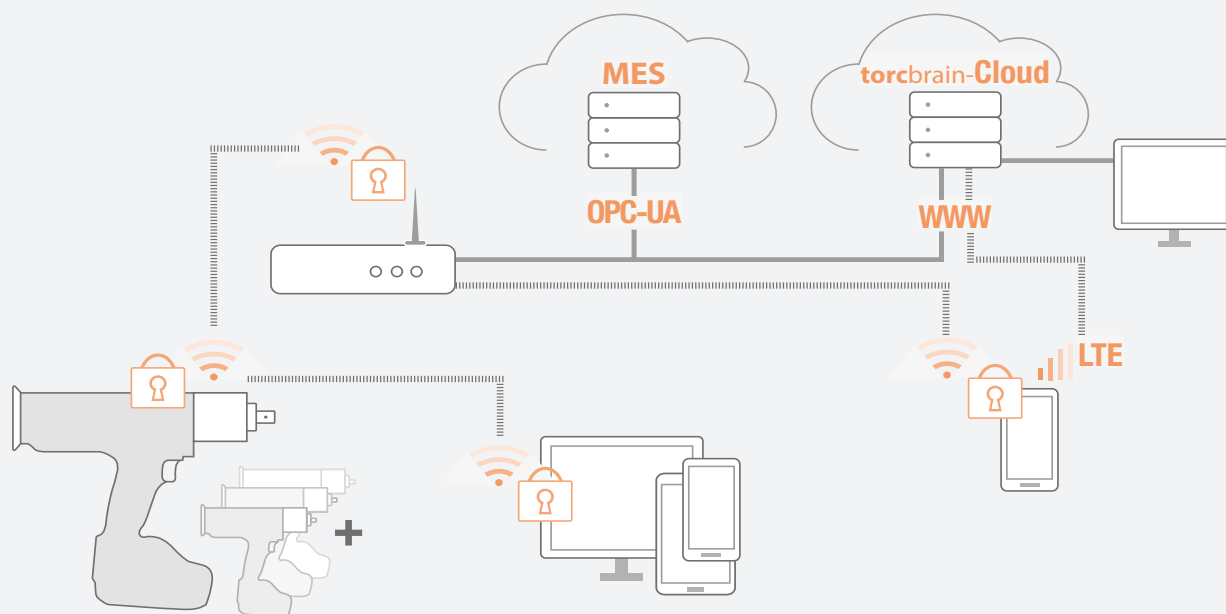
## Torcbraintm Cloud: the control centre for your torque wrench process reporting

- Encrypted management of multiple torque wrenches through a cloud-based platform with EU server location.
- Robust security: encrypted data transfer and password protection.
- Multi-level security concept: encrypted communication, access control via password.
- Ability to export complete bolting results for further analysis or documentation.

## Torcbraintm Service excellence

- Proactive issue detection and resolution through online support and remote service access.
- Regular firmware updates ensure compliance with EU regulations

## Connectivity



## Applications

- |                |                   |                 |                      |
|----------------|-------------------|-----------------|----------------------|
| • Aerospace    | • Energy          | • Manufacturing | • Power Plants       |
| • Automotive   | • Heavy Equipment | • Oil and Gas   | • Railroad equipment |
| • Construction | • Infrastructure  | • Pipelines     | • Wind turbines      |

## torcbrain™ C-Series Specifications & Technical data

Type	C	CD
Brushless motor	✓	✓
Touch display	✓	✓
Programmable	✓	✓
Torque / rotation angle	✓	✓
Torque sensor		✓
Current controlled torque measurement	✓	
Limits	✓	✓
Standard protocol	✓	✓
Torque/angle curves	Optional	✓
Two-hand start	Optional	Optional
WiFi (HTTPS/WPA3 secured)	✓	✓
torcbrain®-cloud	✓	✓

Technical data and specification subject to change without prior notice

## Technical Data

Type	MAX. TORQUE [Nm]	RPM [min <sup>-1</sup> ]	WEIGHT (incl. battery / DMA) [kg]	SQUARE DRIVE	A [mm]	D [mm]
TB 400 C/CD	400	20	4,2	3/4"	276	60
TB 1000 C/CD	1000	7	5,3	3/4"	323	70

