



# INSIGHTqcT™ SERIES

## Calibration Equipment

# FASTENING INDUSTRY

Competition is driving product quality requirements to new levels. Meeting these demands requires keeping your processes in control and your tools working within specifications.

## THE SOLUTION

### INSIGHTqcT™ Series calibration equipment

Our INSIGHTqcT™ Series calibration equipment is the ideal quality control companion for assembly operations with stringent torque control standards. Choose from our offering of easy-to-use torque testers, analyzers, transducers, and joint kits to set up and calibrate your full portfolio of precision tools.

#### IQCTT SERIES TORQUE TESTERS

The IQCTT Series of torque testers includes four different models with integrated transducers that allow rapid and accurate torque checking of fastening tools from 0.1 to 30 Nm (1 to 265 in-lb). The IQCTT's enhanced features include track and peak modes for most hand and power tools, a pulse mode that measures and counts pulses for pulse tools, and a click mode for hand-click wrenches. Included trace and statistical functions support even the most detailed joint analysis and proper decision making.

#### IQCTA SERIES TORQUE ANALYZER

The IQCTA Series torque analyzer shares the same compact, sleek design and impressive feature set, but is designed for portability. It can dynamically measure and record the output of precision fastening tools on the application or the workbench in both directions when coupled with our automatically recognized Smart or



Industry Standard transducers. Joint simulators are also available to emulate different joint rates from hard to soft and can be used with both stationary and rotary transducers when working away from the application.



# PORTFOLIO OVERVIEW

Ingersoll Rand® offers a full line of production fastening equipment, including pneumatic and electric screwdrivers, nutrunners, drills, riveters, pulse tools, as well as hand-held and multispindle fixtured DC nutrunners. Whether you need a solution for a single, specific application or an entire assembly line, you can trust our century of tool design experience to meet your needs.



# CALIBRATION EQUIPMENT



#### IQCTT TESTER

- Compact bench-mount unit
- Integrated torque transducer in (4) ranges from 1 to 30 Nm
- Large color screen
- Simple programming and navigation
- Full statistical and tightening trace analysis
- Variable rate rundown adapter included
- Rechargeable Li-Ion battery with auto-shutdown feature
- USB port for data export

*Ideal for testing and calibration of lower torque assembly tools in a tool crib, calibration lab, or workstation.*



#### IQCTA ANALYZER

- Lightweight portable unit
- Compatible with full range of Industry Standard (IS) and Smart external transducers
- Large color screen
- Simple programming and navigation
- Full statistical and tightening trace analysis
- Rechargeable Li-Ion battery with auto-shutdown feature
- USB port for data export

*Ideal for use with a broad range of external transducers to test output of assembly tools on the application or wherever torque verification is required.*



#### ACCESSORIES

- Rotary transducers
- Stationary transducers
- Joint simulator kits
- Rundown adapters
- Transducer cables
- Battery charger
- Calibration service

*Take advantage of our extensive line of accessories and services to optimize your assembly and quality assurance processes.*

#### TRANSDUCERS

Rotary      Stationary



#### JOINT SIMULATION KITS

Rotary      Stationary      Rundown Adaptor



#### OTHER ACCESSORIES

Cable - IS transducer  
Neck strap  
Port saver - 25 pin  
Power Supply

ETA2-TC  
ETA2-STRAP  
ETA2-P525  
IQC-PS5

# INSIGHTqct™ SERIES TORQUE TESTERS AND ANALYZERS

## POWER AND HAND TOOL COMPATIBILITY

means only one system is needed to setup and calibrate all of your precision tools

## FULL STATISTICAL CAPABILITIES

Include Count, Range, Mean, MIN, MAX, Standard Deviation, Cm, Cmk, Cp, Cpk

## COMPACT AND LIGHTWEIGHT

with rechargeable Li-Ion battery provides ease of use and portability on the assembly line and space savings on the workbench

## LARGE COLOR SCREEN

shows clear, easy-to-read test results, menus, and traces

## SOFT-TOUCH KEYPAD

and intuitive menus make navigation and test setup quick and simple

## AUDIBLE AND VISIBLE INDICATORS

give High, Low, and Pass cycle status



### TYPICAL SCREEN



- Monitors bi-directional torque, angle, time, RPM & pulse count
- Supports onboard trace analysis and data export
- Reads in peak, click, pulse, or track mode
- Stores 999 time-stamped readings
- Auto-recognition of Smart transducers
- Selectable filter frequencies
- USB data export for readings and trace data
- Configurable Auto-print function via USB
- Eleven (11) units of measure
- Adjustable power-save settings
- Multi-language support for English, French, German, Italian, and Spanish

### IQCTA SERIES – INSIGHTqct™ TORQUE ANALYZER

| Model | Compatible Transducer                                      | Data Transfer        | Auto Recognition | Screen Size (mm) |
|-------|------------------------------------------------------------|----------------------|------------------|------------------|
| IQCTA | TRD<br>TR<br>TRDA<br>TSD<br>TS<br>Industry Standard<br>UTA | USB (csv)<br>Printer | Yes              | 85x50 mm         |



### IQCTT SERIES – INSIGHTqct™ TORQUE TESTER

| Model    | in-lb Range | Nm Range | Rundown Adaptor* | Service Kit   |
|----------|-------------|----------|------------------|---------------|
| IQCTT-1  | 0.88 - 8.8  | 0.1 - 1  | ETT-RA-1         | ETT-RA-1-KIT  |
| IQCTT-4  | 3.50 - 35   | 0.4 - 4  | ETT-RA-4         | ETT-RA-4-KIT  |
| IQCTT-12 | 10.6 - 106  | 1.2 - 12 | ETT-RA-12        | ETT-RA-12-KIT |
| IQCTT-30 | 26.5 - 265  | 3.0 - 30 | ETT-RA-30        | ETT-RA-30-KIT |

\* IQCTT tester includes rundown adaptor, carrying case, power supply, manuals, and a certificate of calibration. IQCTA analyzer includes carrying case, power supply, manuals, and neck strap.

**QUICK DOWNLOAD OF** results to printer or USB for data analysis, graphing, documentation, or calibration

**Dimensions**  
209 x 194 x 78 mm

**Weight**  
2.2 lb / 1.0 kg (IQCTA)  
4.5 lb / 2.1 kg (IQCTT)



### TRANSDUCERS

| ROTARY     | Industry Standard | Smart Transducers |                  | (in-lb)<br>ft-lb | Nm         | in  |
|------------|-------------------|-------------------|------------------|------------------|------------|-----|
|            |                   | Torque Only       | Torque and Angle |                  |            |     |
|            | TR2H4             | -                 | -                | (1.0 - 18)       | 0.10 - 2   | 1/4 |
|            | TR5H4             | TRD5H4            | TRDA5H4          | (2.2 - 44)       | 0.25 - 5   | 1/4 |
|            | TR20H4            | TRD20H4           | TRDA20H4         | (9.0 - 180)      | 1 - 20     | 1/4 |
|            | TR20S4            | TRD20S4           | TRDA20S4         | (9.0 - 180)      | 1 - 20     | 1/4 |
|            | TR75S6            | TRD75S6           | TRDA75S6         | 2.8 - 55         | 3.8 - 75   | 3/8 |
|            | TR180S8           | TRD180S8          | TRDA180S8        | 6.7 - 133        | 9 - 180    | 1/2 |
|            | TR250S12          | -                 | -                | 9.2 - 185        | 12.5 - 250 | 3/4 |
|            | TR500S12          | TRD500S12         | TRDA500S12       | 18.5 - 370       | 25 - 500   | 3/4 |
| STATIONARY | TS30S4            | TSD28S4           | -                | 1.1 - 22         | 1.5 - 30   | 1/4 |
|            | TS150S6           | TSD135S6          | -                | 5.5 - 110        | 7.5 - 150  | 3/8 |
|            | TS300S8           | TSD270S8          | -                | 11 - 221         | 15 - 300   | 1/2 |
|            | TS1000S12         | TSD1000S12        | -                | 37 - 738         | 50 - 1000  | 3/4 |

### JOINT SIMULATORS

| ROTARY     | Industry Standard | Includes Transducer | Joint Simulator Bolt Service Kit | ft-lb      | Nm         | in  |
|------------|-------------------|---------------------|----------------------------------|------------|------------|-----|
|            | JKR20             | No                  | JKS30-BKIT                       | 0.75 - 15  | 1.0 - 20   | 1/4 |
|            | JKR75             | No                  | JKS150-BKIT                      | 2.8 - 55   | 3.8 - 75   | 3/8 |
|            | JKR180            | No                  | JKS300-BKIT                      | 6.7 - 133  | 9.0 - 180  | 1/2 |
|            | JKR500            | No                  | JKS1000-BKIT                     | 18.5 - 370 | 25.0 - 500 | 3/4 |
| STATIONARY | JKS30             | No                  | JKS30-BKIT                       | 1.1 - 22   | 1.5 - 30   | 1/4 |
|            | JKS150            | No                  | JKS150-BKIT                      | 5.5 - 110  | 7.5 - 150  | 3/8 |
|            | JKS300            | No                  | JKS300-BKIT                      | 11.0 - 221 | 15 - 300   | 1/2 |
|            | JKS1000           | No                  | JKS1000-BKIT                     | 37.0 - 738 | 50 - 1000  | 3/4 |
|            | JKST30            | TS30S4              | JKS30-BKIT                       | 1.1 - 22   | 1.5 - 30   | 1/4 |
|            | JKST150           | TS150S6             | JKS150-BKIT                      | 5.5 - 110  | 7.5 - 150  | 3/8 |
|            | JKST300           | TS300S8             | JKS300-BKIT                      | 11.0 - 221 | 15 - 300   | 1/2 |
|            | JKST1000          | TS1000S12           | JKS1000-BKIT                     | 37.0 - 738 | 50 - 1000  | 3/4 |

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Ingersoll Rand (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is dedicated to helping make life better for our employees, customers and communities. Customers lean on us for our technology-driven excellence in mission-critical flow creation and industrial solutions across 40+ respected brands where our products and services excel in the most complex and harsh conditions. Our employees develop customers for life through their daily commitment to expertise, productivity and efficiency.