



# Expert EXT Series

Calibration Equipment





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:

### **Expert EXT Series calibration equipment**

Our Expert EXT 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.

### **EXTT Series torque testers**

The EXTT Series torque testers comprises four models of torque testers with integrated transducers that allow rapid and accurate torque checking of lower torque fastening tools from 0.1 to 30 Nm (1 to 265 in-lb). The EXTT's enhanced features include track and peak modes for most hand and power tools, a pulse mode that measures and counts pulses of pulse tools, and a click mode for hand-click wrenches.

### **EXTA Series torque analyzer**

The EXTA Series torque analyzer shares the same compact, sleek design but is designed for portability and use with a broad range of external transducers: whether torque only or torque and angle. 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.

# Expert EXT 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.

**Durable, ESD-safe** construction holds up to factory environments.

**Full statistical capabilities** include Cp, Cpk, Pp, Ppk, CMK, CAM, range, mean, and standard deviation.

**Compact and lightweight** with rechargeable battery provides ease of use and portability on the assembly line and space savings on the workbench.



EXTT-30 shown with integrated transducer and rundown adapter.

**Large LCD screen** shows clear, easy-to-read test results and menus.

**TYPICAL SCREEN**

Number of pulses (pulse mode only) → 9

Torque reading → 24.18 Nm

Tightening direction → [Clockwise icon]

Transducer information → UTA 75.00Nm, S-N = 22916

Total time torque is applied (cycle time) → 2.97

Cycle end time → 1.0

Filter frequency → 1536 Hz

Press the corresponding number on the keypad to access the features displayed on the bottom row of the screen.

- Monitors torque, angle, time, and pulse count
- Reads in peak, click, pulse, or track mode
- Stores 200 time-stamped readings
- Auto-recognition of Smart transducers
- Seven units of measure
- Selectable filter frequencies
- DC tool calibration via ICS software
- Selectable power-save settings
- Selectable languages include English, French, German, Italian, and Spanish

EXTA SERIES — EXPERT TORQUE ANALYZER				
Model	External Transducer	Data Transfer	Auto Recognition	LCD Screen
EXTA	Smart (UTA) or Industry Standard (IS)	PC or Printer	Yes	62 x 62 mm

EXTT SERIES — EXPERT TORQUE TESTERS				
Model	in-lb	Nm	Rundown Adapter*	Rundown Adapter Service Kit
EXTT-1	0.88 – 8.8	0.1 – 1	ETT-RA-1	ETT-RA-1-KIT
EXTT-4	3.50 – 35	0.4 – 4	ETT-RA-4	ETT-RA-4-KIT
EXTT-12	10.6 – 106	1.2 – 12	ETT-RA-12	ETT-RA-12-KIT
EXTT-30	26.5 – 265	3.0 – 30	ETT-RA-30	ETT-RA-30-KIT

\* EXTT tester includes rundown adapter, carrying case, battery charger, manuals, and a certificate of calibration. EXTA analyzer includes carrying case, battery charger, manuals, and neck strap.

**Soft-touch keypad** makes menu navigation and test setup simple.

**Audible and visible indicators** give High, Low, and Pass cycle status.

**Quick download** of results to printer or PC for data analysis, graphing, and documentation or calibration of DC electric tools using ICS software.



**Dimensions**  
209 x 194 x 78 mm

**Weight**  
2.2 lb / 1.0 kg (EXTA)  
4.5 lb / 2.1 kg (EXTT)



Rotary transducers

Stationary transducer with joint simulator

## Accessories

Transducers					
Industry Standard	Smart Transducers		(in-lb) ft-lb	Nm	in
	Torque only	Torque and Angle			
<b>ROTARY</b>					
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
<b>STATIONARY</b>					
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
<b>Joint Simulators</b>					
Model	Includes Transducer	Joint Simulator Bolt Service Kit	ft-lb	Nm	in
<b>ROTARY</b>					
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
<b>STATIONARY</b>					
JKS30	No	JKS30-BKIT	0.75 - 15	1.0 - 20	1/4
JKS150	No	JKS150-BKIT	2.8 - 55	3.8 - 75	3/8
JKS300	No	JKS300-BKIT	6.7 - 133	9.0 - 180	1/2
JKS1000	No	JKS1000-BKIT	18.5 - 370	25.0 - 500	3/4
JKST30	TS30S4	JKS30-BKIT	1.1 - 15	1.5 - 20	1/4
JKST150	TS150S6	JKS150-BKIT	5.5 - 55	7.5 - 75	3/8
JKST300	TS300S8	JKS300-BKIT	11.0 - 133	15.0 - 180	1/2
JKST1000	TS1000S12	JKS1000-BKIT	37.0 - 37-	50.0 - 500	3/4

## Manuals

Series	User Manual	Quick Start Guide	Safety
EXT Series	45652906	45655859	45654696

To find manuals on the Web: [www.irtechpubs.com](http://www.irtechpubs.com).

## Literature

To order Ingersoll Rand literature please e-mail [irlitorders@kencooc.com](mailto:irlitorders@kencooc.com).



Assembly tools IRPS-1007-052    Audit wrench ASM-1106-128    DC tools IRITS-0109-008    QA4/6/8 tools IRPS-1007-053    Fixtured systems IRITS-1107-043    Pulse tools SW041107    Torque arms IRPS-0907-044    Cordless tools VSS-0806-060    Feed drill 52475-AT-C    Qi impacts IRITS-1008-118

[ingersollrandproducts.com/tools](http://ingersollrandproducts.com/tools)

# Ingersoll Rand fastening portfolio

Ingersoll Rand offers a full line of production fastening equipment, including air 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



### EXTT tester

- Compact bench-mount unit
- Integrated torque transducer in (4) ranges from 1 to 30 Nm
- Large LCD screen
- Full keypad and easy-to-navigate menus
- Full statistical capabilities
- Variable rate rundown adapter included
- Rechargeable battery with auto-shutdown feature

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



### EXTA analyzer

- Lightweight portable unit
- Compatible with full range of Industry Standard (IS) and Smart external transducers
- Large LCD screen
- Full keypad and easy-to-navigate menus
- Full statistical capabilities
- Rechargeable battery with auto-shutdown feature

*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
- Printer and PC cables
- Transducer cables
- PC download software
- Battery charger (100-240V)
- Torque wrenches
- Calibration service

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

Transducers		Joint Simulator Kits			Torque Wrench	Other Accessories	
Rotary	Stationary	Rotary	Stationary	Rundown Adaptor	Cordless		
						Cable - IS transducer Cable - PC Cable - printer Neck strap Port saver - 9 pin Port saver - 25 pin Battery charger	ETA2-TC ETA2-PC99 ETA2-P925 ETA2-STRAP EXT-PS9 ETA2-P525 EXT-BC



Ingersoll Rand Industrial Technologies provides products, services and solutions that enhance our customers' energy efficiency, productivity and operations. Our diverse and innovative products range from complete compressed air systems, tools and pumps to material and fluid handling systems and environmentally friendly microturbines. We also enhance productivity through solutions created by Club Car®, the global leader in golf and utility vehicles for businesses and individuals.

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