

ROARK TOOLS

RTB-I BATTERY IMPACT WRENCH SERIES

MODEL · RTB-I

Built for **torque.** Tuned for control.

Nine torque classes. One platform.
A cordless electronic-impact wrench
engineered for $\pm 7\%$ repeatable bolting
on safety-critical joints.

$\pm 7\%$

TORQUE ACCURACY

738

ft-lb MAX TORQUE

2,250

MAX RPM

3 h

RUNTIME

Precision torque. Zero reaction.

Cordless electronic-impact wrench for controlled, repeatable bolting on safety-critical joints.

The RTB-I delivers controlled torque output within $\pm 7\%$ for high-strength bolting in structural steel, automotive assembly, wind energy, rail, and heavy industry. Its electronic-impact drive isolates the operator from reaction force—eliminating the kickback associated with conventional impact wrenches—while a brushless DC motor and lithium battery deliver up to 3 hours of continuous runtime.

KEY ADVANTAGES

Reaction-Free Bolting

Impact-drive mechanism delivers torque in controlled increments. The operator never absorbs sudden reaction—reducing fatigue and eliminating the need for reaction arms.

Brushless, Maintenance-Free

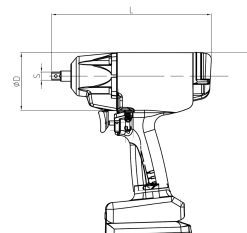
Sensor-driven brushless DC motor runs cool under sustained load. No carbon brushes, no overheating shutdowns, and a markedly longer service life.

$\pm 7\%$ Torque Accuracy

Closed-loop electronic control holds set torque within $\pm 7\%$ across the rated range, delivering repeatable, audit-ready fastening on critical joints.

Data-Logged Results

Optional Bluetooth / Wi-Fi module streams torque, angle, and pass/fail data per fastener—ready for QA traceability and production records.



AT A GLANCE

$\pm 7\%$

TORQUE ACCURACY

4–738

ft-lb TORQUE RANGE

2,250

MAX SPEED (RPM)

3 h

RUNTIME PER CHARGE

TYPICAL APPLICATIONS

- **Structural Steel**
High-strength friction-grip (HSFG) connections, baseplates, and splices.
- **Automotive & EV**
Suspension, driveline, chassis, and EV battery-pack fastening on the line.
- **Heavy Equipment**
Earthmoving, mining, and agricultural machine assembly and field service.
- **Wind Energy**
Tower flange bolting, blade-root fasteners, and nacelle assembly.
- **Rail & Transit**
Track-side maintenance, rolling-stock assembly, and signaling hardware.
- **MRO & Field Service**
Pipeline flanges, valve assemblies, and any high-torque service work.

HOW IT WORKS

Unlike a continuous-drive nutrunner, the RTB-I uses an internal impact mechanism driven by a brushless motor. Each impact delivers a short, high-energy torque pulse to the output anvil. Because the reaction is absorbed inside the tool housing, the operator feels almost no kickback—even at 738 ft·lb. An onboard controller counts impacts, measures rotation angle, and shuts the motor down the instant the target torque is reached. The result is fast, repeatable, ergonomic bolting without the air lines, reaction arms, or operator strain of conventional impact or click-style tools.

MODEL LINEUP

Nine torque-class variants share the same body platform and control system.

Model	Torque (ft·lb)	Drive Size	Length (mm)	Height (mm)	Outer Dia. (mm)	Weight (kg)	Max Speed (rpm)
RTB-I-0025	4–18	1/4"	150	103	39	1.1	370
RTB-I-0060	11–44	3/8"	160	112	46	1.4	610
RTB-I-0100	18–74	3/8"	165	113	57	1.9	1,250
RTB-I-0140	26–103	1/2"	225	290	77	2.8	1,500
RTB-I-0225	41–166	1/2"	225	290	77	3.2	1,600
RTB-I-0300	55–221	1/2"	230	290	78	3.2	1,650
RTB-I-0500	92–369	3/4"	235	290	80	3.3	1,870
RTB-I-0800	148–590	3/4"	240	295	80	3.3	1,980
RTB-I-1000	184–738	1"	245	300	90	3.6	2,250

Torque tolerance $\pm 7\%$ across the rated range. Higher torque classes available on request.

TOOL ANATOMY

Engineered for daily production use. Every component chosen for service life and operator comfort.



BUILD HIGHLIGHTS

- 1 Brushless DC Motor**
Sensor-controlled, runs cool under load; delivers consistent torque across the discharge curve.
- 2 Reaction-Free Impact Drive**
Internal impact mechanism converts motor rotation into controlled torque pulses.
- 3 Color LCD Display**
Backlit, impact-resistant screen shows live torque, angle, fastener count, and pass/fail.
- 4 Forward / Reverse Switch**
Single-handed toggle for tightening or removal without repositioning the tool.
- 5 Variable-Speed Trigger**
Progressive trigger enables soft-start engagement and precise final-pass control.
- 6 Twin LED Work Lights**
Forward-facing LEDs illuminate the joint at the moment of socket engagement.
- 7 Ergonomic Glass-Filled Handle**
Low-vibration grip; balanced center of mass reduces wrist load over long shifts.
- 8 Hot-Swap Lithium Battery**
Slide-on Li-ion pack delivers up to 3 hours of continuous bolting; swaps in seconds.

READY TO SPECIFY

Request a demo, datasheet, or torque-class quote at info@RoarkTools.com

