



ADVANCED
BOLTING
TECHNOLOGY



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WIND

RAD TORQUE + THE WIND ENERGY INDUSTRY

HIGH TORQUE AT HIGH HEIGHTS

If you work in the wind energy industry, you know that building and maintaining wind turbines requires a lot of bolting at high heights.

Companies like General Electric, Vestas, Siemens, Goldwin and Iberdrola use RAD Torque Systems' tools to build and maintain wind power facilities around the world.

That's because they know our torque wrenches can meet the unique needs of the wind energy industry.

Here's how

Have you ever had to flange tower components from inside a tower? How about a tower with a unique curvature? If so, you know that using a straight tool for bolting isn't always possible.

A torque wrench like the E-RAD, combined with our offset gearbox and smart socket, allows you to install tower bolts easily, efficiently and with the right amount of torque.

Unique tools for a unique workplace

At RAD, we understand that you need the right tools at your fingertips while working several hundred feet above the ground.

For this reason, we've designed our wrenches to be much lighter than their hydraulic counterparts. But they can still meet your needs for high torque bolting – especially the 2,000 foot-pounds sometimes needed for tower bolts.

We've worked with the wind energy industry for almost two decades. Whether you work for a wind turbine manufacturer, in wind power construction and maintenance, or at another wind power utility, RAD has a tool for you.

Our E-RAD, B-RAD, offset gearbox and smart sockets can be used to install and maintain tower bolts, blade bolts, shrink discs, gearboxes, generators, hub bolts, and yaw bolts.

When it comes to bolting, there is no lighter or more accurate choice than RAD.



RAD SMART SOCKETS™



Measures and displays instant torque read-out on your live application

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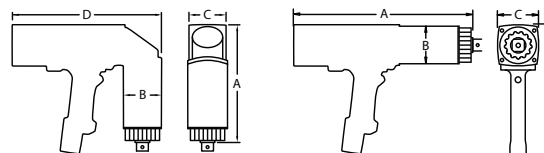


E-RAD BLU THE SYSTEM OF CHOICE FOR WIND



Provides a high degree of accuracy. Using a patented gearbox design and the precision of an electric AC Servo motor, these tools deliver smooth, continuous torque. Best of all, it's the most affordable system on the market.

- **Efficiency:** Provides continuous torque for fast operation, which decreases a torque job and saves you money.
- **Ergonomics:** Much lighter than hydraulic pumps – and that means it's lighter to carry and easier to torque.
- **Accuracy & Durability:** Torque can be entered digitally with a +/- 2.8% accuracy, unlike hydraulics, which leaves room for error.
- **Data Collection:** Easily collect data and create reports to ensure proper documentation.
- **Quieter:** 75db compared to loud hydraulics
- **Calibration:** Ability to calibrate right on the joint application.



| PART NUMBER | TOOL MODEL | DRIVE SIZE | TORQUE (Nm) LOW | TORQUE (Nm) HIGH | RPM | WEIGHT (Kg) | DIMENSION A (mm) | DIMENSION B (mm) | DIMENSION C (mm) | DIMENSION D (mm) |
|-------------|----------------------------|------------|-----------------|------------------|-----|-------------|------------------|------------------|------------------|------------------|
| 21985 | E-RAD BLU 950 | 0.75" | 135 | 950 | 15 | 5.4 | 340 | 65 | 78 | 275 |
| 24162 | E-RAD BLU 2000 | 1.0" | 270 | 2000 | 8 | 5.9 | 337 | 69 | 78 | 275 |
| 21986 | E-RAD BLU 3400 COMP | 1.0" | 340 | 3400 | 4.9 | 8.1 | 380 | 76 | 78 | 275 |
| 22434 | E-RAD BLU 3400 – 90 Degree | 1.0" | 340 | 3400 | 6 | 8.3 | 210 | 76 | 78 | 275 |
| 21987 | E-RAD BLU 4000 | 1.0" | 675 | 4000 | 4.1 | 10.6 | 430 | 83 | 88 | 290 |
| 21988 | E-RAD BLU 8000 | 1.5" | 2000 | 8000 | 2.1 | 13 | 419 | 100 | 100 | 295 |
| 21989 | E-RAD BLU 10K | 1.5" | 2000 | 10000 | 1.5 | 15 | 432 | 105 | 105 | 298 |
| 24224 | *E-RAD BLU 15K | 1.5" | 4000 | 15000 | 1.2 | 20 | 465 | 127 | 127 | 305 |

*Also available in a 2.5" square drive. | Accuracy of +/- 2.8%. Repeatability of +/- 2%

B-RAD SELECT

Digital torque settings with ranges up to 7,000 Nm!



- Now with digital torque settings, able to increase or decrease the value by 10 Nm.
- Equipped with the latest lithium-ion technology
- Suitable for pre-torque and service jobs where electricity or compressed air are not available

Accuracy of +/- 5%, Repeatability of +/- 2%

V-RAD SELECT

Torque ranges up to 5,000 Nm.



- Digital display with colour screen
- Single increment digital torque settings
- "Pass/Fail" function

Accuracy of +/-5%, Repeatability of +/-2%

ABOUT RAD TORQUE SYSTEMS

More than 25 years of gearbox design and engineering.

As a leading Canadian manufacturer of pneumatic, battery powered and electronic pistol grip torque wrenches, our proprietary precision tools are successfully used in the oil and gas, wind energy, petrochemical, mining, aerospace and manufacturing industries around the world.

Over a decade ago, we pioneered and patented the first programmable digital torque technology enabling effortless data collection and highly precise Bluetooth calibration.

We continue to innovate and achieve the highest level of quality and performance. Our operations are designed for maximum flexibility and responsiveness, ensuring every customer receives outstanding service.

RAD Torque Systems is owned and operated by New World Technologies Inc., a company that continues to invest in and employ the latest technology to achieve the highest level of innovation, quality, and performance – which has resulted in multiple patents.



NEW WORLD TECHNOLOGIES INC

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