

ABOUT RAD TORQUE SYSTEMS

More than 20 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.



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ADVANCED
BOLTING
TECHNOLOGY



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AEROSPACE



RAD TORQUE + THE AEROSPACE INDUSTRY

HOLDING EVERYTHING TOGETHER AT 35,000FT

Having worked with aerospace companies for more than two decades, we understand that engineers and mechanics like you – who build and repair commercial airplanes – need the right tools to get jobs done safely and efficiently.

We work with you to design and manufacture custom high-torque wrenches, offsets, multipliers and reaction arms to solve problems and complete tasks that are unique to your industry.

Peace of mind

RAD Torque Systems’ multipliers can provide your mechanics with accurate data so they can rest assured that components are correctly installed to withstand extreme forces placed on them in flight. You rely on heavy-duty torque tools to hold an airplane’s hundreds of thousands of components together. You don’t need to worry about whether each bolt is fastened using the right torque. Let RAD take the worry out of your work.

No part out of reach

We understand that you have unique needs when it comes to building, repairing and manufacturing commercial airplanes. Many of our offsets are custom-made, so no part on an airplane is out of reach. We create models using 3D printers, so your engineers can make sure they work before we even build them!

Safety in numbers

Safety is top-of-mind in your industry. Our multipliers change settings for specific foot-pounds to quickly and accurately torque fasteners. This means your mechanics don’t have to apply manual force when installing nuts and bolts and can avoid shoulder injuries. RAD also provides aircraft manufacturers with custom reaction arms, so mechanics can do high foot-pounds without getting any kickback into their hands.

RAD reduces costs

Building and maintaining airplanes is a big business with an even bigger price tag. That’s why RAD makes tools in multiple ratios. Our multipliers allow your mechanics to achieve the correct amount of torque with several different tools. All they have to do is switch the multiplier to the next tool and calibrate it.



E-RAD BLU



With E-RAD BLU Touch Control case!

- Designed to provide a high degree of accuracy (+/- 2.8%) and repeatability (+/- 2%)
- Patented gearbox design and electric AC Servo motor
- Delivers smooth continuous torque
- The most affordable system on the market

PART NUMBER	TOOL MODEL	DRIVE SIZE	TORQUE (FT.)		RPM
			LOW	HIGH	
21980	E-RAD BLU 700	0.75"	100	700	20
24161	E-RAD BLU 1500	1.0"	200	1500	8
21981	E-RAD BLU 2500 COMP	1.0"	250	2500	5.5
24221	E-RAD BLU 2500 COMP - 90 Degree	1.0"	250	2500	6
21982	E-RAD BLU 3000	1.0"	500	3000	5.5
21983	E-RAD BLU 6000	1.5"	1500	6000	4
21984	E-RAD BLU 7500	1.5"	1500	7500	1.5
24234	*E-RAD BLU 11K	1.5"	3000	11000	1.3

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

RAD SDM MULTIPLIERS



For applications where tool access to the bolt is limited!

- Planetary gear reduction technology
- Low Profile gearbox
- Designed for confined applications in multiple industries
- The RAD SDM Multipliers are to be combined with a nut runner.

PART NUMBER	GEARBOX	RATIO	INPUT	OUTPUT	TORQUE (FT)
10676	SDM MULTIPLIER 400	82:1	1/4"	3/4"	400
10510	SDM MULTIPLIER 400	144:1	1/4"	3/4"	400
12914	SDM MULTIPLIER 10	128:1	3/8"	3/4"	1000
13194	SDM MULTIPLIER 10	101:1	3/8"	3/4"	1000

B-RAD SELECT



NEW! Now with digital torque settings.

- Now with digital torque settings, able to increase or decrease the value by 10 ft. lbs.
- Torque ranges up to 3,000 ft. lbs.
- Equipped with the latest lithium-ion technology
- Suitable for pre-torque and service jobs where electricity or compressed air are not available

PART NUMBER	TOOL MODEL	DRIVE SIZE	TORQUE (FT.)		RPM
			LOW	HIGH	
24501	B-RAD SELECT 500	0.75"	125	500	13
24502	B-RAD SELECT 500-2	0.75"	150	500	58
24503	B-RAD SELECT 1000	0.75"	200	1000	6
24504	B-RAD SELECT 1000-2	0.75"	200	1000	20
24505	B-RAD SELECT 1500	1.0"	300	1500	9.2
24506	B-RAD SELECT 1500-2	1.0"	300	1500	18
24281	B-RAD SELECT 3000	1.0"	600	3000	2
24928	B-RAD SELECT 3000-2	1.0"	600	3000	13

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

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