



RAID[®]

TORQUE SYSTEMS - INNOVATION DRIVEN PERFORMANCE



LEADING MANUFACTURER OF ADVANCED TORQUE SYSTEMS



LIGHTER - FASTER - STRONGER

A major wind turbine manufacturer saved 33% on total offshore tower installation time due to the high speed of the E-RAD BLU electronic torque wrench.



E-RAD BLU

This advanced electronic pistol grip torque wrench combines the legendary RAD gearbox design and AC Servo motor technology to reduce bolting time with at least 300% as compared to conventional hydraulic wrenches.

E-RAD BLU: Built and designed for heavy duty industrial usage.

CHECK THE FACTS?

Call us on [+31 \(0\)35 58 82 450](tel:+3120355882450) or visit our website:



WWW.RADTORQUE.NL



LIGHTER - FASTER - STRONGER

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Non Impacting



Safe & Reliable



According to European standards



EX approved



LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025

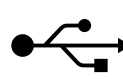
Accredited ISO/IEC 17025



Lithium Ion battery



Bluetooth data exchange



USB connection



Software managed

Company profile

Over 20 years experience

New World Technologies Inc. is a leading Canadian manufacturer of pneumatic, battery powered, and electronic pistol grip torque wrenches which are marketed under the RAD trademark. RAD products have proven to be successful all over the world in industries such as oil & gas, petrochemical, mining, aerospace, power generation, and manufacturing. New World Technologies Inc. continues to invest and employ the latest technology to achieve the highest level of innovation, quality, and performance – which has resulted in multiple patents. New World's extensive in-house machining facilities ensure maximum flexibility and responsiveness enabling quick deliveries and customer satisfaction.



How RAD is made video



New Word Technologies is an ISO/IEC 17025 certified calibration Laboratory ensuring maximum quality control and full calibration traceability.



RAD Torque Systems B.V.

RAD Torque Systems B.V. is located in Soest, The Netherlands, and is a fully owned daughter company of New World Technologies Inc. As exclusive master distributor, RAD Torque Systems B.V. distributes RAD products to customers in Europe, Middle-East and North Africa. Besides next day deliveries of tools and spare parts, RAD B.V. also provides quick repair, calibration and warranty services. RAD's fully trained staff has the latest technology at their disposal for servicing every RAD tool.



Service, repair & warranty



RAD Products

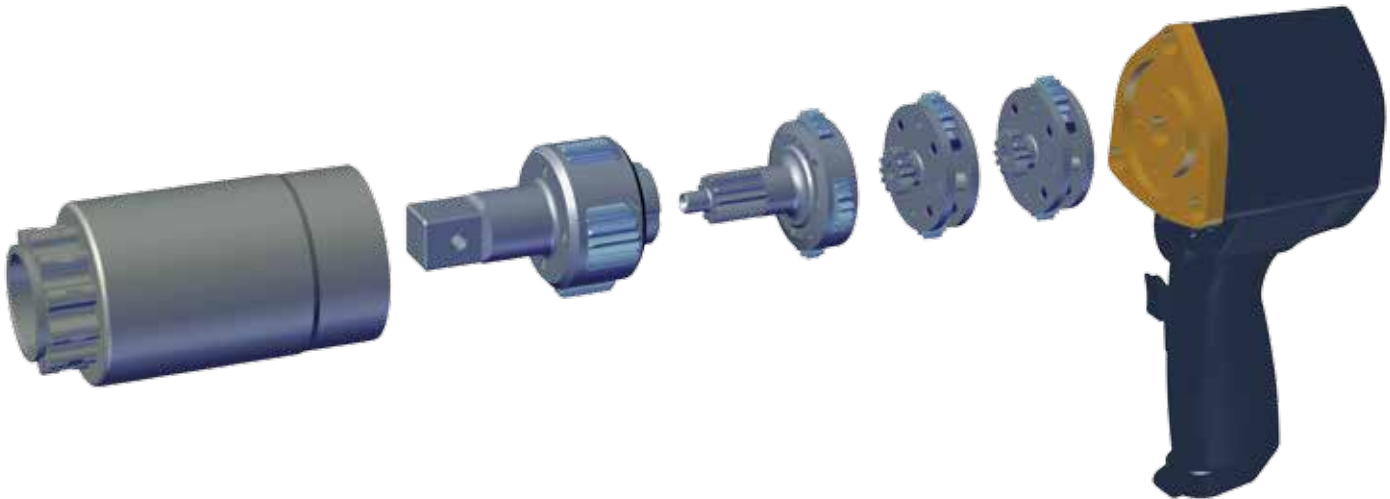
RAD pistol grip torque wrenches offer a fast and reliable solution for the installation and removal of heavy-duty fasteners in a variety of industries that require high accuracy, power and safety. RAD's patented planetary gear reduction drive system delivers one of the highest power-to-weight ratios of any controlled bolting system and has 88 times less vibration than impact wrenches. No risk of HAVS injuries and the exclusive low profile reaction arm takes virtually all the operational load off the operator.



◆ **For bolting safety, RAD torque wrenches set the standard!**

Our focus - Planetary gear reduction technology

All RAD torque wrenches have one thing in common: they all use the patented planetary gear technology which was designed over 20 years ago and has been fine-tuned ever since. With this focus and experience we have managed to built gear reduction torque wrenches that are the most lightweight, compact and reliable available on today's industrial market.

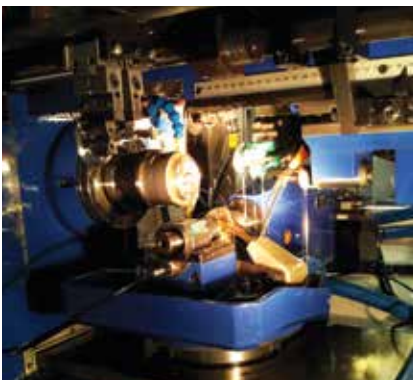


Innovation, our continuous drive

RAD's ongoing investment in Research and Development ensures that RAD will continue to lead the bolting industry with innovations such as the E-RAD, Digital battery torque wrenches and, the Smartducers. RAD believes that innovation drives performance.

What are the advantages?

Planetary gear driven wrenches, as opposed to conventional torque tools have the advantage of continuous rotation while applying controlled torque. This makes them much faster than conventional hydraulic wrenches and with their pistol grip they are safer and more ergonomic. RAD's motor is built right in the handle, so no longer the hassle of bringing a heavy and expensive hydraulic pump to the jobsite.



RAD DX series

Over twenty years of experience in gearbox engineering and design has brought about RAD's latest generation in planetary gearboxes – RAD DX series. Designed for extreme duty use in a variety of industries worldwide, RAD DX series torque wrenches offer:

- The best power-to-weight ratio
- Wide torque range to suit multiple applications
- Unmatched reliability delivered by one of the most advanced engineered gear boxes on the market
- Very compact design resulting in lower weight and better accessibility
- Controlled bolting - accuracy of +/- 4% and repeatability of +/- 2%



DX video

Extreme duty torque wrenches for heavy duty applications!



All RAD Pneumatic tools include:

- Reaction arm and retaining ring
- 3.6 meter hose
- Lightweight FRL unit in a new regulator cage
- Lubricating oil for the FRL unit
- Operators manual
- Calibration certificate
- Safety instruction cd-rom

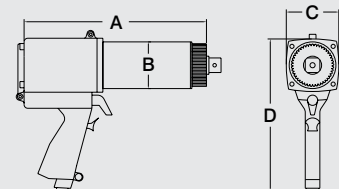


FRL Unit:

- Low weight (2kg) toolholder, from High Density Polypropylene
- Includes pressure gauge, filter, regulator and oiler



At a surcharge, the RAD pneumatic series torque wrenches (excluding TV RAD) can be delivered according to EX specification. See RAD's website for more information.



Toolkit Number	Tool Model	Drive size Inches	Torque (Nm)		Speed RPM	Weight Kg	Noise level dB	Dimensions (mm)			
			Min	Max				A	B	C	D
13573	475 SL	3/4"	70	475	65	2,7	80	167	60	69	222
13539	10 GX	3/4"	150	950	30	3,6	80	228	63	69	228
13549	14 GX	3/4"	275	1.350	20	3,6	80	228	63	69	228
19135	20 DX	1"	400	2.000	10	3,9	80	203	69	70	205
13565	34 GX	1"	700	3.400	9	6,1	85	246	77	83	241
24717	40 DX	1"	1.200	4.000	8	6,6	85	230	86	83	264
13571	46 GX	1"	1.400	4.600	12	9,0	85	325	86	93	264
13577	6800	1 1/2"	2.000	6.800	8	12,7	85	353	101	93	264
15805	80 DX	1 1/2"	2.700	8.000	7	12,5	85	348	101	101	277
23229	110 DX	1 1/2"	3.400	10.800	4	13,8	85	431	114	114	279

Accuracy +/- 4%, repeatability +/- 2%

RAD high speed series


RAD high speed series torque wrenches incorporate a precision engineered high speed gearbox designed for faster run down and quick reaction point positioning on time sensitive bolting applications.

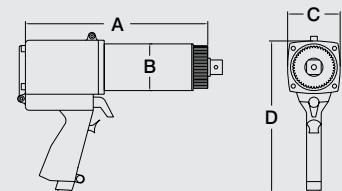
- The two-speed models feature a unique full automatic gearbox design, eliminating the time consuming switch between high and low speed gear.
- Smooth continuous flow of controlled torque eliminating destructive hammering.
- RAD high-speed series reduce operator strain and injury, resulting in increased productivity.
- Controlled torque – accuracy of +/- 4% and repeatability of +/- 2%



High speed video



 At a surcharge, the RAD pneumatic series torque wrenches (excluding TV RAD) can be delivered according to EX specification. See RAD's website for more information.



Toolkit Number	Tool Model	Drive size Inches	Torque (Nm)		Speed RPM	Weight Kg	Noise level dB	Dimensions (mm)			
			Min	Max				A	B	C	D
15616	100 SL	3/4" or 1/2"	35	100	275	2,8	80	161	60	69	222
15134	275 SL	3/4"	50	275	90	3,0	80	167	60	69	222
13575	475 SL-2	3/4"	150	475	300	3,7	80	228	60	69	222
19774	14 GX-2	3/4"	450	1.350	85	4,5	80	262	63	69	205
19775	20 DX-2	1"	700	2.000	50	4,8	80	250	69	69	205
19776	34 GX-2	1"	950	3.400	44	7,6	80	305	77	83	241

Accuracy +/- 4%, repeatability +/- 2%

TV-RAD series - built-in transducer verification

The TV-RAD series solves an ongoing problem in the bolting industry: Incorrect air supply and wrong tool operation can cause differences in torque output of your tools. With RAD's TV wrench, the operator gets a clear visual indication whether the actual torque is deviating from the set target torque, therefore reducing errors in the bolting process. At the same time very high torque accuracy can be achieved when using the real time Bluetooth torque graphing mode.



TV-RAD video

◆ RAD's Pneumatic torque wrench with built-in transducer for precise torque verification

TV-RAD is available in four models:

- 10 GX-RTV
- 14 GX TV
- 20 DX TV
- 46 GX TV

Besides on-site joint calibration, this pneumatic torque wrench has several useful functions such as:

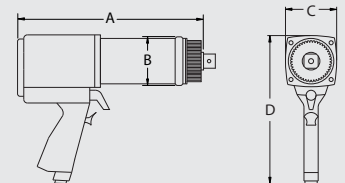
- Easy data logging and collection
- Instant torque readout
- Real time graphs
- 'Pass' or 'Fail' indicator light
- Smartphone / tablet App
- Bluetooth connectivity



RAD TV indicators
Blue = Bluetooth connection
Green = Pass
Red = Fail

◆ Connectivity

The TV-RAD can be connected to an Android device by using the RAD Connect App. Additionally, RAS-software can be used to connect the torque wrench to a PC.



Toolkit Number	Tool Model	Drive size Inches	Torque (Nm)		Speed RPM	Weight Kg	Noise level dB	Dimensions (mm)			
			Min	Max				A	B	C	D
22017	10 GX-RTV	3/4"	400	950	30	4,6	80	290	72	72	227
22079	14 GX TV	3/4"	275	1.350	20	4,1	80	243	72	72	227
22887	20 DX TV	1"	400	2.000	10	4,2	80	234	69	70	205
22018	46 GX TV	1"	1.400	4.600	12	10,5	80	339	92	94	263

Repeatability +/- 2%, accuracy transducer +/- 1%

RAD wheel nut bolting series

The RAD wheel nut bolting series were designed with one job in mind: wheel nut bolting where torque control is a must. Accidents caused by incorrect tightened wheel nuts are considered a serious problem in the industry. Especially impact wrenches are notorious for these problems, while at the same time they increase the risk of HAVS related injuries.

RAD planetary gear torque wrenches are vibration free and have the accuracy to prevent accidentally under - and over tightening. The fixed nose extensions are ideal for reaching wheel nut studs that are recessed and where tool clearance is a problem.

- Removable custom reaction arms designed to fit virtually on any wheel configuration
- Extended reaction point for safe and quick operation
- High accuracy to ensure correct tightened wheels



The fixed nose extension (-R)

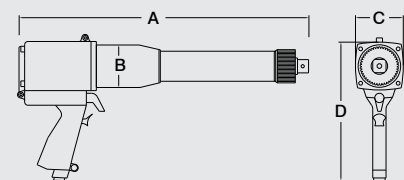
was developed exclusively for extreme duty maintenance of mining haul trucks from 50-400 ton capacities and front end loaders. The extended nose allows safe access of virtually all wheel configurations found on today's heavy equipment.

The nose extension kit (-NX)

was designed with flexibility in mind. Complete with 3 different reaction arms and a nose extension for hard-to-reach areas, the GX-NX Kit is a go anywhere tool capable of a variety of applications but especially suitable for off-road construction equipment.



At a surcharge, the RAD pneumatic series torque wrenches (excluding TV RAD) can be delivered according to EX specification. See RAD's website for more information.



Toolkit Number	Tool	Drive size Inches	Torque (Nm)		Speed RPM	Weight Kg	Noise level dB	Dimensions (mm)			
			Min	Max				A	B	C	D
13541	10 GX-R	¾"	400	950	115	5,4	80	368	63	69	228
20809	20 NDX-R	1"	400	2.000	10	7,3	80	542	69	70	204
13563	2400 NGX-R	1"	700	2.450	10	12,4	85	546	76	83	241
Toolkit Number	Kit model	Drive size Inches	Min	Mix	Speed RPM	Weight Kg	Noise level dB	A	B	C	D
14550	14 GX-NX	¾"	275	1.350	20	3,6	80	228	63	69	228
19340	20 DX-NX	1"	400	2.000	10	3,9	80	203	69	70	204

Accuracy +/- 4%, repeatability +/- 2%

B-RAD SELECT series

B-RAD SELECT series torque wrenches offer high power, adjustability, and reliability.



B-RAD SELECT video

- ◆ **Torque setting adjustable per 10 Nm**

- ◆ **Up to 4.000 Nm**

With our latest gearbox design, RAD made the B-RAD select even more powerful and lighter.

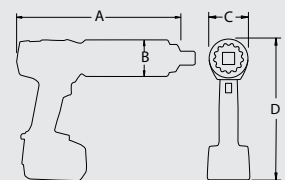
Cordless torque

The B-RAD SELECT is especially suitable for installation and service jobs where electricity or compressed air are not available. Besides this, the B-RAD SELECT is also an ideal tool for valve actuation, load strapping and driving spindles. The number of cycles per battery is depending on stud length, lubrication and temperature.

- Available in single and automatic 2-speed gearbox
- Latest Lithium-ion 18V/5.2Amp battery technology

All B-RAD tools include:

- Reaction arm and retaining ring
- Two 18V / 5.2 Amp Lithium-ion batteries with charger
- Calibration certificate
- Weatherproof storage case
- Operators manual
- Torque setting adjustable per 10 Nm
- Safety instruction cd-rom



High Speed →

Toolkit Number	Tool Model	Drive size Inches	Torque (Nm)		Speed RPM	Weight Kg	Noise level dB	Dimensions (mm)			
			Min	Max				A	B	C	D
25091	B-RAD SELECT 275	3/4"	70	275	40	3,2	80	238	63	68	264
24507	B-RAD SELECT 700	3/4"	175	700	13	3,4	80	235	63	68	264
24508	B-RAD SELECT 700-2	3/4"	200	700	37	4,5	80	287	63	68	255
24591	B-RAD SELECT 950-2	1"	550	950	57	5,1	80	304	69	68	225
24509	B-RAD SELECT 1400	3/4"	280	1.400	6	4,0	80	254	69	69	264
24510	B-RAD SELECT 1400-2	3/4"	280	1.400	18	4,9	80	304	63	68	255
24511	B-RAD SELECT 2000	1"	400	2.000	4	4,0	80	248	69	69	267
24512	B-RAD SELECT 2000-2	1"	400	2.000	16	5,1	80	304	69	68	225
24525	B-RAD SELECT 4000	1"	815	4.000	2	6,0	80	208	81	81	265
24929	B-RAD SELECT 4000-2	1"	815	4.000	13	7,3	80	377	81	81	260

Accuracy +/- 5%, repeatability +/- 2%

Digital B-RAD series

Digital B-RAD series torque wrenches are the world's first digital, cordless and lithium-ion battery tool on the market. With advanced technology containing digital display and single increment torque settings.



DB-RAD video



Digital cordless torque!

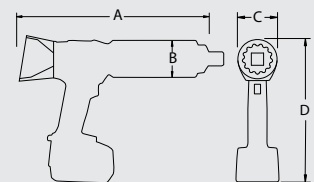
- Automatic 2-speed gearbox
- Latest Lithium-ion 18V/5.2 Amp battery technology
- More ergonomic OLED-Display
- Programmable preset torque settings
- Multi level password protection
- High accuracy (+/- 5%) guaranteed through battery monitoring system
- Ideal for applications where compressed air or electricity are not available
- Light weight tool offering accurate torque for low bolt count applications

All digital B-RAD tools include:

- Reaction arm and retaining ring
- Calibration certificate
- Two 18V batteries with charger
- Weatherproof storage case
- Operators manual
- Safety instruction cd-rom



Optional:
Screen protector
to prevent possible
damage to the
screen



Toolkit Number	Tool Model	Drive size Inches	Torque (Nm)		Speed RPM	Weight Kg	Noise level dB	Dimensions (mm)			
			Min	Max				A	B	C	D
22876	DB-RAD 700-2	3/4"	135	700	39	5,0	80	324	63,5	76	279
22878	DB-RAD 1400-2	3/4"	350	1.400	18	5,2	80	330	63,5	76	279
22880	DB-RAD 2000-2	1"	675	2.000	12	5,3	80	349	56	76	279

Accuracy +/- 5%, repeatability +/- 2%

V-RAD electric series

V-RAD electric series are RAD's standard electric torque wrenches used for the installation or removal of heavy duty fasteners where accuracy, power, and safety are required. The V-RAD series tools are an economical solution for many service and construction jobs.



V-RAD video

◆ **Quick adjust torque settings**

Fast and accurate "dial a torque" for maximum versatility and efficiency – 18 fixed torque settings.

◆ **Equal power in forward and reverse**

Convenience and cost effective use of same tool for break away and final torque.



◆ **Advanced ultra-durable electric motor design**

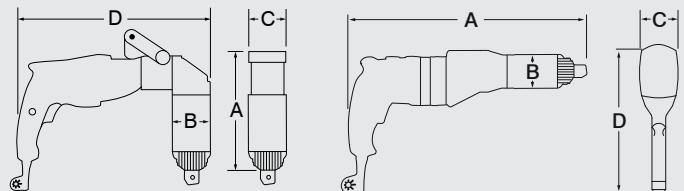
Extreme duty design to reduce maintenance cost and increase reliability.

All V-RAD tools include:

- Reaction arm and retaining ring
- Calibration certificate
- Operators manual
- Weatherproof storage case
- Safety instruction cd-rom



V-RAD-31-90°-Version



Toolkit Number	Tool Model	Drive size Inches	Torque (Nm)		Speed RPM	Weight Kg	Noise level dB	Dimensions (mm)			
			Min	Max				A	B	C	D
13589	V-RAD 6	3/4"	150	550	29	4,5	80	431	63	76	215
13583	V-RAD 14	3/4"	400	1.350	8	4,9	80	457	63	76	215
21948	V-RAD 14-90°	3/4"	400	1.350	8	5,1	80	220	63	76	392
13585	V-RAD 21	1"	700	2.150	6	6,5	80	482	76	76	215
13587	V-RAD 31	1"	1.100	3.100	4	7,1	80	465	76	76	215
21947	V-RAD 31-90°	1"	1.100	3.100	4	7,3	80	220	76	76	400

Accuracy +/- 5%, repeatability +/- 2%

MV-RAD electric series



MV-RAD video

◆ Torque range: 65 – 8.000 Nm

The MV-RAD will quickly tighten or loosen bolts with accuracy and reliability. The torque can be set by a membrane key control stageless or with 200 setting options. Torque and more parameters can be programmed individually on custom demands. Due to reliable control electronics, the tool has a torque accuracy of +/- 3,5%.

◆ The MV RAD features a special Bolt Check function

This program allows the operator to check if an already tightened bolt is still within torque specification. The MV RAD is able to verify the existing torque and will not add any extra torque while doing this. If the bolt requires further tightening, it will do so automatically and report the degrees of turn needed. This feature works very well in combination with the Smart socket™.

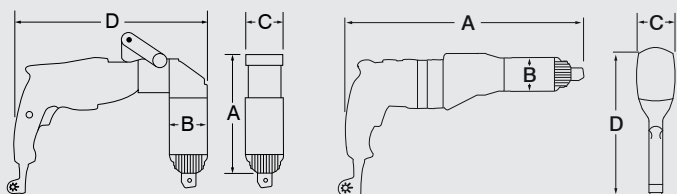


The 230V or 115V power operation allows the MV-RAD to be used in a variety of places with only 80 dB noise level. Each pistol torque wrench comes fully calibrated in a storage case and includes reaction arm, calibration certificate and operating manual.

- High performance bolting tool with torque shut-off system
- Stageless or 200 torque setting options
- Password protected
- Pistol grip with membrane key and OLED-Display
- 360° rotatable handle
- 8 Programmable presets
- Programming on custom demands
- Bolt check function (optional)

All MV-RAD tools include:

- Reaction arm and retaining ring
- Operators manual
- Weatherproof storage case
- Safety instruction cd-rom



Toolkit Number	Tool Model	Drive size Inches	Torque (Nm)		Speed RPM	Weight Kg	Noise level dB	Dimensions (mm)			
			Min	Max				A	B	C	D
200278	MV-RAD 6	3/4"	65	650	38	3,9	80	395	63	73	210
200279	MV-RAD 14	3/4"	140	1.400	9	4,9	80	438	63	73	210
200289	MV-RAD 14-90°	3/4"	140	1.400	13	5,3	80	176	63	73	395
200280	MV-RAD 21	1"	215	2.150	5	6,7	80	445	76	73	210
200281	MV-RAD 34	1"	340	3.400	5	7,0	80	457	76	73	210
200282	MV-RAD 34-90°	1"	340	3.400	5	7,5	80	160	80	73	395
200283	MV-RAD 45	1"	450	4.500	6	8,8	80	495	86	73	210
200284	MV-RAD 45	1 1/2"	450	4.500	6	8,8	80	495	86	73	210
200285	MV-RAD 60	1 1/2"	600	6.000	5	12,7	80	535	101	73	210
200286	MV-RAD 80	1 1/2"	800	8.000	4	11,7	80	500	102	73	210

Accuracy +/- 3,5%, repeatability +/- 2%

E-RAD BLU - setting bolting standards higher

E-RAD BLU series precision torque wrenches are designed to provide a high degree of accuracy (+/- 3%) and repeatability (+/- 2%) for high torque applications.

This advanced electronic pistol grip torque wrench combines the legendary RAD gearbox design and AC Servo motor technology to reduce bolting time with at least 300% as compared to conventional hydraulic wrenches. Built and designed for heavy-duty industrial usage.



E-RAD BLU video

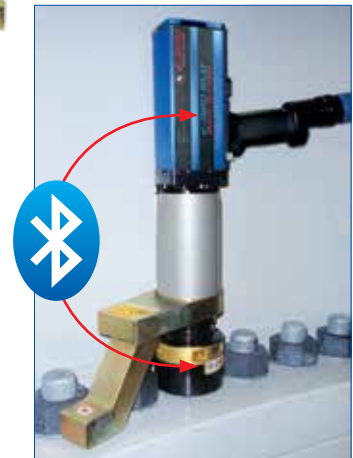
◆ **Reducing cost - Multiple wrenches can be used with one control box!**



E-RAD BLU tool kits include:

- E-RAD BLU wrench
- Control box cable
- Control box with USB port
- Operator's manual
- Reaction arm and retaining ring
- Digital torque controller case
- Calibration certificate
- Data logging software
- Safety instruction cd-rom

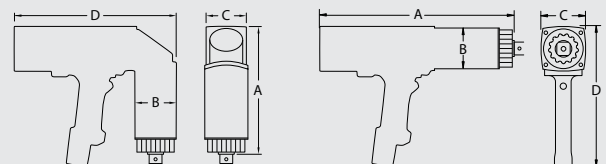
E-RAD BLU 8000 with RAD Smart Socket™



E-RAD BLU Tool features:

- Highly advanced Data Logging and Tool Management features
- Military-grade single cable and connector system
- Operator identification – Ensures traceability of each torque sequence performed
- Capable of torque and angle bolting sequence
- LED indicator lights (Pass/Fail) located on both sides for maximum accuracy
- Extremely low noise level – only 75 dB
- Bluetooth connectivity with RAD Smart Socket for transducer verified joint calibration
- Also available with built-in transducer (E-RAD S)

◆ **Select toolkit and if needed additional wrenches:**



Toolkit	Wrench only	Tool	Drive size	Torque (Nm)		Speed	Weight	Dimensions wrench (mm)			
Number	Number	Model	Inches	Min	Max	RPM	Kg	A	B	C	D
21985	22056	E-RAD BLU 950	3/4"	135	950	30	5,4	340	65	78	245
24162	23330	E-RAD BLU 2000	1"	270	2.000	9	5,9	337	69	76	288
21986	22057	E-RAD BLU 3400	1"	340	3.400	10	8,1	380	70	78	245
22434	23113	E-RAD BLU 3400-90°	1"	340	3.400	11	8,3	210	76	78	245
21987	22058	E-RAD BLU 4000	1"	675	4.050	8	10,6	430	83	88	260
21988	22059	E-RAD BLU 8000	1 1/2"	1.385	8.100	4	13,0	430	100	100	260
21989	22060	E-RAD BLU 10K	1 1/2"	2.034	10.000	2	15,0	430	105	105	265
24224	n/a	E-RAD BLU 15K	1 1/2"	4.050	15.000	2	20,1	466	127	127	273

Accuracy +/- 3%, repeatability +/- 2%

One control box for the complete torque range

Automatic wrench recognition ensures mistake-free operation

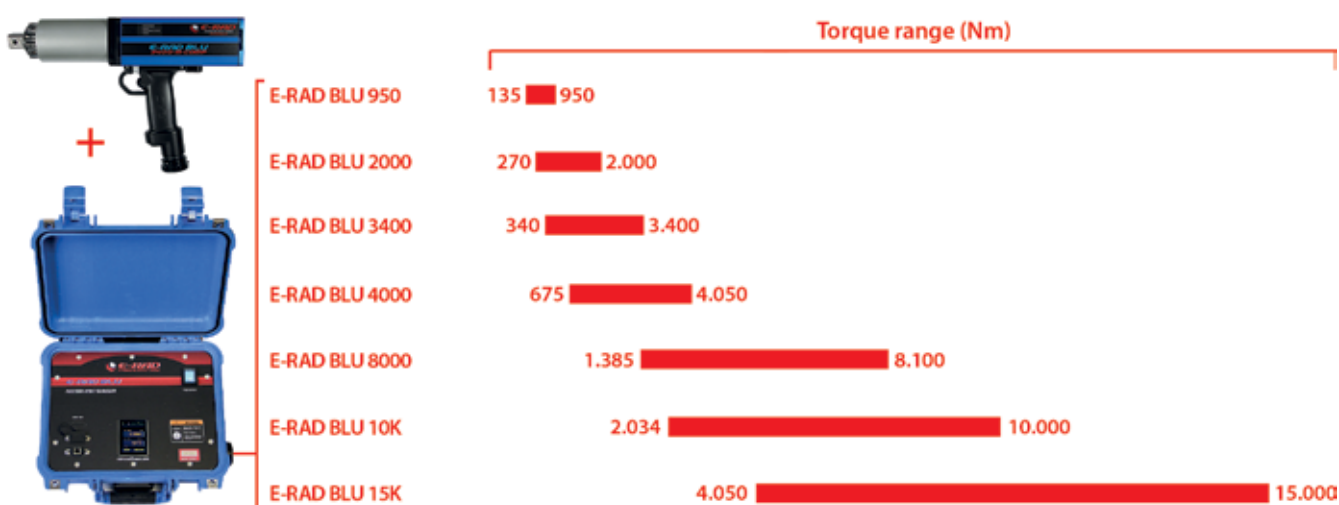
The E-RAD BLU Series Touch Control box provides the interface for all E-RAD BLU wrenches.

No matter which E-RAD is connected, the control box will retrieve the model and calibration data from the wrench. This allows the operator to switch between multiple types of wrenches ensuring mistake-free operation. No torque conversion charts are needed, as opposed to conventional systems.

Why a separate control box on the E-RAD system?

RAD decided to separate the control system from the wrench in order to make the wrench lighter and more compact.

In addition, overheating caused by heavy-duty continuous usage is avoided because both the control box and the wrench have their own active cooling systems. This patented system has proven itself time and again.



Control box features:

- Easily controlled touchscreen
- Password protection for three user levels: basic, intermediate and advanced
- Life cycle and maintenance counters
- On-screen indication of control box and wrench temperature

50 X 76 mm touch screen



Select system voltage and required cable length:

Product	Controller selection		Weight	Dimensions (mm)		
Number	Voltage	Case type	Kg	length	height	width
21220	230V	Weatherproof assembly	5,5	338	152	295
21221	120V	Weatherproof assembly	5,5	338	152	295

Product	Cable length selection	Dimensions (ft/m)
Number	Description	length
21217	Cable assembly E-RAD BLU (short)	15 / 4,6
21218	Cable assembly E-RAD BLU (middle)	20 / 6,1
21219	Cable assembly E-RAD BLU (long)	25 / 7,6

Accuracy +/- 2,8%, repeatability +/- 2%

RAD Smart Socket™ series

- ◆ Revolutionary socket for measuring torque directly on the bolt up to 10.800 Nm with an accuracy of < 1%



Smart Socket video



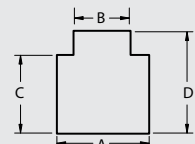
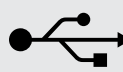
Uses RAD Torque's transducer technology combined with custom sockets to measure the torque applied to the bolt during a torque cycle. By innovative design, the Smart Socket™ is no larger than a standard socket. It's compact size and innovative technology makes the Smart Socket™ a perfect audit tool for inspecting bolted joints and can function as a master calibration for various torque tools.

Intelligent Sockets

- Measures and displays peak torque
- Build-in rechargeable battery
- "Pass" or "Fail" indication function
- Data logging – download logs (XLS, CSV, PDF)
- Free software included
- Full traceability of bolted joints
- Optional: Pre-installed tablet, SDM calibration bench



LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025



Toolkit Number	Tool Model	Drive size Inches	Torque (Nm)		Weight Kg	Dimensions (mm)			
			Min	Max		A	B	C	D
20879	33 mm Smart Socket™	¾ or 1"	100	2.034	1,2	72	42	70	100
21363	36 mm Smart Socket™	1"	100	2.034	1,2	72	54	65	100
22158	41 mm Smart Socket™	1"	100	2.034	1,2	72	54	65	87
20880	46 mm Smart Socket™	1"	100	2.034	1,2	72	54	65	87
20881	50 mm Smart Socket™	1"	200	4.050	1,4	86	54	69	89
20882	55 mm Smart Socket™	1"	200	4.050	1,5	86	54	69	89
20883	60 mm Smart Socket™	1"	200	4.050	1,5	86	54	69	89
22394	65 mm Smart Socket™	1½"	500	10.800	4,0	115	87	90	121
20884	70 mm Smart Socket™	1½"	500	10.800	4,0	115	87	90	121
20885	80 mm Smart Socket™	1½"	500	10.800	4,0	115	87	90	121

Accuracy < 1%

Other sizes are available on request.

Reaction arms and nose extensions

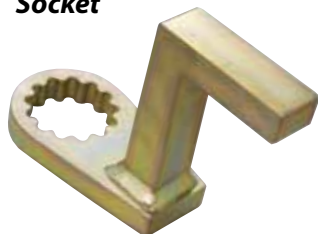
Standard reaction arms

Each RAD tool includes a standard reaction arm. In addition to this, you can order the below special reaction arms to ensure correct reaction for different applications. Please consult www.radtorque.nl for dimensions and part numbers.

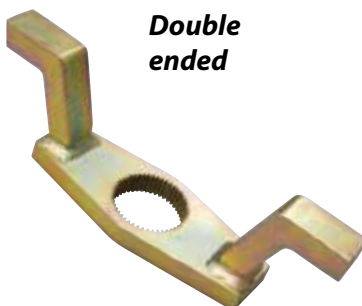
Standard



Deep Socket



Double ended



Various models of weldable blanks



Custom designed reaction arms

If a standard reaction arm is not suitable for the job, RAD is able to provide you quickly a custom engineered reaction arm fully within safety standards. In addition to this, blank weldable reaction arms can be supplied for quick and easy customization.

◆ Safety sliding reaction arm

To reduce the pinching risk significantly RAD has developed sliding reaction arms. This also optimizes the reaction point.

Curved reaction arm



Sliding reaction arm



Sliding reaction arm with tube



RAD nose extensions

The RAD nose extensions are designed to fit in applications with tight clearances. See www.radtorque.nl for more information.



Accessories

Tool accessories

To further enhance the productivity and safety of RAD torque tools RAD has developed a wide range of accessories. For further details, please consult your RAD contact person.



Offset gearbox video

Impact sockets



Swivelling Tool Handle



Offset gearboxes



RAD RCA series Calibration stands

RAD provides a range of Joint Simulating Calibration stands for calibrating (RAD) torque wrenches. The digital torque analyzers are capable of calibrating between 70 and 10.000 Nm.

The RCA series is an easy and economical solution for dynamic or static calibration of various models and makes torque wrenches.

- Four models available
- Individually calibrated and traceable to NIST standards to ensure joint integrity
- Verifies that wrench is operating at maximum efficiency and safety levels
- Ensures torque wrench accuracy
- Set consists of: Bench, Simulation joint, Transducer, Digital read out unit, Washers, Socket and Calibration certificate



Product Number	Tool Model	Torque (Nm)		Accuracy %
		Low	High	
10785	RCA-1000	135	1.350	+/- 0,25
10786	RCA-3000	400	4.000	+/- 0,25
10787	RCA-5000	670	6.770	+/- 0,25
17993	RCA-6000	800	8.000	+/- 0,25

Accuracy +/- 0,25%

Safety

RAD's advanced safety systems

Ergonomics and safety are very important during the design phase of any new RAD tool.

In addition to making the job more ergonomic and safe, RAD wants their tools to be easy to use, powerful, accurate and very reliable. RAD believes safety features should not impede workplace efficiency and speed, but should make workers aware of the risks involved in working with powerful tools.

RAD has developed a range of ergonomic and safety enhancing features:

Ergonomic features:

- RAD's patented planetary gear reduction drive system delivers 88 times less vibration than impact wrenches.
- No risk of HAVS injuries (Hand-Arm-Vibration-Syndrome).
- Pistol grip trigger/control reduces operator fatigue
- RAD's low profile reaction arm eliminates all the operational load on the operator



Tool safety features:

- Trigger guard kit for E-RAD series (option)
- Double safety trigger (option)
- Hand guard kit for E-RAD and pneumatic series (option)
- Safety sliding reaction arm (option)
- Safety instructions on CD-rom
- Warnings and attention notifications on tool and case
- Operators manual

Trigger guard kit for E-RAD series



Double safety trigger for pneumatic series



Hand guard kit for E-RAD and pneumatic series



Safety sliding reaction arm



Product	Safety feature	Suitable for
Number	TRIGGER GUARD KIT	RAD Torque Tool model
21889	E-RAD trigger guard kit	All E-RADs
Number	DOUBLE SAFETY TRIGGER	RAD Torque Tool model
200142	Double safety trigger for NPW 120	475 SL, 10 GX (TV), 14 GX (TV), 20 DX (TV)
200143	Double safety trigger for NPW 180	34 GX, 40 DX
200144	Double safety trigger for NPW 200	46 GX (TV), 80 DX, 110 DX
Number	HAND GUARD KIT	RAD Torque Tool model
200192	Hand guard kit for NPW 120	475 SL, 10 GX (TV), 14 GX (TV), 20 DX (TV)
200193	Hand guard kit for NPW 180	34 GX, 40 DX
200194	Hand guard kit for NPW 200	46 GX (TV)



TORQUE SYSTEMS - INNOVATION DRIVEN PERFORMANCE



Mining
Oil & Gas
Windpower
Aerospace
Petrochemical
Manufacturing
Commercial Vehicle Industry

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