



LEADING MANUFACTURER OF ADVANCED TORQUE SYSTEMS



LIGHTER - FASTER - STRONGER

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PNEUMATIC Torque range: 35 - 15.000 Nm - Page 5 t/m 7

SINGLE & 2-SPEED series, TV & Wheel Nut Bolting

 *Highly advanced torque wrenches for heavy industrial use*

- Smooth controlled bolt tightening
- Patented Gearbox technology
- Unbelievably fast and accurate
- Ergonomic Design



BATTERY Torque range: 60 - 7.000 Nm - Page 8 t/m 11

SELECT, DB, & EXT-R Series

 *Ideal in situations where electricity or compressed air are unavailable*

- Impressive performance thanks to the latest Li-Ion battery technology
- Automatic reaction arm release
- Easy and precise torque setting
- Brushless motor technology



ELECTRIC Torque range: 65 - 11.000 Nm - Page 12 t/m 13

Select & MV-RAD series

 *Digital torque setting with angle of turn control*

- Optional Bolt Torque verification function
- Automatic reaction arm release
- Ergonomic and lightweight
- EASY to USE



ELECTRONIC Torque range: 135 - 15.000 Nm - Page 14 t/m 15

E-RAD series

 *Designed and built for heavy industrial use*

- Fully traceable Bolting jobs with datalog report system
- Digital torque setting with angle of turn control
- Available with transducer control (E-RAD-S)
- LED pass / fail indication on the wrench
- Control Box for ultimate control



CALIBRATION SYSTEMS - Page 17

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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
connectivity



Torque + angle
function



Software
data exchange

Company profile

RAD Torque Systems B.V.

RAD Torque Systems B.V. located in Soest, The Netherlands, is exclusive master distributor for RAD and distributes RAD products to customers in Europe, the 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***



Made in Canada

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.



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



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 25 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.

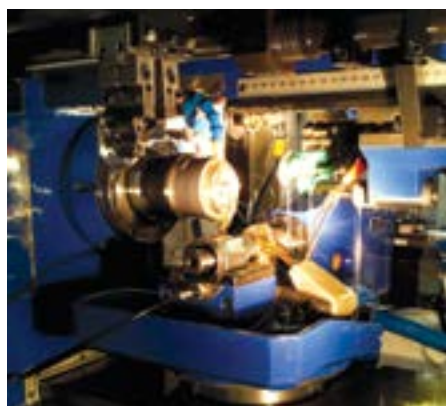


Innovation, our continuous drive

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 single & 2-speed

The experience in gearbox engineering and design has brought about RAD's latest generation in planetary gearboxes – RAD DX series. Designed for heavy duty usage in a variety of industries worldwide. RAD 2-speed series torque wrenches incorporate a precision engineered 2-speed gearbox designed for faster run down and quick reaction point positioning on time sensitive bolting applications. RAD DX series torque wrenches offer:

- 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 +/- 3%
- Wide torque range to suit multiple applications
- The best power-to-weight ratio
- The 2-speed models feature a unique full automatic gearbox design, eliminating the time consuming switch between high and low speed gear.

Extreme torque wrenches for heavy duty applications!

All RAD Pneumatic tools include:

- Reaction arm and retaining ring
- 3.6 meter hose
- Lightweight FRL unit
- Lubricating oil for the FRL unit
- User manual
- Calibration certificate
- Safety instruction USB stick.



FRL Unit:

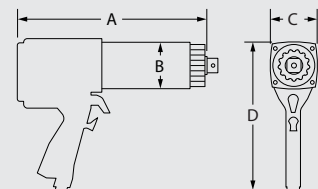
- Low weight (2kg) tool holder made from High Density Polypropylene
- Includes pressure gauge, filter, regulator and lubrication



DX 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		Tool	Drive size	Torque (Nm)		Speed		Weight		Dimensions (mm)			
Number		Model	Inches	Min	Max	RPM		Kg		A	B	C	D
	2-speed					2-speed		2-speed		2-speed			
15616		100 SL	3/4" or 1/2"	35	100	275		2,1		161		60	222
15134		275 SL	3/4"	50	275	90		2,2		167		60	222
13573	13575	475 SL	3/4"	70	150	475	65	2,4	3,7	167	228	60	222
13539		10 GX	3/4"	150		950	30	3,4		228		63	228
13549	19774	14 GX	3/4"	275	450	1.350	20	3,6	4,5	228	262	63	228
19135	19775	20 DX	1"	400	700	2.000	9	3,9	4,8	203	250	69	205
13565	19776	34 GX	1"	700		3.400	9	6,1		246		77	241
24717	24952	40 DX	1"	1.200	1.400	4.000	8	6,6	7,3	230	309	86	264
13571		46 GX	1"	1.400		4.600	12	9,0		325		86	264
26133		70 DX	1 1/2"	2.000		7.000	8	10,7		285		92	264
15805		80 DX	1 1/2"	2.700		8.000	7	12,5		348		101	277
23229		110 DX	1 1/2"	3.400		10.800	4	13,8		431		114	279
26153		150 DX	1 1/2"	5.400		15.000	3	19,0		353		127	281

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 TV
- 14 GX TV
- 20 DX TV
- 46 GX TV

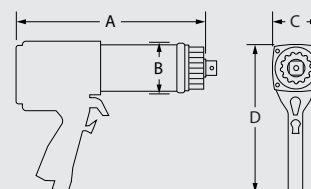
Besides on-site joint calibration, this pneumatic torque wrench has several useful functions such as:

- Easy data logging and collection
- Instant torque readout
- Real time graphs
- 'Pass' or 'Fail' indicator light
- Repeatability +/- 3%, accuracy transducer +/- 1%
- Smartphone / tablet App
- Bluetooth connectivity.



Connectivity

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



Toolkit	Tool	Drive size	Torque (Nm)		Speed	Weight	Noise level	Dimensions (mm)			
Number	Model	Inches	Min	Max	RPM	Kg	dB	A	B	C	D
22017	10 GX-RTV	3/4"	150	950	30	4,6	80	290	72	69	228
22079	14 GX TV	3/4"	275	1.350	20	4,1	80	243	72	69	228
22887	20 DX TV	1"	400	2.000	9	4,2	80	234	69	70	205
22018	46 GX TV	1"	1.400	4.600	12	10,5	85	339	92	93	264

RAD wheel nut bolting series

The RAD wheel nut bolting series was 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 correctly tightened wheels



The fixed nose extension (-R)

was developed exclusively for heavy 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.

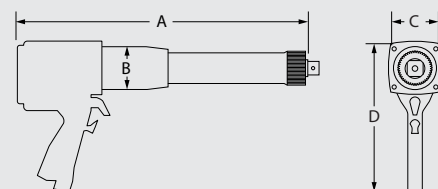


The nose extension kit (-NX)

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	Tool	Drive size	Torque (Nm)		Speed	Weight	Noise level	Dimensions (mm)			
Number	Model	Inches	Min	Max	RPM	Kg	dB	A	B	C	D
13541	10 GX-R	3/4"	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

Number	Model	Inches	Min	Max	RPM	Kg	dB	A	B	C	D
14550	14 GX-NX	3/4"	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	205
15522	34 GX-NX	1"	1.000	3.400	8	6,1	85	318	77	83	241

B-RAD SELECT BRUSHLESS SERIES

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



B-RAD SELECT video

Up to 7.000 Nm

The B-RAD SELECT Brushless is now even more powerful, faster and lighter.

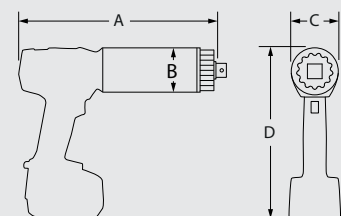
Cordless torque!

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

- Brushless motor
- Automatic reaction arm release
- Available in single and automatic 2-speed gearbox
- Latest Lithium-ion 18V/5.2Ah battery technology
- Repeatability 4%.

All B-RAD tools include:

- Reaction arm and retaining ring
- Two 18V / 5.2 Ah Lithium-ion batteries with fast charger
- Calibration certificate
- Weatherproof storage case
- Safety instruction on USB drive
- User manual.



Toolkit	Tool	Drive size	Torque (Nm)		Speed	Weight	Noise level	Dimensions (mm)			
Number	Model	Inches	Min	Max	RPM	Kg	dB	A	B	C	D
25091	B-RAD SELECT BL 275	3/4" or 1/2"	50	270	47	3,2	65	220	63	68	262
28264	B-RAD SELECT BL 700	3/4"	175	700	21	3,5	65	231	63	67	262
28266	B-RAD SELECT BL 1400	3/4"	300	1.400	10	3,5	65	231	69	67	262
28267	B-RAD SELECT BL 1400-2	3/4"	300	1.400	71	4,3	65	279	63	67	262
28268	B-RAD SELECT BL 2000	1"	400	2.000	6	4,0	65	244	69	69	262
28269	B-RAD SELECT BL 2000-2	1"	400	2.000	19	4,9	65	298	69	69	262
28270	B-RAD SELECT BL 4000	1"	800	4.000	3	6,0	65	285	81	81	266
28271	B-RAD SELECT BL 4000-2	1"	800	4.000	19	6,7	65	337	81	81	266
28272	B-RAD SELECT BL 7000	1,5"	1.400	7.000	2	8,8	65	295	95	95	272

THE B-RAD SELECT TV

Torque range: 70 – 2.000 Nm

RAD's battery torque wrench with built-in transducer for precise torque verification and data logging avoids that incorrect tool operation can result in incorrect bolt clamp load. With the B-RAD SELECT TV Series, the operator gets a clear GREEN/RED light indication showing whether the set torque is actually achieved. At the same time very high torque accuracy can be achieved when using the real time graphing mode.

The B-RAD SELECT TV logs all tightennings even when the tablet is not connected. These can be downloaded later when reconnected via bluetooth.

B-RAD SELECT TV tool features:

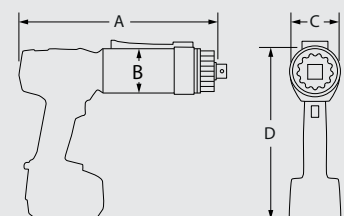
- Easy data logging and collection
- Instant torque read-out
- Realtime graphs
- Bluetooth connectivity
- 'Pass' or 'Fail' indicator light
- Brushless motor technology
- Automatic reaction arm release
- Controlled bolting – repeatability of +/- 3%.
Accuracy of transducer +/- 1%.

All B-RAD tools include:

- 2 Lithium-ion 18V/5.2Amp batteries with charger
- Reaction arm and retaining ring
- Safety instruction on USB stick
- Weatherproof storage case
- Calibration certificate
- User manual.

Connectivity

The B-RAD SELECT TV Series can be connected to an Android device by using the RAD Connect – PRODOCS App. Additionally, RAD RT Logger 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
26784	B-RAD SELECT 700 TV	3/4"	175	700	21	5,2	65	258	63	71	262
26786	B-RAD SELECT 1400 TV	3/4"	300	1.400	10	5,2	65	258	63	71	262
26950	B-RAD SELECT 2000 TV	1"	400	2.000	6	5,9	65	271	69	73	262

B-RAD EXT-R BATTERY SERIES

With more than 25 years in multiplier bolting equipment, RAD understands that heavy duty industries like railway need powerful and reliable tools. RAD's proven gearbox technology combined with the latest battery technology has resulted in the B-RAD EXT-R BATTERY SERIES.

Based on the B-RAD SELECT BL, the EXT-R version of the B-RAD allows you to work for hours on Li-Ion power. No more lugging along a heavy tool that's emitting exhaust fumes, heavy vibrations or noise. Each B-RAD EXT-R BATTERY SERIES is calibrated to 5% torque accuracy. The battery monitoring system will ensure that this accuracy is guaranteed until the battery runs low.

The B-RAD EXT-R BATTERY SERIES series comes with two simple buttons to increase or decrease the value by 10 Nm. The set torque value is displayed on the four-digit display.

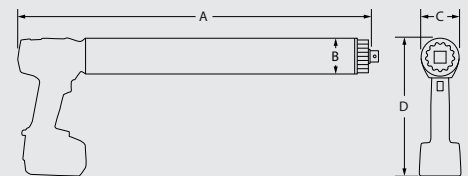


B-RAD EXT-R BATTERY SERIES specifications:

- Available in single and automatic 2-speed gearbox
- Lithium-ion 18V / 5.2 Ah battery technology
- Extremely low noise level – only 65 dB
- Automatic reaction arm release
- Low battery warning
- Brushless motor.

B-RAD EXT-R BATTERY SERIES toolkit include:

- Tool handle for easy handling
- Standard reaction arm and retaining ring
- 2 Lithium-ion 18V / 5.2 Ah batteries with charger
- Weatherproof storage case
- Calibration certificate
- User manual.



Toolkit	Tool	Drive size	Torque (Nm)		Speed	Weight	Noise level	Dimensions (mm)			
Number	Model	Inches	Min	Max	RPM	Kg	dB	A	B	C	D
201000	B-RAD EXT-R 700	3/4"	175	700	32	5,3	80	800	63	68	245
201001	B-RAD EXT-R 700-2	3/4"	175	700	83	6,5	80	860	63	68	245
201003	B-RAD EXT-R 1400	3/4"	300	1.400	10	5,9	80	810	63	68	245
201004	B-RAD EXT-R 1400-2	3/4"	300	1.400	71	6,5	80	860	63	68	245

Digital B-RAD PLUS 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 PLUS video

Digital cordless torque!

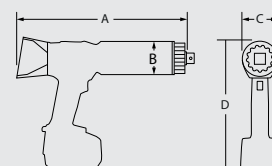
- Automatic 2-speed gearbox
- Latest Lithium-ion 18V/5.2 Ah battery technology
- More ergonomic OLED-Display
- Programmable preset torque settings
- Multi-level password protection
- High accuracy (+/- 4%) guaranteed through battery monitoring system
- Includes Angle of turn function
- Automatic reaction arm release.



Standard screen protector to prevent damage to the screen

All digital B-RAD tools include:

- Reaction arm and retaining ring
- Calibration certificate
- Two 18V / 5.2 Ah batteries with fast charger
- User manual
- Weatherproof storage case
- Safety instruction USB drive.



Toolkit	Tool	Drive size	Torque (Nm)		Speed	Weight	Noise level	Dimensions (mm)			
Number	Model	Inches	Min	Max	RPM	Kg	dB	A	B	C	D
200425	DB-RAD PLUS 700-2	3/4"	70	700	39	5,0	80	324	63	76	279
200426	DB-RAD PLUS 1400-2	3/4"	140	1.400	18	5,2	80	330	63	76	279
200427	DB-RAD PLUS 2000-2	1"	200	2.000	12	5,3	80	349	56	76	279
200428	DB-RAD PLUS 4000-2	1"	400	4.000	11	6,8	80	398	81	81	279

V-RAD SELECT electric series

● Torque range: 140 – 4.000 Nm

The V-RAD SELECT electric series is the latest innovation of RAD electric torque wrenches used for the installation or removal of heavy duty fasteners where accuracy, power, and high safety standards are required. The V-RAD SELECT shares the same two simple buttons with the B-RAD SELECT to increase or decrease the torque by 10 Nm.



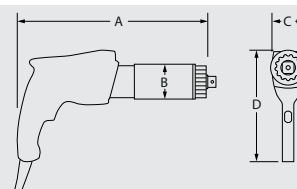
V-RAD SELECT video

V-RAD SELECT tool features:

- Advanced ultra-durable electric motor design
- Extreme duty design to reduce maintenance cost and increase reliability
- Equal power in forward and reverse
- Easy "SELECT" torque setting with steps of 10 Nm
- Low noise level – only 80 dB
- Durable DX design gearbox
- Clear Pass/Fail indication
- Clear display.

All V-RAD SELECT tools include:

- Reaction arm and retaining ring
- Weatherproof storage case
- Safety instruction USB drive
- User manual.



Toolkit Number	Tool Model	Drive size Inches	Torque (Nm)		Speed RPM	Weight Kg	Noise level dB	Dimensions (mm)			
			Min	Max				A	B	C	D
25633	V-RAD SELECT 1400	3/4"	140	1.400	8	4,0	80	280	63	63	203
25634	V-RAD SELECT 2000	1"	200	2.000	5	4,3	80	280	69	69	203
25636	V-RAD SELECT 4000	1"	400	4.000	3	6,2	80	310	81	81	203

MV-RAD electric series

● Torque range: 65 – 11.000 Nm

The MV-RAD will quickly tighten or loosen bolts with accuracy and reliability. The torque can be set by a membrane key control by single increment or with 200 setting options. Torque and more parameters can be programmed individually on custom demands. In addition, this torque wrench is equipped with angle function.



MV-RAD video

● The MV-RAD features a special Bolt Check function (optional)

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.

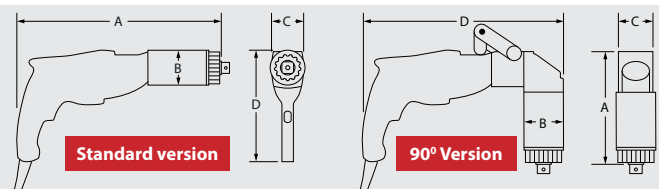
The 230V or 115V power operation allows the MV-RAD to be used in a variety of places with only 80 dB noise level. Each pistol torque wrench comes fully calibrated in a storage case and includes reaction arm, calibration certificate and operating manual.

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



All MV-RAD tools include:

- Reaction arm and retaining ring
- Weatherproof storage case
- Safety instruction USB drive
- User manual.



Toolkit		Tool	Drive size	Torque (Nm)		Speed	Weight	Noise level	Dimensions (mm)			
Number	Model	Inches	Min	Max	RPM	Kg		dB	A	B	C	D
200278	MV-RAD 6	3/4"	65	650	34	3,9		80	395	63	73	210
200279	MV-RAD 14	3/4"	140	1.400	11	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
200277	MV-RAD 20	1"	215	2.150	5	6,7		80	445	76	73	210
200281	MV-RAD 34	1"	340	3.400	4	7,0		80	457	76	73	210
200282	MV-RAD 34-90°	1"	340	3.400	6	7,5		80	220	80	73	395
200283	MV-RAD 45	1"	450	4.500	3	8,8		80	495	86	73	210
200284	MV-RAD 45	1 1/2"	450	4.500	3	8,8		80	495	86	73	210
200345	MV-RAD 45-90°	1" of 1 1/2"	450	4.500	3	9,5		80	252	86	73	404
200287	MV-RAD 70	1 1/2"	700	7.000	2	9,5		80	429	95	73	226
200325	MV-RAD 70-90°	1 1/2"	700	7.000	2	10,4		80	245	95	73	409
200286	MV-RAD 80	1 1/2"	800	8.000	2	11,7		80	500	102	73	210
200395	MV-RAD 110	1 1/2"	2.100	11.000	1	17,0		80	510	108	73	232
200466	MV-RAD 110-90°	1 1/2"	2.100	11.000	1	13,6		80	269	108	73	415

E-RAD BLU - setting bolting standards higher

E-RAD BLU series precision torque wrenches are designed to provide a high degree of accuracy of +/- 3% and repeatability of +/- 2% for high torque applications in combination with advanced tool functions and data logging. This advanced electronic pistol grip torque wrench combines RAD's proven 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 high cycle, heavy-duty industrial usage, indoor and outdoor.



E-RAD BLU video

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



E-RAD BLU tool kits include:

- E-RAD BLU (-S) wrench
- Control box cable
- Control box with USB and LAN port
- Operator's manual
- Reaction arm and retaining ring
- Calibration certificate
- Data logging software
- Safety instruction USB drive.

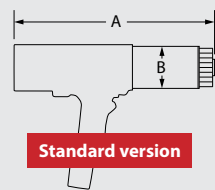
E-RAD BLU (-S) tool features:

- Highly advanced Data Logging and Tool Management features
- Capable of torque and angle bolting sequence
- Operator identification and Batch count to ensure traceability
- Password protection for three user levels: basic, intermediate and advanced
- LED indicator lights (Pass/Fail) located on both sides for maximum ergonomics
- Life cycle and maintenance counters
- Rotatable gearbox to avoid pinch hazard
- Active cooler system on controller and wrench.

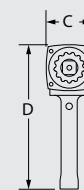
50 X 76 mm
touch screen



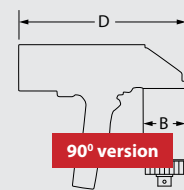
Select toolkit and if needed additional wrenches:



Standard version



90° version



Toolkit	Wrench only	Tool	Drive size	Torque (Nm)		Speed	Weight	Dimensions (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	275
24162	23330	E-RAD BLU 2000	1"	270	2.000	17	5,9	340	69	78	275
21986	22057	E-RAD BLU 3400	1"	340	3.400	10	8,1	380	76	78	275
22434	23113	E-RAD BLU 3400-90°	1"	340	3.400	10	8,3	220	76	78	295
21987	22058	E-RAD BLU 4000	1"	675	4.050	8	10,6	430	83	88	290
200415	200416	E-RAD BLU 4000	1 1/2"	675	4.500	8	10,6	430	83	88	290
21988	22059	E-RAD BLU 8000	1 1/2"	1.385	8.100	4	13,0	430	100	100	295
21989	22060	E-RAD BLU 10K	1 1/2"	2.034	10.000	2	15,0	430	105	105	298
24224	23748	E-RAD BLU 15K*	1 1/2"	4.050	15.000	2	20,1	466	127	127	305

* 15K Available upon request with 16.500 Nm and 2 1/2" SD.

E-RAD BLU-S Transducer controlled

Continuously measures and controls the actual applied torque to the bolt during the tightening process

In addition to the regular E-RAD BLU models, RAD also offers the E-RAD BLU with transducer controlled torque shut off (S). This system achieves an ever higher torque accuracy (2%) than the regular E-RAD BLU and is especially suitable for situations where the E-RAD BLU is used for a wide variation of joint types (hard/soft).

What difference does the "S" make?

The "S" version of the E-RAD BLU distinguishes itself from the standard model in that it is equipped with a strain gauge torque transducer in the annulus of the gearbox. Instead of measuring the servo motor current to determine the precise shut off torque, the "S" goes a step further in that it actually controls the precise moment of the torque shut off by means of the torque transducer's measurements.



With the E-RAD BLU-S the actual applied torque to the bolt is measured, making the E-RAD BLU-S extremely precise and insensitive to different joint conditions. As for the standard E-RAD BLU, already very precise (3%), any inaccuracy caused by joint sensitivity can be corrected by performing a point calibration or a "BLU Call" on the joint with a Smart Socket™. With the E-RAD BLU-S this will not be necessary anymore.

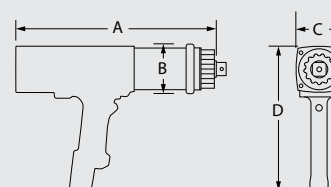
E-RAD BLU (-S) control box

The E-RAD BLU Control box provides the interface for all E-RAD BLU wrenches. No matter which E-RAD BLU (-S) 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.

The E-RAD BLU -S works on a standard control box with a recent software version.

- Standard delivered with 230V control box (Prod. Nr: 21220) and 4,5 m cable (Prod. Nr: 21217)
- Optional 120V control box (Prod. Nr: 21221).

Select toolkit and required cable length:



Toolkit	Tool	Drive size	Torque (Nm)		Speed	Weight	Dimensions (mm)			
Number	Model	Inches	Min	Max	RPM	Kg	A	B	C	D
21985	E-RAD BLU 950-S	3/4"	135	950	30	5,6	365	92	78	245
21986	E-RAD BLU 3400-S	1"	340	3.400	10	8,4	405	97	78	245
21987	E-RAD BLU 4000-S	1"	675	4.050	8	10,9	455	110	88	260
21988	E-RAD BLU 8000-S	1 1/2"	1.385	8.100	4	13,4	455	127	100	260
21989	E-RAD BLU 10K-S	1 1/2"	2.034	10.000	2	15,5	455	132	105	265
n/a	E-RAD BLU 15K-S	1 1/2"	4.050	15.000	2	20,1	460	128	127	273

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

RAD Smart Socket™ series

- **Revolutionary socket for measuring torque directly on the bolt up to 16.200 Nm with an accuracy of < 1%**



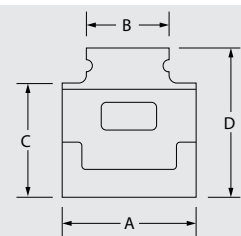
Smart Socket video



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
- Including pre-installed tablet.



Toolkit	Tool	Drive size	Torque (Nm)		Weight	Dimensions (mm)			
Number	Model	Inches	Min	Max	Kg	A	B	C	D
20879	33 mm Smart Socket™	3/4" of 1"	200	2.034	1,2	72	42	70	100
21363	36 mm Smart Socket™	1"	200	2.034	1,2	72	54	65	100
22158	41 mm Smart Socket™	1"	200	2.034	1,2	72	54	65	87
20880	46 mm Smart Socket™	1"	200	2.034	1,2	72	54	65	87
20881	50 mm Smart Socket™	1"	400	4.050	1,4	86	54	69	89
20882	55 mm Smart Socket™	1"	400	4.050	1,5	86	54	69	89
20883	60 mm Smart Socket™	1"	400	4.050	1,5	86	54	69	89
23690	65 mm Smart Socket™	1 1/2"	1.100	10.800	4,0	115	87	90	121
20884	70 mm Smart Socket™	1 1/2"	1.100	10.800	4,0	115	87	90	121
20885	80 mm Smart Socket™	1 1/2"	1.100	10.800	4,0	115	87	90	121
25657	90 mm Smart Socket™	1 1/2"	1.100	16.200	5,8	131	99	99	115
25658	100 mm Smart Socket™	1 1/2"	1.100	16.200	7,2	146	99	99	120

Other sizes are available on request.

RAD Transducers series

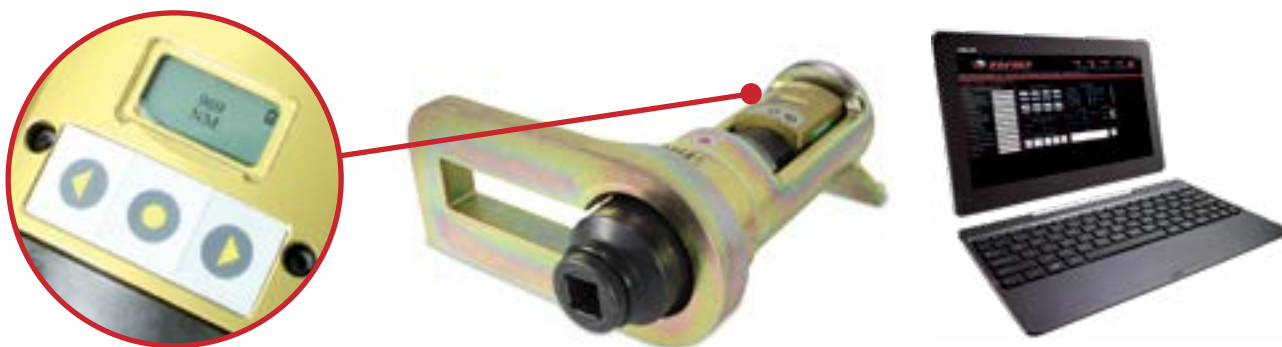
◆ **Torque range: 100 – 9.500 Nm**

The accuracy and the repeatability of RAD Calibration benches have earned an excellent reputation in calibration laboratories around the world. The completely new RAD Calibration System was specially designed to calibrate RAD (and similar) torque wrenches. It is also possible to verify hydraulic torque wrenches' accuracy with this system. The system is available with different transducer sizes, depending on the required torque.

The calibration values can be read directly from the transducer screen. In addition, the calibration values can be read and stored by linking the RAD transducer to the supplied tablet using the RAD pneumatic calibration software. The RAD Calibration System consists of a Tube Stand, the transducer, the simulation joint, impact sockets and a tablet with the requisite (pre-installed) RAD pneumatic calibration software.



Calibration bench video



RAD Transducers features:

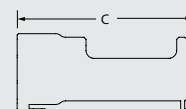
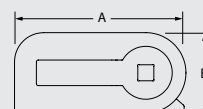
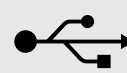
- Torque range up to 9.500 Nm
- Fully traceable calibration system, with recognized ISO 17025 calibration certificate
- Screen on transducer makes it easy to read calibration value
- Fast and easy link with RAD pneumatic calibration software using tablet
- Up to 2.050 Nm classified up to BS 7882:2008 as Class 1 or better for primary torque range (+/- 0.5% of the reading from 20% to 100% of the full scale)
- From 1.900 Nm to 9.500 Nm classified up to BS 7882:2008 as Class 0.5 or better for primary torque range (+/- 0.25% of the reading from 20% to 100% of the full scale)
- The transducer is interchangeable with previous RAD RCA Calibration benches.

All RAD Calibration benches include:

- Tube stand
- Impact sockets
- Simulation joint
- Tablet + software
- ISO 17025 accredited calibration certificate.



**LABORATORY
ACCREDITATION
BUREAU**
ACCREDITED ISO/IEC 17025



Toolkit	Tool	Drive size	Torque (Nm)		Weight	Dimensions (mm)		
Number	Model	Inches	Min	Max	Kg	A	B	C
23442	CALIBRATION SYSTEM RAD 1500	1"	100	2.000	11,8	247	138	281
23443	CALIBRATION SYSTEM RAD 3500	1"	250	4.750	24,4	368	177	332
23444	CALIBRATION SYSTEM RAD 7000	1½"	475	9.500	24,4	368	177	332

Prod Nr.	Tool
Number	Model
24305	RAD 1500 TRANSDUCER ASSEMBLY
24120	RAD 3500 TRANSDUCER ASSEMBLY
23164	RAD 7000 TRANSDUCER ASSEMBLY

Accessories

Reaction arms

Each RAD tool includes a standard reaction arm. Please consult www.radtorque.eu for dimensions and part numbers.

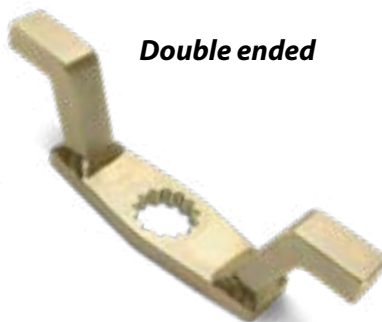
Standard



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. Check website for custom RA forms. 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 optimize the reaction point.

Sliding reaction arm



Tube reaction arm



Curved reaction arm



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 visit our website www.radtorque.eu.

Impact sockets



SDM Gearbox



RAD nose extensions



Offset gearboxes



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 wishes 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
- Pistol grip trigger/control reduces operator fatigue
- No risk of HAVS injuries (Hand-Arm-Vibration-Syndrome)
- RAD's low profile reaction arm eliminates all the operational load on the operator.



Tool safety features:

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

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	DOUBLE SAFETY BUTTON	RAD Torque Tool model
25949	B-RAD SELECT Double Safety Button	All B-RADs
Number	DOUBLE SAFETY TRIGGER	RAD Torque Tool gearbox
200142	Double safety trigger for NPW 120	100 SL, 275 SL, 475 SL, 10 GX, 14 GX, 20 DX
200143	Double safety trigger for NPW 180	34 GX, 40 DX
200144	Double safety trigger for NPW 200	46 GX, 70 DX, 110 DX, 150 DX
Number	SWIVELLING TOOL HANDLE	RAD Torque Tool gearbox
15961	Swivelling tool handle	14 GX
15959	Swivelling tool handle	34 GX
15958	Swivelling tool handle	40 DX
14491	Swivelling tool handle	46 GX
15956	Swivelling tool handle	80 DX
22931	Swivelling tool handle	110 DX



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Your local RAD distributor: