RAD®

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 or visit our website:

WWW.RADTORQUE.NL

RAD® TORQUE SYSTEMS

LIGHTER - FASTER - STRONGER

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Non Impacting | Safe & Reliable | According to European standards | EX approved | Accredited ISO/IEC 17025 | Lithium Ion battery | Bluetooth data exchange | Torque + angle function | Software managed

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.

FAST DELIVERY

Service, repair & warranty

New World Technologies Inc.

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 WORLD TECHNOLOGIES INCORPORATED

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

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025

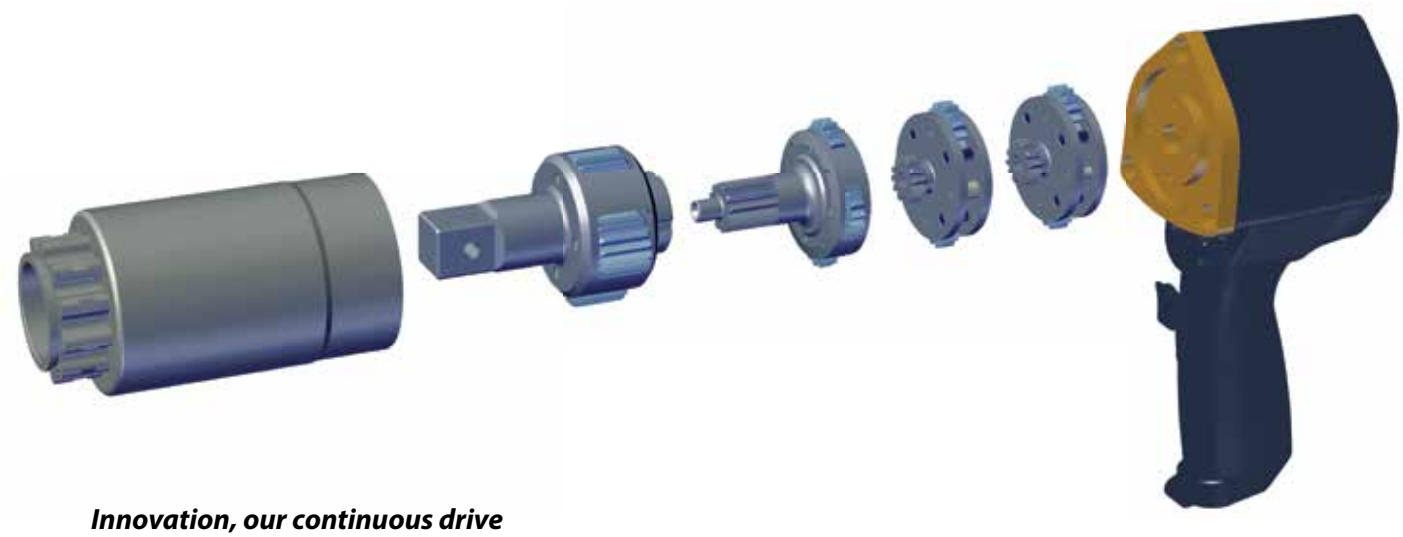
RAD Products

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.

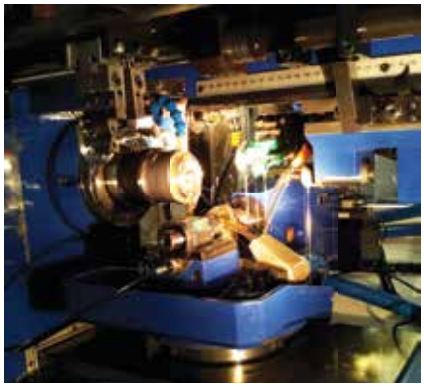


Innovation, our continuous drive

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

The 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!

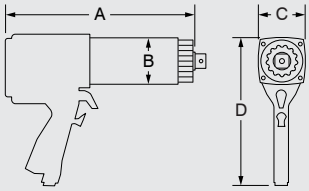
All RAD Pneumatic tools include:

- Reaction arm and retaining ring
- 3.6 meter hose
- Lightweight FRL unit in a new regulator cage
- Lubricating oil for the FRL unit
- User 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	Tool	Drive size	Torque (Nm)		Speed	Weight	Noise level	Dimensions (mm)			
Number	Model	Inches	Min	Max	RPM	Kg	dB	A	B	C	D
15616	100 SL	¾" or ½"	35	100	275	2,8	80	161	60	69	222
15134	275 SL	¾"	50	275	90	3,0	80	167	60	69	222
13573	475 SL	¾"	70	475	65	2,7	80	167	60	69	222
13539	10 GX	¾"	150	950	30	3,6	80	228	63	69	228
13549	14 GX	¾"	275	1.350	20	3,8	80	228	63	69	228
19135	20 DX	1"	400	2.000	9	4,2	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
26133	70 DX	1½"	2.000	7.000	8	10,7	85	285	92	93	264
15805	80 DX	1½"	2.700	8.000	7	12,5	85	348	101	101	277
23229	110 DX	1½"	3.400	10.800	4	13,8	85	431	114	114	279
26153	150 DX	1½"	5.400	15.000	3	19,0	85	353	127	127	281

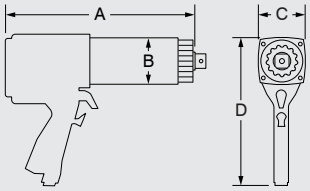
RAD 2-speed series

2-speed video

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.

- The 2-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 2-speed series reduce operator strain and injury, resulting in increased productivity.
- Controlled torque – accuracy of +/- 4% and repeatability of +/- 2%

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
13575	475 SL-2	¾"	150	475	300	3,7	80	228	60	69	222
19774	14 GX-2	¾"	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
24952	40 DX-2	1"	1.400	4.000	49	7,3	80	309	81	83	241

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:

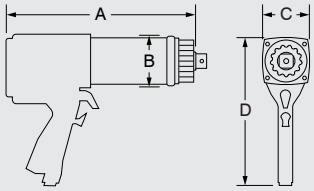
- 10 GX TV
- 14 GX TV
- 20 DX TV
- 46 GX TV

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 +/- 2%, 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, RAS-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 TV	¾"	150	950	30	4,6	80	290	72	72	227
22079	14 GX TV	¾"	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

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

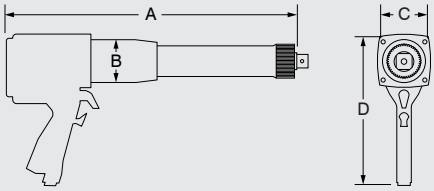
The fixed nose extension (-R)

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	Tool	Drive size	Torque (Nm)		Speed	Weight	Noise level	Dimensions (mm)			
Number	Fixed extension	Inches	Min	Max	RPM	Kg	dB	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
Number	Kit model	Inches	Min	Mix	RPM	Kg	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

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 DX gearbox design, RAD made the B-RAD select even more powerful and lighter.

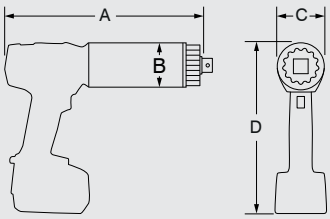
Cordless torque

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
- User manual
- Safety instruction cd-rom



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 275	¾" or ½"	50	270	40	3,2	80	238	63	68	264
25249	B-RAD SELECT 475	¾"	100	475	24	3,2	80	238	63	68	264
24507	B-RAD SELECT 700	¾"	175	700	13	3,4	80	235	63	68	264
24508	B-RAD SELECT 700-2	¾"	200	700	37	4,5	80	287	63	68	264
24591	B-RAD SELECT 950-2	1"	550	950	57	4,8	80	304	69	68	267
24509	B-RAD SELECT 1400	¾"	300	1.400	6	4,0	80	254	69	69	264
24510	B-RAD SELECT 1400-2	¾"	300	1.400	18	4,9	80	304	63	68	264
24511	B-RAD SELECT 2000	1"	400	2.000	4	4,0	80	248	69	69	264
24512	B-RAD SELECT 2000-2	1"	400	2.000	16	5,1	80	304	69	68	267
25031	B-RAD SELECT 4000	1"	815	4.000	2	6,0	80	285	81	81	274
24929	B-RAD SELECT 4000-2	1"	815	4.000	13	7,3	80	377	81	81	274

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

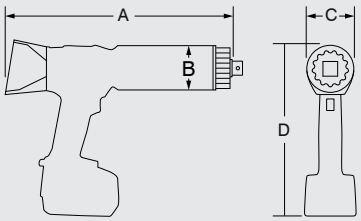
Standard Screen protector to prevent possible damage to the screen

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 (+/- 4%) guaranteed through battery monitoring system
- Ideal for applications where compressed air or electricity are not available

All digital B-RAD tools include:

- Reaction arm and retaining ring
- Calibration certificate
- Two 18V / 6.2 Ah batteries with charger
- Weatherproof storage case
- User manual
- Safety instruction cd-rom



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	¾"	70	700	39	5,0	80	324	63,5	76	279
200426	DB-RAD PLUS 1400-2	¾"	140	1.400	18	5,2	80	330	63,5	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	9	7,1	80	398	81	81	279

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.

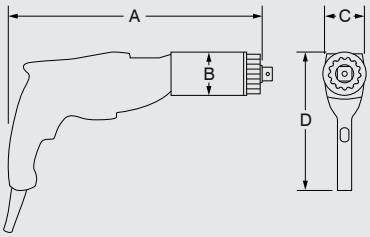
Advanced ultra-durable electric motor design

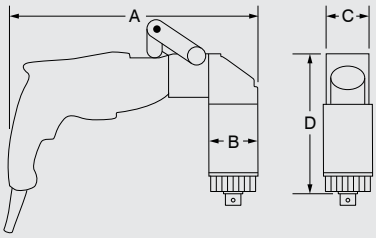
Extreme duty design to reduce maintenance cost and increase reliability.

All V-RAD tools include:

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

V-RAD-31-90°-Version





Toolkit	Tool	Drive size	Torque (Nm)		Speed	Weight	Noise level	Dimensions (mm)			
Number	Model	Inches	Min	Max	RPM	Kg	dB	A	B	C	D
13589	V-RAD 6	¾"	150	550	29	4,5	80	431	63	76	215
13583	V-RAD 14	¾"	400	1.350	8	4,9	80	457	63	76	215
21948	V-RAD 14-90°	¾"	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

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. In addition, this torque wrench is equipped with an angle function.

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

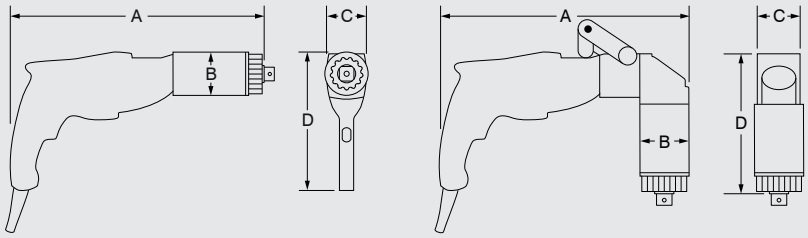
This program allows the operator to check if an already tightened bolt is still within torque specification. The MV-RAD is able to verify the existing torque and will not add any extra torque while doing this. If the bolt requires further tightening, it will do so automatically and report the degrees of turn needed. 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
- Angle function
- 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
- User manual
- Weatherproof storage case
- Safety instruction cd-rom



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	¾"	65	650	38	3,9	80	395	63	73	210
200279	MV-RAD 14	¾"	140	1.400	11	4,9	80	438	63	73	210
200289	MV-RAD 14-90°	¾"	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	4	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	1½"	450	4.500	6	8,8	80	495	86	73	210
200285	MV-RAD 60	1½"	600	6.000	5	12,7	80	535	101	73	210
200286	MV-RAD 80	1½"	800	8.000	4	11,7	80	500	102	73	210

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:

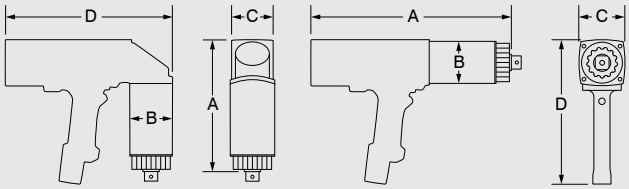
- E-RAD BLU (-S) wrench
- Control box cable
- Control box with USB and LAN port
- Operator's manual
- Reaction arm and retaining ring
- Calibration certificate
- Data logging software
- Safety instruction CD-ROM

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 ergonomy
- Life cycle and maintenance counters
- Rotatable gearbox to avoid pinch hazard

50 X 76 mm touch screen

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	¾"	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
200415	200416	E-RAD BLU 4500	1½"	675	4.500	8	10,6	430	83	88	260
21988	22059	E-RAD BLU 8000	1½"	1.385	8.100	4	13,0	430	100	100	260
21989	22060	E-RAD BLU 10K	1½"	2.034	10.000	2	15,0	430	105	105	265
24224	23748	E-RAD BLU 15K	1½"	4.050	16.500	2	20,1	466	127	127	273

E-RAD BLU-S Transducer controlled

Continuously measures and controls the actual applied torque to the bolt during the fastening 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 archieves an ever higher torque accuracy (2%) as 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 for different joint conditions. As for the standard E-RAD BLU, already very precise (3%), any inaccuracy caused by joint sensitivity was 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.

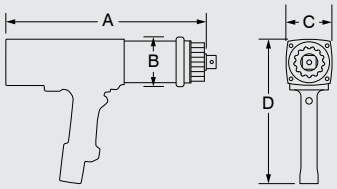
E-RAD BLU (-S) control box*

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 (Product Number: 21220) and 4,5 m cable (21217)
- Optional 120V control box (Product Number: 21221)

Select toolkit and required cable length:



Toolkit	Tool	Drive size	Torque (Nm)		Speed	Weight	Dimensions wrench (mm)			
Number	Model	Inches	Min	Max	RPM	Kg	A	B	C	D
21985	E-RAD BLU 950-S	¾"	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	1½"	1.385	8.100	4	13,4	455	127	100	260
21989	E-RAD BLU 10K-S	1½"	2.034	10.000	2	15,5	455	132	105	265

Product	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

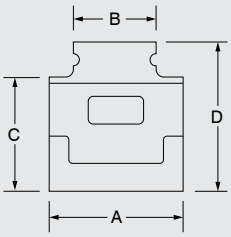
- ***Revolutionairy socket for measuring torque directly on the bolt up to 16.000 Nm with an accuracy of < 1%***

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



Safe & Reliable

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	D
20879	33 mm Smart Socket™	¾" or 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
22394	65 mm Smart Socket™	1½"	1.100	10.800	4,0	115	87	90	121
20884	70 mm Smart Socket™	1½"	1.100	10.800	4,0	115	87	90	121
20885	80 mm Smart Socket™	1½"	1.100	10.800	4,0	115	87	90	121
25657	90 mm Smart Socket™	1½"	1.100	16.200	5,8	131	99	99	115
25658	100 mm Smart Socket™	1½"	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

Calibration benche video

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 steel base plate, the transducer, the simulation joint, impact sockets and a tablet with the requisite (pre-installed) RAD pneumatic calibration software.

Product features:

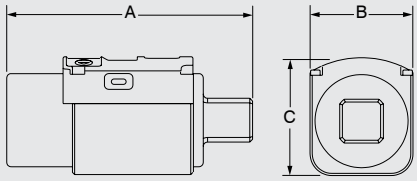
- Torque range up to 9,500 Nm
- Fully traceable calibration system, with recognized ISO 17025 calibration certificate
- Screen on transducer makes it easy to read calibration value
- Fast and easy link with RAD pneumatic calibration software using tablet
- Up to 2,050 Nm classified up to BS 7882:2008 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:

- Steel base plate
- Simulation joint
- Impact sockets
- ASUS tansformer book with the RAD pneumatic calibration software
- ISO 17025 accredited calibration certificate

Safe & Reliable

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025



Toolkit	Tool	Drive size	Torque (Nm)		Weight	Dimensions (mm)		
Nummer	Model	Inches	Min	Max	Kg	A	B	C
23442	RAD 1500 TRANSDUCER	1″	100	2.000	1,8	142	60	69
23443	RAD 3500 TRANSDUCER	1″	250	4.750	4,5	171	64	102
23444	RAD 7000 TRANSDUCER	1½″	475	9.500	4,9	171	64	102

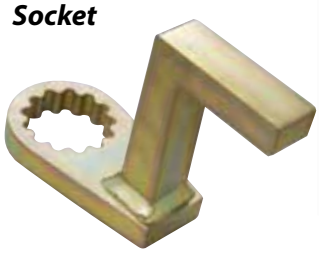
Accessories

Reaction arms

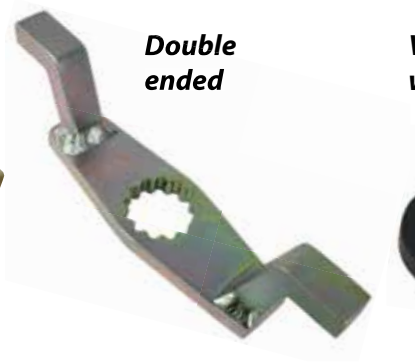
Each RAD tool includes a standard reaction arm. Please consult www.radtorque.nl for dimensions and part numbers.

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 optimize the reaction point.

Curved reaction arm

Sliding reaction arm

Sliding reaction arm with tube

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.nl.

Impact sockets

Swivelling Tool Handle

RAD nose extensions

Offset gearboxes

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 fatique
- 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
- User 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	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	HAND GUARD KIT	RAD Torque Tool model
21436	Hand guard kit for NPW 120	100 SL, 275 SL, 475 SL, 10 GX, 14 GX, 20 DX
21437	Hand guard kit for NPW 180	34 GX, 40 DX
21600	Hand guard kit for NPW 200	46 GX, 80 DX, 110 DX, 150 DX

RAD®

TORQUE SYSTEMS - INNOVATION DRIVEN PERFORMANCE

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Master Distributor for the EMEA region:

RAD Torque Systems B.V.
Zuidergracht 19
3763 LS Soest
The Netherlands

Phone: *+31 (0)35 - 5882450*
E-mail: *info@radtorque.nl*
sales@radtorque.nl
techsupport@radtorque.nl

www.radtorque.nl

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