



# RAID<sup>®</sup>

## TORQUE SYSTEMS



*Leading Manufacturer of  
Advanced Torque Systems*



PNEUMATIC



BATTERY



ELECTRONIC



ELECTRIC



[www.radtorque.com.au](http://www.radtorque.com.au)



## Company Introduction

Based in Adelaide, South Australia, RAD Torque Systems Pty Ltd. is positioned to offer the highest level of customer satisfaction in the industry. With Master Distributors in every State and Territory supported by an extensive inventory of tools and parts we are confident that we have the right tool to meet your torque requirements and exceed your expectations. With over 20 years of industry experience and knowledge, let RAD Torque Systems assist your organisation in improving productivity and safety by providing you with the lightest, fastest, and strongest torque tools in the market. With all Master Distributors offering services including repair, calibration, rental and product / application consultation you can be confident that with RAD there is a better way!



### RAD Quality

Manufactured in Canada by New World Technologies Inc the RAD brand of Pneumatic, battery powered and electronic pistol grip wrenches offer a reliable and dependable solution for the installation and removal of heavy-duty fasteners in a variety of industries that require accuracy, power and safety.



### Highest power-to-weight ratio of any power tool

All RAD torque guns are designed to deliver the highest power-to-weight ratio of any torque tool on the market today, saving you time and money in maintenance or production costs. The extremely high torque and constant rotation make our tools ideal for virtually any bolting application you will encounter. Equal power in both forward and reverse allows more diversity for tough maintenance jobs.



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

Every RAD torque wrench is individually calibrated and traceable to NATA Standards to help ensure joint integrity. Our tools are many times more accurate than impact wrenches and in many cases can be more precise than click type manual torque wrenches, which are often over pulled by operators.

### 88 times less vibration than Impact wrenches... Operates at only 85 dba

RAD torque guns are one of the safest power tools on the market today. Our exclusive low profile reaction arm takes virtually all the operational load off the operator, reducing injuries and greatly reducing operating costs. Don't wait for a time loss injury or legislation to force change in your environment, RAD guns set the standard in bolting safety.



**PNEUMATIC**



**BATTERY**



**ELECTRONIC**



**ELECTRIC**

**PRECISION BOLTING DRIVEN BY TECHNOLOGY AND DESIGN**



# Controlled Bolting Solutions

All RAD Pneumatic Series Torque Tools are supplied with NATA traceable certificates of calibration and laminated torque charts for ease of use and reference. Torque control is achieved by adjustment of the air pressure in accordance with the dedicated certificate provided with each tool.

The user selects the torque to be applied and obtains the corresponding air pressure rating from the torque chart or certificate, this pressure is then set on the tool holder which is supplied as Standard with every Pneumatic RAD gun.



**RAD Torque Systems Pty Ltd**  
17 Rover Street  
Hindmarsh  
SA 5007  
Tel: (08) 83465628  
Fax: (08) 83465634

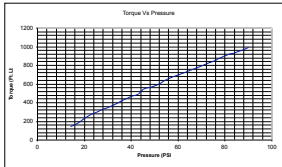
**Certificate #**  
Issue #

**Certificate Of Calibration**  
Customer

Model: RAD 10GX  
Air Motor Serial Number: 742680  
Gear Box Serial Number: \_\_\_\_\_  
Capacity: 1000 Ft.lbs  
Accuracy:  $\pm 1\%$  of Digital Setting  
Calibration Date: 5-Jan-09  
Calibration Due Date: 4-Jan-10  
Calibration Technician: Victor Lanzoni

Temp  
Humidity  
Procedure  
Units

**Torque Calibration Chart**



**Test Equipment**

Torque Transducer Model Number: AWS RCA-1000  
Torque Transducer Serial Number: 6443  
Calibration Due Date: 24-Jan-09  
Capacity: 1000  
Units: LBF.FT  
Stated Accuracy:  $\pm 1\%$  of Full Scale  
Calibration Standard: MI-09-06-8528

## Torque Reaction

RAD Pneumatic Torque Wrenches are reversible, non impacting torque controlled tools which require the use of a reaction device to absorb reaction forces transmitted from the gearbox as torque is applied.

Newtons Law dictates that for every force there is an equal and opposite reactive force and for this reason all of our tools are supplied with a standard reaction arm designed to work with standard length impact sockets and suit a wide range of applications.



## Safety

RAD Tools have been designed with safety in mind however, as with all tools you MUST observe all general workshop safety practices, and specifically the following:

- ALWAYS wear safety spectacles when the tool is in operation.
- Ensure the reaction arm is in contact with a solid contact point before operating the tool.
- Keep all body parts clear of the reaction arm and the contact point.
- Set air pressure while the tool is running freely.
- NEVER exceed the maximum air pressure shown on the torque chart.
- ALWAYS use the regulator and oiler supplied with Pneumatic Series Tools.
- Be sure a minimum 1/2" airline is connected to the regulator assembly to ensure adequate air flow (35-40 CFM).

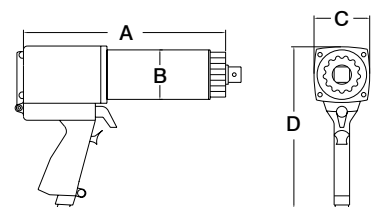
RAD Tools are safe and reliable. Not following precautions and instructions on the tool and outlined in the instructions provided with each tool can result in injury to user and fellow workers.



# Classic Series



The RAD Classic Series torque wrenches offer a reliable and dependable solution for controlled bolting environments. A stall type tool with no impacting results in a smooth continuous application of torque eliminating destructive hammering and reducing operator strain resulting in increased productivity. All RAD Pneumatic Series tools are supplied with Reaction arm, 3M hose, tool holder, Filter/Regulator/Lubricator, Waterproof Site box and instruction manual as standard.



Part Number	Tool Model	Square Drive	Torque		Speed RPM	Weight Kg	Noise Level Dba	Dimensions (mm)			
			Ft.lbs	NM				A	B	C	D
12316	350SL	3/4"	50 - 350	70 - 475	65	2.7	80	167	60	69	222
12321	550SL	3/4"	100 - 550	150 - 750	35	2.9	80	185	60	69	222
12329	800NG	3/4"	150 - 800	200 - 1100	30	4.3	85	196	72	72	241
12338	1400NG	1"	300 - 1400	400 - 1900	15	5.6	85	228	76	83	241
12342	1800NG	1"	500 - 1800	700 - 2450	13	5.6	85	228	76	83	241
12345	2000	1"	500 - 2000	700 - 2700	13	5.6	85	228	76	83	241
12348	30	1"	1000 - 3000	1400 - 4050	14	9.2	85	335	78	93	264
12357	50	1 1/2"	1500 - 5000	2000 - 6800	8	12.7	85	335	101	93	264

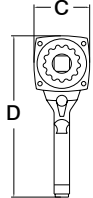
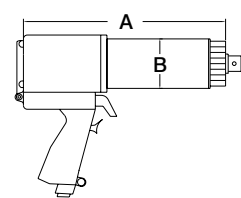
# High Speed Series



**PNEUMATIC**



Introduced to complement the RAD Classic Series of torque wrenches these tools offer the same reliable and dependable solution for controlled bolting with the added advantage of an automatic two speed gearbox for faster rundown on time sensitive bolting applications.



Part Number	Tool Model	Square Drive	Torque		Speed RPM	Weight Kg	Noise Level Dba	Dimensions (mm)			
			Ft.lbs	NM				A	B	C	D
12317	350SL-2	3/4"	100 - 350	70 - 475	300	2.7	80	228	60	69	222
12322	550SL-2	3/4"	200 - 550	150 - 750	170	2.9	80	241	60	69	222
12330	800NG-2	3/4"	300 - 800	200 - 1100	170	4.3	85	247	72	72	241
12339	1400NG-2	1"	500 - 1400	400 - 1900	69	5.6	85	292	76	83	241
12343	1800NG-2	1"	700 - 1800	700 - 2450	53	5.6	85	292	76	83	241
12346	2000-2	1"	700 - 2000	1400 - 2700	53	9.2	85	292	78	93	264
12349	30-2	1"	1400 - 3000	2000 - 6800	55	12.7	85	398	101	93	264



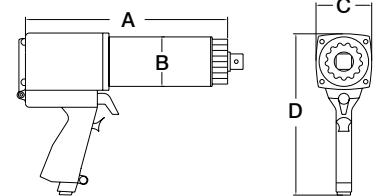
# Gen-X Series



Designed for extreme duty use in a variety of industrial applications Worldwide the Gen-X is the next generation in torque wrenches.

- The ultimate in power-to-weight ratio
- Wide torque range to suit multiple applications
- Unmatched reliability delivered by one of the most advanced engineered gearboxes on the market.

All RAD Pneumatic Series tools are supplied with Reaction arm, 3M hose, tool holder, Filter/Regulator/Lubricator, Waterproof Site box and instruction manual as standard.



Part Number	Tool Model	Square Drive	Torque		Speed RPM	Weight Kg	Noise Level DbA	Dimensions (mm)			
			Ft.lbs	NM				A	B	C	D
12814	7GX	3/4"	100 - 700	150 - 950	30	3.6	80	228	63	69	228
12818	10GX	3/4"	200 - 1000	275 - 1350	20	3.6	80	228	63	69	228
12377	25GX	1"	500 - 2500	1100 - 3400	9	6.1	85	246	77	83	241
12356	34GX	1"	1000 - 3400	1400 - 4600	12	9.0	85	325	86	93	264
15328	60DX	1 1/2"	2000 - 6000	2700 - 8000	6.6	12.5	85	348	114	101	277
12383	85GX	1 1/2"	3000 - 8500	4100 - 11550	4.5	17.4	85	431	120	127	279

# Underground Mining Series



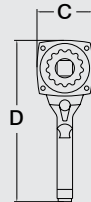
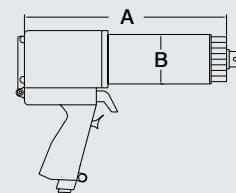
**PNEUMATIC**



Expanding on the extensive range of controlled bolting torque equipment, the Underground Series now allows underground coal and shale mines the same benefits and safety factors that their above ground counterparts have been enjoying for years.

Whilst in many environments the low levels of Titanium and Magnesium contained within the specially designed air motor are deemed acceptable for use in combustible environments RAD treat all exposed aluminium components to comply with Australian Underground requirements in accordance with the Department of Primary Industry.

The Tool Holder and filter assembly that is used to set the required torque value is manufactured from High Density Polypropylene and each tool is supplied complete with a Fire Resistant Anti-Static (FRAS) Hose.



Other Tool Models available on request

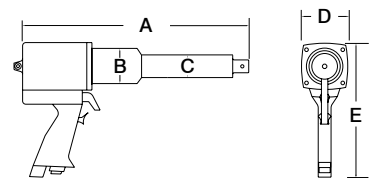
Part Number	Tool Model	Square Drive	Torque		Speed RPM	Weight Kg	Noise Level Dba	Dimensions (mm)			
			Ft.lbs	NM				A	B	C	D
12316.UG	350SL	3/4"	50 - 350	70 - 475	65	2.7	80	167	60	69	222
12321.UG	550SL	3/4"	100 - 550	150 - 750	35	2.9	80	185	60	69	222
12814.UG	7GX	3/4"	100 - 700	150 - 950	30	3.6	80	228	63	69	228
12818.UG	10GX	3/4"	200 - 1000	275 - 1350	20	3.6	80	228	63	69	228
12345.UG	2000	1"	500 - 2000	700 - 2700	13	5.6	85	228	76	83	241
12377.UG	25GX	1"	500 - 2500	1100 - 3400	9	6.1	85	246	77	83	241
12356.UG	34GX	1"	1000 - 3400	1400 - 4600	12	9.0	85	325	86	93	264



# Wheel Nut Bolting Series



These tools were designed with one job in mind – wheel nut bolting for light and heavy duty applications where torque control is a must. The extended nose with available custom reaction arms make this tool ideal for reaching wheel nut studs that are recessed.



Part Number	Tool Model	Square Drive	Torque		Speed RPM	Weight Kg	Noise Level Dba	Dimensions (mm)				
			Ft.lbs	NM				A	B	C	D	E
13495	7GX-R	3/4"	150 - 700	200 - 950	115	5.4	80	368	63	50	69	228
13478	1400NGX-R	1"	300 - 1400	400 - 1900	14	12.4	85	546	76	50	83	241
13477	1800NGX-R	1"	500 - 1800	700 - 2450	10	12.4	85	546	76	50	83	241
13479	2000NGX-R	1"	500 - 2000	700 - 2700	10	12.4	85	546	76	50	83	241



# NX Kits



For the complete tool kit look no further than the RAD NX Kit!

Packaging the RAD tool of choice with a selection of reaction arms and a nose extension enables users to undertake 99% of bolting applications without the need for additional accessories.

Each kit contains:

- RAD Pneumatic Torque Tool
- Standard Reaction Plate
- Tool Holder with Filter / Regulator / Lubricator
- Nose Extension
- Standard Reaction Arm for Nose Extension
- Wheel Nut Reaction Arm for Nose Extension
- Military Grade water / dust proof hard case
- Hoses and Fittings



Part Number	Tool Model	Torque		Speed RPM	Nose Extension
		Ft.lbs	NM		
15517	7GX-NX	100-700	150-950	30	12"
13691	10GX-NX	200-1000	275-1350	20	12"
15518	1400NG-NX	300-1400	400-1900	15	12"
15519	1400NG-2-NX	500-1400	700-1900	69	12"
15520	1800NG-NX	500-1800	700-2450	10	12"
15521	1800NG-2-NX	700-1800	950-2450	53	12"
15522	25GX-NX	800-2500	1100-3400	8	18"



# Standard Accessories

As part of our standard range of accessories RAD Torque Systems are pleased to offer an extensive range of special reaction arms to suit a multitude of applications.

In addition to this a full range of trigger guards, lifting handles and lifting rings are available for all tool models within the RAD Range.



Back up Reaction Arms



## Trigger Guards

A full range of Trigger guards are available to suit all RAD Pneumatic Series Tools. These guards can be retro-fitted to all tools providing additional safety to the operator.

Part Number	To Suit Tool Model
15438	RAD 350SL / 550SL / 7GX / 10GX / 7GX-R
15439	RAD 800NG / 1400NG / 1800NG / 2000 / 25GX / 1400NGX-R / 1800NGX-R / 2000NGX-R
15440	RAD 30 / 34GX / 60DX / 50



## Tool Support

To enable ease of use RAD are pleased to offer a range of secondary support handles to facilitate two handed operation of the tool to further increase safety. A range of lifting eyes are also available to allow the suspension of all tool models using a spring balancer. Both secondary handles and lifting eyes clamp positively to the tool whilst still allowing it to rotate through 360 degrees.

Support Handle



Lifting Ring



To Suit Tool Model	Support Handle	Lifting Ring
RAD 350SL / 550SL / 7GX / 10GX / 7GX-R	14430	13939
RAD 1400NG / 1800NG / 2000 / 1400NGX-R / 1800NGX-R / 2000NGX-R	14953	13679
RAD 25GX	15959	14845
RAD 30 / 34GX	15658	13680
RAD 50 / 60DX	15956	12729
RAD 85GX	15956	15504

# Manual Torque Multipliers



## MGX Series

Based on the extreme duty 'Gen-X Series' of RAD guns the New Manual Gen-X torque multiplier offers the perfect economical solution to controlled bolting applications.

Sharing the same unique 'serpentine' reaction output as the Gen-X Series, the New MGX is compatible with a huge range of reaction arms and nose extension options from the RAD Accessory range ensuring the ultimate in safety and repeatability.

With unmatched reliability delivered by one of the most advanced engineered gearboxes on the market the 'MGX' Series offers 'True' torque ratios of 4:1 and 20:1.

A heavy duty Anti Wind-up Ratchet is fitted to all 20:1 models as standard to ensure the safety of the operator and increase the versatility of the multiplier.

- The ultimate in power-to-weight ratio
- Torque accuracy +/- 4%
- Anti wind-up ratchet standard on 20:1 models
- True torque multiplication ratios
- Compatible with all RAD reaction arm and nose extension accessories



Part Number	Tool Model	Input ■	Output ■	Ratio	AWUR	Torque Range	
						Ft.lbs	Nm
MGX1041	10MGX	½"	¾"	4:1	✗	1000	1350
MGX1021	10MGX-2	½"	¾"	20:1	✓	1000	1350
MGX2041	20MGX	¾"	1"	4:1	✗	2000	2700
MGX2021	20MGX-2	½"	1"	20:1	✓	2000	2700
MGX3441	34MGX	¾"	1"	4:1	✗	3400	4600
MGX3421	34MGX-2	½"	1"	20:1	✓	3400	4600

# Impact Sockets



RAD Torque Systems is pleased to offer one of the most extensive ranges of high quality sockets and accessories on the market.

With sockets available in drive sizes from ¼" - 2½" and in every configuration, standard 6 point, 12 point, square, double square, torx and in-hex you can be sure that we have the right socket to get the best out of your RAD torque tool.

In addition to this we also hold a comprehensive range of impact extension bars, impact adapters and reducers.



# Battery Series



**BATTERY**

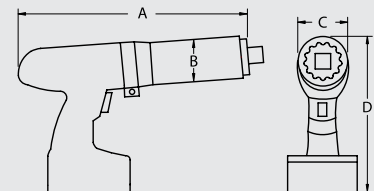


RAD Battery Series Torque Wrenches offer unmatched power, versatility and reliability. Incorporating our precision engineered gearboxes these tools are ideal for any application where compressed air or electricity are not readily available.

**No hassles. No air lines. No power cords.**



**NEW**



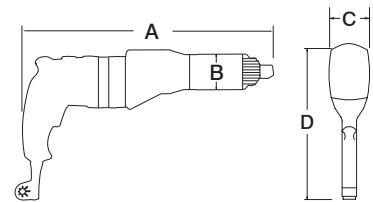
Part Number	Tool Model	Square Drive	Torque		Weight Kg	Dimensions (mm)			
			Ft.lbs	NM		A	B	C	D
16191	B-RAD 350	3/4"	100 - 350	150 - 475	3.8	222	61	71	267
16192	B-RAD 350-2	3/4"	100 - 350	150 - 475	4.3	280	61	71	267
16193	B-RAD 700	3/4"	300 - 700	400 - 950	4.3	254	64	76	260
16006	B-RAD 700-2	3/4"	300 - 700	400 - 950	5.3	320	64	76	267
16194	B-RAD 1300	1"	500 - 1300	550 - 1750	6.2	298	77	76	267
16195	B-RAD 1300-2	1"	500 - 1300	550 - 1750	7.1	349	77	76	260

Lithium Ion retro-fit kits also available for Old B-RAD Series Tools.

# Electric Series



V-RAD series are a new generation of electric torque wrenches used for installation or removal of heavy duty fasteners where accuracy, power, and safety are required. This series comes without the hassle of air hoses and simply runs when plugged into any electric power supply or generator. **Maximum versatility and efficiency...**



Part Number	Tool Model	Square Drive	Torque		Weight Kg	Dimensions (mm)			
			Ft.lbs	NM		A	B	C	D
13497	V-RAD 4	3/4"	100-400	150-550	4.5	431	63	76	215
12899	V-RAD 10	3/4"	300-1000	400-1350	4.9	457	63	76	215
12389	V-RAD 16	1"	500-1600	700-2150	6.8	482	76	76	215
13501	V-RAD 23	1"	800-2300	1100-3100	6.8	495	76	76	215

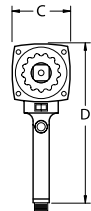
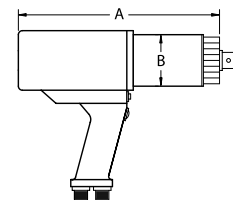


# Electronic Series



The E-RAD Series of tools are the World's most advanced electronic pistol grip torque wrenches. Designed to provide a high degree of accuracy and repeatability using our legendary gearbox design and the precision of an electronic servo motor.

The E-RAD tools are available with 'Torque Only' and 'Torque and Angle' options using a dedicated control box which is supplied with the tool. With an accuracy of +/-3% and torque values up to 6000ft.lbs (6800Nm) the E-RAD is the perfect choice for precision bolting and use in areas where compressed air is not available or an option.



Part Number	Tool Model	Square Drive	Torque		Weight Kg	Noise Level Db	Dimensions (mm)			
			Ft.lbs	NM			A	B	C	D
14991	E-RAD 700	¾"	100 - 700	135 - 950	5.4	75	298	60	63	241
12313	E-RAD 1200	1"	200 - 1200	270 - 1600	6.8	75	323	76	80	241
12314	E-RAD 2000	1"	250 - 2000	400 - 2700	8.1	75	336	76	88	254
15710	E-RAD 2500 COMP	1"	250 - 2500	1100 - 3400	5.6	75	362	76	76	197
12703	E-RAD 3000	1"	500 - 3000	1400 - 4600	10.6	75	393	86	88	254
13992	E-RAD 4000	1 ½"	1000 - 4000	1080 - 5400	14	75	423	101	101	254
15952	E-RAD 6000	1 ½"	1500 - 6000	2000 - 6800	13	75	394	102	102	254



## E-Series Controllers and Options

All E-RAD Series tools listed on the opposite page are supplied complete and ready to use with control box and cables. The user does however have several options with regards to the type of control box supplied, length of cable required and programmed tool parameters.

When selecting an appropriate E-RAD tool firstly choose one of the options below that best represents the manner in which you wish to use the tool.

Secondly, select the appropriate controller to suit your working environment and the length of cable that you require.

Finally, if the tool is to be used with a heavy duty cycle it is highly recommended to opt for a super duty fan kit which will ensure that your tool operates at a moderate temperature during use.

### Option 1

- User has the option to define torque settings
- Defined settings can be stored using an 8 channel selector switch
- All torque positions can be locked out using a removable key
- Basic data collection

### Option 2

- User has the option to define torque or angle or torque and angle sequence (1 channel)
- Tool operates as a standard E-RAD when angle is set to zero
- Basic data collection

### Option 3

- User has the option to define torque or angle or torque and angle sequence
- Defined settings can be stored using an 8 channel selector switch
- All defined settings can be locked out using a removable key
- Basic data collection

### Select one of the following Options:

Part Number	Description	For Use With
13629	<b>Option 1</b> Selector switch with user defined torque	All E-RADs
13630	<b>Option 2</b> User defined torque and angle (1 channel)	All E-RADs
13631	<b>Option 3</b> User defined torque and angle (8 channel)	All E-RADs
13628	Super duty fan kit	E-RAD 2700 – 4000



Steel Case

### Select one of the following Controllers:

E-Series Controllers available in two case configurations.

Part Number	Description	Case Type	Voltage	Dimensions (mm)		
				length	height	width
13632	Controller	Steel Assembly	120	378	300	203
13626	Controller	Weatherproof Assembly	120	470	175	356
13627	Controller	Steel Assembly	220	378	300	203
14108	Controller	Weatherproof Assembly	220	470	175	356



Weatherproof Case

### Select one of the following Cable lengths:

Part Number	Tool Model	Cable length (M)
10984	Cable length from Controller to Tool Model (standard)	4.6
11845	Cable Length From Controller To Tool Model	6.1
11846	Cable Length From Controller To Tool Model	7.6



Super duty fan kit



# Reaction Arms



Tool Series	Standard	Deep Socket	Double Ended Arm	Single Blank	Double Ended Blank	Retaining Ring
RAD 350SL/550SL / B-RAD 350 / E-RAD 350 / V-RAD 4	10686	10687	10688	10036	10037	10306
RAD 800NG	10043	10458	10459	10044	10045	10388
RAD 1400NG/1800NG / V-RAD 16	10004	10007	10009	10005	10008	10014
RAD 2000 / E-RAD 2000	10247	10395	10397	10394	10396	10038
RAD 30	10022	10025	10027	10026	10024	10032
RAD 50	10039	10401	10403	10040	10402	10032
RAD 7GX/10GX / B-RAD 700 / E-RAD 700 / V-RAD 10	13366	13367	13368	13364	13365	12733
RAD 25GX / B-RAD 1300 / V-RAD 23	10514	10515	10516	10513	10448	10509
RAD 34GX / E-RAD 3000	11531	11534	11533	11530	11532	11350
RAD 60DX / E-RAD 6000	15375	15788	15790	15789	15373	15367
RAD 85GX	12885	13508	13509	13505	13506	11930
RAD 1400/1800/2000NGX-R	13484	13515	13516	13513	13514	13476
RAD 7GX-R	13512	12902	13442	13773	12903	10306

## Sliding Reaction Arms

In addition to the standard range of reaction arms listed above RAD also offer a range of sliding reaction arms that ensure perfect reaction every time whilst eliminating pinch points and optimising safety.

These reaction arms are perfectly suited to flange assembly and applications with regular bolt pattern arrangements.



Part Number	Tool Model	Min CTRS	Max CTRS
CRP12818-1	10GX	60mm	180mm
CRP12377-1	25GX	76mm	255mm
CRP12356-6	34GX	76mm	178mm

## Custom Reaction Arms

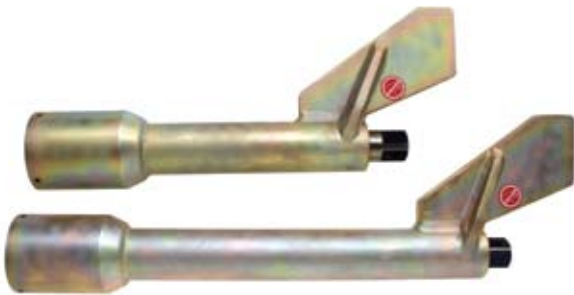
With full engineering capability RAD Torque Systems are pleased to custom design and manufacture a full range of special engineer to order reaction arms to suit any application. Please contact your local distributor to discuss your requirements for a specific or custom application. Our engineering Department can design a reaction arm to suit your requirements.



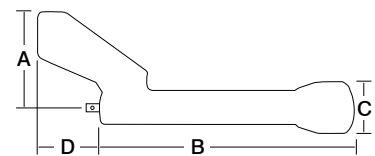


# Nose Extensions

RAD Nose extensions are engineered to enable the use of RAD tools in difficult to access areas where a standard tool would not normally fit. These extensions remove the need to use impact extension shafts which can put the operator in danger and subject the tool to excess side loading.



Part Number	Tool Model	Dimensions (mm)			
		A	B	C	D
<b>Classic / High Speed</b>					
10259	RAD 1400/1800NG 12" nose extension	140	323	72	92
10257	RAD 1400/1800NG 15" nose extension	140	406	72	92
10258	RAD 1400/1800NG 18" nose extension	140	457	72	92
<b>Classic / High Speed / Under Ground Mining</b>					
10733	RAD 2000 12" nose extension	140	330	72	92
15237	RAD 2000 15" nose extension	140	410	72	92
15096	RAD 2000 18" nose extension	140	470	72	92
12087	RAD 30 12" nose extension	140	325	72	92
10734	RAD 30 15" nose extension	140	401	72	92
10735	RAD 30 18" nose extension	140	478	72	92
<b>Gen-X Series / Under Ground Mining</b>					
14195	RAD 10GX 12" nose extension	N/A	324	63	N/A
14200	RAD 10GX 15" nose extension	N/A	400	63	N/A
14205	RAD 10GX 18" nose extension	N/A	475	63	N/A
12096	RAD 25GX 12" nose extension	140	330	72	92
12061	RAD 25GX 15" nose extension	140	410	72	92
12097	RAD 25GX 18" nose extension	140	470	72	92
11750	RAD 34GX 12" nose extension	140	330	80	92
11751	RAD 34GX 15" nose extension	140	410	80	92
11752	RAD 34GX 18" nose extension	140	470	80	92



# Calibration Equipment

## Torque Tool Calibration

All RAD torque tools are calibrated on our purpose designed and built dynamic joint simulation analysers which are now available to customers wishing to test, verify or fully calibrate the equipment that they are using.

Having on-site test equipment provides total piece of mind and quality assurance to customers using dynamic torque tools on a daily basis.

Calibrated to NATA Standards the analysers form part of a Total Quality System giving users and their customers total traceability through National Standards.



## RCA Joint Simulating Torque Analysers

RCA Joint Simulating Torque Analysers are laboratory quality test systems allowing dynamic testing of pneumatic torque tools. Each calibration system is supplied complete with test bed, joint simulator, transducer / transducers and reaction adapters.

Transducers are calibrated to International Standards and have an accuracy of +/- 0.5% of indicated value over the calibrated range of 10%-100% full scale.

Part Number	Model	Range		Transducers Supplied	Joint Simulators Supplied
		Ft.lbs	NM		
10785	RCA 1000	50-1000	70-1350	1	1
10786	RCA 3000	300-3000	400-4000	1	1
10787	RCA 5000	50-5000	70-6800	2	2
15450	RCA 10000	50-10000	70-13500	3	3



## AWS Pneumatic Tool Test Stands

The AWS Range of Pneumatic Tool Test Stands are designed specifically to test the torque output of all Pneumatic Torque Tools. Standard features include integrated display, joint simulator and a choice of reaction configurations.

The unit is fitted with a dedicated transducer system with an accuracy of +/- 1% of indicated reading over the calibrated range of 10% - 100% full scale.

Part Number	Range	
	Ft.lbs	NM
AWS-7000RD-DP-1K	100-1000	135-1350
AWS-7000RD-DP-2.5K	250-2500	340-3400
AWS-7000RD-DP-5K	500-5000	680-6800
AWS-7000RD-DP-7.5K	750-7500	1000-10000



# AWS Hydraulic Tool Test Stands

The AWS Range of Hydraulic Tool Test Stands are designed specifically to test the torque output of all Hydraulic Torque Tools of both link and square drive configuration. Standard features include integrated display, annular torque transducer and a choice of reaction configurations.

The unit is fitted with a dedicated transducer system with an accuracy of +/- 1% of indicated reading over the calibrated range of 10% - 100% full scale.

Part Number	Range	
	Ft.lbs	NM
AWS-7000HYTDP-1K	100-1000	135-1350
AWS-7000HYTDP-2.5K	250-2500	340-3400
AWS-7000HYTDP-5K	500-5000	680-6800
AWS-7000HYTDP-10K	1000-10000	1350-13500
AWS-7000HYTDP-25K	2500-25000	3400-34000
AWS-7000HYTDP-50K	5000-50000	6800-68000



# Torque Measurement & Calibration

The AWS Range of static torque transducers and torque wrench testers have been designed with both portability and practicality in mind. All units are fully calibrated to

National Standards and have an accuracy of +/- 0.5% of indicated reading over the calibrated range of 10% - 100% full scale.



### QC Range

The AWS QC manual torque wrench tester is easily bolted to a work bench or tool cart and is designed for tool checking and calibration at the point of use. Suitable for use with all types of manual torque wrench this tester is available in a range of different sizes from 10 Ozf.in—1000 ft.lbs (7CNm—1350Nm).

### Bench Mount Transducer

The AWS Bench Mount Transducer is similar to the QC Range using the same transducer shafts and offering the same great versatility. These transducers are best suited to customers requiring more than one transducer to cover the torque range that they are using and connect directly in to a hand held display unit. Suitable for use with all types of manual torque wrench these transducers are available in a range of different sizes from 10 Ozf.in—1000 ft.lbs (7CNm—1350Nm).

### Static Torque Transducer

The AWS Static Torque Transducers are designed with portability and flexibility in mind. Fitted in a dedicated bench stand they can be used for the calibration of manual torque tools or integrated with a rundown fixture they can be used for the calibration of pneumatic or hydraulic torque tools. Available in a range of different sizes from 10 Ozf.in—10000 ft.lbs (7CNm—13500Nm).





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