



TORQUE TOOL CALIBRATION *Tips & Techniques*

Annual tool certification with "As Found" and "As Left" results is a bare minimum for quality control. Assembly operations should consider a verification program in addition to annual certification. The verification program should take into consideration the number of cycles the tools perform on a monthly, weekly, or daily basis.

Seven things to remember about torque tool calibration:

1. Remember the difference between Indicated Value (I.V.) and Full Scale Value (FSV) for testing and tool use. Indicated Value readings maintain the same level of accuracy up and down the tool capacity. Full Scale Value maintains that level of accuracy only at tool full capacity. Moving down the tool capacity scale accuracy decreases. A tool with +/- 4% FSV at capacity has a +/- 8% accuracy at 50% of tool capacity. That accuracy continues to decrease as the tool is used at lower capacity levels.
2. Use a torque tester that has a minimum tester to tool ratio of 4:1 accuracy. If your tool is +/- 1% I.V. the tester used to calibrate that tool must be at least +/- .25% I.V.
3. Use a mechanical loader to calibrate the tool and then use hand testing to verify calibration.
4. When starting the day be sure to warm up the tester by testing a wrench five times before beginning to take readings.
5. If a tool has been unused for a day or more, be sure to exercise the tool at least three times prior to testing. The spring and lubricants can "settle." When this happens the first few readings may not accurately represent tool condition.
6. Testing cycles should be based on activity, not time frames. If you can't track activity, then use time frames as a method of tracking calibration.
7. Tools should be labeled with tool capacity, work station, date of last calibration, next calibration date, and the person responsible for calibration.



**Sturtevant
Richmont**

Calibration

Becoming ISO/IEC 17025 accredited with one calibration station is one thing. Consistently repeating results at twelve stations and remaining within your uncertainty budget is another. No small detail can be over looked. To eliminate the effect of side-loads, we designed our transducers to have bearings to support the working end. From 1 inch pound to 600 foot pounds we designed our transducers to have a common mounting footprint. To ensure +/- .25% indicated value accuracy, our System 8 instrument stores a 20-point calibration table for each transducer.

Whether you are testing tools in the lab or on the plant floor, our System 8 and TorqTronics 2 are designed to test most, if not all common, assembly tools. This includes torque controlled power tools. Both of these testers come with our "Fail Safe Engineering" protocol that notifies the operator when the transducer has been stretched beyond 120% of its rated capacity.

We use our test equipment every day and invite you to do the same.



System 8

Digital Torque Tester

Our most accurate digital torque tester with Fail Safe Engineering!



WARNING



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on page 57



The ultimate in torque tool calibration.

The SYSTEM 8 Digital Torque Tester is much more than a torque calibration unit that is accurate to +/- .25% of Indicated Value from 10% to 100% of capacity. It is a well-designed system engineered to turn uncertainties into certainties with:

- A wide working range from 2.5 inch oz to 2000 ft. lbs.
- Floating decimal point, 6 digit display is easy to read
- Highly visible display with 6 digit floating decimal point provides superior resolution.
- Fail Safe Engineering over capacity and alert tracking.
- Greater accuracy and durability with simplicity and ease of operation
- Selectable operation modes for testing all but impact tools.

Like all Sturtevant Richmond products, the System 8 meets or exceeds the following standards:

- ASME B107.300 - 2010 Electronic Tester, Hand Torque Tools
- ISO 5393 Rotary tools for threaded fasteners- products test methods.
- ASME B107.4M Driving and Spindle Ends for Portable Hand, Impact, Air, and Electric Tools (Percussion Tools Excluded).
- ISO 1773 Assembly Tools for Bolts and Screws – Driving Squares for Power Socket Wrenches and Hand Socket Wrenches.
- ISO 1774-2 Assembly Tools for Bolts and Screws – Driving Squares for power socket tools

System 8 display has a floating point decimal resolution showing six digits throughout. Combine that with an accuracy of 0.25% (indicated value) from 10% to 100% and System 8 capabilities give you control of your torque testing program.

The new System 8® line of Digital Torque Testers is ideal for interim or daily torque testing programs for clicker torque wrenches, camover torque tools, torque screwdrivers, and non-impact power tools.

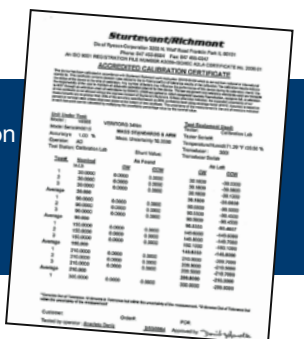
Features and Characteristics

- Tests in both clockwise and counterclockwise directions.
- Four modes of operation - Track, Peak, Initial Peak and Power Tool - provide excellent versatility.
- Units of measure include English, Standard International and Metric.
- 999 records that can be downloaded
- Works with Torque Tool Manager 4 for calibration/documentation.
- Red/Green LED indicates whether a measurement is within the target torque value.
- Includes FREE certificate of calibration from our ISO/IEC 17025 Accredited Laboratory!
- Includes 120-240 VAC to 6 VDC screw on power supply for security during power tool testing.
- Runs on four AA NiMH rechargeable batteries. Batteries sold separately. Quick charge unit is available.
- Includes a rugged protective case for storage and transit.
- Power Tool mode has ten filters and will accurately test all clutch type and pulse tools.

Ordering Information

Part No.	Model	Description
10600	System 8	System 8 Digital Torque Tester
10601	Transducer Switch Module	Transducer Switch Module

Includes FREE certification from our ISO/IEC 17025 Accredited calibration laboratory.



Static Transducers

TT, TT-QC, TT-L Series

Sturtevant Richmond is proud of our flexible transducers for the System 8 and our legacy System 4/5/6—with the legendary Sturtevant Richmond quality built in!

Sturtevant Richmond transducers now come in four designs; two flanged designs for those with existing systems that are expanding their line or using an SR Mechanical Loader, a Quick Connect design for use with our 1000 and 2000 pound capacity Mechanical Loaders, and a new “L” design that incorporates its’ own mounting bracket for rapid horizontal or vertical mounting.

To obtain additional information on these transducers and their use with current and legacy systems, visit. www.srtorque.com



TT-Series Transducers

- Traditional SR hex flange style
- Can be mounted to ML 250 and ML 600 Mechanical Loaders.
- Can be Mounted to Quad Plate for multiple mounting on ML 250.
- Requires detachable cable Part No. 10293. (Except TT 25IO, 1000 and 2000 Series)
- Smaller sizes (up to 400 in. oz. capacity) can be mounted to SSMB, STMB, or UMB brackets.
- Larger sizes (500 ft. lbs. and above) can be mounted on UMB L-bracket.



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TT Series			Torque Range			
Part No.	Model	Drive	in.ozs.	in.lbs.	cNm	kgf•Cm
10009*	TT 25IO	.25" Hex Male	2.5–25	0.16–1.6	1.77–17.7	0.18–1.8
10285	TT 10I	.25" Hex Male	16–160	1–10	11.3–113	1.15–11.5
Part No.	Model	Drive	in.lbs.	ft. lbs	Nm	kgf. Cm
10286	TT 50I	.25" Hex Male	5–50	.4–4	.56–5.6	5.6–57
10287	TT 100I	.375" Hex Male	10–100	.83–8.3	1.13–11.3	11.5–115
10288	TT 300I	.375" Hex Male	30–300	2.5–25	3.4–34	34.5–345
10289	TT80	.5" Square Female	96–960	8–80	10.8–108.5	110.6–1106
10290	TT150	.5" Square Female	180–1800	15–150	20.3–203.4	207.4– 2073.8
10291	TT250	.75" Square Female	300–3000	25–250	34–340	345.6–3456.4
Part No.	Model	Drive	ft. lbs.	Nm	Kgf. M	
10292	TT 600	.75" Square Female	60–600	81.3–813.5	8.3–83	
10026*	TT 1000	1" Square Female	100–1000	135.6–1355.8	14–138.2	
10027*	TT 2000	1" Square Female	200–2000	271.2–2712	28–276.5	

*Cable included. All other transducers require additional cable (P/N 10293).

TT-QC Series Transducers

- Quick Connect System
- Can be mounted to ML 1000 and ML 2000 Mechanical Loaders.
- Removal of adapter plate permits use with ML 250 (250 ft. lbs. capacity and below).
- Requires detachable cable Part No. 10293. (Except TT-QC 25IO, 1000 and 2000 Series)
- TT-QC 1000 and 2000 Series can also be used with ML 1000 and ML 2000 and feature permanently attached cables

TT-QC Series			Torque Range			
Part No.	Model	Drive	in.ozs.	in.lbs.	cNm	kgf•Cm
10211*	TT-QC 25IO	.25" Hex Male	2.5–25	0.16–1.6	1.77–17.7	0.18–1.8
10300	TT-QC 10I	.25" Hex Male	16–160	1–10	11.3–113	1.15–11.5
Part No.	Model	Drive	in.lbs.	ft. lbs	Nm	kgf. Cm
10301	TT-QC 50I	.25" Hex Male	5–50	.4–4	.56–5.6	5.6–57
10302	TT-QC 100I	.375" Hex Male	10–100	.83–8.3	1.13–11.3	11.5–115
10303	TT-QC 300I	.375" Hex Male	30–300	2.5–25	3.4–34	34.5–345
10304	TT-QC 80	.5" Square Female	96–960	8–80	10.8–108.5	110.6–1106
10305	TT-QC 150	.5" Square Female	180–1800	15–150	20.3–203.4	207.4– 2073.8
10306	TT-QC 250	.75" Square Female	300–3000	25–250	34–340	345.6–3456.4
Part No.	Model	Drive	ft. lbs.	Nm	Kgf. M	
10307	TT-QC 600	.75" Square Female	60–600	81.3–813.5	8.3–83	
10209*	TT-QC 1000	1" Square Female	100–1000	135.6–1355.8	14–138.2	
10210*	TT-QC 2000	1" Square Female	200–2000	271.2–2712	28–276.5	

*Cable included. All other transducers require additional cable (P/N 10293).

TT-L Series Transducers

- Built-in L-bracket for mounting vertically or horizontally.
- Requires detachable cable Part No. 10293.
- Mounting holes drilled for 5/16” bolts, 3.25” on center.

TT-L Series			Torque Range			
Part No.	Model	Drive	in.ozs.	in.lbs.	cNm	kgf•Cm
10257	TT-L 10I	.25" Hex Male	16–160	1–10	11.3–113	1.15–11.5
Part No.		Drive	in.lbs.	ft. lbs	Nm	kgf. Cm
10258	TT-L 50I	.25" Hex Male	5–50	.4–4	.56–5.6	5.6–57
10259	TT-L 100I	.375" Hex Male	10–100	.83–8.3	1.13–11.3	11.5–115
10260	TT-L 300I	.375" Hex Male	30–300	2.5–25	3.4–34	34.5–345
10261	TT-L 80	.5" Square Female	96–960	8–80	10.8–108.5	110.6–1106
10262	TT-L 150	.5" Square Female	180–1800	15–150	20.3–203.4	207.4– 2073.8
10263	TT-L 250	.75" Square Female	300–3000	25–250	34–340	345.6–3456.4
Part No.	Model	Drive	ft. lbs.	Nm	Kgf. M	
10264	TT-L 600	.75" Square Female	60–600	81.3–813.5	8.3–83	

*Cable included. All other transducers require additional cable (P/N 10293).



WARNING



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- Read safety precautions on page 57



Torq-Tronics 2®

Digital Torque Tester Series



The new Torq-Tronics 2 with Fail Safe Engineering takes your quality to a new level.

Accuracy of 0.5% (indicated value) from 10% to 100% of capacity and Torq-Tronics 2 capabilities provide greater control of your torque testing program.

The new Torq-Tronics 2® line of Digital Torque Testers is ideal for interim or daily torque testing programs for clicker torque wrenches, camover torque tools, torque screwdrivers, and non-impact power tools.

- Greater accuracy and durability with simplicity and ease of operation
- Highly visible display in any lighting
- 6 digit floating decimal point for superior resolution

Like all Sturtevant Richmond products, Torq-Tronics 2 meets or exceeds the following International and American standards:

- ASME B107.300 - 2010 Electronic Tester, Hand Torque Tools
- ISO 5393 Rotary tools for threaded fasteners- Performance test methods.
- ASME B107.4M Driving and Spindle Ends for Portable Hand, Impact, Air, and Electric Tools (Percussion Tools Excluded).
- ISO 1773 Assembly Tools for Bolts and Screws – Driving Squares for Power Socket Wrenches and Hand Socket Wrenches.
- ISO 1774-2 Assembly Tools for Bolts and Screws – Driving Squares for power socket tools

Features and Characteristics

- Accuracy of +/- .5% of Indicated Value from 10% to 100% of rated capacity. Meets or exceeds requirements of ASME B107.300-2010.
- Tests in both clockwise and counterclockwise directions.
- Four modes of operation - Track, Peak, Initial Peak and Power Tool.
- Units of measure include English, Standard International and metric.
- Units of 300 inch-pound (34 Nm) capacity and below are optimized for bench mounting; larger units may be mounted vertically or horizontally for better safety and efficiency.
- With only 8 buttons Torq-Tronics 2® is amazingly simple to operate!
- Memory stores up to 999 records that can be downloaded to Hyper-Terminal or terminal type program or serial logger program included on the USB stick to create testing reports and data storage.
- Four line vacuum florescent display (VFD) is easy to read.
- Red/Green LED indicates whether a measurement is within the target torque value.
- Built with Fail Safe Engineering.
- Includes 120-240 VAC to 6 VDC screw on power supply for security during power tool testing.
- Runs on four AA NiMH rechargeable batteries. Batteries sold separately. Quick charge unit is available.
- Includes a rugged protective case for storage and transit.
- Power Tool mode has ten filters and will accurately test all clutch type and pulse tools.

Part No.	Model Designation	Description	Drive Size
10691	Torq-Tronics 2 10I	Digital Torque Tester 1 Nm / 10 in.lb	1/4"M Hex
10692	Torq-Tronics 2 50I	Digital Torque Tester 6 Nm / 50 in.lb	1/4"M Hex
10693	Torq-Tronics 2 100I	Digital Torque Tester 12 Nm / 100 in.lb	3/8"M Hex
10694	Torq-Tronics 2 300I	Digital Torque Tester 34 Nm / 300 in.lb	3/8"M Hex
10695*	Torq-Tronics 2 80	Digital Torque Tester 109Nm / 80 ft.lb	1/2"F Sq.
10696*	Torq-Tronics 2 150	Digital Torque Tester 201 Nm / 150 ft.lb	1/2"F Sq.
10697**	Torq-Tronics 2 250	Digital Torque Tester 339 Nm / 250 ft.lb	3/4"F Sq.
10698**	Torq-Tronics 2 600	Digital Torque Tester 814 Nm / 600 ft.lb	3/4"F Sq.

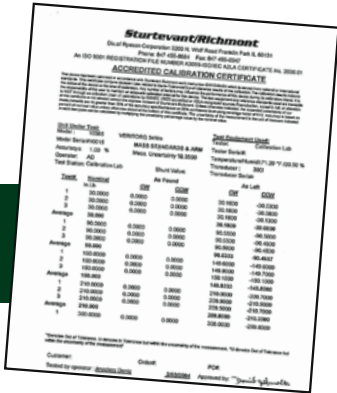
*Comes with .375" or 3/8 inch adapter at no additional charge. - Part number 870777
** Comes with .5" or 1/2 inch adapter at no additional charge. - Part number 870778

Part No.	Model Designation	Description
870776	Adapter, .25" F	Adapter, .25" Female Square to .375" Male Square
870777	Adapter, .375 F	Adapter, .375" Female Square to .5" Male Square
870778	Adapter, .5" F	Adapter, .5" Female Square to .75" Male Square
816261	4 AA NiMH Batteries	4-pack, AA 2300 mAh rechargeable NiMH batteries
21259	Battery Quick Charge Unit	AC powered external battery charging unit & 4 AA NiMH batteries
10599	TTM 4.0	Torque Tool Manager Software
10230	Bracket, Single	Single Stand, holds one Torq-Tronics upright
10231	Bracket, Dual	Dual Stand, holds two Torq-Tronics units upright

⚠ WARNING

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Includes FREE calibration certificate from our ISO/IEC 17025 Accredited Laboratory.



Rundown Fixtures

RDF

Series



Rundown fixtures assist in testing the output of pulse, stall and clutch power tools. Neither our testers nor our rundown fixtures are designed or suited for impact tools.

Testing pulse and clutch powers tools are accomplished by allowing the tool to achieve rotational speed prior to torque measurement. The rundown fixtures all include components to emulate either a hard or medium joint, thus assuring greater test accuracy.

The rundown fixtures work with Torq-Tronics 2 (+/- .5% Indicated Value) and our new System 8 (+/- .25% Indicated Value) Digital Torque Testers.

Filters and Testing

Both Torq-Tronics 2 and the System 8 digital torque testers have power tool testing filters built. Matching tool capacity, run-down fixture capacity, and the transducer capacity is the basis for creating accurate test results.

Part No.	Model Designation	Description	Drive Size
10349	RDF 1 Nm	Rundown Fixture, 1 Nm/10 in lb capacity	1/4" Female Hex
10350	RDF 3 Nm	Rundown Fixture, 3 Nm/25 in lb capacity	1/4" Female Hex
10351	RDF 6 Nm	Rundown Fixture, 6 Nm/50 in lb capacity	1/4" Female Hex
10352	RDF 17 Nm	Rundown Fixture, 17 Nm/150 in lb capacity	3/8" Female Hex
10353	RDF 34 Nm	Rundown Fixture, 34 Nm/300 in lb capacity	3/8" Female Hex
10354	RDF 34 Nm	Rundown Fixture, 34 Nm/300 in lb capacity	1/2" Male Square
10355	RDF 68 Nm	Rundown Fixture, 68 Nm/600 in lb capacity	1/2" Male Square
10356	RDF 109 Nm	Rundown Fixture, 109 Nm/960 in lb capacity	1/2" Male Square
10357	RDF 204 Nm	Rundown Fixture, 204 Nm/1800 in. lb. capacity	1/2" Male Square
10358	RDF 339 Nm	Rundown Fixture, 339 Nm/3000 in. lb. capacity	3/4" Male Square

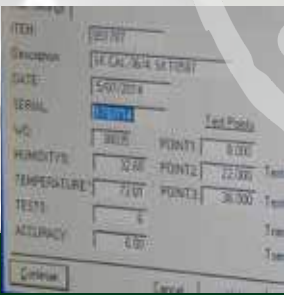


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Torque Tool Manager Software

TTM 4.0

Calibration & Certification Software



Torque Tool Manager 4.0 (TTM 4.0) is calibration and certification software specifically engineered to work with our System 8, Torq-Tronics 2 or your legacy System 4/5, System 6, or Torq-Tronics Digital Torque Testers!

TTM 4.0 software will fulfill your TS 16949 and ISO calibration requirements far more cost-effectively than manual record keeping systems!

- Choose from standard calibration routines or customize your own to assure proper test procedures and accuracy - every time! TTM is flexible; it accommodates the full range of manual and power torque tools.
- TTM 4.0 error-proofs calibration procedures and virtually eliminates retesting due to operator error! TTM 4.0

downloads the proper test protocol to your SR tester and sets the tester up for the tool. It will only accept results that are in line with the test protocol, so errors resulting from failure to follow the programmed procedure are automatically rejected.

- TTM 4.0 keeps records for each tool, including calibration date, serial number, tester and transducer serial numbers, operator, "As Found" and "As Left" test results, NIST traceability numbers, and all other data required for ISO and QS compliance!

Order the TTM 4.0 using part number 10599.

Contact customer service via email at customerservice@sr torque.com

Mechanical Loaders

ML Series

A mechanical loader is the perfect accessory to increase the repeatability and productivity of the System 8 or legacy System 4/5/6! The drive system for each loader assures 90 degree load application, reducing operator-induced test error. The loaders' mechanical advantage reduces the operator effort required to attain and sustain torque during the calibration process. The QC Series transducers include adapter plates for use with the ML 1000 and ML 2000 loaders, and make changeover a matter of seconds. SR mechanical loaders meet or exceed requirements for ASME B107.29M Type 1 loaders.

The Quad Plate permits mounting up to four transducers to the ML 250 or ML 600 to facilitate changeover. When coupled with the Transducer Switch Module both mechanical and electrical changeover can be accomplished in seconds!



Mechanical Loaders & Tester Accessories

Part No.	Model Designation	Description	Drive Size
10168	ML 2000	Mechanical Loader, 2000 ft.lb./2710 Nm capacity	1/4" Female Hex
10167	ML 1000	Mechanical Loader, 1000 ft.lb./1355 Nm capacity	1/4" Female Hex
10431	ML 600	Mechanical Loader, 600 ft.lb./813 Nm capacity	1/4" Female Hex
10160	ML 250	Mechanical Loader, 250 ft.lb./338 Nm capacity	3/8" Female Hex
10208	Lg. Cart	Roller Cart for ML 1000, 64"W x 30"D x 30"H	3/8" Female Hex
10161	Std. Cart	Roller Cart for ML 250, 46"W x 24"D x 46"H	1/2" Male Square
10308	Quad Plate	Rotating plate attaches four -P Transducers to ML 250.	1/2" Male Square
10601	Switch Box	Electrically connects four transducers to System 8	1/2" Male Square

We supply the weights, arms, wheels, and levers for the top calibration professionals. To known uncertainty budget, we can provide you weights corrected for your specific gravity. For more information see our website, the Newton Metre channel on YouTube, or worldwide please call: +1-847-455-8677 to schedule your free consultation.



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Digital Torque Tester

VeriTorg®

Series



All VeriTorg® Digital Torque Testers Include:

- 120 VAC or 240 VAC to 6 VDC Converter
- Custom Plastic Carrying/ Shipping Case
- Serial Cable
- Quick Start Instructions
- 1-Year Warranty on Electronics
- Includes FREE certification from our ISO/IEC 17025 Accredited calibration laboratory.



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- Operation Modes: Track, Peak, and Initial Peak accommodates testing clicker, cam-over, and torque screwdriver testing.
- Clockwise and counter-clockwise test capability supports daily verification, immediate results, and eliminates un-needed calibrations.
- +/- 1% Indicated Value Accuracy from 10% to 100% of capacity.
- Units of measure include English, Standard International, and metric.
- Integral "L" bracket for horizontal or vertical mounting.
- Electronics Module rotates in two planes.
- Large LCD and rotating Electronics Module make it easy to read regardless of wrench length or technician height.
- Serial port for immediate or batch data transfer with terminal program
- Easy programming via our button control panel
- Meets or exceeds ASME B 107.29M.
- Includes FREE calibration certificate from our ISO/IEC 17025 Accredited Laboratory.
- Made in USA by ISO 9001 manufacturer!
- Rugged protective case and power supply included.
- Savings in calibration fees can pay for tester in less than a year.

Part No.	Model	Description
10363	VeriTorg® 6 Nm/50 in.lbs.- 120 VAC	.25" Male Hex
10364	VeriTorg® 12 Nm/100 in.lbs.- 120 VAC	.375" Male Hex
10365	VeriTorg® 34 Nm/300 in.lbs.- 120 VAC	.375" Male Hex
10366	VeriTorg® 109 Nm/80 ft.lbs.- 120 VAC	.5" Female Square*
10367	VeriTorg® 201 Nm/150 ft.lbs.- 120 VAC	.5" Female Square*
10368	VeriTorg® 339 Nm/250 ft.lbs.- 120 VAC	.5" Female Square*
10369	VeriTorg® 814 Nm/600 ft.lbs.- 120 VAC	.75" Female Square**
10372	VeriTorg® 6 Nm/50 in.lbs.- 240 VAC	.25" Male Hex
10373	VeriTorg® 12 Nm/100 in.lbs.- 240 VAC	.375" Male Hex
10374	VeriTorg® 34 Nm/300 in.lbs.- 240 VAC	.375" Male Hex
10375	VeriTorg® 109 Nm/80 ft.lbs.- 240 VAC	.5" Female Square*
10376	VeriTorg® 201 Nm/150 ft.lbs.- 240 VAC	.5" Female Square*
10377	VeriTorg® 339 Nm/250 ft.lbs.- 240 VAC	.5" Female Square*
10378	VeriTorg® 814 Nm/600 ft.lbs.- 240 VAC	.75" Female Square**

* Includes .5" M Square to .375" F Square Adapter.

** Includes .75" M Square to .5" F Square and .5" M Square to .375" F Square adapters.

SR Product Warranties

Warranty

Sturtevant Richmond Division of Ryeson Corporation warrants all products in this catalog against defective material and workmanship for the periods given in the table. Upon inspection, Sturtevant Richmond shall have the option to repair or replace the defective product and such repair or replacement, free of charge, shall be the Customer's sole and exclusive remedy. Sturtevant Richmond Division of Ryeson Corporation furnishes this limited warranty in lieu of all other warranties, express or implied, including warranties of merchantability and fitness for a particular purpose. Any and all warranties shall be void as to products damaged or rendered unserviceable while in the custody of the customer or third parties. This includes but is not limited to negligence, misuse, modification, repair or alteration of the product.

General Information

Certification

All SR torque testers, torque wrenches (except dial wrenches and preset tools) and torque screwdrivers are certified in our ISO/IEC 17025:2005 A2LA accredited laboratories. Below is a flow chart depicting SR traceability to the National Institute of Standards and Testing (N.I.S.T.) which has reciprocity with all major standards bodies.

Specifications and Dimensions

All specifications and dimensions contained in this catalog are subject to change without notice. Please contact the factory for the latest information.

Please note: Use only NiMH 1.25 volt rechargeable batteries in your test instruments. Using 1.5 volt alkaline disposable batteries will damage your test instrument or create inaccurate readings, damage your torque testing/calibration instrument and VOID your warranty.

Product Family Warranty Duration (from date of purchase)

Torque Transducers	1 year
Torque Testers	1 year
Mechanical Loading Systems	5 years
Calibration Arms	5 years
Load Platforms, Weights	5 years
Calibration	90 days
Software	90 days
All other products	1 year

Liability

Sturtevant Richmond Division of Ryeson Corporation shall not be liable for any damages, incidental, consequential, or otherwise, or commercial loss from any causes, nor for personal injury or property damage. Sturtevant Richmond Division of Ryeson Corporation's liability is limited to the repair or replacement of defective material or workmanship of the product.

Safety Torque Testers



- Calibration weights can cause tester and its base to tip
- Wear safety goggles (users and bystanders).**
- Counterbalance or anchor mounting base.**
- Tipping base can cause injury.*

Factory Repair & Calibration

Torque wrenches, torque screwdrivers, torque testers – all are precision measurement instruments. You rely on each to assure the quality of your products, which means that tool and tester uptime and calibration are critical to your business.

We offer our customers factory-quality repair using original SR parts, and calibration in our ISO/IEC 17025 Accredited Laboratory. There is no better level of repair available anywhere, and you can rely on our calibration process to assure you are working with accurate tools and testers.

Contact us by phone, fax, or e-mail to discuss your repair and calibration needs for all SR products.

World wide: +1 847-455-8677
In US only, toll-free: 800-877-1347
Fax: 847-455-0347
email: customerservice@sr torque.com

Torque Wrenches



- Overtorquing can cause breakage Wrench can break while breaking fasteners loose
- Force against flex stops on flex head torque wrenches can cause head breakage
- An out-of-calibration torque wrench can cause part or tool breakage
- Wear safety goggles (user and bystanders).**
- Do not exceed rated torque.**
- Do not use a torque wrench to break fasteners loose.**
- Do not force head of flex head torque wrenches against stops**
- Periodic recalibration is necessary to maintain accuracy.**
- Broken tools can cause injury.*

Organizations

SR is a member of ISA the Industrial Supply Association and HTI the Hand Tool Institute.





ISO 9002 Registered August 19, 1994

ISO 9001 Registered May 8, 2001

ISO 17025 Accredited October 23, 2003

★ Headquarters

● Sales Offices

● Sales Representatives

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