



***Sturtevant  
Richmont®***

# WHEN TOOL FAILURE IS NOT AN OPTION

Managing the Assembly Sequence  
with Wireless Torque Tools



## WE'VE KEPT THE WORLD WORKING FOR MORE THAN 75 YEARS

From the depths of the ocean to outer space, from racetracks to manufacturing plants, Sturtevant Richmond is working in every tough environment where tool failure is not an option.

In 1924, Walter P. Chrysler licensed Paul Sturtevant to manufacture and sell Chrysler's newly invented torque wrench. That was the start of the torque tool and error proofing industry.

**Since then, Sturtevant Richmond has been the first name in torque tools and systems.**

We got there by investing millions to bring you the most innovative and dependable products on the market. We stay there by continuing to invest in our people, our processes, and our products, so that we deliver tools that are durable, accurate, and intuitive.

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***Sturtevant Richmond:*** The Tools You Trust.

Visit us online at [www.srtorque.com](http://www.srtorque.com)  
or call worldwide 1-847-455-8677.

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Your productivity and your success are important to us. When you use Sturtevant Richmond tools, you become part of our family and we'll take care of you every step of the way. Not only do we build tools to meet your most demanding needs, we support you with best-in-class customer service. You can trust Sturtevant Richmond to keep your employees productive and your operation running smoothly.



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### Torque holds your world together

Just like we've done for the last 75 years, we stand behind the quality of our tools, and we're continuously working behind the scenes on your behalf to bring you the most innovative tools on the market. We're in it with you for the long haul: our tools will be there as you grow your business, helping you reduce waste, increase productivity, and improve your processes. Our reputation and your success depend on it.



## STURTEVANT RICHMONT TOOLS: THE QUALITY, DURABILITY, AND ACCURACY YOU'VE COME TO EXPECT

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### Innovation is in our DNA

Wireless technology revolutionized the workplace. Sturtevant Richmond was at the forefront of innovations that helped to shape the assembly process as we know it today. While industry bloggers were predicting wireless RF tools, Sturtevant Richmond was patenting and launching them.

Sturtevant Richmond torque process monitors guide workers, validate work performed, and provide the same data you get from wired systems. We're the experts in radio-equipped tools that communicate with a 21st century torque process monitor.

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We understand the investment you make in your tools. You need them to be dependable, to help your employees keep your assembly moving quickly and error-free, and perhaps most important, you expect them to last.

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From the simplest torque wrenches to the most advanced, Ethernet-capable multi-tool torque system process monitors, Sturtevant Richmond provides the accuracy, reliability, and durability you expect from the market leader.

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Backed by our stringent standards, every tool we build is tested to withstand the most challenging conditions it may encounter. And because every tool we make is calibrated and can be certified upon request, you can have the utmost confidence that our tools will stand up to the rigors of heavy industry and assembly usage.





*Left to Right:*

*Don Reynertson VP Sales*

*Ray Reynertson, Chairman and CEO*

*John Reynertson, Chief Operating Officer*

## WHAT ARE WIRELESS TORQUE ASSEMBLY SYSTEMS?

Over the last 100 years the biggest assembly challenge has been having workers follow the designated sequence and validating the job was done properly. That challenge is easier using electric tools. Although a less expensive option, turning a wrench and tugging a cable at the same time is neither efficient nor ergonomic for the user. Cables get damaged and the tool doesn't work. There are safety factors as well.

Because hand tools aren't attached for any electrical reason, there has been no way to guide the workers and validate the work was done — until now. Wireless torque process monitor systems provide the guidance and compliance you seek so you can effectively manage the assembly sequence.

### HOW DOES IT WORK?

Our wireless torque process monitor system increases throughput and reduces rework and warranty costs, while improving quality.

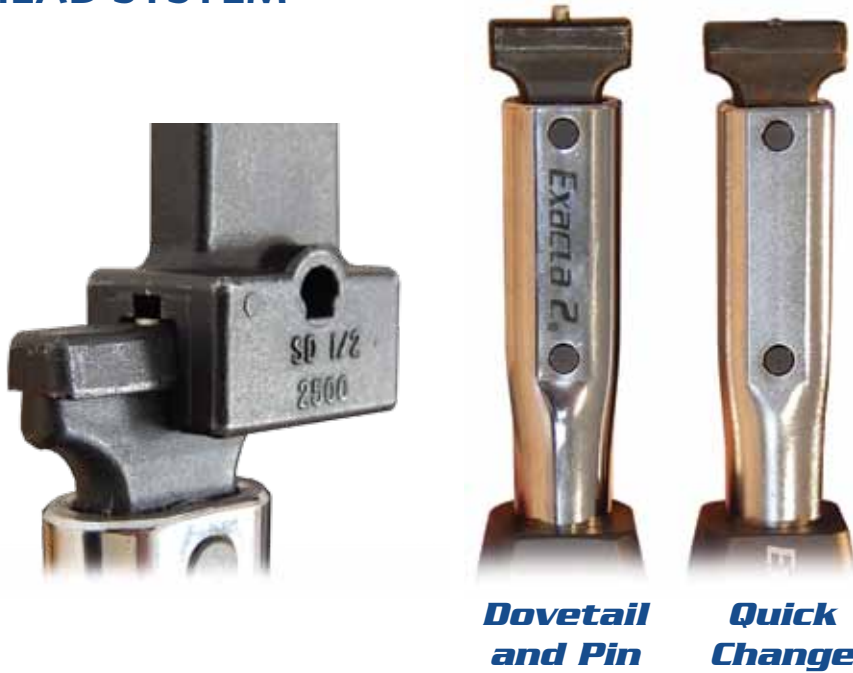
- Radio-equipped, intelligent tools communicate with the torque process monitor.
- The process monitor organizes parameters (or P-Sets) into jobs.
- A tool is assigned to a parameter.
- The torque process monitor guides the worker with visual and auditory feedback using a display screen and buzzer.

- The process monitor only recognizes communication from the tool associated with the active parameter.
- Batch total and batch count of fasteners in the active parameter is displayed on the screen.
- The status of each fastener is displayed.
- When the work for the parameter is completed, the torque process monitor automatically moves on to the next parameter.

The Global 400 operates with 4 torque application tools and 4 drive and hold tools simultaneously. This is a true work station solution.

If you assemble sophisticated, highly customized products, have takt times measured in hours or days, and need a way to bring hand tool data and performance into the 21st century, Sturtevant Richmond has the economical wireless torque process monitor solution to meet your needs.

# INTERCHANGEABLE HEAD SYSTEM



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**We set the bar for quality, standards, and compliance in everything we do:**

- First certified in 1994
  - First US torque tool manufacturer to be ISO 9001:2008 Certified
  - ISO/IEC 17025:2005 Certified
  - A2LA Reference Lab
  - First US torque tool company to be RoHS compliant
  - All heads are one piece cast and fit on all of our wrenches
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Richmont founder Frank Livermont was awarded the first patent on interchangeable heads for wrenches in 1958.

Our patented interchangeable head system is easy to use, durable, and safe. The dovetail wrenches now come with two options, depending on your specific requirement, and all use the Sturtevant Richmont dovetail connection for exceptional strength and rigidity.

## **LEGACY SET PIN/DOVETAIL:**

Requires a screwdriver or CART tool to change system heads.

- All heads are one piece cast and fit on all of our wrenches
- Assemblers are pulling on fasteners from all different angles
- Applying torque values of more than 250 ft/pounds or more

Our one-piece interchangeable heads work on both the Quick Change system and the Legacy set pin/dovetail system: you can use both systems with the same head.

## **QUICK CHANGE:**

Use your thumb to apply pressure to the side of the head to push it off the dovetail to change heads.

- All heads are one piece cast and fit on all of our wrenches
- Assemblers work at a bench where all the torque applications are parallel to the floor
- They change heads frequently
- All the torque values are less than 250 ft/pounds

## GLOBAL 400, GLOBAL 8-ETHERNET AND GLOBAL 8

Our process monitors provide clear communication of tightening and process status to the operator and update your system information with every torque event. Manage up to 16 application tools and 8 hold and drive tools with the Global 8-Ethernet and Global 8 in any combination of PST 2000-equipped air tools, 1100-Series Exacta 2, and 2.4 GHz SLTC-FM preset torque wrenches.

Whether your line uses Ethernet communications or 24 VDC systems, there is a Global series of torque process monitors that fits your needs.



Scan or click this code to watch an overview of the Global 400

Feature	Global 400	Global 8-Ethernet	Global 8
Maximum number of torque tools controlled in any combination	16 application tools 8 holding tools	8	8
Works with 1100-Series Exacta 2 Digital Torque Wrenches	Yes*	Yes	Yes
Works with 1200-Series Exacta 2	Yes	No	No
Works with SLTC-FM 2.4 GHz Preset Torque Wrenches	Yes	Yes	Yes
Works with PST 2000 Pressure Sensor/Transceiver for auto-shutoff pneumatic tools	Yes	Yes	Yes
Accepts variable torque data	Yes	Yes	Yes
Accepts attribute torque data	Yes	Yes	Yes
Downloads specifications to tool	Yes	Yes	Yes
Provides internal task sequencing	No	Yes	Yes
Task sequencing changes accepted from external commands	Yes	Yes	Yes
Large front panel display shows current tool and current status of tightening	Yes	Yes	Yes
Soft-key programming on front panel	Yes	Yes	Yes
Large LED's for Cycle Accept, Cycle Reject & Batch Complete, augmented by Beeper	Yes	Yes	Yes
2.4 GHz radio communication with tools at up to 40' (13m) distance (OUR X-BEE/OUR X-BEE Pro Transceiver)	Yes	Yes	Yes
USB connector for computer communications	Yes	Yes	Yes
14 character, 2 line Human-Machine Interface for Ethernet status	Yes	Yes	No
RJ-45 Network Connector	Yes	Yes	No
9 pin serial connectors for serial printer and bar code reader	Yes	Depending on model	Yes
Interface with Global 400 Manager or Global 8 Manager utility software	Yes	Yes	Yes

\* 1100-Series Exacta 2 works with Global 400 in a single operation mode.

# THE GLOBAL 400 ARCHITECTURE INFORMATION

The Global 400 takes a giant leap into being a station dedicated product that organizes, directs, controls, multiple types of tools, and the people within the work cell. It also brings a powerful networking capability not previously available in the Global 8 and the Global 400.

## Benefits:

- Less rework and lower warranty costs to increase profits.
- Increased throughput and increased productivity.
- Very short ramp up time so training costs are very small.
- Pairing tools with a Global 400 is as easy as providing power to the tool.
- Helps provide continual guidance for new workers for improved performance and shorter learning curve.
- Gain complete control over the assembly process where hand torque tools and pneumatic tools are used to achieve your quality goals.
- Great for flexible assembly lines where multiple products are assembled with a variety of optional components and configurations.
- Flexibility in changing a single element of a process or the entire process with a few keystrokes in a very intuitive, easy to use software package.
- Stand-alone or connect with your MES in multiple protocols via Ethernet or 24 Volt I/O and PLC.
- Simultaneous Ethernet communication allows for production control via MES and data acquisition through GlobalHost or ToolsNet.
- Units can be chained together via one Ethernet drop reducing installation costs.
- No MES? Stand alone operation using a bar code scanner to capture product serial number, select parameters, jobs, and access event log for historical documentation.

## Features:

- Tools are learned into a tools bank. These tools may then be paired to a parameter set that can be used individually or combined into groups and or jobs.
- Global400 Manages up to 16 torque tools and 8 "holding tools\*\*" in up to 100 parameter sets.
- 100 Parameters can be organized into 100 Groups. (Capacity up to 4 parameters per group).
- A group consists of two, three, or four parameters organized together for simultaneous use in production.



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**To get more information or schedule a demo contact your Sturtevant Richmond network sales professional.**

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- Groups and individual parameters can be organized into jobs.
- A job is a predefined, preset sequence of events (parameters and groups) in an assembly operation. (Capacity is a combination of 35 parameters or groups).
- Jobs, groups, or parameter sets can be accessed by keypad, I/O, barcode scan, or network assignment and may represent a complete build routine for a mixed product build line.
- When tools are organized into groups, up to 4 parameter tool pairings and 4 holding tools can operate simultaneously or in any order. Global 400 indexes to next step in job after all 4 tool tasks are complete.
- The Global 400 has two separate event logs. The memory capacity for network events including power up, password changes, is 20,000 events. There is a 10,000 item capacity for logging all torque application data. Data can be exported.
- All reporting includes date/time stamped torque event results plus the unit of measure, attribute/actual torque value (depending on tool capability) job number, unit number, event number etc. Reporting is completely configurable with the Global 400 manager software.

## The Global 400 will work with:

- Our SLTC 2.4 FM click wrenches
- The 1100 series wrenches with firmware 010 or higher.
- The developing 1200 Series Exacta 2 torque wrenches.
- The PST 2000 pneumatic tool qualifiers.
- SR holding or "Hold and Drive" tools.

\*\*Holding tools: Some torque applications (especially with hydraulic connections) are best done using two tools. A torque wrench is used to tighten the fastener and the other wrench is used to hold the mate so the fastener can be fastened.

# THE GLOBAL 8 SERIES



## Features:

- Up to eight (8) torque tools controlled in any combination
- Integrates 1100-Series Exacta® 2 Digital Torque Wrenches
- Integrates PST 2000 Pressure Sensor/Transceiver for ported pulse tools
- Integrates 2.4 GHz Wireless Preset Torque Wrenches
- Manages and communicates variable torque data
- Manages and communicates attribute torque data
- Downloads specifications to tools
- Performs task sequencing
- Accepts task sequencing from external commands
- Display shows current tool and current tightening status
- LED's for Cycle Accept, Cycle Reject, and Batch Accept
- 10-Pin I/O port for 24 VDC signals and relays
- Beeper augments visual communication
- Soft key programming on front panel
- 2.4 GHz RF communication distance up to 30' (10m)

Global 8 process monitors work with up to eight PST 2000-equipped ported pulse tools, 1100-Series Exacta® 2 digital torque wrenches, 2.4 GHz preset torque wrenches — in any combination.

A large and readily visible display ensures the operator is aware of the status of each tightening, the progress through each batch of fastenings, the correct tool for the currently active fastener, and other information required to perform proper fastening.

The Global 8-Ethernet process monitors all have Ethernet ports, and one of the four available communication protocols pre-installed at the factory. Available protocols include: Open Protocol, Ethernet IP, PFCS, and ToolsNet. The lower display and keypad provide a Human-Machine Interface for programming elements of the communication.

Further, these units all have relays and a port for connection to your 24 VDC control system, and are capable of fixed or variable sequencing if desired.

When multiple tools of multiple types, or many tools of the same type must be used at a single cell or station, one of the Global 8-Ethernet family of process monitors is likely the optimum process monitor for that location.

Part No.	Model	Description
10473	Global 8 Ethernet IP	Global 8 Process Monitor with Ethernet card and Ethernet IP
10476	Global 8 PFCS	Global 8 Process Monitor with Ethernet card and PFCS
10477	Global 8 Open Protocol	Global 8 Process Monitor with Ethernet card Open Protocol
10479	Global 8	Global 8 Process Monitor with No Ethernet card
10494	Global 8 ToolsNet	Global 8 Process Monitor with Ethernet card and ToolsNet



## UNDERSTANDING THE GLOBAL SERIES PROCESS MONITORS

The Global 8 and Global 400 process monitors provide a variety of solutions for workstation efficiency and control for hand tools.

Making highly complex assemblies can be difficult. Having to customize those assemblies makes it more challenging. How do you error proof those processes while using hand tools?

Tools are paired with the process monitor and matched to a parameter. When that parameter is active the tool that is matched to that parameter is active. The process monitor guides the assembly sequence and both the monitor and the tool provide visual feedback on the status of each fastener. The process monitor can communicate with an MES, a PLC, or operate in a standalone function.

The Global 8 process monitor operates with one parameter and one tool at a time. The Global 400 can organize parameters into groups and operate with up to four (4) application tools AND four (4) holding tools simultaneously.

The Global Series of process monitors provide the flexibility you need to gain full control over your processes. You get so much control that you can harden the processes so you consistently get increased throughput while cutting rework.

Reporting from the Global Series is robust, configurable and downloadable into several formats. To learn more ask your Sturtevant Richmond sales professional.

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**In addition to all the standard features, each Global 8 variation has it's own special capabilities.**

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Need to connect with your MES via Ethernet?

### ***Global 8- Ethernet IP***

**Features:**

- This process monitor easily integrates with your existing Ethernet IP program.

### ***Global 8- Ethernet PFCS***

**Features:**

- Easy plug and play installation.
- The PFCS has different ports for connecting to the MES. Some plants still use rs 485 serial communication and the G 8 converts it to Ethernet. The G 8 ToolsNet and open protocol have serial ports to connect to a serial printer which are another way of collecting data.

### ***Global 8- Open Protocol***

**Features:**

- Communicate parameter and sequence information using Open Protocol commands.
- Easily integrates into your existing system.

Using Toolsnet? We speak your language.

### ***Global 8- Toolsnet***

**Features:**

- Enhance the power of Toolsnet by capturing the same information from hand tools that you get from electric tools.
- Dissimilar tools, one data base.

Model	Supervisory Control	Data Acquisition
Basic	Global 8 Sequencing   PLC via 24 Volt I/O	PLC to MES USB port to local computer
PFCS	Global 8 Sequencing   PLC via 24 Volt I/O	Ethernet to MES Serial Port output
Open Protocol	Global 8 Sequencing   PLC via 24 Volt I/O   Ethernet   Barcode scanner*	Ethernet to MES
ToolsNet	Global 8 Sequencing   PLC via 24 Volt I/O   Barcode scanner	ToolsNet

## **1100-Series Exacta® 2 Digital Torque Wrench**



The 1100-Series Exacta 2 torque wrench incorporates everything you could ask for into a single, easily programmed, and user-friendly package.

### **Features:**

- +/- 1% indicated value accuracy from 20% to 100% of capacity in both CW and CCW directions
- Selectable peak and residual torque modes
- Large high-contrast LCD displays mode, unit of measure, target torque value, OK/NOK, current torque value
- Yellow/green/red color scheme on LCD turns yellow when user specification is being approached, green when the specified torque is being applied, and red if the maximum specification is exceeded
- LED lens on back of tool displays color scheme so it is visible even in applications where the LCD is not
- Uses XBee 2.4 GHz RF radios for reliable communication and long battery life
- Use AA Rechargeable NiMH Batteries Only
- Works with Global 8 and Global 400 one parameter and wrench at a time. The new 1200-Series Exacta 2 works with the Global 400 in multiple tool operation
- See page 14 for Exacta 2 part numbers.

## **2.4 GHz Wireless Clicker-Type Preset Torque Wrenches**



The SLTC-FM 2.4 GHz family of tools is based on the proven Sturtevant Richmond lineup of preset torque wrenches. These solid performers are the backbone of error-proof torque application for many leading manufacturers.

### **Features:**

- Accuracy of +/- 4% of preset value from 20% to 100% of capacity meets or exceeds requirements of ASME B107.14 and ISO 6789
- Extremely strong and durable patented dovetail system works with any of the Sturtevant Richmond interchangeable heads
- Monitors time in the "clicked" position to provide an "OK/NOK" tool use evaluation for every fastener it is used on
- Provides immediate on-tool feedback to operator through LED display
- Provides immediate radio communication of torque status to process monitor, which also displays result
- Dovetail and flattened body provide excellent fastener access in constrained-access applications
- Compared to other designs, the flattened body provides superior support and guidance for mechanism resulting in better accuracy and greater durability.
- Tamper-resistant design discourages unauthorized torque setting changes
- Lightweight and cushion grip for superior ergonomics
- Excellent audible and tactile impulse when preset torque is achieved
- See page 14 for SLTC-FM 2.4GHz part numbers.

## ***PST 2000 Pressure Sensor/Transceiver***



The PST 2000 works with ported auto-shutoff tools to create a profile of the air pressure over time during rundown and shutoff. The profile for a known conforming rundown and tightening is stored on the PST 2000, and all subsequent uses are compared to the profile. Conforming tightenings result in immediate feedback to the operator via an LED display, transmission to the Global Process Monitor, and confirmation on the display and LED's on the Process Monitor unit.

### **Features:**

- Works with ported automatic shutoff pneumatic tools, including clutch and pulse types
- Works with the entire Global family to convert a known "good" tightening into specifications, then compares subsequent tightenings of that joint to the specifications
- LED display provides immediate feedback on the PST of the "OK/NOK" attribute status to the operator for each use of the tool
- Provides immediate radio communication of the status and data to the Global Family for display, tracking and I/O use (including the Global 400)
- CE and RoHS compliant
- Rechargeable NiMH 2100 mAh for extended periods between charging; battery can be recharged 500+ times. Part number 21258.
- Data from each tightening can be graphed and displayed on the Global 8 and Global 400
- Part numbers:  
PST 2000 AC 10498  
PST 2000 DC 10499

## ***SLTC-Series Hardwired Preset Torque Wrenches***



Your PLC and our SLTC-Series hard-wired wrenches offer you both control and flexibility to design your own system.

### **Features:**

- +/- 4% Indicated Value Accuracy from 20% to 100% of capacity in the clockwise direction
- Five models have the incredibly strong Sturtevant Richmond dovetail and can be used with any of over 100 interchangeable heads
- Tamper-resistant design discourages unauthorized torque setting changes
- Meets or exceeds requirements of ASME B107.14 and ISO 6789
- Lightweight and cushion grip for superior ergonomics
- Excellent audible and tactile impulse when preset torque is achieved
- See page 14 for SLTC part numbers.

## TCV-FM 2.4 GHz



The TCV-FM 2.4 GHz is ideal when the application calls for the accuracy and repeatability provided by the SLTC-FM 2.4 GHz preset torque wrenches, and batch counting can be performed by the PLC.

### Features:

- **New Feature!** Two SLTC FM-2.4 GHz wrenches can be used simultaneously with the TCV. Double your production or throughput.
- Uses SLTC-FM 2.4 GHz preset radio wrenches for accurate and repeatable torques and extremely high communication reliability
- Immediately informs operator via lights and a buzzer of proper ("Accept") or improper ("Reject") wrench use
- 5 pin connector for use with 24 VDC I/O system
- Device Programmer software is included with each TCV and allows the ability to assign the purpose of the outputs
- Easily program tool use specifications through the serial port with supplied software
- Operates on either 110-120 VAC or 220-240 VAC power
- Part number 10467. See page 14 for wrench capacities and part numbers.

## PTV-FM 2.4 GHz



If you are using multiple clicker-type torque wrenches in an assembly cell or need RF communication on job status, the PTV-FM 2.4 GHz offers multiple tool and batch options.

Each unit can control up to four SLTC-FM 2.4 GHz wrenches and can support differing specifications and batch sizes on each. Immediate operator feedback for each cycle and count display for tracking batch progress makes the operator's job easier. PLC communications are supported through a 19 pin I/O port and 24 VDC relays.

### Features:

- Uses SLTC-FM 2.4 GHz preset radio wrenches for accurate and repeatable torques and extremely high communication reliability
- Immediately informs operator via lights and a buzzer of proper ("Accept") or improper ("Reject") wrench use
- Notifies operator and line when batch is complete
- Allows up to 255 fasteners per batch
- Counts fasteners in batch in either direction: up or down
- Cycle accept, cycle reject, batch complete, and reset relays for use with line control system
- Simple and straightforward front panel programming with security control
- Each parameter set or group of specifications can be used on any of up to four tools tied into the unit
- Control tool use sequencing through the unit or via 24 VDC control system
- Operates on either 110-120 VAC or 220-240 VAC power
- Part number 10466. See page 14 for SLTC FM 2.4 GHz wrench capacities and part numbers.



## HOW DURABLE ARE YOUR DIGITAL TORQUE WRENCHES?



### ***Exacta 600 Ft. Lb. Digital Torque Wrench***

In March 2006, we sold the first Exacta digital torque wrench to a customer in the aerospace industry. Since then we have released several other wrenches in the Exacta family.

How much force or torque is 600 Ft. Lbs.? The new 2015 Corvette Z07 develops 605 Ft. Lbs. of torque and about 600 horsepower.

A 600 Ft. Lbs. wrench is subject to a great deal of stress in reaching the higher end of the torque scale. If a fastener torqued to 550 Ft. Lbs. or more comes loose, the results are never good. Industry is not a gentle place.

Ever since we sold this wrench in March 2006 we have received it back annually for its calibration cycle. The wrench gets very heavy use and accuracy is extremely important to this customer. Right on schedule the wrench came in, it was calibrated and returned. In the eight (8) years in which this wrench has had heavy use, it has never had a repair. The original transducer, circuit boards, and chips are still in the wrench operating like they did in 2006.

How durable are the digital torque wrenches you are currently using?

## Design Your Own System

### TOOL/PROCESS MONITOR COMPATIBILITY CHART

	Global 400	Global 8	Global 8-Ethernet	TCV Ethernet	PTV-FM 2.4GHz	TCV-FM	Direct
<b>1100-Series Exacta 2</b>	■	■	■				
<b>PST 2000</b>	■	■	■				
<b>SLTC-FM 2.4GHz Radio Clicker</b>	■	■	■	■	■	■	
<b>SLTC Preset Switch Wrench</b>							■

### TOOLS AND PART NUMBERS

Radio Models with Pin	Part No.	Description
PST-2000 AC Powered	10498	PST 2000 Pressure Sensor Transceiver
PST-2000 DC Powered	10499	PST 2000 Pressure Sensor Transceiver
1100 Series Exacta 2 25	10581	25 ft. lb./33.8 Nm cap., pin-type int. head.
1100 Series Exacta 2 75	10582	75 ft. lb./101.5.8 Nm cap., pin-type int. head.
1100 Series Exacta 2 150	10583	150 ft. lb./203.3 Nm cap., pin-type int. head.
1100 Series Exacta 2 250 R	10584	250 ft./lb/338.9 Nm cap., ratchet head
1100 Series Exacta 2 250 DT	10578	250 ft. lb./338.9 Nm cap., pin-type int. head
1100 Series Exacta 2 400	10580	400 ft. lb./542 Nm cap., int. head.
1100 Series Exacta 2 600 R	10585	600 ft. lb./813 Nm cap., 3/4" Ratcheting S. D.

New Models Quick Change	Part No.	Description
1100 Series Exacta 2 25 QC	10524	25 ft. lb./33.8 Nm cap., quick-change int. head.
1100 Series Exacta 2 75 QC	10525	75 ft. lb./101.5.8 Nm cap., quick-change int. head.
1100 Series Exacta 2 150 QC	10526	150 ft. lb./203.3 Nm cap., quick-change int. head.
1100 Series Exacta 2 250 DT-QC	10579	250 ft. lb./338.9 Nm cap., quick-change int.head.

Accessories	Part No.	Description
Cable for SLTC 1501	10440	Cable, Switch Wrench, SLTC 150I only, coiled 12' extended
SLTC/SLTS/SLTCR	10423	Cable, Switch Wrench to bare end, all SLTC/SLTCS/SLTCR except 150I, coiled 12' extended
Cable for PTV 19 pin	10339	Cable with 19 pin connector to bare wire end
Global 8 I/O Cable	10474	10 pin connector to bare wire ends
Replacement switch wrench radio	21370	Replacement 2.4 GHz, switch wrench replacement board. Calibrated for use with heads with 3 7/8" common center line.
Replacement Housing	21151	Replacement housing for 2.4 GHz, switch wrench radios.

<b>Process Monitor Models</b>	<b>Part No.</b>	<b>Description</b>
PTV-FM 2.4	10466	Programmable Torque Verifier, 2.4 GHz
TCV-FM 2.4	10467	Torque Process Monitor Verifier - FM 2.4 GHz
Global 8 with Ethernet IP	10473	Global 8 Process Monitor with Ethernet card and Ethernet IP
Global 8 with PFCS	10476	Global 8 Process Monitor with Ethernet card and PFCS
Global 8 with Open Protocol	10477	Global 8 Process Monitor with Ethernet card Open Protocol
Global 8	10479	Global 8 Process Monitor with No Ethernet card
Global 8 with ToolsNet	10494	Global 8 Process Monitor with Ethernet card and ToolsNet
Global 400 with Open Protocol	10497	Global 400 Torque Process Monitor with Ethernet card and Open Protocol
GIM400	10611	24 VDC I/O Interface Expansion
Global Host Software	10622	Data Repository Software

<b>SLT Series</b>	<b>Part No.</b>	<b>Description</b>
SLTC-FM2.4 50 I	810411	Wireless Preset Radio Wrench, 2.4 GHz, 50 in. lbs./6 Nm cap., dovetail
SLTC-FM2.4 150 I	810412	Wireless Preset Radio Wrench, 2.4 GHz, 150 in. lbs./17 Nm cap., dovetail
SLTC-FM2.4 300 I	810413	Wireless Preset Radio Wrench, 2.4 GHz, 300 in. lbs./34 Nm cap., dovetail
SLTC-FM2.4 300 I OHT	810410	Wireless Preset Radio Wrench, 2.4 GHz, 300 in. lbs./34 Nm cap., dovetail (Length same as 810412)
SLTC-FM2.4 750 I	810414	Wireless Preset Radio Wrench, 2.4 GHz, 750 in. lbs./85 Nm cap., dovetail
SLTC-FM2.4 1800 I	810415	Wireless Preset Radio Wrench, 2.4 GHz, 1800 in. lbs./204 Nm cap., dovetail
SLTC-FM2.4 1800 I Ergo	810421	Wireless Preset Radio Wrench, 2.4 GHz, 1800 in. lbs./204 Nm cap., dovetail (6" longer than 810415)
SLTC-FM2.4 3000 I	810420	Wireless Preset Switch Wrench, 2.4 GHz, 300 in. lbs./339 Nm cap., dovetail
SLTCR-FM2.4 3000I	810416	Wireless Preset Radio Wrench, 2.4 GHz, 3000 in. lbs./339 Nm cap., 1/2" Ratcheting S. D.
SLTC-FM2.4 3600 I	810417	Wireless Preset Radio Wrench, 2.4 GHz, 3600 in. lbs./408 Nm cap., dovetail
SLTC-FM2.4 4800 I	810418	Wireless Preset Radio Wrench, 2.4 GHz, 4800 in. lbs./542 Nm cap., dovetail
SLTCR-FM2.4 7200I	810419	Wireless Preset Radio Wrench, 2.4 GHz, 7200 in. lbs./813 Nm cap., 3/4" Ratcheting S.D.
SLTC 150 I	810854	Switch Wrench, Hardwire, Preset, 150 in. lb./17 Nm cap., dovetail
SLTC 300 I	810855	Switch Wrench, Hardwire, Preset, 300 in. lb./34 Nm cap., dovetail
SLTC 750 I	810856	Switch Wrench, Hardwire, Preset, 750 in. lb./85 Nm cap., dovetail
SLTC 1800 I	810857	Switch Wrench, Hardwire, Preset, 1800 in. lb./204 Nm cap., dovetail
SLTC 3600 I	810858	Switch Wrench, Hardwire, Preset, 3600 in. lb./408 Nm cap., dovetail
SLTCS 7200 I	810859	Switch Wrench, Hardwire, Preset, 7200 in. lb./813 Nm cap., 3/4" fixed square drive
SLTCR 7200 I	810860	Switch Wrench, Hardwire, Preset, 7200 in. lb./813 Nm cap., 3/4" ratcheting square drive

<b>Battery</b>	<b>Part No.</b>	<b>Description</b>
Battery Set & Charger	21259	4 AA NiMH 1500 mAh batteries & charger, NAFTA only
Battery Set of 4	816261	4 AA NiMH 2300 mAh batteries, 4-pack, spare

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