

3000-Series Exacta® 2



Login

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Exacta Plus Torque Tool Interface Program

Username:
(Must have a Name, 1-16 characters)

ID Number:
(Must have a Number, 1-16 characters)

Password:
(Must have a Password, 1-16 characters)

[Help](#)

***The 3000-Series
redefines your
remote assembly
and auditing!***



**Sturtevant
Richmont®**

Torque Measurement Systems

The **3000-Series Exacta® 2** system allows you to organize your torque tasks, prioritize them, guide the operator in performing them and collect the data - all with a single tool! Better still, the system software downloads the specifications to the tool, then later records and saves the data!

It's a System - Torque Wrench and Software Working Together!

The 3000-Series system incorporates a specially-designed **Exacta® 2** digital torque wrench that communicates with and is controlled by proprietary software. The data export capabilities of the system facilitate integration with your plant's quality software. This eliminates inefficiencies associated with information and data handling, and allows you to focus on joint quality!

The software manages three databases.

- The Task database holds information pertinent to each single task, such as: unit of measure, min torque, max torque, number of fasteners, mode of operation and related specifications.
- The Tools database contains information on the **3000-Series Exacta® 2** wrenches you have, such as capacity and serial number of each.
- The Users database contains the data on your operators, such as employee number, name, and what operations they are permitted to perform with the software and tool.

These databases are combined to create Job Templates. Job templates are combinations of tasks that are assigned to a tool and user when a job is created. They speed job creation for future uses of the same task sequence.

To create a job, you simply open a window, select the tool from the Tools Database and the appropriate Job Template. Enter the information pertinent to what is to be worked on and the work order number to be used. Save it and you are done. Now it's in a list that the operator will use when beginning the work order!

Job Card					
Date	26 Jan 2010		Work Order	12345A	
Worker ID	admin		Unit Number	Day 100126	
Tool SN	892692		Customer ID		
Customer ID			Template Name	Brakes	
Template Name	Widget Sub Assy BA1				
Task Number	Location	Description	Socket Head	Number of Records	Min
1	Brake Assy Area 1	Widget Subassembly 1		4	220
2	Brake Assy Area 1	Widget Subassembly 2		3	240

The operator then logs in, selects the work order from the list, prints the Job Card that contains all of the information, downloads the matching information to the tool (1 Button!), logs out and goes to work!

Visual Support at Each Step; Making the Operator's Life Easy!

Each job is a series of sequential tasks to be performed with the wrench; torque three nuts here, four there, and so forth. This information is on the Job Card that was printed at download.

The tool display augments and supports this at every step!

At the start of the job, the lower right-hand corner of the display shows the operator he is at "Task 01 Nut 01". The main part of the display shows the target torque (mid-spec value), the unit of measure and the mode of operation.



As the operator begins applying torque to the first fastener, the display changes to provide current information on the status of the torque application. The current torque shows as it is applied, and when the operator gets close to the torque specification, an LED emits a bright yellow-orange light that backlights the display and appears in a prominent lens on the back of the wrench. Warning - you're getting close!



When the torque specification is achieved, the light turns bright green. All the operator needs to do is stop applying force - "Green is Good!"



Green is good!

The tool displays the torque for a couple of seconds longer in case the operator wishes to review it, then stores the value and indexes to the next fastener - "Task 01 Nut 02"!

In the event of an error, the tool informs the operator by illuminating a bright red backlight and activating a "BAD" icon on the bottom of the display. This gives the operator the opportunity to correct the error immediately, and to record the new correct torque before moving on!



This Inform/Record/Index cycle repeats until all of the fasteners in the first task are complete. The operator can then move to “Task 02 Nut 01”. There is never a question about what is to be done or where the operator is in the job - the current status is in hand and on display!

When all of the individual tasks in the work order are complete, the data is uploaded to the computer. The operator plugs the serial cable into the tool, logs on to the software, clicks on one button (Finish a Job) and at the screen that follows, uses one more button to upload the data. The software stores the data and can clear the tool memory so it's ready for the next job. At every step the operator has been guided through the tasks with the information immediately needed!

Audible Prompts

Supplementing the visual information are audible prompts from a beeper. You'll always know when the torque is right!

User-Friendly Job Data Management

The data on every fastener torqued by every tool and every operator on every assembly is in the database. Preformatted reports can be viewed or printed for every completed job, or the data can be exported for analysis and reporting by spreadsheets or quality software.

Since the data is in the database these functions can be performed immediately upon upload from the tool or reserved for later, as best fits your needs.

Three Modes of Operation - Track, Peak and Residual

Assembly and auditing are both accommodated with these three modes! The residual mode improves torque audit consistency for most hard and many medium joints.

Extremely Accurate

The 3000-Series **Exacta® 2** is accurate to +/- 1% of Indicated Value from 20% to 100% of rated capacity in Track and Peak modes. The Residual mode assists the user in determining retained torque on a joint. The actual accuracy percentage is contingent upon joint condition and user technique.

Multiple Units of Measure

English and Standard International units of measure are on each tool. The exact units vary by tool capacity.

The 3000-Series Exacta® 2 Uses the S/R Interchangeable Head System

The S/R line of Interchangeable Heads provides exceptional strength and rigidity of connection through our unique dovetail connection. Virtually all of these heads are made from a single piece of alloy steel, which assures durability and strength. With over 100 heads of 1 7/16” Common Centerline Length to choose from, the versatility of your 3000-Series **Exacta® 2** is greatly multiplied! Note: 250 and 600 foot-pound capacity tools use the S/R slide pin ratchet.



**Meets or exceeds
the requirements of
ASME B107.28.**

**The 3000-Series
Exacta® 2 Comes with
a FREE Certificate of
Calibration from our
ISO 17025 Accredited
Calibration Laboratory!**



Extended Battery Life

The 3000-Series **Exacta**® 2 uses four (4) AA NiMH batteries of 2200 mAh capacity. These batteries (sold separately with 15-minute charger in NAFTA countries only) provide ample operating time between charges. Backup batteries (NAFTA countries only) are available with 2500 mAh capacity.

Dimensional / Physical Information

Model Capacity	Lever Length	Overall Length	Weight
25 ft. lbs.	12.5" / 317 mm	16.1" / 409 mm	2.8 lbs. / 1.27 kg
75 ft. lbs.	15.8" / 401mm	19.4" / 493 mm	3.0 lbs. / 1.36 kg
150 ft. lbs.	17.8" / 452 mm	21.5" / 546 mm	3.1 lbs. / 1.40 kg
250 ft. lbs.	21.0" / 533 mm	25.2" / 640 mm	4.1 lbs. / 1.86 kg
400 ft. lbs.	36.5" / 927.1 mm	35.9" / 911.8 mm	7.7 lbs. / 3.49 kg
600 ft. lbs.	55.1" / 1399 mm	59.7" / 1516 mm	13.0 lbs. / 5.90 kg

Ordering Information

Part No.	Model	Description
10550	3000-Series Exacta 25	25 ft.lb, 33.8 Nm cap., 3/8" SD Int. Head inc., batteries not inc.*
10551	3000-Series Exacta 75	75 ft.lb, 101.5 Nm cap., 3/8" SD Int. Head inc., batteries not inc.*
10552	3000-Series Exacta 150	150 ft.lb, 203.3 Nm cap., 1/2" SD Int. Head inc., batteries not inc.*
10553	3000-Series Exacta 250	250 ft.lb, 338.9 Nm cap., 1/2" Ratcheting Sq. Dr., batteries not inc.*
10554	3000-Series Exacta 600	600 ft.lb, 813 Nm cap., 3/4" Ratcheting Sq. Dr., batteries not inc.*
10555	3000-Series Exacta 400	400 ft.lb, 543 Nm cap., Dovetail, batteries not inc.* **
21259*	Charger & 4 AA NiMH	4 AA NiMH 2200 mAh batteries & charger, NAFTA only
816261	4 AA NiMH	Batteries 2500 mAh NiMH batteries, spare

** Wrenches calibrated for use with heads having 3 7/8" Common Centerline.



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