

Wireless Digital Torque & Angle Wrench – 1250 Exacta®2



Dovetail with spring pin vs. Dovetail Quick Change (QC).

DIGI
XBee

Global
400
Global
400mp

- ▶ **Angle measurements include:** Torque to Angle (T2A), Torque with Angle Monitoring (TAM), Residual Torque (RES), Prevailing Torque Mode (PTM).
- ▶ Torque with angle measurement provides a significantly more accurate and repeatable clamp load from one assembly to the next. It can identify changing joint conditions and prevent errors.
- ▶ Also operates in Peak Mode with no angle measurements.
- ▶ Backlit display is easy to read in any light condition. Customizable colour display change to inform the operator. Display lights upon torque application.
- ▶ Turns yellow at 90% of target torque, green upon reaching target torque and red upon reaching maximum torque.
- ▶ Tool emits an acceptance tone and the handle vibrates upon reaching target torque and angle values. Tool emits reject tone upon reaching maximum torque.
- ▶ Up to four tools can operate simultaneously with the Global 400 or Global 400mp.
- ▶ Robust XBee radio communication speeds support the shortest takt times.
- ▶ Operator can complete active P-Set even if radio communication is severed; When radio communication resumes, the wrench automatically uploads all missed P-Set data.
- ▶ The wrench automatically recalibrates for P-Sets requiring different head lengths.
- ▶ Patented "Shear Beam" transducer eliminates lever sensitivity to produce more consistently accurate torque application.
- ▶ Space-age gyro locks when it senses freefall to prevent damage.
- ▶ Body is made from a block of aerospace-grade aluminium.
- ▶ Bi-directional accuracy $\pm 1\%$ Indicated Value from 20% to 100% of tool capacity.
- ▶ Meets/Exceeds **ASME B107.300-2010** and **EN ISO 6789**.

Ultimate Flexibility

The 1250 series Exacta 2 Torque and Angle digital torque wrench gives you ultimate control over the most exacting torque specifications. The all new 1250 series Exacta 2 digital torque and angle wrench is built on the same design that has given the 1100 and 1200 series Exacta 2 digital torque wrenches the reputation as the most accurate, reliable and durable digital torque wrenches available.

The 1250 Series brings greater certainty for torque application on your safety critical joints. Using both torque and angle of rotation in different combinations provides greater control over the final torque outcome.

In addition to torque and angle, the new 1250 series Exacta 2 provides additional error proofing by guidance. Programmable wrench display "lighting sequence" works with both torque and angle. Within the engineering specifications, a target can be set to acknowledge target achieved feedback with display colour change and handle vibration when the target torque and angle values are reached.

Quick Change Dovetail Option

For those applications where rapid and frequent head size changes are required SR offers the Quick Change heads. The regular dovetail use the pin and spring embedded in the dovetail. The Quick Change dovetail uses a ball bearing and spring which facilitates the use of thumb power.

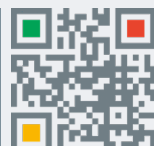
Rather than using a small, flat head screwdriver or our CART tool to depress the pin and remove the head, at customer request SR designed these wrenches to make a head change only using pressure from your thumb.

Compatible Products

INFO

Fully compatible with Global 400 and Global 400mp controller where multiple tools with simultaneous uses are needed.

*The 1250 Series Exacta 2 does **not** communicate with the Global 8, PTV or TCV.*



Wireless Digital Torque & Angle Wrench – 1250 Exacta®2

Traceability and Offline Data Collection

Provides digital date/time stamped documentation on every fastening achieved with our wireless tools.

Operator can complete active P-Set even if radio communication is severed. When radio communication resumes, the wrench automatically uploads all missed P-Set data.

Five Modes of Measurement

» T2A – Torque to Angle

Measures torque first and then degrees of fastener rotation to stretch the fastener a predetermined amount. That closely managed bolt stretch creates greater repeatability than using torque alone.

» TAM – Torque & Angle Monitoring

Measures torque while ensuring sufficient rotation. Helps identify “double-tightened” fasteners and changing joint conditions.

» PTM – Prevailing Torque Mode

Factors out friction inherent to lock nuts, for example.

» RES – Residual Torque Mode

Audit torque value on previously tightened fasteners with greater accuracy.

» Peak – Peak Torque Mode

Pure torque measurement without angle measurement.

Five Units of Measurement

The 1250 series Exacta 2 can display measurements in cN·m, N·m, cm·kg, in·lbf, or ft·lbf units.

Scope of Supply

- 1250 Exacta 2 torque wrench.
- Blow molded storage box.
- 1× charger, 2× battery pack.
- Operating manual.
- Traceable calibration certificate from Sturtevant's ISO/IEC 17025 accredited factory calibration laboratory.

Optional Components

INFO

- Energy Kit, consisting of 1× charger, plus 2× battery pack.
- NiMH battery pack 3.6 V / 2.1 Ah.
- Desktop Charger.

Dovetail Heads

INFO

There are over 200 different original interchangeable heads with SR dovetail tool connector to choose from.



- **Amber** = Approaching lower torque limit, but target not (yet) achieved.
- **Green** = target achieved.
- **Red** = Upper torque limit exceeded!



3.6V, 2.1Ah NiMH Battery Pack.

1250 Exacta®2

Model	Item No.	Torque Range*			Lever mm	Length mm	Weight kg	Tool Connector
		N·m	lbf·ft	lbf·in				
1250 Exacta 2 – 25	R10652	6.8 - 34	5 - 25	60 - 300	317	409	0.99	Dovetail w Spring/Pin
1250 Exacta 2 – 75	R10653	20 - 101	15 - 75	180 - 900	401	493	1.06	Dovetail w Spring/Pin
1250 Exacta 2 – 150	R10654	41 - 203	30 - 150	360 - 1800	452	546	1.13	Dovetail w Spring/Pin
1250 Exacta 2 – 250	R10659	68 - 339	50 - 250	600 - 3000	538	584	1.27	Dovetail w Spring/Pin
1250 Exacta 2 – 400	R10656	108 - 542	80 - 400	960 - 4800	895	912	3.72	Dovetail w Spring/Pin
1250 Exacta 2 – 250 R	R10655	68 - 339	50 - 250	600 - 3000	527	635	1.60	Ratchet 1/2"
1250 Exacta 2 – 400 R	R10671	108 - 542	80 - 400	960 - 4800	856	973	4.14	Ratchet 3/4"
1250 Exacta 2 – 600 R	R10657	163 - 813	120 - 600	1440 - 7200	1399	1516	5.66	Ratchet 3/4"
1250 Exacta 2 – 25 QC	R10666	6.8 - 34	5 - 25	60 - 300	317	409	0.99	Dovetail Quick Change
1250 Exacta 2 – 75 QC	R10667	20 - 101	15 - 75	180 - 900	401	493	1.06	Dovetail Quick Change
1250 Exacta 2 – 150 QC	R10668	41 - 203	30 - 150	360 - 1800	452	546	1.13	Dovetail Quick Change
1250 Exacta 2 – 250 QC	R10669	68 - 339	50 - 250	600 - 3000	533	640	1.26	Dovetail Quick Change

Lever arm length and overall length: Lever arm lengths for models up to 250 ft.lb are based on 1 7/16" or 36.5 mm centre line; lever arm lengths for 400 ft.lb and 600 ft.lb models are based on 3 7/8" or 98.4 mm centre line.

Battery Cartridge & Charger (1250 Exacta®2 only)

Model	Item No.	Description
Energy Kit 1250	R10674	Consists of 2× rechargeable NiMH battery pack, plus 1× charger
Battery Charger 1250	R10673	Desktop battery charger
Battery Pack 1250	R10672	Rechargeable NiMH battery pack 3.6V, 2.1 Ah



Further info on our website.
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* Table showing specifications by manufacturer. Usage in moderate performance range (approx. 1/3 to 4/5 of rated capacity) is recommended. If you regularly worked close to the limit of load (maximum capacity), a larger model or tool might be more advisable.

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