

# Model T

## MODELS T-2000 & T-3000 DIGITAL TORQUE TESTERS

For testing impact wrenches, pulse tools and hand torque wrenches.

T-2000 - For square drives up to 1/2"

T-3000 - For square drives up to 3/4"



Each model features:

- Unique "tuned-beam" design
- State-of-the-art electronics with advanced impulse signal filtering
- Direct, immediate **torque** readouts
- High accuracy:  $\pm 0.5\%$  or 1 count
- Complete freedom from the joint material/friction variables of standard nut-bolt tightening tests
- Simple operation
- Factory calibration, easily recalibrated
- Rugged construction
- Switchable 110/220 VAC, 60 Hz power
- Impact readout 300 to 1,800 impacts per minute
- Wide-range torque readouts:
  - T-2000: 0 to 400 ft.-lb. or 0 to 550 N•m
  - T-3000: 30 to 1,000 ft.-lb. Or 1,300 N•m

### The Highest Standard Yet for Tool Testing with Ease, Accuracy and Consistency.

Now measure impact tool output faster, easier and more accurately than ever. The advanced electronics of S-W Digital Torque Testers produce direct digital **torque** readings in foot-pounds or Newton meters (N•m). Measurements are consistent, repeatable and require less time than traditional testing devices, yet with less margin for operator error.

User benefits include time savings, dependability and increased product quality. Regular tool checks with S-W Digital Torque Testers enable you to identify whether job assembly problems are due to tools or factors such as material variability.

The S-W system also provides a standard and consistent control factor for tool service and repair, which can be maintained across multiple work stations or assembly points.

Indispensable for repairs and maintenance programs in a broad range of industrial applications:

- Automotive, truck or bus maintenance shops
- Appliance assembly operations
- Impact wrench and pulse tool repair facilities
- Any application requiring accuracy checks for all types of hand torque wrenches



## Now Measure Impact Tool Performance in Torque

The heart of the S-W Digital Torque Tester system is a "tuned" steel mechanical beam that isolates the power tool impulse—eliminating extraneous signals—for true **torque** readouts.

The beam in each model is designed to react best to tools that fall within a specific size range. The T-2000 gives realistic readings for smaller tools; the T-3000 is best suited for larger tools. Each model is supplied with three square drive adapters for testing the most common wrench sizes within its optimum size range. (See Table 1.) Changing adapters is simple: remove two screws, remove the adapter, then insert a new adapter, fitting it onto the mating dowel pins. The beam assembly base for either model requires very little bench space for mounting. (See Table 2.)

The digital meter displays high visibility readouts in three modes: impact tool output, impacts per minute and a "static" setting for testing and calibrating hand torque wrenches.

To operate the test, insert the power tool square drive into the socket at the free end of the beam and operate the tool. The beam senses the tool impulses and transmits a signal to the digital meter. The average peak impulse is converted into a dynamic torque output reading displayed in either foot-pounds or N•m. This true output measurement remains on the display until reset by the operator.

**Table 1. Adapter Sizes**

T-2000	T-3000
1/4"	1/2"
3/8"	5/8"
1/2"	3/4"

**Table 2. Base Dimensions**

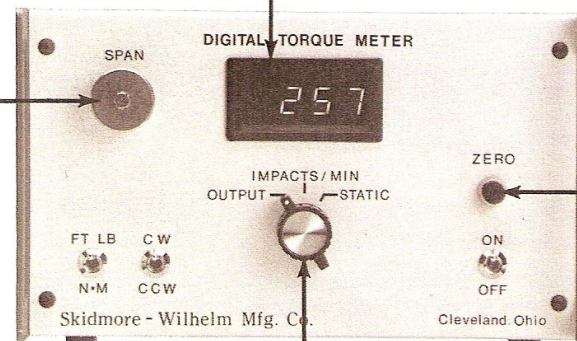
	T-2000	T-3000
Base	5" x 8"	5" x 10-1/2"
Hole Pattern	4" x 7"	4" x 9-1/2"
Hole Size	13/32" (4 places)	

### Direct Readout

The digital display projects large, red LED readouts 7/16-inch high, easily visible at distances to 20 feet or more. The display numerals are held, for accurate operator reading and recording, until the zero reset button is pushed. A handy switch gives a choice of readouts in foot-pounds or N•m. Another switch selects forward-reverse or right/left-hand operation.

### Factory Calibrated, Easy to Recalibrate

S-W Digital Torque Testers are factory calibrated against national standards. To recalibrate, simply turn the mode switch to "static" and apply a known torque. Then loosen the large span nut and turn the adjusting screw to obtain proper adjustment.



### Zero Reset

Following a test in the output mode, the LED display numerals do not automatically return to zero. The zero reset button clears the display so that each new test begins from zero.

### Impact Tool Output Test

Set the switch to OUTPUT and reset to zero. Operate the tool normally with the square drive inserted into the adapter socket. Maximum output readings are reached in one to three seconds.

### Impacts Per Minute

Set to IMPACTS MIN to measure impacting rate performance. Capacity is 300 to 1,800 impacts per minute.

### Static Torque Wrench Test

Set to STATIC, insert the square drive of a hand torque wrench into the adapter, and turn the wrench. Compare the readout to the reading shown at the wrench indicator.

**Note:** Adjustable and preset torque wrenches can be tested in the OUTPUT mode. The point of release will be the maximum value held on the display in this mode.