



## SERIES HT7000

# HAND TORQUE WRENCHES

- Durable, ergonomic design
- Lightweight, high strength
- Excellent overall accuracy
- Compatible with most strain gage instruments and data collectors
- Comfortable foam handle
- Available in a variety of drive sizes and capacities
- Optional tricolor LED to signal within limits, high, or low measurement

## TYPICAL APPLICATIONS

- Post-assembly Torque Auditing
- Bolted Joint Troubleshooting
- High Precision Final Assembly

## TROUBLESHOOTING AND AUDITS

The RS Technologies product line Series HT7000 Electronic Hand Torque Wrenches are lightweight, yet durable enough to be used in the toughest industrial environments. The narrowed head is ideal for access when space is at a premium. The foam handgrips allow for operator comfort. Series HT7000 Wrenches are available with an optional tricolor LED, and when used with Model 920 Portable Digital Transducer Instrument, provide in-spec/out-of-spec feedback.

Calibration services for this and other torque and force products are available at PCB Piezotronics' A2LA Accredited Calibration Laboratory in Farmington Hills, Michigan.

As with all PCB® instrumentation, these products are complemented with toll-free applications assistance, 24-hour service, and are backed by a no-risk policy that guarantees total customer satisfaction or your money refunded.

STANDARD HAND TORQUE WRENCHES				
Model No.	Capacity	Drive Size	Length	Weight
027025-04021	20 lbf-in (2.3 Nm)	¼-inch Hex	6.25 in (159 mm)	4.8 oz (136 g)
027025-04061	60 lbf-in (6.8 Nm)	¼-inch Hex	6.25 in (159 mm)	4.8 oz (136 g)
027125-04051	50 lbf-in (5.6 Nm)	¼-inch Square	8.00 in (203 mm)	11.2 oz (318 g)
027125-04012	100 lbf-in (11.4 Nm)	¼-inch Square	8.00 in (203 mm)	11.2 oz (318 g)
027137-04022	200 lbf-in (22.7 Nm)	⅜-inch Square	12.00 in (305 mm)	12.8 oz (363 g)
027137-04051	50 lbf-ft (67.8 Nm)	⅜-inch Square	12.00 in (305 mm)	12.8 oz (363 g)
027250-04101	100 lbf-ft (135.6 Nm)	½-inch Square	21.00 in (540 mm)	1.8 lb (816 g)
027250-04201	200 lbf-ft (271.2 Nm)	½-inch Square	21.00 in (540 mm)	1.8 lb (816 g)
027250-04301	300 lbf-ft (407.0 Nm)	½-inch Square	28.00 in (711 mm)	3.2 lb (1.5 kg)
027375-04501	500 lbf-ft (678.0 Nm)	¾-inch Square	44.00 in (1118 mm)	6.5 lb (3.0 kg)
027375-04601	600 lbf-ft (813.6 Nm)	¾-inch Square	44.00 in (1118 mm)	6.5 lb (3.0 kg)
HAND TORQUE WRENCHES WITH LEDs				
Model No.	Capacity	Drive Size	Length	Weight
027125-03012	100 lbf-in (11.4 Nm)	¼-inch Square	8 in (203 mm)	11.2 oz (318 g)
027137-03022	200 lbf-in (22.7 Nm)	⅜-inch Square	12 in (305 mm)	12.8 oz (363 g)
027137-03051	50 lbf-ft (67.8 Nm)	⅜-inch Square	12 in (305 mm)	12.8 oz (363 g)
027250-03101	100 lbf-ft (135.6 Nm)	½-inch Square	21 in (540 mm)	1.8 lb (816 g)
027250-03201	200 lbf-ft (271.2 Nm)	½-inch Square	21 in (540 mm)	1.8 lb (816 g)
027250-03301	300 lbf-ft (407 Nm)	½-inch Square	28 in (711 mm)	3.2 lb (1.5 kg)
027375-03501	500 lbf-ft (678 Nm)	¾-inch Square	44 in (1118 mm)	6.5 lb (3.0 kg)

SPECIFICATIONS	
Output at Rated Capacity	2 mV/V $\leq$ 0.25% FS
Shunt Calibration	2 mV/V with 43.575 k $\Omega$ Precision Resistor
Interchangeability	Matched for mV/V and Shunt Calibration $\leq$ 0.3% FS
Overload Capacity	150% FS
Non-linearity	$\leq$ 0.25% FS
Hysteresis	$\leq$ 0.25% FS
Excitation Voltage	10 VDC Maximum
Bridge Resistance	350 $\Omega$
Compensated Temperature Range	+70 to +150 °F +21 to +66 °C
Operating Temperature Range	0 to +200 °F -18 to +93 °C
Temperature Effect on Zero	$\pm$ 0.01% FS/°F $\pm$ 0.018% FS/°C
Temperature Effect on Output	$\pm$ 0.001% Reading/°F $\pm$ 0.0018% Reading/°C
Connector	PT02H-8-4P
Supplied Accessories	
Shunt Calibration Resistor, & A2LA Accredited Calibration Certificate	
Recommended Accessories	
080920-01000	Model 920 Portable Digital Transducer Instrument
097000-34149 4242R-000600 / PT06A-8-4S	Standard Hand Torque Wrench Cable Assembly, 10' Coiled, PT to DB15 Male Mating Connector, Standard
097000-34445 4242R-000630	Hand Torque Wrench with LEDs Cable Assembly, 10' Coiled, PT to DB15 Male Mating Connector, Standard