



Hand Torque-Angle Wrenches

Highlights

- Durable, ergonomic design
- Lightweight, high-strength
- Excellent overall accuracy
- High resolution angle measurement
- Compatible with most strain gage instruments and data collectors
- Wide range of torque capabilities
- Comfortable foam handle

Applications

- Post Assembly Torque Auditing
- Torque-Angle Signature Analysis
- Bolted Joint Troubleshooting



RS Technologies, a division of PCB Load & Torque, Inc., Series HTA7000 Hand Torque-Angle Wrenches are rugged and lightweight, yet durable enough to be used in the toughest industrial environments, and the narrowed head is ideal for access when space is at a premium. With high-resolution angle measurement, these wrenches are ideal for troubleshooting bolted joints and torque-angle audits using Torque Angle Signature Analysis techniques as well as employing the M-Alpha Audit Method patented by RS Technologies. Equipped with an ID chip, setup and calibration is quick and easy when used with instruments from RS Technologies, such as the Model 962 Portable Data Recorder and the Model 920 Portable Digital Transducer Instrument.

RS Technologies provides calibration services for this and their other torque and force products at its 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.





Series HTA7000 Hand Torque-Angle Wrenches

Common Specifications

Output at Rated Capacity	2 mV/V $\leq 0.25\%$ FS
Shunt Calibration	2 mV/V with 43.575 kOhm 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 Ohm
Operating Temperature Range	+70 to +150 °F +21 to +66 °C
Useable 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-12-10P



Recommended Accessories

Model 920 Portable Digital Transducer Instrument	080920-01000
Model 962 Portable Data Recorder	080962-01000
Cable Assembly, 10' Coiled, PT to DB15 Male	097000-34445
Mating Connector, Standard	4242R-000630 PT06A-12-10S (SR)

Model No.	Capacity	Drive Size	Length	Weight
027125-07012	100 lbf-in (11 Nm)	¼-inch Square	8 in (203 mm)	11.2 oz (318 gm)
027137-07022	200 lbf-in (23 Nm)	⅜-inch Square	12 in (305 mm)	12.8 oz (363 gm)
027137-07051	50 lbf-ft (68 Nm)	⅜-inch Square	12 in (305 mm)	12.8 oz (363 gm)
027250-07101	100 lbf-ft (136 Nm)	½-inch Square	21 in (540 mm)	1.8 lb (816 gm)
027250-07201	200 lbf-ft (271 Nm)	½-inch Square	21 in (540 mm)	1.8 lb (816 gm)
027250-07301	300 lbf-ft (407 Nm)	½-inch Square	28 in (711 mm)	3.2 lb (1.5 kg)
027375-07501	500 lbf-ft (678 Nm)	¾-inch Square	44 in (1118 mm)	6.5 lb (3.0 kg)

RS Technologies, a division of PCB Load & Torque, Inc, is a leading manufacturer of a complete line of rotary and stationary torque sensors, hand torque wrenches, measuring instruments, and threaded fastener torque-tension testing systems with over 40 years of history serving the product assembly and fastener manufacturing community. From ready-to-ship stock products, to custom-made specials, RS Technologies proudly stands behind all products with services customers value most, including calibration services from our A2LA accredited laboratory, 24-hour technical support, a global distribution network, and the industry's only commitment to Total Customer Satisfaction. For more information, please visit www.pcbloadtorque.com.



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