Stationary Torque Transducer
For Use in Power and Hand Tool Audit, Calibration, & Certification

Highlights
- Capacities from 100 lbf-in to 500 lbf-ft (11 to 678 Nm)
- 1/4 to 3/4-inch square drives
- Bi-directional
- Includes internal square drive adapter
- Keyed base for secure installation in tool shop or on test cart

Applications
- Measure and Record Torque Load Characteristics of Electric, Pneumatic, or Mechanical Torque Tools
- Audit and Certify Transducerized Tool Calibration and Performance Capability
- Test Torque or Torque-angle Power Tools or Hand Torque Wrenches

PCB Load & Torque Division’s RS Technologies Series ST7000 Stationary Torque Transducers are ideal for auditing and certifying power tools and hand torque wrenches, when used with Model 920 Portable Digital Transducer Instrument. Model 920 is a battery-operated, hand-held peakmeter with a single torque input. Together, Series ST7000 and Model 920 can measure peak torque and its special “click” wrench feature makes it easy to use for calibrating mechanical “click” type wrenches. It is a cost-effective, versatile, and easy to use data collector and can record up to 300 rundowns. Its alphanumeric setup and calibration menus assure ease of operation.

With optional Rundown Adaptors, Series ST7000 Stationary Torque Transducers can verify the performance of pneumatic and electronic power tools.

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 technical service, and are backed by a no-risk policy that guarantees total customer satisfaction, or your money refunded.
### Stationary Torque Tool Transducer

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Drive Size</th>
<th>Capacity</th>
<th>Outer Diameter x Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>077025-00012</td>
<td>1/4-inch Square</td>
<td>100 lbf-in (11 Nm)</td>
<td>4.00 in x 1.75 in (101.60 mm x 44.45 mm)</td>
</tr>
<tr>
<td>077037-00022</td>
<td>5/32-inch Square</td>
<td>200 lbf-in (23 Nm)</td>
<td>4.00 in x 1.75 in (101.60 mm x 44.45 mm)</td>
</tr>
<tr>
<td>077037-00051</td>
<td>5/32-inch Square</td>
<td>50 lbf-ft (68 Nm)</td>
<td>4.00 in x 1.75 in (101.60 mm x 44.45 mm)</td>
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<tr>
<td>077054-00101</td>
<td>5/32-inch Square</td>
<td>100 lbf-ft (136 Nm)</td>
<td>4.00 in x 1.75 in (101.60 mm x 44.45 mm)</td>
</tr>
<tr>
<td>077054-00201</td>
<td>5/32-inch Square</td>
<td>200 lbf-ft (271 Nm)</td>
<td>4.00 in x 1.75 in (101.60 mm x 44.45 mm)</td>
</tr>
<tr>
<td>077075-00501</td>
<td>5/32-inch Square</td>
<td>500 lbf-ft (678 Nm)</td>
<td>4.00 in x 2.13 in (101.60 mm x 54.10 mm)</td>
</tr>
</tbody>
</table>

### Common Specifications

- **Output**: 2 mV/V
- **Shunt Calibration**: Matched 2 mV/V with 43.575 kOhm Precision Resistor
- **Overload Capacity**: 150% of FS
- **Non-linearity**: ±0.25% FS
- **Hysteresis**: ±0.25% FS
- **Zero Balance**: ±2.00% FS
- **Excitation, Recommended**: 10 VDC or AC (RMS)
- **Bridge Resistance**: 350 Ohms
- **Compensated Temperature Range**: +70 to +150 °F
- **Operating Temperature Range**: 0 to +200 °F
- **Temperature Effect on Zero**: ±0.01% FS / °F
- **Temperature Effect on Output**: ±0.01% Reading / °F
- **Connector**: PT02H-8-4P

### Supplied Accessories

- Square Drive Adapter, Shunt Calibration Resistor, & A2LA Accredited Calibration Certificate

### Recommended Accessories

- **Mating Connector**: 4242R-000620
- **Model 920 Portable Digital Transducer Instrument**: 080920-0100
- **Cable Assembly, 10’ Coiled, FT to DB15 Male**: 097000-34149

### Optional Rundown Adapters

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Drive Size</th>
<th>Capacity Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>92300-063971</td>
<td>1/4-inch Square</td>
<td>2 to 25 lbf-in</td>
</tr>
<tr>
<td>92300-063972</td>
<td>1/4-inch Square</td>
<td>5 to 50 lbf-in</td>
</tr>
<tr>
<td>92300-063973</td>
<td>1/4-inch Square</td>
<td>10 to 100 lbf-in</td>
</tr>
<tr>
<td>92300-063978</td>
<td>1/4-inch Square</td>
<td>5 to 50 lbf-ft</td>
</tr>
<tr>
<td>92300-063981</td>
<td>1/4-inch Square</td>
<td>10 to 100 lbf-ft</td>
</tr>
<tr>
<td>92300-063982</td>
<td>1-inch Square</td>
<td>25 to 250 lbf-ft</td>
</tr>
<tr>
<td>92300-063983</td>
<td>1/4-inch Square</td>
<td>50 to 500 lbf-ft</td>
</tr>
</tbody>
</table>

PCB’s Line of Fastener Test Products (formerly the RS Technologies product line) includes test systems and threaded fastener torque/angle/tension systems ideal for use in the Automotive, Aerospace & Defense, Power Generation industries, and for product assembly by manufacturers or processors of threaded fasteners or other companies that use threaded fasteners to assemble their products. For more information, please visit www.pcb.com

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ISO 9001 CERTIFIED ■ A2LA ACCREDITED to ISO 17025

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