Series STA Torque Tool Testers present a simple, yet accurate solution for testing hand operated torque screwdrivers, wrenches, and other tools. Applications exist in manufacturing facilities in virtually every industry. The STA features a solid aluminum housing, making it rugged enough for many years of service in production or laboratory use, while a universal receptacle accepts common bits and attachments. The STA captures peak torque in both clockwise and counterclockwise directions. Note: The STA cannot be used with power, impact or air tools.

## Specifications

- **Accuracy:** ±0.5% of full scale ±1 digit
- **Power:** AC or non-rechargeable 9V battery, with Intelligent Power Management System (IPM). IPM warns the user via a “LO BAT” indicator and then will power off the gauge.
- **Battery Life:** 30 hours of continuous use
- **Selectable units of measurement:** lbFin, kgFmm, Ncm
- **Outputs:** Optional
  - RS-232: Fully configurable up to 9600 baud
  - Mitutoyo (Digimatic): Serial BCD suitable for all Mitutoyo SPC-compatible devices
- **Safe overload:** 150% of full scale (display shows “----” at 110% and above)
- **Weight:** 4.8 lb [2.2 kg]
- **Environmental Requirements:** 40° F - 100°F [5°C - 45°C], <96% humidity (non-condensating)
- **Housing construction:** Aluminum
- **Warranty:** 3 years (see individual statement for further details)

### Ordering Information

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Capacity x Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA12</td>
<td>12 x 0.01 lbFin, 140 x 0.1 kgFmm, 135 x 0.1 Ncm, 110V</td>
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<tr>
<td>STA50</td>
<td>50 x 0.05 lbFin, 580 x 0.5 kgFmm, 570 x 0.5 Ncm, 110V</td>
</tr>
<tr>
<td>STA100</td>
<td>100 x 0.1 lbFin, 1150 x 1 kgFmm, 1150 x 1 Ncm, 110V</td>
</tr>
<tr>
<td>ST001</td>
<td>Bench mounting bracket for STA</td>
</tr>
<tr>
<td>ST002</td>
<td>Carrying case for STA</td>
</tr>
</tbody>
</table>

All models include 110V AC adapters. Add suffix ‘E’ for euro plug (220V), ‘U’ for UK plug (220V), or ‘A’ for Australian plug (220V).

Ex: STA12E, STA50U, STA100A

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**Features**

- **Universal receptacle:** Accepts many types of torque tools and fixtures
- **Peak memory:** For clockwise and counterclockwise torque
- **Selectable units of measurement:** Measure in lbFin, kgFmm, or Ncm
- **Data outputs:** RS-232 and Mitutoyo (Digimatic)
- **Push-button calibration:** Simple and quick calibration procedure

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**Optional Equipment**

- **Bench mounting bracket:** Allows the STA to be mounted securely on a bench.
- **Carrying case:** Hard plastic carrying case with custom molded inserts allows for safe storage and easy transportation. Provides storage space for the STA tester, ST001 mounting bracket, AC adapter, and accessories.
- **Output cables:** Choice of RS-232 and Mitutoyo data output cables are available.