A.K.O. series TSD650 is a lightweight and rugged Torque Wrench Calibration System available in both portable and bench top configurations.

TSD650-BT BENCH TOP SERIES and TSD650-P PORTABLE TORQUE WRENCH CALIBRATION SYSTEMS utilize our time proven precision BALL SCREW designed to generate up to 800 Lb.-Ft. of precisely controlled torque, with minimal operator effort. All torque and force reactions are contained within the torque loader structure.

- PRECISION BALL SCREW & BALL BEARING ACTUATOR.
- LIGHTWEIGHT AND COMPACT DESIGN.
- QUICK CHANGE TRANSDUCER SYSTEM.
- CW / CCW OPERATION WITH 0.1% ACCURACY.
- EASILY ADJUSTABLE REACTION POST.
- SUPPLIED WITH APPROPRIATE SQUARE DRIVE ADAPTERS.
- SPECIAL AND HEX ADAPTERS AVAILABLE.

An ULTRA-PRECISION 0.1 % DIGITAL TORQUE INDICATOR, with several 0.1% Precision Torque Transducer Ranges available, from our TSD011/20D12 BT, 2 to 20 X .002 Lb. In. to our TSD821, 50 to 800 X .1 Lb. Ft.

SYSTEM FEATURES

- PUSH BUTTON ZERO.
- EXCLUSIVE CENTER OF ZERO INDICATOR.
- AUTOMATIC CW/CCW OPERATION.
- UP TO 10,000 MINIMUM COUNTS IN EACH DIRECTION.
- PEAK HOLD FEATURE (“standard” and “first peak”- Programmable).
- MANUAL AND/OR AUTOMATIC PEAK-HOLD RESET.
- PUSH BUTTON CONVERSIONS for Lb.Ft., Lb.In., Nm, Kg.M, Oz.In., Etc..
- RS 232 C DATA 1/0, OPTIONAL ANALOG OUTPUT.
- OPTIONAL EXTENDED LIFE BATTERY AND BUILT-IN CHARGER.

FAST and SIMPLE OPERATION

Simply insert the Torque Wrench to be tested into the appropriate Torque Transducer receptacle. Bring the reaction post to the center of the Torque Wrench handle. Turn the TSD 650 Hand Wheel to produce the desired torque value. (If the Torque Wrench is a Click type, switch the PEAK- HOLD feature ON, turn the TSD650 Hand Wheel until the Torque Wrench clicks and read the Digital Indicator.)
TSD650-P PORTABLE TORQUE WRENCH TEST SYSTEM

- FIBERGLASS REINFORCED CASE WITH STRONG INTERLOCKING FRAME, RUBBER SEAL AND LOCKING RECESSED HARDWARE AND HANDLES.
- ACCESSORIES AND ADAPTER COMPARTMENT WITH STORAGE ARBOR FOR HAND WHEEL.
- TSD650-P HAS BUILT-IN AND SELF-STORING LONG WRENCH EXTENSION.

TSD650-BT BENCH TOP TORQUE WRENCH TEST SYSTEM

- LIGHTWEIGHT HIGH TENSILE ALUMINUM AND ALLOY CONSTRUCTION WITH BOLT DOWN FEATURE.
- DIGITAL TORQUE INDICATOR SWIVEL STAND.
- ACCESSORIES AND ADAPTER HOLDERS.
- MULTI-RANGE CAPABILITY
- TSD650-BT HAS BUILT-IN LONG WRENCH EXTENSION.
- BOLT DOWN FEATURE.

OTHER OPTIONAL FEATURES AND ACCESSORIES
EXTENDED LIFE HEAVY DUTY U.A BATTERY WITH BUILT IN CHARGER, ANALOG OUTPUT FEATURE, TORQUE SCREWDRIVER ADAPTER, ADJUSTABLE VERTICAL REACTION COLUMN FOR EXTENSION AND LONG SPECIMEN TESTING, TSD3000 TORQ-CAL SOFTWARE AND INTERFACE FOR DATA ACQUISITION AND CERTIFICATION GENERATION.

STANDARD TORQUE TRANSDUCER CHOICES

<table>
<thead>
<tr>
<th>Transducer</th>
<th>Range</th>
</tr>
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<tbody>
<tr>
<td>TSD011/20D12 BT</td>
<td>2 to 20 lb.in.</td>
</tr>
<tr>
<td>TSD011/005 BT</td>
<td>6 to 60 lb.in.</td>
</tr>
<tr>
<td>TSD011 BT</td>
<td>10 to 100 lb.in.</td>
</tr>
<tr>
<td>TSD011/020 BT</td>
<td>20 to 200 lb.in.</td>
</tr>
<tr>
<td>TSD051 BT</td>
<td>5 to 50 lb.ft.</td>
</tr>
<tr>
<td>TSD011BT</td>
<td>10 to 100 lb.ft.</td>
</tr>
<tr>
<td>TSD111/200 BT</td>
<td>20 to 200 lb.ft.</td>
</tr>
<tr>
<td>TSD321 BT</td>
<td>30 to 300 lb.ft.</td>
</tr>
<tr>
<td>TSD621</td>
<td>60 to 600 lb.ft.</td>
</tr>
<tr>
<td>TSD821</td>
<td>50 to 800 lb.ft.</td>
</tr>
</tbody>
</table>

NOTE: All above torque values can be converted to other torque engineering standards. Lb.Ft., Lb.in., Oz.in., Nm, Kg.m and others.

There are other standard Torque Transducers available for these system—Call the factory for details.

A.K.O., INC. offers the safest, easiest and most accurate torque wrench calibration and test systems for the most discriminating users.

Call, email or fax us with any of your torque test or calibration requirements. Our sales and engineering staff is ready to find solutions, and provide you with the most accurate and durable equipment and services.