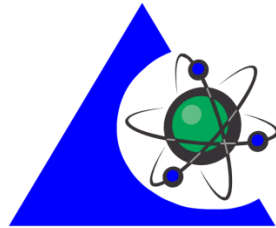


WARRANTY

The TWT10 Torque/Withdrawal Tester System has a (1) year limited warranty against manufacturer's defects from date of purchase.



PJLA
Calibration

Accreditation #75821

ISO/IEC 17025:2017

Accredited Calibration Services are available.

Please send to:
Ergonomics Calibrations
405 Caredean Drive
Horsham, PA 19044

ErgonomicsUSA.com
Office@RamPrecision.net
215-674-0664
800-862-0102

Rev. 001 #0769

TWT10 USER MANUAL

TORQUE / WITHDRAWAL TESTER



Ergonomics™

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PRECISION

Company

Helping Customers Meet Worldwide Standards Since 1985

General

The Torque/Withdrawal Tester, Model TWT10, has been developed in accordance with product safety standards IEC60950, IEC60335-1, UL and other safety test standards. It is used to determine the effectiveness of strain reliefs. This manual also applies to both the torque and withdrawal systems if purchased separately.

Specifications

Force Gauge: Model M2-50
Range: 0 to 250N
Resolution: 0.2N
Accuracy: $\pm 0.5\%$

Torque Gauge: Model TT03-12
Range: 0 to 1.35 Nm
Resolution: 0.001 Nm
Accuracy: $\pm 0.5\%$



Unpacking

Unpack the Torque/Withdrawal Tester, Model TWT10, and inspect for damage. The Model TWT10 is ready to use as it is received. It consists of (5) units:

Item Number	Description
1	(1) Mark-10 M2-50 Force Gauge
2	(1) Mark-10 MTT03-12 Torque Gauge
3	(1) Mark-10 Film & Paper Grip
4	(1) Mark-10 Double Handle Grip for M2-50 Force Gauge
5	(1) Standoff Adapter, #10-32 Male to Female

The apparatus is calibrated to manufacturer's specification and compliant with the standards mentioned above. The gauges can be used for other applications.

Operation

The procedures mentioned in this manual are general in nature. The following requirement is a summary of procedures appearing in product safety standards. For accurate results, refer to applicable standards for specific test procedures required. Also refer to the manuals as provided by the manufacturer for proper operation.

The purpose of using the TWT10 test system is to determine if a strain relief is robust enough to meet requirements as defined in product safety standards.

Suggested Procedure

Tests should be performed at room temperature. After a mark is made on the cord under test it is pulled with a force as defined in the particular standard. Any movement is recorded and compared with the standard. Torque requirements are specified in applicable standards and are applied for usually one minute.

Calibration

Instruments and gauges should be calibrated annually unless history has determined the instruments do not drift or vary with the selected time interval. Ergonomics, Inc. can provide the necessary calibration of the force and torque gauges.

Warning

Do not exceed 150% of full scale reading. It will damage the load cells and void the warranty.

Care and Maintenance

Consult the manufacturer's manuals for proper care and service.