



*For a Total Solution to all of your Materials Testing Needs*

**FOR IMMEDIATE RELEASE**

## **ADMET introduces MTWIST torsion testing system**

NORWOOD, Mass. – May 5, 2004 – ADMET Inc., a provider of integrated materials testing systems, is announcing MTWIST™, a torsion testing system for failure, proof and product testing and for combined axial-torsion testing. MTWIST is a third-generation system that consists of a 32-bit Windows application program and an easy-to-install machine interface box which makes it ideal for new or retrofit installations or for manual "hand torquing" applications.

MTWIST controls electrohydraulic and electromechanical torsion test machines and calculates key material properties in shear such as modulus of rigidity, yield shear strength, ultimate shear strength and modulus of rupture. MTWIST's flexible interface provides connectivity to virtually any torsion testing frame regardless of age, manufacturer or application.

The MTWIST base configuration features inputs for torque and angle, plus an analog input for an angle gauge or an unspecified input. Options include a second analog input or servo control of torque and angle under monotonic, cyclic or complex segmented profiles. MTWIST test measurements exceed ASTM standards for accuracy and repeatability.

"MTWIST is an outgrowth of MTESTWindows, ADMET's popular materials testing system for tension and compression testing," said Richard Gedney, ADMET founder and president. "We've taken our years of experience and knowledge in torsion testing and incorporated it into a proven Windows application program. The result is a simple yet powerful system for measuring the properties of materials and products in shear."

### **Servo control for accurate, repeatable testing**

MTWIST, with the servo control option, employs a high-speed 32-bit microprocessor for precise, closed-loop control of electrohydraulic and electromechanical test frames. It uses a Proportional

Integral Derivative control algorithm with software selectable control modes for bumpless transfer between torque and angle control. By precisely controlling both the load rate and test values, MTWIST assures comparable test results across a series of sample tests. MTWIST offers up to 30 calibration tables per analog channel for multiple torque cell requirements and up to five calibration points per transducer for maximum accuracy.

MTWIST allows administrators to create and save test methods for accurate, repeatable testing. Several analysis methods can be specified for each test. Password protection allows the test procedures to be “locked down” to protect against inadvertent changes.

### **Test reporting for individual and test series**

MTWIST offers a variety of data analyses in accordance with ASTM, AASHTO, DIN and ISO specifications. It features three log rates per test to capture only necessary data and generates a statistical summary of results for a group of like tests.

MTWIST’s test reports are customizable for researchers, management and customers since they offer up to 20 lines of user-definable header information and up to ten user-definable test information fields, as well as automatically constructed torque vs. angle plots with modulus and yield lines. It also generates a statistical summary for a group of like tests. All data can be exported in ASCII delimited format for easy import into common spreadsheet and database programs.

MTWIST provides torque and angle tests ranging from less than 1 in-lb (0.1Nm) to greater than 500,000 in-lb (56,500 Nm). It is available with new ADMET testing equipment and as a retrofit to test frames from Baldwin, INSTRON, MTS, Riehle, SATEC, Tinius Olsen, and others. MTWIST can be used to test materials and products for virtually any industry, including metals, construction products, automotive parts, sporting goods, medical devices, polymers, adhesives and other materials.

The MTWIST torsion testing system is available immediately directly from ADMET or through affiliated sales/service organizations. An MTWIST online brochure is available at <http://www.admet.com/assets/MTWISTBrochure.pdf>. Price quotes are available by contacting ADMET at 800-667-3220.

### **About ADMET**

ADMET Inc. combines high quality products and services with total cost effectiveness to deliver the industry's most efficient materials testing systems. Its products range from materials testing frames to software and specialized control units. The company offers new testing systems as well as retrofits of existing machines from ATS, Baldwin, ELE Soiltest, Forney, INSTRON, MTS, Riehle, SATEC, Shimadzu, Testmark, Tinius Olsen, United and others. Highly skilled engineers provide customers with personalized research and development services and support to make ADMET the most responsive materials testing equipment supplier. ADMET's loyal customer base includes leading manufacturers, testing labs, researchers and universities in aerospace, automotive, biomedical, construction, metals, plastics, textiles and other industries. ADMET can be reached at 800-667-3220, [sales@admet.com](mailto:sales@admet.com) or by visiting <http://www.admet.com>.

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ASTM – American Society for Testing and Materials

AASHTO – American Association of State Highway and Transportation Officials

DIN – Deutsches Institut für Normung e.V.

ISO – International Organization for Standardization

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