



DEMATTIA FLEX TESTER DFT 2100

Benz DFT 2100 Demattia Flex Tester features variable speeds, temperature chamber and simple test setup.

The Benz Model DFT 2100 flexing fatigue tester is a 20 station instrument designed to test the resistance to crack growth after repeated flexing.

Benz Materials Testing Instruments is offering a Demattia flex tester that is ideal for testing fatigue, breakage or crack growth in rubber, plastics, leather, fiberoptics and exotic composites. It meets and exceeds specifications in ASTM D430, D813 and other U.S. and international standards.

The Benz DFT 2100 is used for such diverse products as tires, belts and hoses, laminates, athletic equipment, aerospace and automotive parts, medical apparati, shoe soles, automotive leather seats and fiberoptic tubing.

With 20 stations, the Benz DFT 2100 flexes as many as 20 product samples at 300 cycles/minute for up to 10 million cycles. Variable speed testing from 30 to 300 cycles/minute is standard. The accelerated testing can save days in determining a product's ability to withstand repeated flexing.

Another option is a temperature chamber which allows testing from -50°C to +150°C.

Several different products can be simultaneously tested. Fixed distances range from 0.5 to 4 inches (12.7 to 101.6mm).

The Benz DFT 2100 can be pre-set to as many as 10,000,000 cycles and then digitally display either the number of cycles remaining in the test or the number that have been completed.

The push button control simplifies setup for testing. Push the button to set speed, cycles and temperature. Turn the knob to adjust those setpoints. All variables are set with a single control designed specifically for the DFT 2100.

The DFT 2100 can be used in testing materials to ASTM, ISO, DIN, BS, JIS and other US and international standards.

With a heavy-duty stainless steel chamber, the Benz DFT 2100 is rugged, functional and safe. Switches are vibration-resistant. The 0.5 horsepower direct-drive DC motor is mounted securely to the pedestal and drives the camshaft without belts.

The Benz DFT 2100 operates on 110 or 220 volts, 50 or 60 Hz. Compact, it requires only three feet of counter space and stands three feet tall. Cost is less than \$35,000, or less than \$1,750/station.



Benz Demattia Flex Tester

- The instrument is capable of testing up to ten million cycles.
- The minimum cycle travel is 1/2 inch, to a maximum of 4 inches.
- The standard speed of the instrument is 300 cycles per minute.
- There is an option for adjustable speed, with a range from 0 to 500 cycles per minute.
- A chamber to test at elevated and depressed temperatures is also available.
- Perfect for adhesives, composites, metals, paper, plastics, wire and cable, rubber and textiles.

Other Benz Testing Instruments

- Brittelpoint Testers • Melt Flow Indexes • Durometers • Viscometers • Rheometers
- Specific Gravity Testers • Extensometers • Plastometers • Tensile and Universal Testers
- Bond Testers • Abrasion Testers • Falling Weight Impact Testers • Molds and Dies
- Lab Glassware • Grips and Fixtures • Block Ovens • TR Testers • Clicker Presses

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Benz Materials Testing Instruments is a trade name for Edwin H. Benz Co., Inc.