

# Stiffness Tester 150-B

**TABER**  
INDUSTRIES  
ISO 9001:2000 CERTIFIED

Flexibility and Bending Resiliency Testing

## **Precision instrument evaluates material stiffness.**

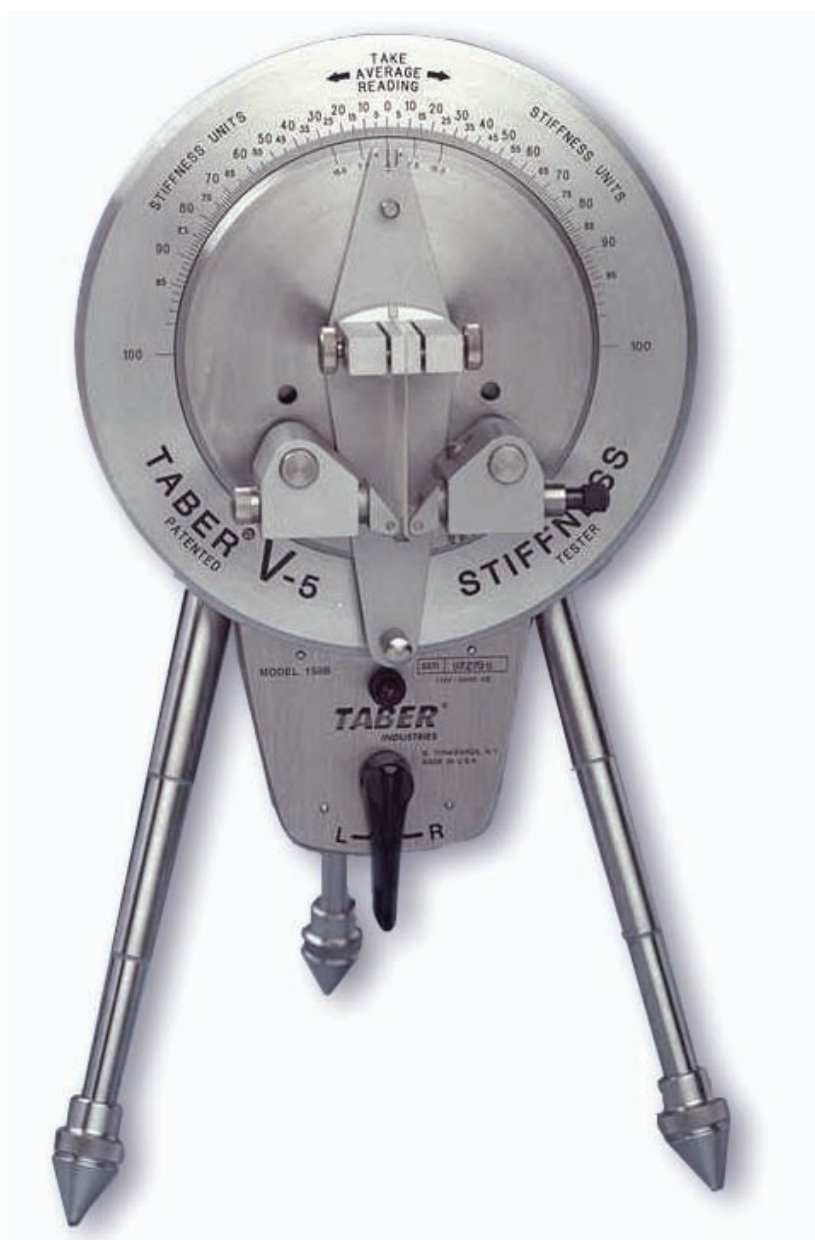
The Taber Stiffness Tester utilizes a two directional pendulum-type weighing system to evaluate material stiffness, flexural strength, resiliency and elasticity properties. Force is applied to the lower end of the specimen by a pair of rollers attached to the driving disc. The resulting torque tilts the pendulum from its vertical position and a Taber Stiffness Unit reading ( $\text{g} \cdot \text{cm}$ ) is taken when the pendulum mark aligns with the appropriate driving disc mark ( $7\frac{1}{2}^\circ$  or  $15^\circ$ ). Predetermined sample length, deflection angle and rate of loading provide accurate and reproducible test results.

## **Established tester offers durable construction.**

Based on the original Taber Stiffness Tester, Model 150-B offers telescoping tripod legs which make this instrument lightweight and portable. Operated manually by an lever control switch, a robust housing protects the electrical components. The new ratchet stop roller significantly reduces specimen mounting variability.

## **Test a wide range of products.**

Nine distinct setups permit the testing of very delicate to extremely rigid materials. Taber Stiffness Testers will evaluate paper, foil, light metallic sheet, laminated plastic, cardboard, wire, and other flexible materials up to 5.5mm (0.219 inches) thick that do not exceed 10,000 Taber Stiffness Units.



# Stiffness Tester 150-B

Flexibility and Bending Resiliency Testing

## Standard Features:

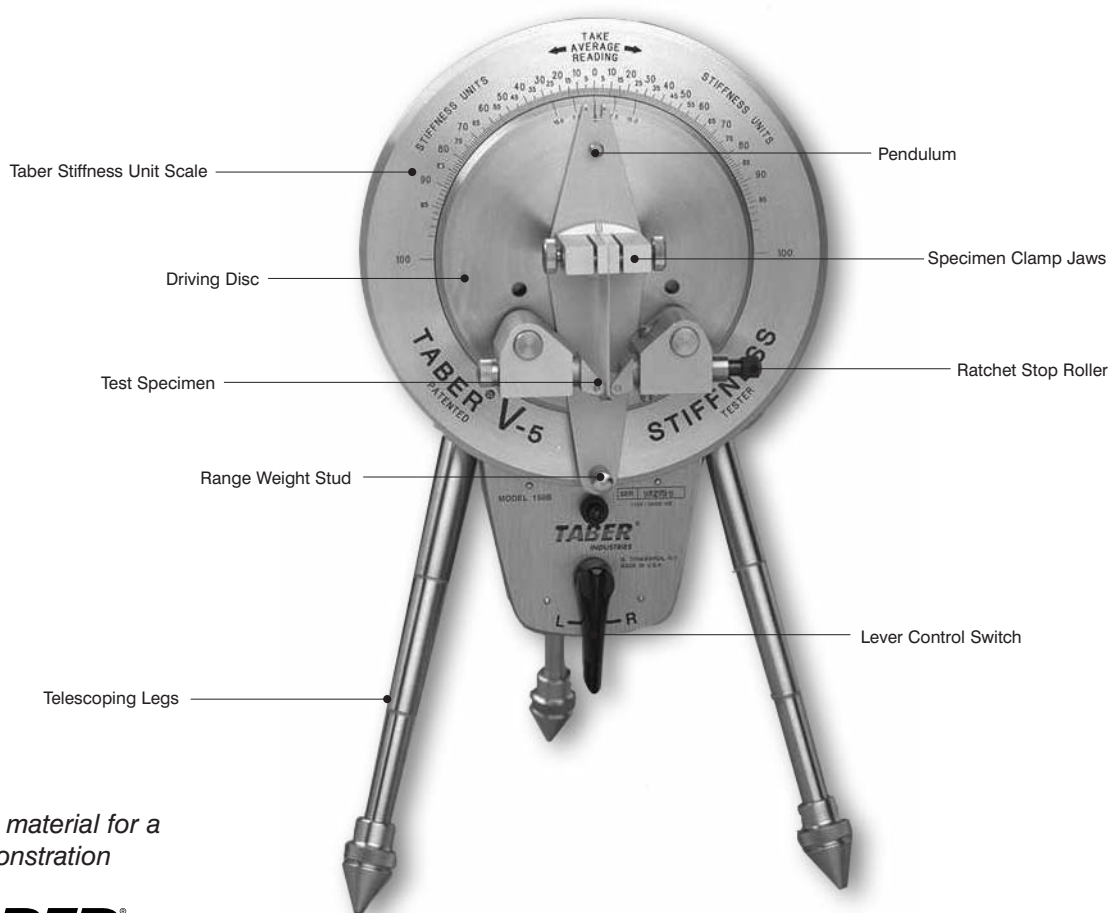
Factory calibrated to accuracy of  $\pm 1\%$  full scale  
Telescoping, tripod base  
Ratchet stop roller  
Constant speed motor  
Dynamic brake holds pendulum at the deflection  
Range weights to test most products

## Optional Accessories:

High Sensitivity Attachment  
Triple Cut Specimen Shear  
Calibration Specimens  
Auxiliary Range Weight Set (3000 and 5000 units)  
Wire/Tube Testing Apparatus  
Step-Down Transformer (required for 220V operation)

## Stiffness Tester Includes:

Compensator Range Weight  
Range Weight (500, 1000 and 2000 units)  
Range Weight Case  
Calibration Specimen



Send us your material for a  
product demonstration

**TABER**  
INDUSTRIES

Setting the Industry Standard

455 Bryant Street  
North Tonawanda, New York 14120 USA

For more information:  
Call 1.800.333.5300 (U.S.) or 716.694.4000 (outside U.S.)  
Fax 716.694.1450  
Email us at [sales@taberindustries.com](mailto:sales@taberindustries.com)  
Visit us at [www.taberindustries.com](http://www.taberindustries.com)

# Stiffness Tester 150-E

**TABER**  
INDUSTRIES  
ISO 9001:2000 CERTIFIED

Flexibility and Bending Resiliency Testing

## Precision instrument evaluates material stiffness.

The Taber Stiffness Tester utilizes a two directional pendulum-type weighing system to evaluate material stiffness, flexural strength, resiliency and elasticity properties. Force is applied to the lower end of the specimen by a pair of rollers attached to the driving disc. The resulting torque tilts the pendulum from its vertical position and a Taber Stiffness Unit reading ( $\text{g} \cdot \text{cm}$ ) is taken automatically when the pendulum mark aligns with the appropriate driving disc mark ( $7\frac{1}{2}^\circ$  or  $15^\circ$ ). Predetermined sample length, deflection angle and rate of loading provide accurate and reproducible test results.

## Onboard computer automates testing.

A high resolution optical encoder and a non-contacting photo sensor are incorporated to make this instrument fully automatic. The onboard computer calculates and records testing data (average; standard deviation; high/low; time; date; and a user-defined label), and converts stiffness readings to the appropriate user selected stiffness range. Test results are displayed on a 4 x 20 character display screen, and can be printed, stored or downloaded to a PC.

## Test a wide range of products.

Nine distinct setups permit the testing of very delicate to extremely rigid materials. Taber Stiffness Testers will evaluate paper, light metallic foil, laminated plastic, cardboard, wire, and other flexible materials up to 5.5mm (0.219 inches) thick that do not exceed 10,000 Taber Stiffness Units.



# Stiffness Tester 150-E

Flexibility and Bending Resiliency Testing

## Standard Features:

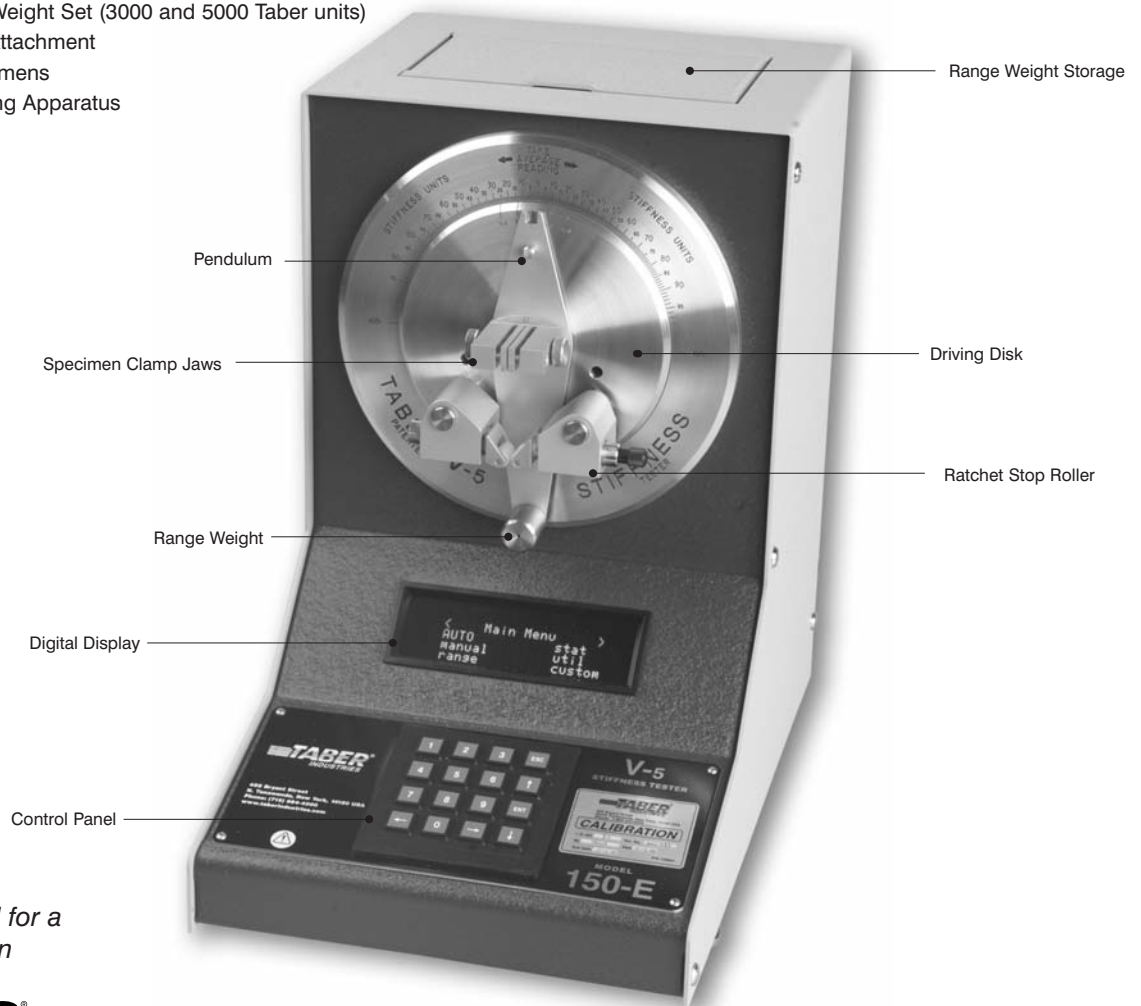
Factory calibrated to accuracy of  $\pm 1\%$  full scale  
Ratchet stop roller  
Auto / Manual modes  
Real-time clock and calendar  
RS-232 port  
16-button control panel  
Integral weight storage  
110/220V 50/60Hz operational  
CE

## Optional Accessories (sold separately):

Triple Cut Specimen Shear  
Auxiliary Range Weight Set (3000 and 5000 Taber units)  
High Sensitivity Attachment  
Calibration Specimens  
Wire / Tube Testing Apparatus

## Stiffness Tester Includes:

Compensator Range Weight  
Range Weight (500, 1000 and 2000 Taber units)  
Calibration Specimen



Send us your material for a  
product demonstration

**TABER**  
INDUSTRIES

Setting the Industry Standard

455 Bryant Street  
North Tonawanda, New York 14120 USA

For more information:  
Call 1.800.333.5300 (U.S.) or 716.694.4000 (outside U.S.)  
Fax 716.694.1450  
Email us at [sales@taberindustries.com](mailto:sales@taberindustries.com)  
Visit us at [www.taberindustries.com](http://www.taberindustries.com)