

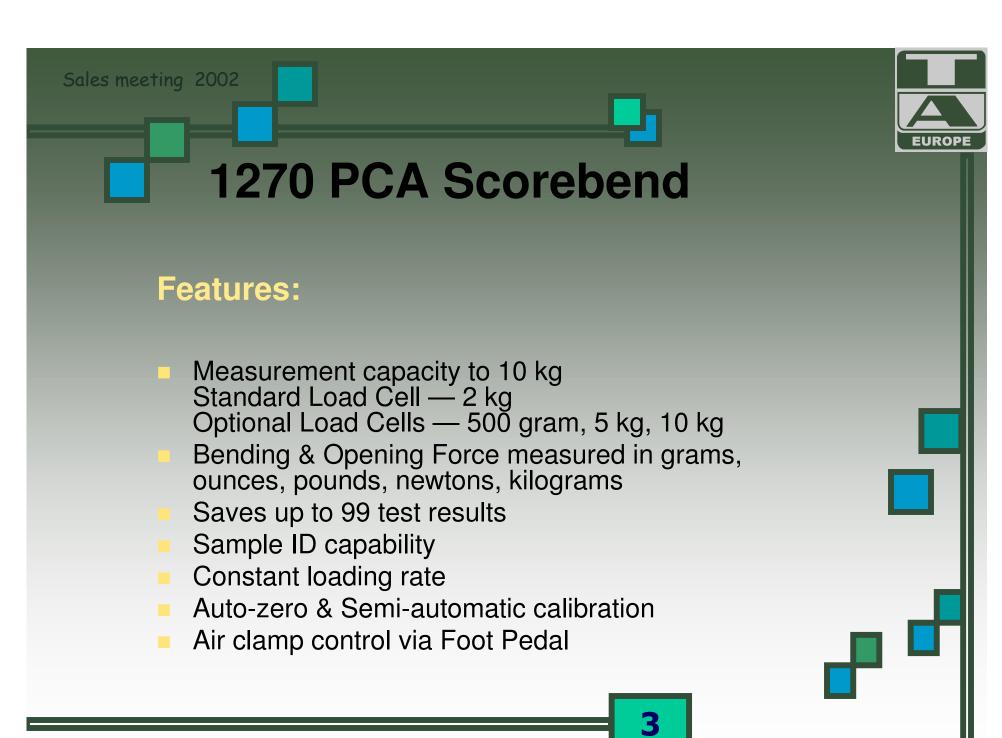


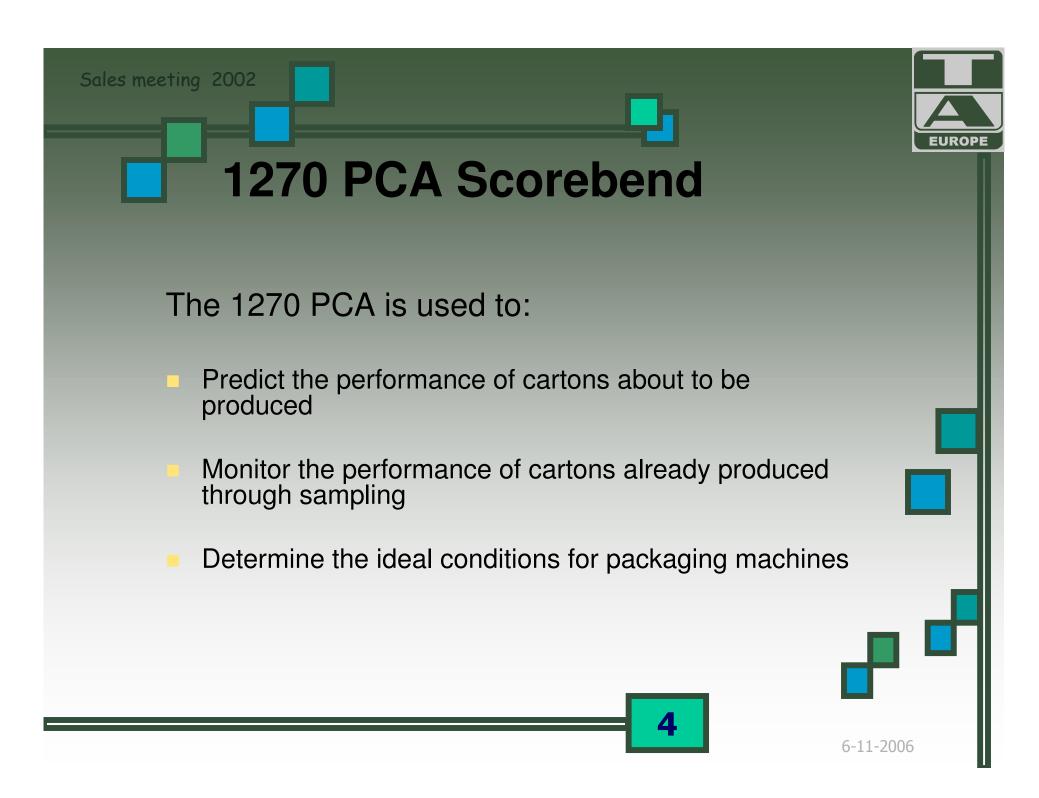
# 1270 PCA Scorebend/Opening

**Force Tester** 

The PCA Score Bend
Tester measures the force
required to bend carton
stock along a score
(crease) and the force
required to open a flat
folded carton. It can also do
score ratio, springback and
COF.







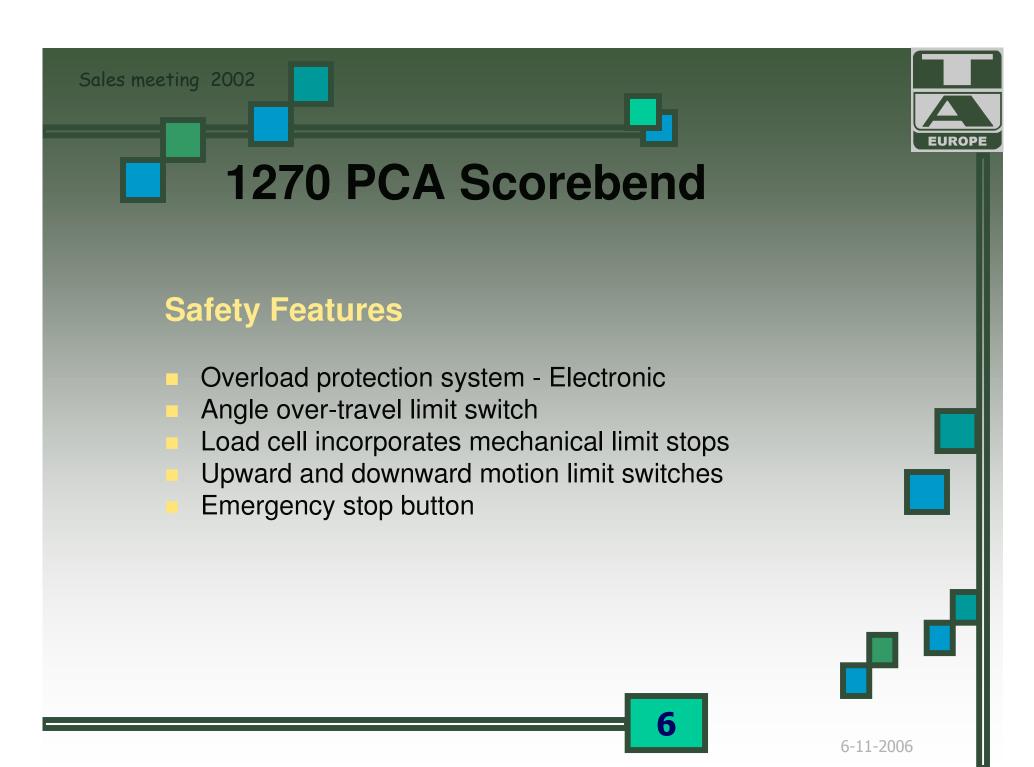


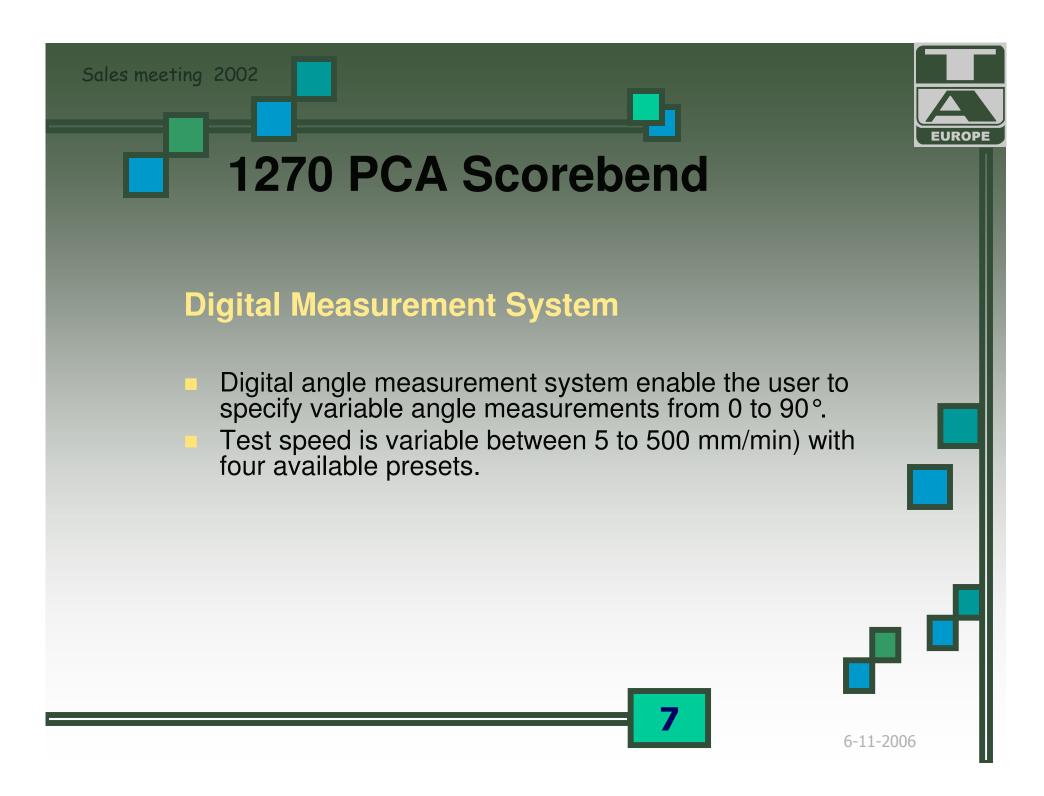


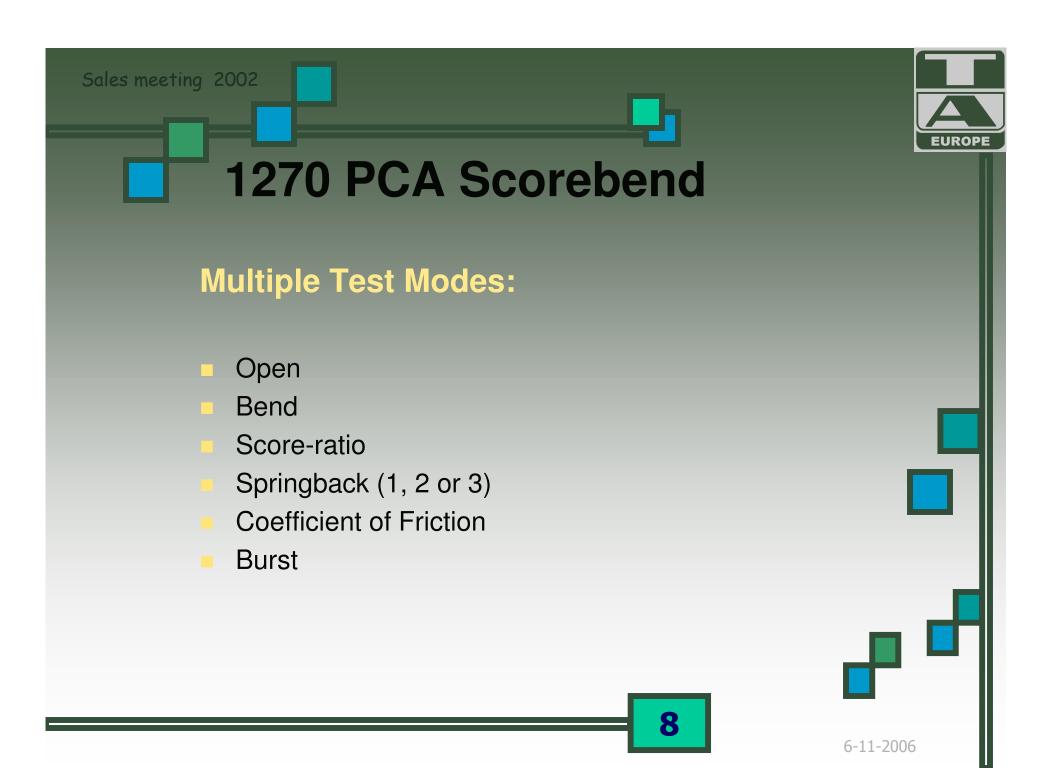
#### **Features:**

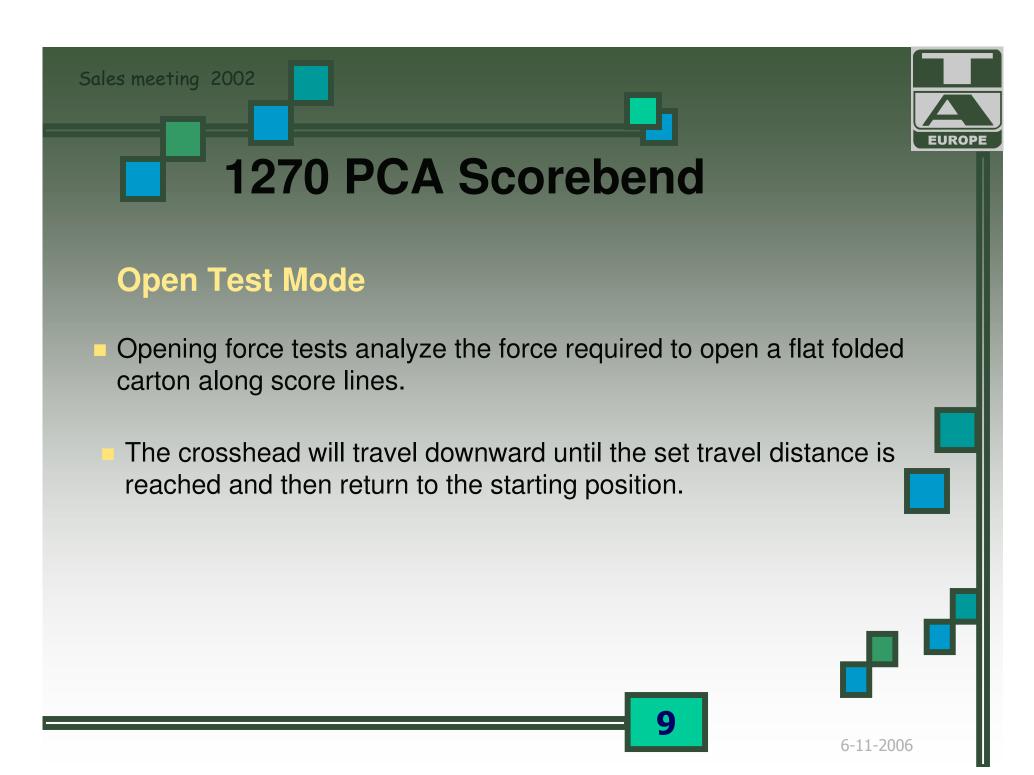
- Statistics include average, high, low and standard deviation
- Selectable force, angle and distance trap results
- Statistics for peak and trap results
- RS-232 interface
- Test result and curve data for PC interface
- Score ratio test mode of scored vs unscored paperboard
- Coefficient of Friction testing
- Burst Testing







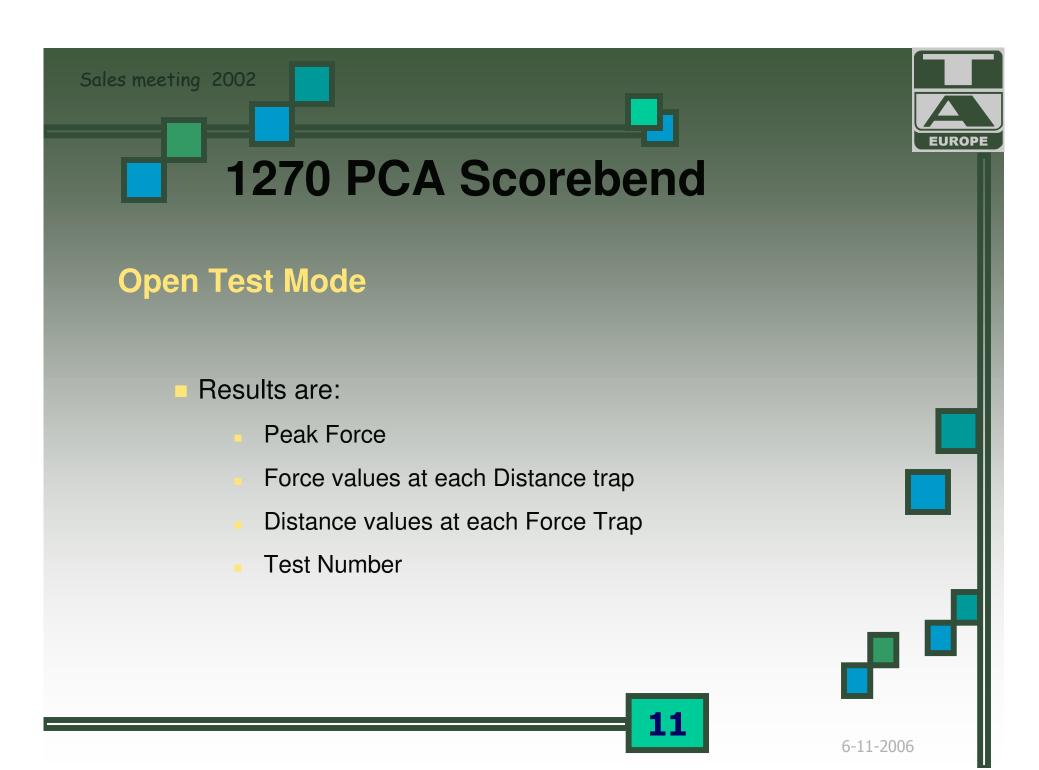






### **Open Test Mode**

- Configurable values are:
  - Travel Distance
  - Distance Trap during downward motion
  - Distance Trap during upward motion
  - Force Trap during downward motion
  - Force Trap during upward motion

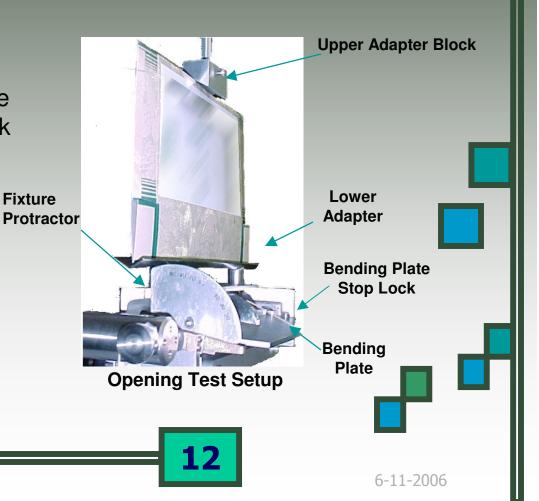






#### **Open Test Setup**

- To perform an opening test remove the hook in the upper adapter block
- Rotate the bending plate to the 90° mark on the protractor and tighten the bending plate stop lock assembly
- Insert the lower adapter behind the bending plate
- Position the sample between the upper and lower adapters.

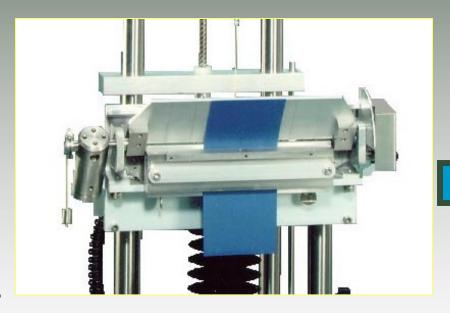






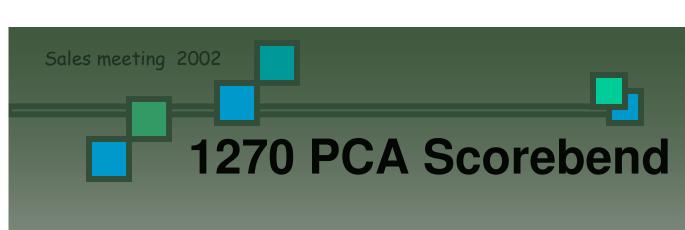
#### **Bending Test Mode**

- Bending force tests analyze the force required to bend a sample along a score line
- The crosshead will travel downward until the set stop angle is reached and then return to the starting position.



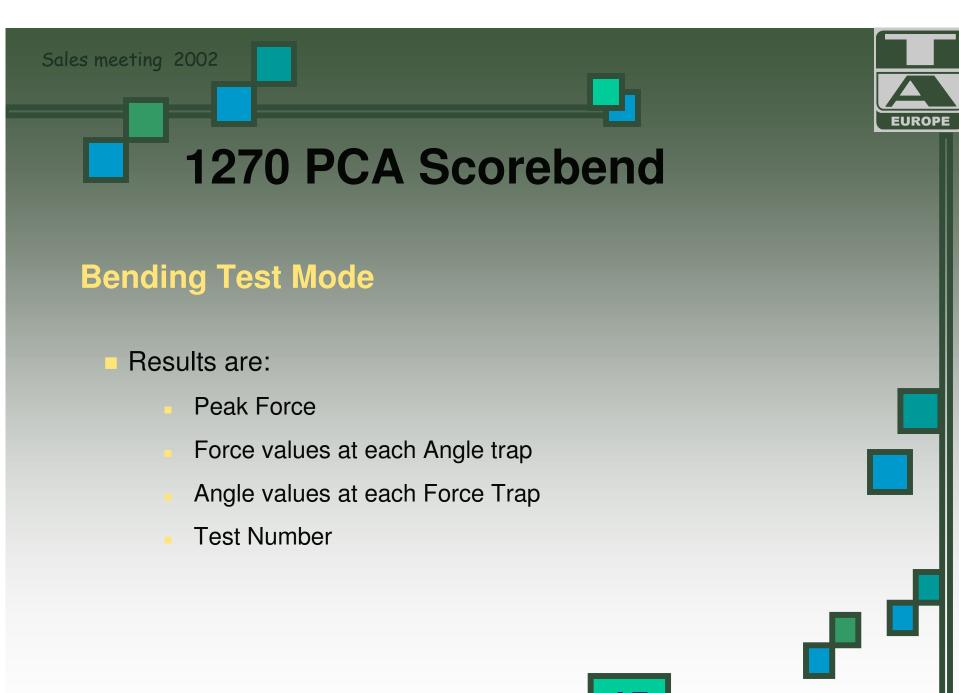
**Bending Test Setup** 



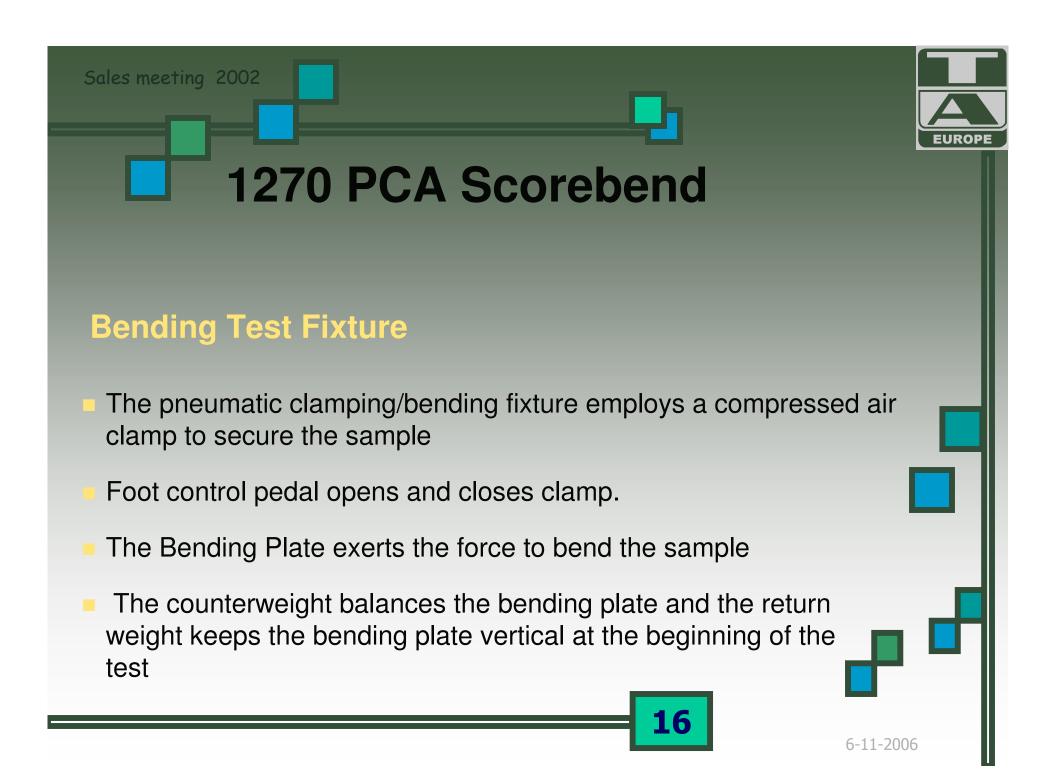


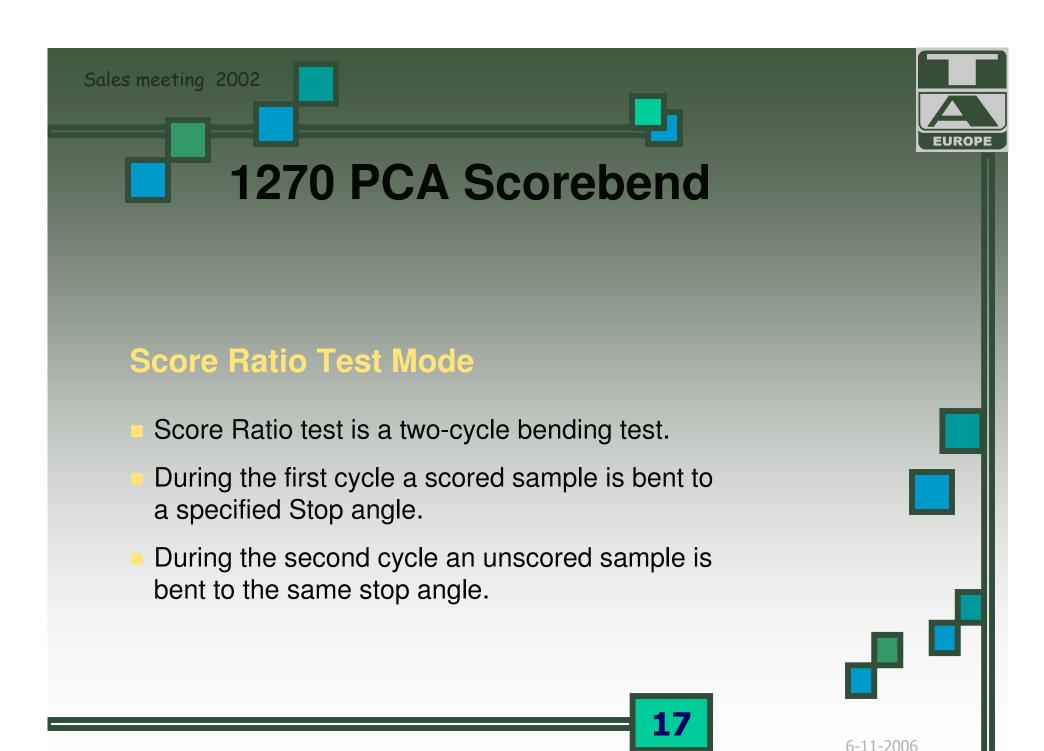
### **Bending Test Mode**

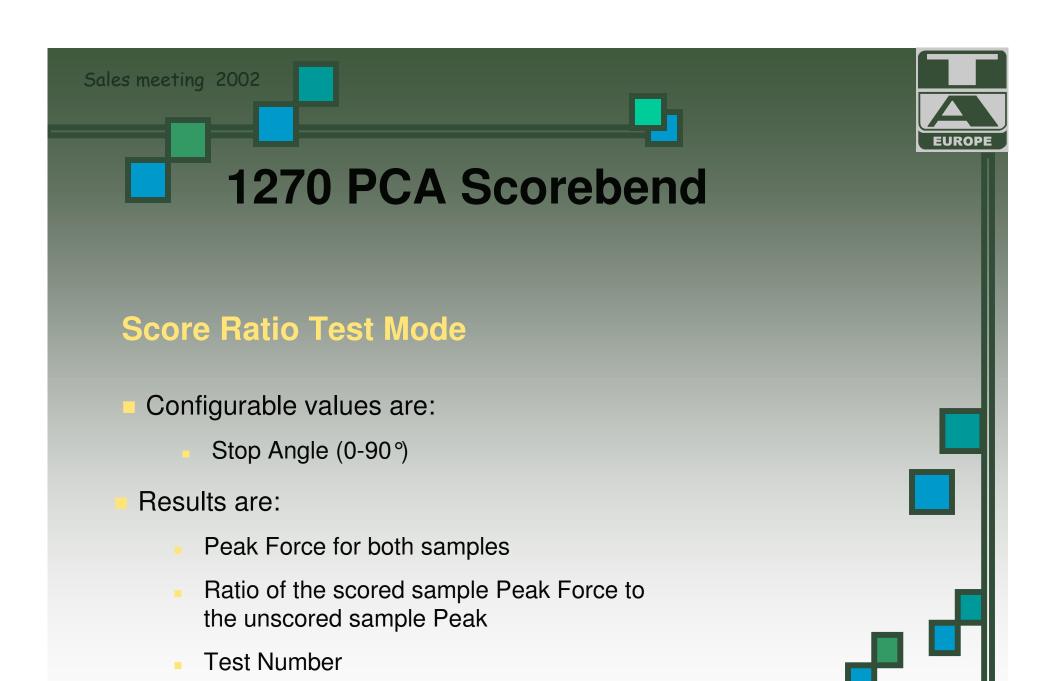
- Configurable values are:
  - Stop Angle (0-90°)
  - Angle Trap during downward motion
  - Angle Trap during upward motion
  - Force Trap during downward motion
  - Force Trap during upward motion



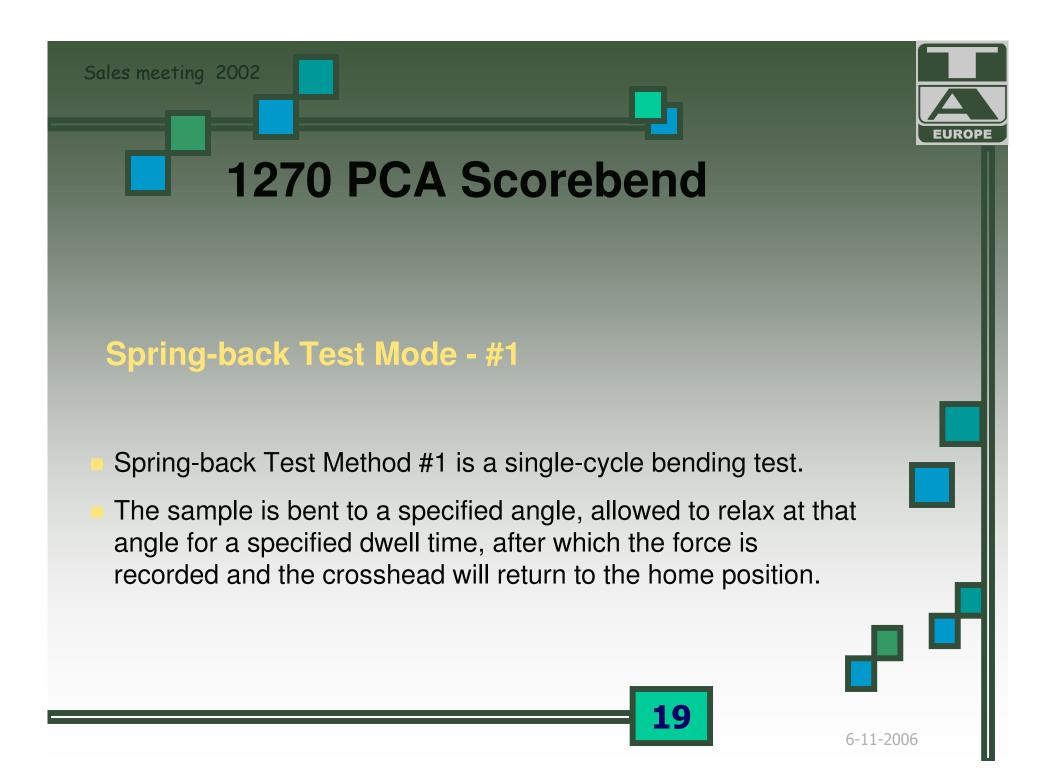
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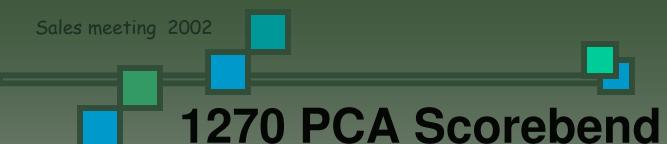






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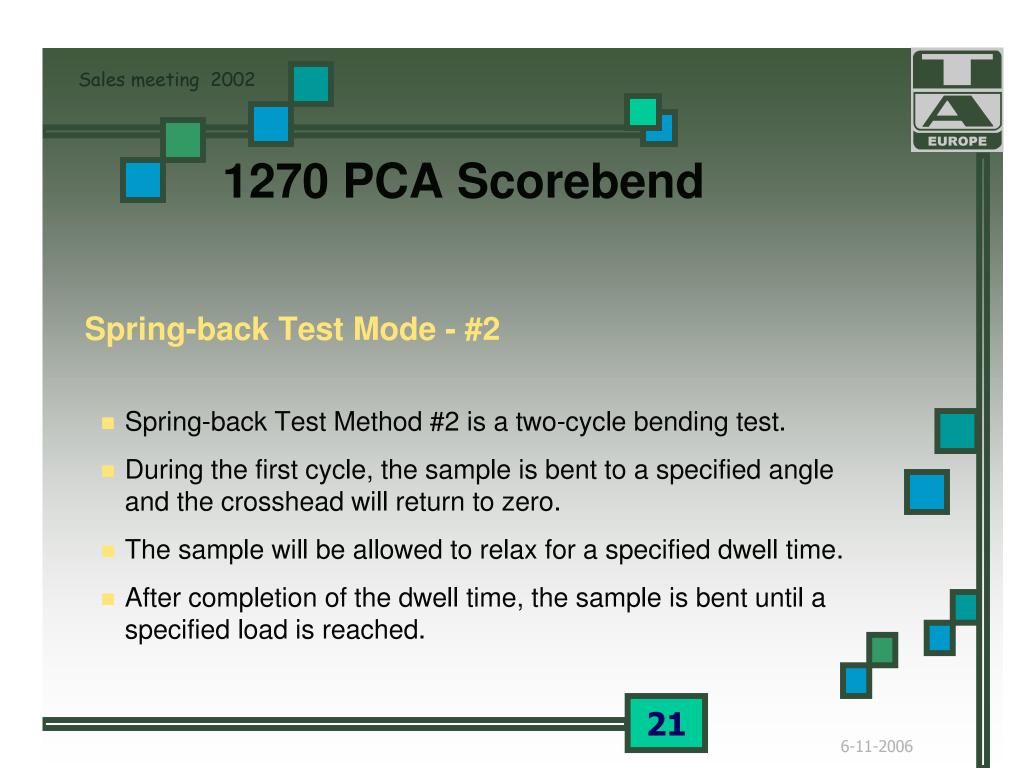


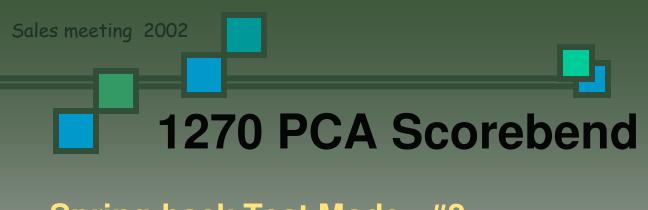


#### **Spring-back Test Mode - #1**

- Configurable values are:
  - Stop Angle (0-90°)
  - Trap angles for both bending and unbending portions
  - Dwell time (max allowable is 255 seconds)
- Results are:
  - Peak Force
  - Force at the end of Dwell time
  - Force at each Trap angle
  - Test Number





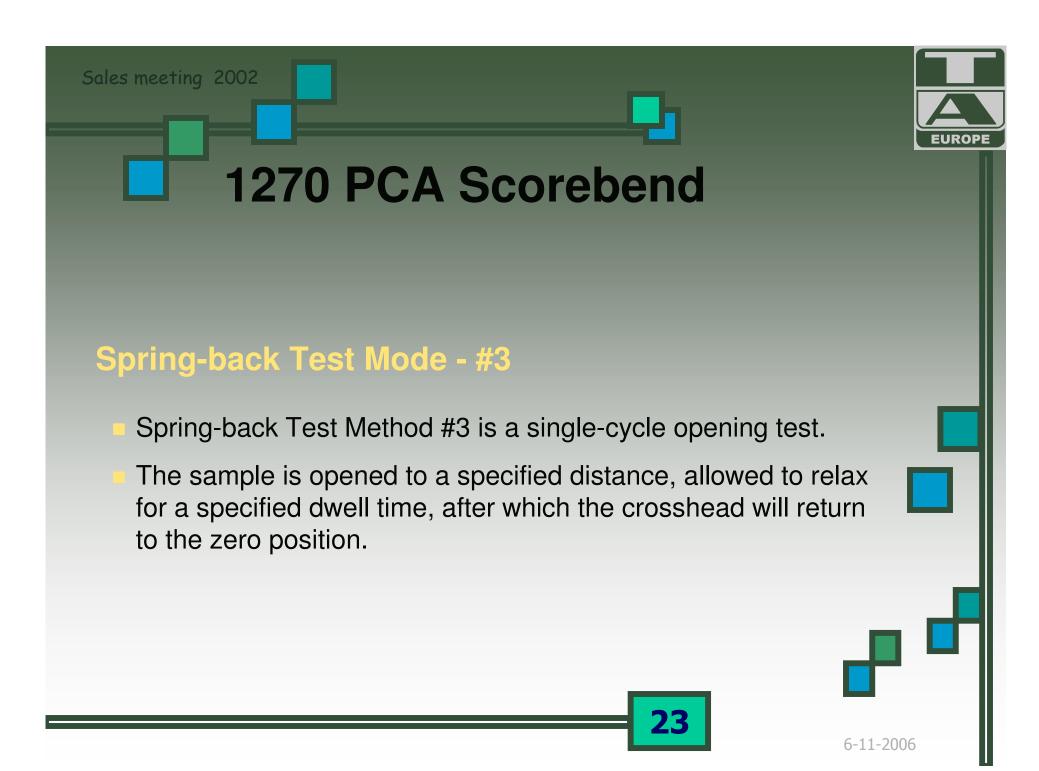


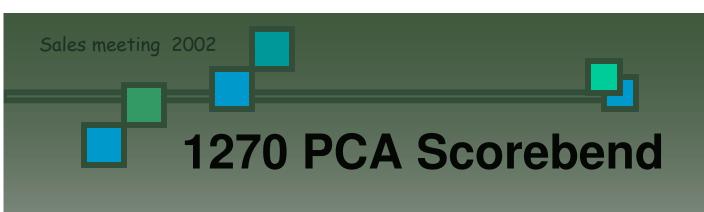


### **Spring-back Test Mode - #2**

- Configurable values are:
  - Trap angles for both bending and unbending portions
  - Stop Angle (0-90°) for first cycle
  - Dwell time for between cycles (max allowable is 255 seconds)
  - Contact force for the second cycle
- Results are:
  - Peak Force from the first cycle
  - Force at each Trap angle
  - Angle for the Contact force in the second cycle



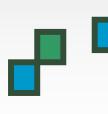






#### **Spring-back Test Mode - #3**

- Configurable values are:
  - Trap distances for both the bending and unbending portions
  - Stop distances
  - Dwell time (max allowable is 255 seconds)
- Results are:
  - Peak Force
  - Force after dwell time has expired
  - Force at each trap distance

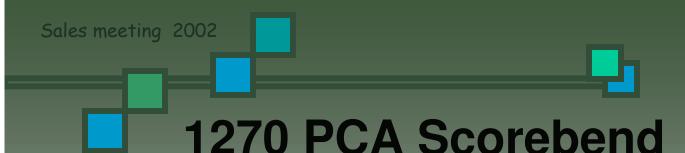




#### **Coefficient of Friction Test Mode**

- A special fixture is available which enables Coefficient of Friction Testing.
- Both static and kinetic coefficient of friction measurements are provided.



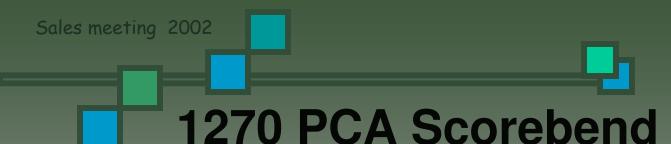




#### **Coefficient of Friction Test Mode**

- Configurable values are:
  - Pre-Test distance
  - Test Distance
  - Sled Weight (allowable range is 1 to 9999 grams)
- Results are:
  - Static COF (the peak reading from the Pre-test section)
  - Kinetic COF (the mean reading from the Test section)







### **Test Results & Reporting**

- Test Results & Reports can be sent to several different destination ports:
  - RS-232
  - Parallel
  - Both or None
- Raw Data Transmission
  - Selecting this option transmits raw data during a test.
  - Raw data is only transmitted during testing.
  - Once the test is completed, the raw data is deleted.







#### Raw Data Transmission

- When the raw data parameter is enabled, the raw data collected is transmitted immediately through the RS-232 port.
- When the test is completed, the transmission ends.
- The 1270 PCA Scorebend only retains test results in memory, not raw data. Once the test is completed, the raw data is deleted.
- For Opening Tests, Load and Displacement data is transmitted.
- For Bending Test, Load and Angle data is transmitted.

