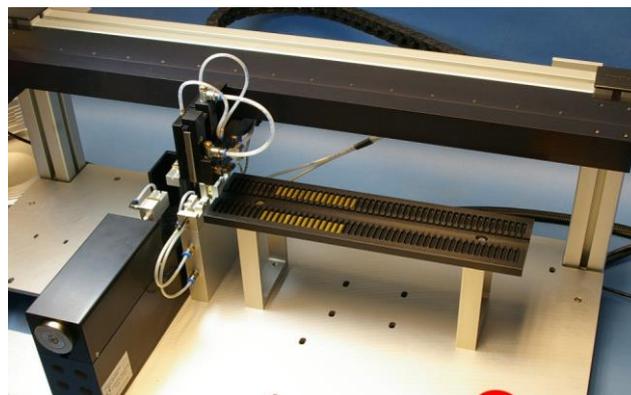




## CYC801 Cyclic Module



CYC801 Cyclic Tester: to measure tensile fatigue properties of fibre samples subjected to repeated strain, force or stress.

## General Information

### Principal benefits

- High throughput: 50 fibre linear cassette
- Automated operation and analysis
- Four cyclic modules can be integrated on one platform
- Multi-tasking allows for simultaneous measurement, reducing process time

### Applications & Claims

- Fatigue testing using repeated strain, force or stress
- Hair root vs tip survival analysis
- Impact of hair treatments can be analysed

### Overview

The CYC801 Cyclic Tester simulates a realistic approach to everyday hair grooming. Fibres are subjected to a set of known parameters including, force and extension.

Data analysis from the CYC801 shows greater differences between samples than other conventional stress/strain experiments.

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The company reserves the right to alter specifications and prices without giving prior notice.

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## Specifications

### CYC801 Module

Extension range	
Speed range	
Force range	
Force resolution	
Displacement resolution	
Displacement accuracy	

The CYC801 fatigue tester uses a voice-coil drive to repeatedly bring the sample to a pre-determined strain, force or stress.

The sample is mounted using Dia-Stron brass crimps and placed within two sample pockets. With the fibre dimensions already captured, the CYC801 brings the sample to a pre-set force before starting the fatigue measurement. Various factors contributing to fibre failure are; Presence of flaws based on ethnicity, chemical or physical damage. Propagation rate of flaws including grooming regime and environmental factors such as UV exposure

### Programmable Features

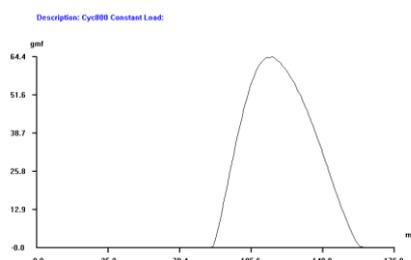
Methods	<ul style="list-style-type: none"> <li>• Low Cycle Fatigue (LCF)</li> <li>• High Cycle Fatigue (HCF)</li> <li>• Constant force</li> <li>• Constant stress</li> </ul>
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### Dedicated software – UvWin

UvWin 3 software controls the CYC801 system. Parameters for these methods can be easily edited within the software. UvWin enables automatic data correction for system compliance.

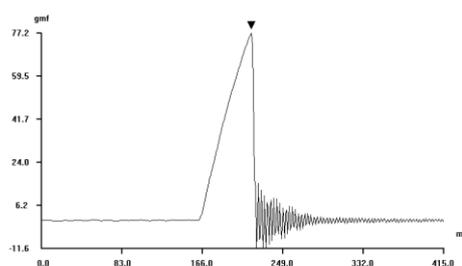
### Content

UV1000 Control unit  
PU1100  
CYC801 Module  
USB & Power cables  
UvWin software for Windows OS



Above: First Cycle

Below: Failure Cycle



### Requirements

Power Supply	85-265vac 47-63Hz, 100w
Computer	<ul style="list-style-type: none"> <li>• Windows OS (XP, Vista, 7, 8, 10)</li> <li>• 1 x USB port</li> </ul>

UvWin also offers a number of integrated data processing tools and the raw data can be also exported as a text file, for use in Excel or other statistical packages. UvWin is compatible with the latest versions of the Windows OS.

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