

IPC Global®

UTM – 5/14P

Servo-pneumatic Universal Testing System

The science of testing made easy®



The UTM-5/14P series are universal servo-pneumatically controlled testing machines with capacities of 5kN and 14kN. These machines utilize digital control of a pneumatic servo valve to provide accurate loading waveshapes of up to 70Hz.

The UTM-5/14P can be operated in tension, compression and dynamic loading and are suited to testing a diverse range of materials such as asphalt, soil, unbound granular materials, fibres and plastics.

SPECIFICATIONS

Features

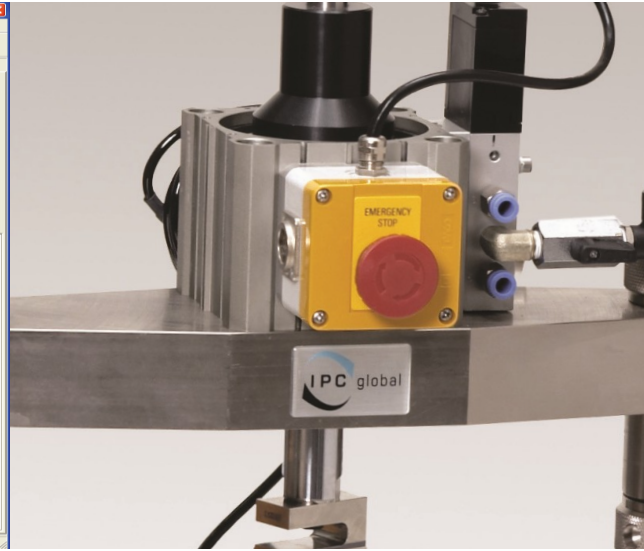
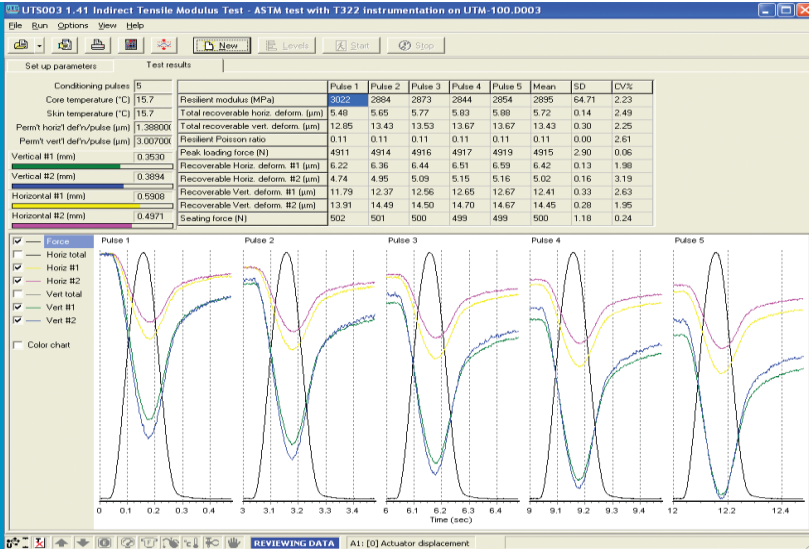
- Robust, high-strength and compact 2-Column load frame
- Precision engineered for high stiffness and alignment
- Digital Servo-Pneumatic control
- Adjustable crosshead positioning
- Fully customisable to suit a large range of testing applications
- 2 axis control and 8 channel data acquisition as standard, upgradeable up to 8 axes control and 32 channel acquisition

Loading Frame & Actuator

| | |
|--------------------|------------------------------|
| Actuator Capacity: | +/- 5kN or +/-14kN |
| Frequency: | Up to 70Hz |
| Between Columns: | 345 mm |
| Vertical Space: | 600 mm |
| Stroke: | +/-15 mm |
| Size: | 1000(H) x 300(D) x 450(W) mm |
| Weight: | 80kg |
| Air Supply: | Clean dry air |
| Pressure: | 800 – 900 kPa |
| Minimum Rate: | 5 litres/sec |

IMACS Controller

| | |
|--------------|---|
| Size: | 270H x 350D x 460W mm |
| Weight: | 11kg |
| Mains Power: | 220–240V 50/60Hz or 110-120V 50/60Hz |



The UTM-5/14P is enhanced with IPC's world class IMACS digital controller, UTS software and a full complement of accessories ensuring it is easy to set up and conduct your tests for international and local standards.

IMACS Digital Controller:

IPC Global's Integrated Multi-Axis Control System (IMACS) delivers leading-edge performance, unparalleled real time control and the ultimate in flexible data acquisition. The IMACS provides excellent waveform fidelity from integrated acquisition and control functions, at speeds of up to 5kHz simultaneously on all channels, with 4x oversampling for low noise performance and auto-ranging resolution of up to 20bit.

UTS Software:

Developed over 20 years, IPC Global's test and control software (UTS) is known for its simplicity in use, clarity of results and analytical power. UTS allows for real time graphing of results and configurable real time transducer levels screen, as well as customisable test templates to streamline the testing process.

Accessories:

A virtually limitless range of testing accessories is available for the UTM-5/14P system including grips, compression platens, tri-axial cells, indirect tensile fixtures, transducers, jigs and other customer specified items.



IMACS Digital Controller

IPC Global Customer Care

At IPC Global we are proud of our products.

We're dedicated to supplying high quality, accurate, affordable, easy-to-use systems for advanced testing of asphalt, soil, unbound granular and other construction materials.

As a valued customer of IPC Global you will receive continuous, expert support and advice for your instrument. Furthermore, we ensure new users are trained in the correct operation of your IPC Global equipment.

For support from our expert customer care team, contact your local IPC Global distributor or IPC Global directly on +61 3 9800 2200 or email techsupport@ipcglobal.com.au.

Visit our website for more information: www.ipcglobal.com.au

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