

## DATA SHEET

# Servo-Pneumatic Universal Testing Machine UTM, 16 kN cap.



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## General description

IPC Global's UTM-16P Servo-pneumatic testing systems are precision engineered to accomplish your toughest research challenges. Designed and built to IPC Global's highest standard for Civil Engineering laboratories, these systems deliver superior reliability and accuracy with proficient performance of tension, compression and dynamic loading analysis on all types of materials.

Available in two versions: standard and with motorized crosshead for quickly and easy test set-up.

The heart of all these products is the IMACS2, 3rd Generation Multi-Axis Digital Controller and Data Acquisition System which delivers leading edge performance, unparalleled real time computer control and flexible data acquisition, together with the powerful and professional UTS Neutron suite draws upon over 30 years of advanced materials testing experience. Used and relied upon by hundreds of researchers, you can buy with confidence knowing your test results having immediate credibility.

The **UTM-16P Servo-pneumatic testing systems** can be used as part of your **Superpave performance based testing** program.

## Main features

- Robust, high-strength and compact two column load frame
- Precision engineered for high stiffness and alignment
- Digital servo-pneumatic control
- Optional motorized crosshead available: controlled via the PC, it ensures the crosshead is locked safely without backlashes for waveshape fidelity and high accuracy in tension-compression tests
- Fully customisable to suit a large range of testing applications
- 2 axis control and 8 channel data acquisition as standard, upgradeable up to 5 axes control and 20 channel acquisition
- Available in two versions: standard and with motorized crosshead for quickly and easy test set-up

## Specifications

High stiffness frame

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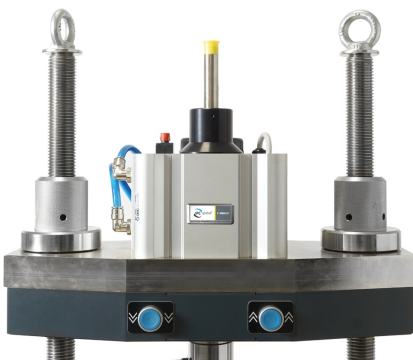
Load capacity: 16 kN  
Load cell: +/- 20 kN capacity  
Max frequency: 30 Hz  
Double effect servo-pneumatic actuator, 30 mm stroke  
Actuator with 30 mm in-built displacement transducer  
Vertical space: 650 mm  
Space between columns: 339 mm  
Dimensions (w x d x h): 480 x 300 x 1200 mm  
Weight (approx.): 200 kg



UTM-16P without climatic chamber, fitted with indirect tensile jig



Monitor w1



UTM-16P Motorized crosshead controls

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IMACS2

### Products

#### **79-PV70A02/I2**

IPC Global UTM-16P, Servo-pneumatic universal testing system 16 kN capacity, complete with IMACS2 controller. 110-230V/50-60Hz/1ph

#### **79-PV70A12/I2**

IPC Global UTM-16P, Servo-pneumatic universal testing system 16 kN capacity, complete with motorized crosshead and IMACS2 controller. 230V/50-60Hz/1ph

#### **79-PV70A14/I2**

IPC Global UTM-16P, Servo-pneumatic universal testing system 16 kN capacity, complete with motorized crosshead and IMACS2 controller. 110V/60Hz/1ph

### Accessories and consumables

#### **79-PV70E02**

Environmental chamber for servo-pneumatic testing machine, -25°C to +60°C, 110-230V/50-60Hz/1Ph

#### **79-PV70116**

Temperature measuring kit (-50 +100°C), including two probes