

UTM RETROFIT & MODERNIZATION

Advanced Electromechanical Testing Upgrade

DIGICON
Universal Testing Machine

Transform Your Existing UTM into a Modern Servo-Controlled Testing System

Retain the Machine | Upgrade the Technology | Enhance Performance



BEFORE RETROFIT



AFTER RETROFIT

-  High Accuracy
-  Wide Speed Range
-  Advanced PC Software
-  Flexible Test Solutions

RETROFIT HIGHLIGHTS



PC-Based Testing Software

Windows software for method setup, live monitoring, calculations, graphs and result storage.



Fully Digital Control

Computer-controlled test sequences for simple, repeatable operation and programmable methods.



Extensometer Support

Supports compatible extensometers and auxiliary measurement devices required by the selected method.



Real-Time Test Display

Live force and displacement/elongation values with test curves, calculated results and specimen statistics.



High-Resolution Force Measurement

Auto-ranging force measurement; final accuracy depends on the selected load cell and calibration.



Servo-Controlled Crosshead

Digital AC servo drive and brushless servo motor provide precise speed and position control.



Precision Ballscrew Drive

Preloaded ballscrew transmission provides smooth, quiet motion and repeatable positioning.



Machine Protection

Overload, overtravel, emergency-stop and programmable motion-limit protection.



COST EFFECTIVE
SOLUTION



IMPROVED
PERFORMANCE



LATEST
TECHNOLOGY



EXTENDED
MACHINE LIFE

Reliable Testing for Stronger Materials

DIGICON
Universal Testing Machine

Applications



Industry



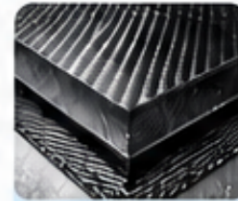
Pharma



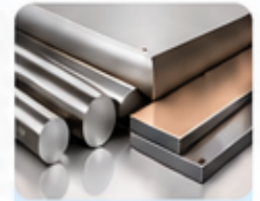
Plastic



Polymer



Composite



Metal

Digicon UTM Software



Live Test Display

Real-time force and displacement with test curves



Method Setup

Standard and custom test methods with flexible configuration



Results & Reporting

Calculated results, specimen statistics and customizable reports

Model Range

Model	Capacity
DT-UTM-5	5 kN
DT-UTM-10	10 kN
DT-UTM-50	50 kN
DT-UTM-100	100 kN
DT-UTM-150	150 kN
DT-UTM-200	200 kN
DT-UTM-300	300 kN

Imported UTM Retrofitting - 5 kN to 300 kN

- Instron Inc., USA
- Testimetric, UK
- Lloyd Instruments, UK
- Tinius Olsen, USA
- Shimadzu Corporation, Japan
- MTS, USA

Technical Specifications

Capacity (kN)	5 / 10 / 50 / 100 / 150 / 200 / 300	Load cell accuracy	+/-0.5% of reading*
Number of columns	2 (for all models)	Load cell resolution	1 part in 50000, auto ranging
Speed range (mm/min)	As per model	Data sampling rate	Up to 12 kHz*
Speed accuracy	+/-0.1% under stable conditions	Max. force at full speed	As per model
Crosshead travel (mm)	As per model	Max. speed at full load	EN/ISO speed limiting
Position resolution (mm)	0.001	Operating temperature	As per model
Vertical test space (mm)	As per model	Operating humidity	< 80% non-condensing
Throat (mm)	As per model	Electrical supply	Universal input; site dependent
Frame stiffness (kN/mm)	As per model	Power (kW)	As per model
Crosshead guidance	Linear slides integral within columns	Machine configuration	Table top / base cabinet optional
		Overall dimensions / Weight	As per model

DIGICON
Universal Testing Machine

DIGICON TECHNOLOGY
Ahmedabad, Gujarat, India
www.digicontechnology.com

+91 84695 69476
digicontechnology@gmail.com