# **MICRO VISION**



Leading Manufacturer in Testing Industry

An ISO 9000 Company



TESTING MACHINES

www.microvision.co.in E-mail - info@microvision.co.in



Typical Testing Applications:	Main Features
Plastics	Tensile Strength
Packaging	Flexural Strength
Metal	Tensile Modulus
Electronics	Flexural Modulus
Medical Device	Peeling Strength
Manufacturing	Bonding Strength
Automotive	Tear Strength
Machinery & Manufacturing	Elongation
Textiles	Compressive Strength

#### Specifications

Specifications:	
Load capacity	: Different capacity model from 10kg (100N) to 20 tonnes (200kN)
Load accuracy	: Load accuracy as per depend on to capacity of load cell
Mechanical structure	: High grade steel gives unmatched accuracy and precision. High axial stiffness reduces machine compliance while increasing speed and displacement accuracy when specimen under load.
Cross head driven	: Cross head driven by conventional screw and nut, guided & supported by hardened, ground finished and hard chrome plated tie rods. Gliding on linear bearings allowing the cross head motion. Ball screw driven mechanism is also available on demand.
Travelling length	: Maximum travel from grip to grip is 800mm at extension least count of 0.01mm. Higher length is also available on demand (optional).
Speed selection	: Speed controlling by variable speed drive and speed range is from 1mm/min to 200mm/min. or 1mm/min to 500mm/min on demand. For economy application variable speed AC drives is used and in most accuracy application servo control system is also available on demand.
Controlling device	: Microprocessor based userls friendly with mark identification key operating controlling system.
PC Interface facility	
& software	: Machines have serial output for direct connection to

& software	: Machines have serial output for direct connection to computers for testing with windows™ software. Profile based software to start the test quicker, and run test fast. Gives full control of test parameters with auto set- up of the tester. Full test is analysis with statistical and graphical print-out. A report is enhancement package for long term statistics and control charts with exports in Excel™ data sheet format.
Grips	: Choose from a wide range of grips and fixtures for tension, compression, flexural, shear, peel, puncture

and product testing.

Result and parameters: Max Load, Max Elongation, Yield force, Yield Elongation, Break force break elongation, GPD, Denier

other customized at least two direct result value facility in corporate with the controlling unit.

Mode of test : Tensile as well as compression test facility available, mode selection via software. No need to change mode every times before starting the new test.

Safety features :Over load protection, reverse direction load protection, Maximum elongation protection for load cell. Both the side limit switches fitted as an additional facility.



### **Optional Features:**

Signature Calibration Overload Protection **Digital Elongation** 



# Since 1992 **W**

MV

## UNIVERSAL TESTING MACHINES

### **Specifications**

#### **Hardware**

Load Capacity 10kN

Force Ranges 1 N to 10kN

Force Accuracy +/- 0.5% of applied load @ 5-100% of capacity

Crosshead Speeds 0.1 to 1000 mm/min (0.004 to 40 in/min)

**Speed Precision** +/- 0.5% from 0.1 to 500 mm/min (0.004 to 20 in/min)

+/- 1.0 % from 500 to 1000 mm/min (20 to 40 in min)

High Speed Return 1000 mm/min (40 in/min) maximum

Crosshead Speed/ 0.1 to 400 mm/min (0.004 to 16 in/min) up to 1044

Force Rating 400 to 1000 mm/min (16 to 40 in/min) up to 5kM

Testing Width 450 mm (18.5 in)

Crosshead Traverse 1100 mm (43.3 in)

Crosshead Position +/- 1 mm of set position

### Control

**Electrical** 200/220/240/260VAC +/- 10%, 50 +/- 3 HZ, 5 amp Single Phase

Air Pressure for 5 kg/cm<sup>2</sup>, (500 KPa), (75 psi) clean compressed air

**Pneumatic Grips** 

**Dimensions** Width 92 cm (36.2 in), Height 240 cm (94.5 in), Depth 100 cm (39.4 in)

Not including personal computer

Installed Area 22 x 122 cm (48 x 48 in) included seated operator

Weight 350 kg Approx

#### **Software**

Data Sampling Rate 20 ms
Crosshead Speed Units mm/min

Stress Units kPa, MPa, GPa, kgf/cm², lbf/in², psi

Strain Units Actual or percent

Time Units Min/sec or decimal min

Gauge Length Any length mm, cm or in

Specimen Dimensions Area, width or thickness using preset constants or operator

entry, auto entry option for width and/or thickness selected from mean, median, highest or lowest value reported from

as many as 6 measurements

Crosshead Speed Increments of 1 mm/min
Crosshead Position Increments of 1 mm

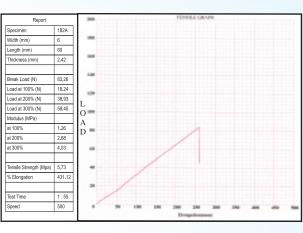
Crosshead Limits Preset or selected at time of test

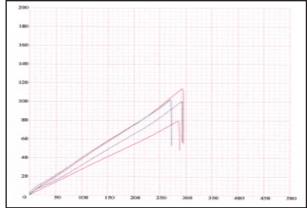
**Device Verification** Load cell

Printer Output Report heading, sampling, specimen details

Operating System Windows

Operating Mode Keyboard or mouse





#### Disclaimer of warranty and liability

















# Microvision Engineering Pvt. Ltd.

1568, H.S.I.I.D.C. Industrial Estate Rai Sonepat-131001 Haryana India Website: www.microvision.co.in, Email: info@microvision.co.in

Ph.: 0130-6534565, Telefax: 0130-2242266

For Details contact: Mr. Rajeev Sharma - Mob: +91-9812041166



