

# DIGITAL SPRING TESTING MACHINE



HSMLE's HDSM-Series electromechanical spring testing machines can perform a wide range of mechanical tests including tensile, compression, bend, peel, tear, friction, and shear testing. These systems are designed to test materials, components, and products in accordance with ASTM, ISO, and other industry standards. Compatible with hundreds of accessories for a wide range of applications, these universal testing systems are available in a multiple sizes and configurations for R&D, QC, and other mechanical testing up to 100 kN force.

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## TECHNICAL SPECIFICATION :

Model No.	HDSM-0.5KN	HDSM-1KN	HDSM-2.5KN	HDSM-5KN	HDSM-10KN	HDSM-25KN	HDSM-50KN	HDSM-100KN
Load Capacity	0.5Kn	1Kn	2.5kN	5Kn	10Kn	25Kn	50Kn	100Kn
Load L.C.	0.1N		1N		0.01Kn			0.1Kn
Effective Tensile Space	0-300mm				0-800mm			
Effective Compression space	300mm				800mm			
Testing Speed	Step-less speed of 2.5 to 25mm/min OR 5 to 50mm/min OR 10 to 100mm/min OR 50 to 500mm/min							
Elongation L.C.	0.1mm with digital rotary encoder							
Motor capacity	0.5hp			1hp		2hp	3hp	
Input Power	Single phase 220V 50Hz				Three phase 440V 50Hz			
Safety Feature	Overload Protection			Emergency Stop, Over-travel protection, Over load protection & Auto Break judgement provided with each model				
Design Feature	Heavy duty 'Best in class' twin guided double pillar design for best stability and higher stiffness							

## CONTROL PANEL FEATURES: -

- Full-fledged sealed membrane alphanumeric keyboard for data entry 16 x 2 Lines LCD Graphics display with backlit for displaying Load and Elongation of crosshead with bigger font size.
- Load indicated with resolution of 0.01% of machine capacity for entire range.
- Elongation is measured with resolution of 0.01 mm.
- Auto detection of overload and over travel and specimen break. On detection of any condition electrical motor is automatically turned off.
- Tare load and Reset Elongation facility to display Peak Load and Elongation at Peak, Load at break, Elongation at break
- RS232C interface for computer connectivity.

## **DIGITAL READ OUT (DAQ), DATA ACQUISITION SYSTEM) : -**

- High Resolution 24 Bit Adc , Ads 1232 Used For A Better Accuracy.
- 2x16 Or 4x20 Dot Matrix Lcd Display For Manual Operation.
- 8 Keys Provided To Easy Manual Operation.
- Load Zero Facility By Key.
- Displacement Zero Facility By Key.
- One Can Make Manual Test With Read Out.
- Peak Load And Peak Displacement Hold Facility.
- Manual Entry Of Speed.
- Auto Calibration Through Daq.
- Over Load Protection.
- Over Displacement Protection
- Extensometer And Rubber Extensometer Facility Optional.

**H S M L E**