

# UNIVERSAL TESTING MACHINE

Servo-Electric Series

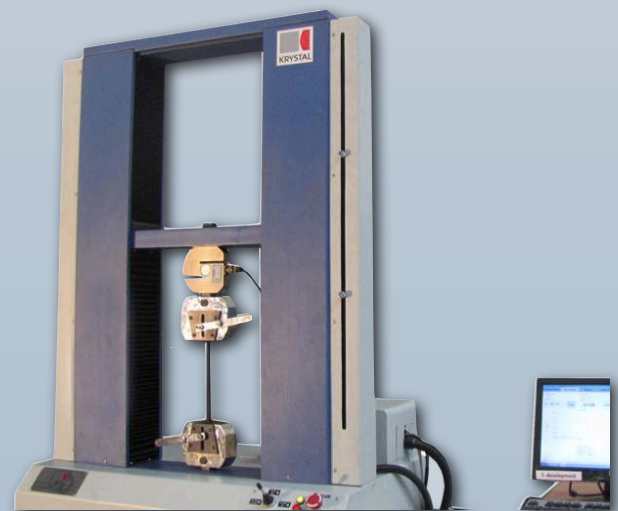
Leaders in  
Material Testing and  
Dynamic Balancing



UTK-10SE, Floor Standing Model

## FEATURES:

- ▶ Specially designed for high accuracy and precision testing.
- ▶ Supports Tensile, Compression, Transverse, Shear and other similar tests.
- ▶ Available Load capacity 1, 2, 5, 10 Ton (100kN).
- ▶ Testing of various shapes of specimen.
- ▶ Available in Digital and/or Computerized control Panel.
- ▶ PC based software for capturing load Vs extension data.
- ▶ Extensive analysis with Yield, Proof and report.



UTK-5SE, Table Top Model

# Specifications

FEATURE	MODEL >	Unit	UTK-1SE	UTK-2SE	UTK-5SE	UTK-10 SE
Maximum Force Capacity		kN	10	20	50	100
Force capacity options		kN	0.5, 1, 5,10	0.5, 1, 5, 10, 20	0.5, 1, 5, 10, 20, 50	1, 5, 10, 20, 50, 100
Frame Type (column/setup)			1 / Table top	2 / Table top	2 / Table top	2 / Floor Standing
Test Zones			Single	Single	Single	Single or Dual
Force Accuracy		N	+/- 1% of applied force			
Maximum Speed (no load)		mm/min	1000	1000	1000	500
Minimum Speed		mm/min	0.005	0.005	0.005	0.005
Security features			Over force, travel limit switches, Over voltage			
Vertical Test Space		mm	1000	1000	1000	1000
Total Vertical Test Space		mm				1430
Space Between Columns		mm	500	500	500	500
Size Approx. (WxDxH)		mm	800x500x1500	800x500x1500	950x600x2000	1000x950x2000
Weight with Typical Load Cell		Kg	250	400	500	900
Force / Position measurement			Load Cell / Encoder (0.001 mm)			
Motor and Drive			AC Servo Motor			
Maximum Power Requirement		kW	2	2	3	3.5
Single / Three Phase Voltage		V	230/415	230/415	230/415	230 /415

### OPTIONAL ACCESSORIES

Electronic Extensometer, Grips for various shapes and sizes of specimen, Grips for wire rope, Special customized holding fixtures

### Load Measuring:

A pressure transducer attached to the hydraulic pressure line measures the load at a resolution of 0.025% with auto-ranging facility. This is a precision transducer with international traceability.

### Displacement Measuring:

A rotary encoder (available in 0.01 or 0.001mm resolution) measures the crosshead displacement.

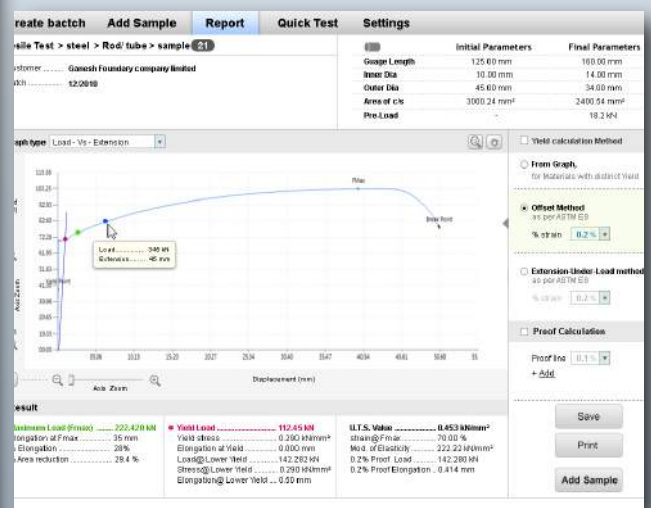
For extension test a high precision Extensometer is used to capture the true elongation in the specimen. It is available in different gauge-lengths from 20 to 100mm

### KrystalMet Software:

KrystalMet - an user friendly Windows based software captures the test data and stores in the database for an extensive analysis of the test. An online graph of load vs displacement/extension gives user a clear picture about the test in progress.

A report with various test results and graphs can be printed or exported to PDF or Excel format for easy sharing with other parties.

KrystalMet gives a complete batch analysis report to understand the behavior of samples in a batch.



Note: Due to continuous development, KRYSTAL reserves the right to change the specifications without notice.

## KRYSTAL

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