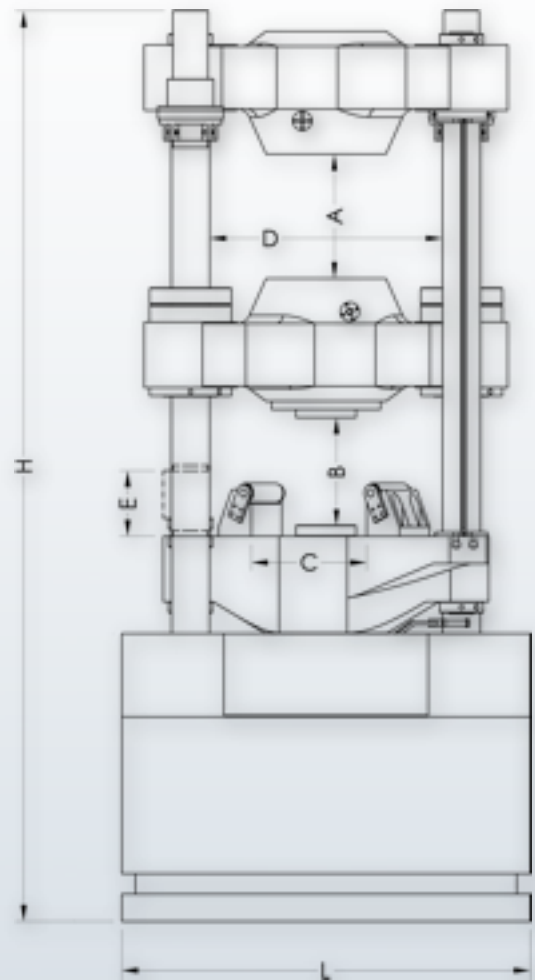# UNIVERSAL TESTING MACHINE
Model: UTK 100 MPC

FEATURES:

▸ Specially designed for high tensile TMT bars.

▸ Supports Tensile, Compression, Transverse, Shear and other similar tests.

▸ Load capacity 100 Ton (1000kN).

▸ Testing of round bars from 10 to 40 mm.

▸ Stroke length of 250mm.

▸ Available in Mechanical and Computerized control Panel.

▸ PC based software for capturing load Vs extension data.

▸ Extensive analysis with Yield, Proof and report.

FEATURE MODEL >	-	UTK-100 MPC
Maximum capacity	kN	1000
Measuring ranges (mechanical) 1,2,3,4	kN	0-100, 0-250, 0-500, 0-1000
Resolution for above load ranges	kN	0.2, 0.5, 1, 2
Resolution with electronic system with auto-ranging.	kN	0.05 up-to 200 0.25 above 200
Vertical Daylight for tensile test (A)	mm	50-850
Vertical Daylight for compression test (B)	mm	0-850
Horizontal Daylight for transverse test (C)	mm	800
Horizontal Daylight between columns (D)	mm	750
Piston stroke (E)	mm	0-250
Piston speed (at no load)	mm/min	0-80
Power Specs: kw / Voltage / Phase	-	2.6 / 400-440 / 3
Dimension (Loading Unit) LxWxH	mm	2420 x 820 x 2900
Weight approx.	kg	5500
STANDARD ACCESSORIES		
Grips for round specimens (diameter) Ø	mm	10-25, 25-45, 45-70,
Grips for flat specimens (thickness)	mm	0-22, 22-44, 44-65
Compression plates	mm	Ø 160
Radius of punch tops	mm	16, 22

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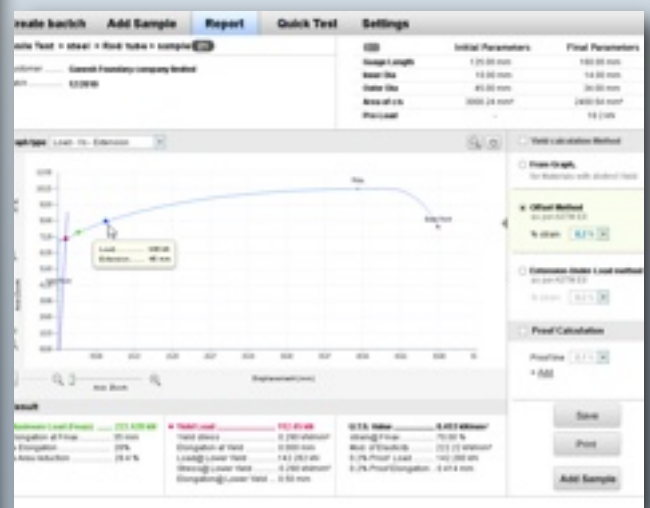
For extension test a high precision Extensometer is used to capture the true elongation in the specimen. It is available in different gauge-lengths from 20 to 100mm

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.

25
25 GLORIOUS YEARS