

Universal Testing Machine (UTM)1000kN

CST-1000

CANTROL
Construction Materials
Testing Equipment

Control Universal Testing Machines and accessories are designed to perform tensile tests on steel reinforced bars from diameter 8-40mm and flat max. 1x15 mm and compression tests on concrete cube specimens max. side 200 mm and cylinders max. diameter 6*12inches (150x 320) mm. Each part has been designed to manufacture machines with a high degree of accuracy and mechanical stability that complies to BS 1610, ASTM C-39, E4 AASHTO T-22, NF P18-411, DIN 51220.

Standards:

BS1610,
ASTM C-39 E4
AASHTO T-22,
NF P18-411,
DIN 51220

Model: CST-1000/1

CST-1000/2

TECHNICAL SPECIFICATION:

*Load capacity in tension (kN), %1 accuracy	1000
*Load capacity in compression (kN), %1 accuracy	1000
* Using Load Cell to measure force C3 class accuracy	
*Max. vertical clearance with compression test accessory (mm)	340
*Max. distance between grips, excluding piston travel (mm)	300
*Distance between columns (mm)	350
*Max. ram stroke (mm), Limit Switch protected	300
*Resolution digital display (kN-mm)	0.01
*Load measurement Accuracy (starting from the first 10% of load range)	± 1%
*Strain measurement Accuracy (mm)	0,01
*Rate of piston speed, mm/min, digitalized tool bar	0-150
*Types of sealing and cylinder guide	PTFE
*Set of compression test (Accessories), upper spherical seat and bearing plate, lower bearing plate and steel spacers are included.	Yes
*Set of wedges from 8-40mm Rebar steel sample sizes	
* Set of flat wedges for Flat wedges for flat steel max. cross section area less than 1200mm ²	
*7 inches touch screen display, FATEK Brand	
*Compression or tension test method	Yes
*Input Sensors Channels	4
*Extensometer ,0.001 mm accuracy	Yes
*Online display of speed rate based on stress control and strain control	Yes
*Online Display of Force, Tension, Speed Rate, Elongation	Yes
*Engineering Units	N, Kg,
Lbf	
*Output of Data (Excel File) through PC to save and calculation of results by software	yes
*Controlling of process of Testing by Digital Controller	Yes
*Online Drawing of Tension/ Strain , Calculating max. Tension, Max. elongation	Yes
*Preparing of Report of Test in Excel	Yes
*Ten Point Calibration Method	Yes

