



# SERVO CONTROL COMPUTERIZED UNIVERSAL TESTING MACHINE



**BCUM-(S)SERIES** 





BANBROS BCUM-(S)Series electromechanical universal 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 200 kN force.

#### **TECHNICAL SPECIFICATION:**

Model No.	BCUM- 1KN(S)	BCUM- 2.5KN(S)	BCUM- 5KN(S)	BCUM- 10KN(S)	BCUM- 25KN(S)	BCUM- 50KN(S)	BCUM- 100KN(S)	BCUM- 200KN(S)	
Load capacity	1Kn	2.5kN	5Kn	10Kn	25Kn	50Kn	100Kn	200Kn	
Load L.C.	0.1N	1	LN 0.00			5kN		0.01kN	
Grip Separation Min-Max	0-300mm		0-800mm						
Compression space	300mm		800mm						
Testing Speed	Step-less speed of 0.5 to 500mm/min								
Elongation L.C.	0.1mm with digital optical encoder								
Motor capacity	0.5	ikw		0.75kw		11	kw	2kw	
Input Power	Single phase 220V 50Hz								
Safety Feature	Emergency Stop, Over-travel protection, Over load protection & Auto Break judgment provided with each model								
Design Feature	Heavy duty 'Best in class' twin guided double pillar design for best stability and higher stiffness								

#### 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 Extenso Meter Facility Optional.





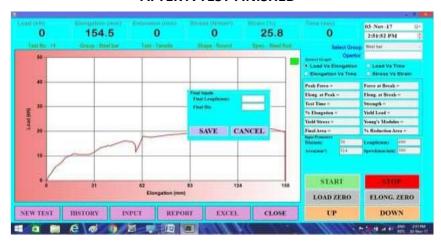
#### **SOFTWARE SPECIFICATIONS AND FACILTIES: -**

- Pc Based Dynamic Software.
- Fully Pc Controlled Software.
- Protection With A Password To Avoid Misuse.
- Real Time Graph.
- Load Vs Displacement Graph.
- Load Vs Time Graph.
- Displacement Vs Time Graph.
- Stress Vs Strain Graph.
- Single Test And Single Report.
- Multi Test And Multi Report.
- Staststical Analyse Of Multi Report.
- Test Report During Test.
- Test Reports Re Call Facility From History.
- Data Back Up And Restore Facility.
- Customer End Report Generation.
- Reports Saved As Word, Excel And Pdf Format.
- This Software Supports Windows 7,8,10,11,

#### **TEST WINDOW**



#### **AFTER A TEST FINISHED**







## **TEST REPORT**

### BANBROS

Test Date	03-Nov-17 2:55:58 PM
Test No	17
Specimen	Steel Rod
Shape	Round
Reference No:	300
Sample name	rod
Party name	Banbros
Model No;	1010
Dia	20 mm
Length	600 mm
Area	300 mm²

33.6 kN			
3.8 kN			
42.6 mm			
78 mm			
8.4 sec			
112 N/mm²			
13			
32.8 kN			
109.333 N/mm²			
175.972			
38.465			
87.178			
	3.8 kN 42.6 mm 78 mm 8.4 sec 112 N/mm² 13 32.8 kN 109.333 N/mm² 175.972 38.465		

