

Universal Tensile Tester

Model TM-020N

Brand: CGM Technologies

The Universal Tensile Tester machines are designed to test mechanical properties such as tensile strength (tear resistance test), Elongation at break point, strength of material (modulus), elongation capacity of the material (elongation) of the sample sheet. It can be used to test on a variety of materials, has an automatic machine operation system and can also be controlled by connecting to a computer.



Model TM-020N (1 station)



Model TM-020N (3 stations)

Specification Sheet Model TM-020N	
Max load capacity	20kN
Accuracy force	±1 % according to ISO 7500-1 (JIS B 7721) Class 1
Load cell	Select from 500N, 1kN, 5kN, 10kN, 20kN (One piece of load cell is included as standard)
Tensile Grips	Pneumatic type
Extensometer	Contact type (Encoder sensor) (optional)
Cross-head stroke	780 mm
Testing speed	0.5 - 1,500 mm/min
Crosshead speed accuracy	±0.1% (0.5 to 1,500mm/min.)
Auto Return	50 - 1,500 mm
Test Report	N, kgf, kN, lbf, cm, mm, MPa, N/cm ² , kgf/cm ²
Export data	Force, distance (.csv)
Data Communication	USB
Associated program	CGM software for Window 10
Power Supply	AC 220 Volts, 50Hz, 1 Phase)
Dimensions (3 stations)	W965 x D620 x H1600mm
Mass (3 stations)	Approx. 225 kg

The picture shows an example program of Universal Tensile Tester

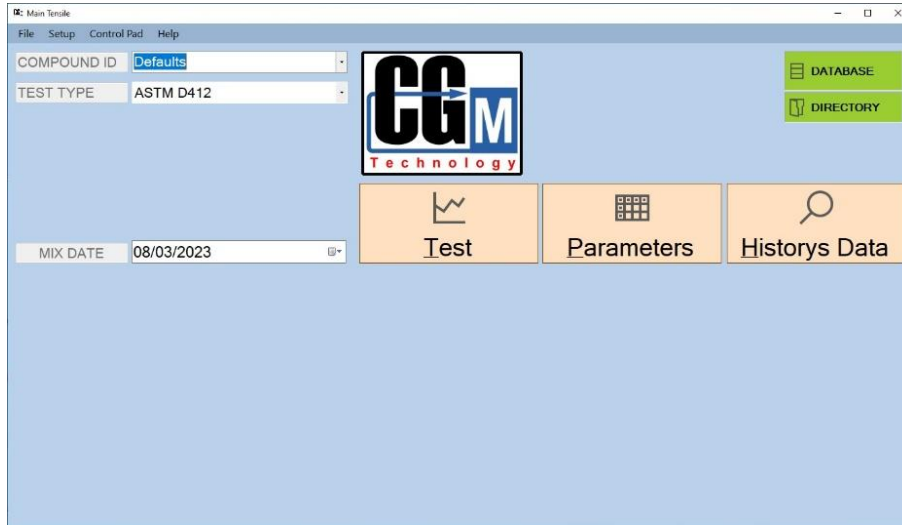


Fig. 1 Main window

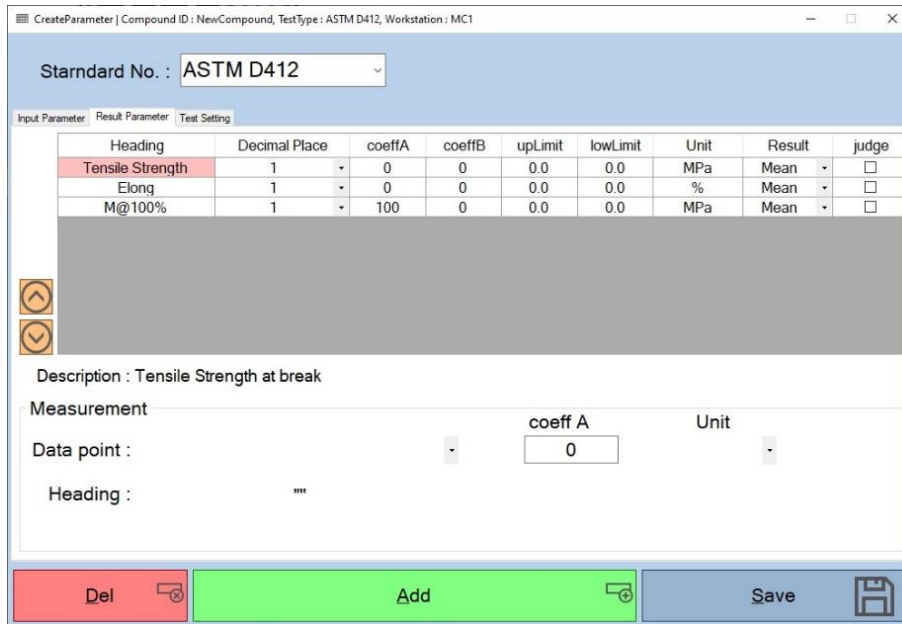


Fig. 2 Displays the "Create Parameter" (result parameter tab)

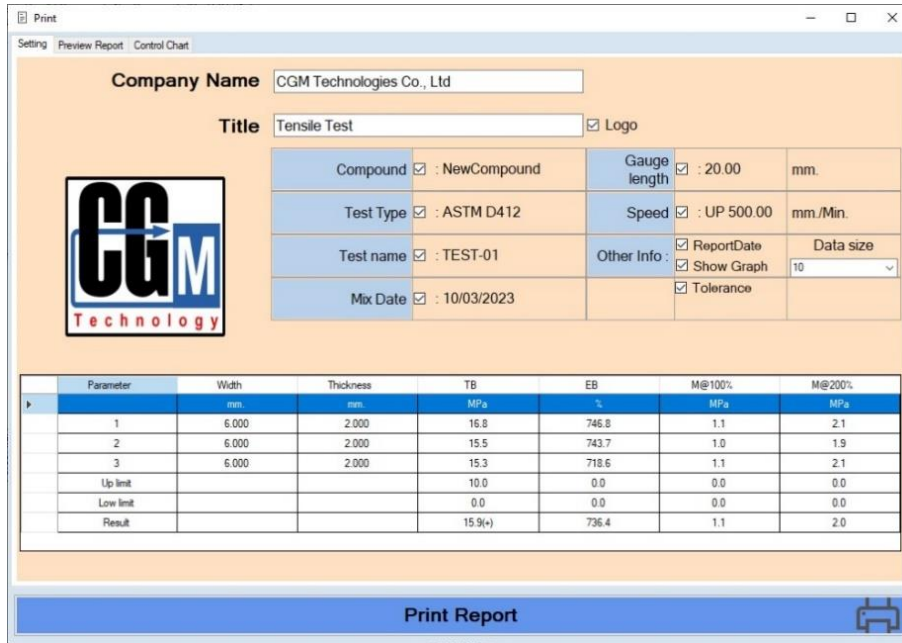


Fig 3. Shows the settings tab after selecting the logo image.

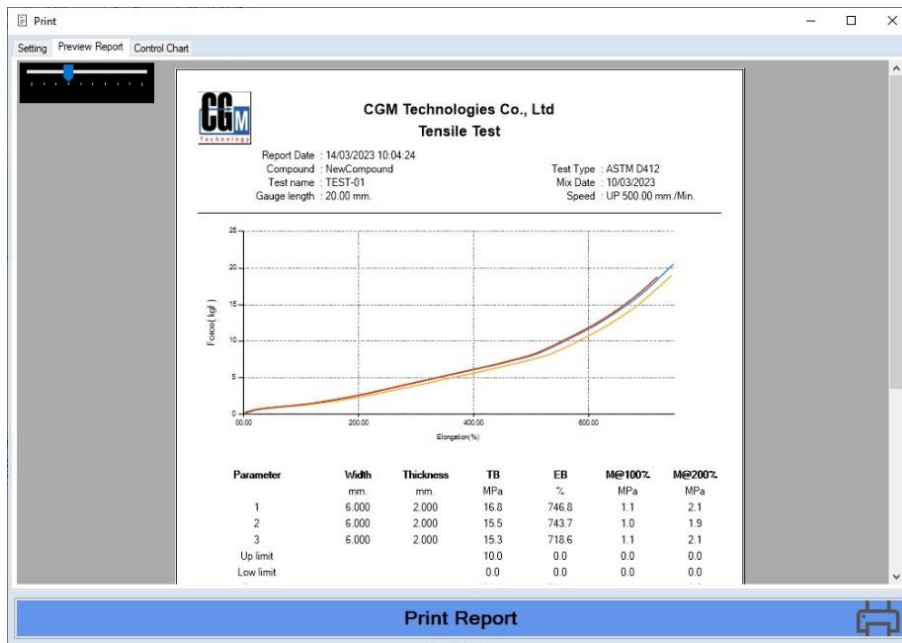


Fig. 4 Shows an example report sheet.