

UTM

UNIVERSAL TESTING MACHINE



MADE IN THAILAND



MTS Prime

The Stealth MTS Prime Series desktop Universal Testing Machine are designed to test a wide spectrum of materials including wire & foil, plastics, rubber, textiles, paper, yarn, adhesives, ceramics, timber, foods, composites & finished components in tension, compression, flexural or shear, Maximum frame capacities are from 20N to 1,000N In compliance with various international standards, such as ASTM, BS EN, JIS, ISO, IEC, TISI

Ordering Information



Tech-Quality Co.,Ltd.



Call : +662-3286878



2/13 Sukapiban 2 Rd.,
Pravet,Pravet, Bangkok 10250
Thailand



+662-3286818



www.tech-quality.com



info@tech-quality.com

@techquality



Features

1. LOW COST
2. "BRAVO" Load cell
3. US Digital Encoder
4. Modern extruded profile High-quality load-frame design
5. 10 Point calibration adjustment
6. High Accuracy Ball Screw
7. Force Resolution 1/500,000 FS
8. Force measurement range 2% to 100%FS
9. Data Transfer Rate to PC 1 kHz...
10. BlackHole Data analysis and control Software
11. Multi graph display
12. Dual – X Axis Graph
13. Function Probe Guide
14. YouTube Guide
15. Video Training on BlackHole Software
16. Standard Library Test Set up

Simple to use Test Setup

Limit Testing Break Testing Loop Testing Preload
Setup Elongation Auto Return, Over Load
Protection, Auto Save after test

Applications

- Bulk Analysis
- Tension / Compression
- Extrusion / Back Extrusion
- Puncture & Penetration
- Shear
- Bend & Break
- Peel & Seal

Muli-control mode

- Constant speed
- Constant Displacement
- Multi-step control



Specifications

- MTS Prime Machine Capacity : 1KN
- Crosshead Speed Range : 25-800mm/min
- Displacement Resolution : 0.005mm
- Crosshead Travel : 550 mm
- Load Cell Accuracy : +/- 0.5% FS
- Speed Accuracy : 2% FS
- Data Transfer Rate to PC : 1 kHz..
- Operating Temperature : 5° to 35°C (41° to 95°F)
- Communication port : USB
- Supply Voltage : 230Vac ±10% 50-60 Hz 3Amp
- High Accuracy Ball Screw Type
- Weigh Approx : 30kg
- Power : 220Vac/ 50Hz
- Warranty 1 Year : 1 Year



Blackhole software

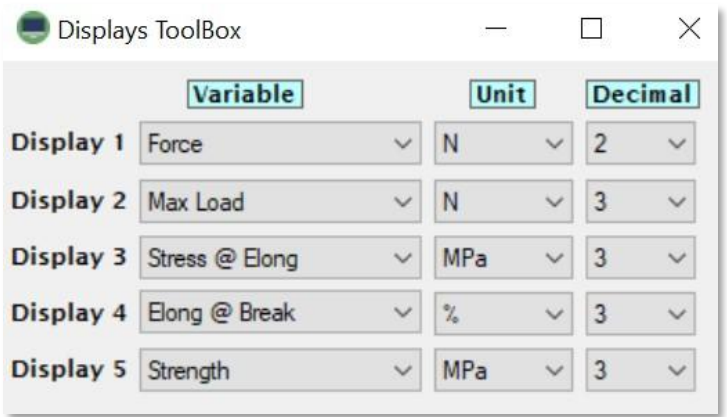
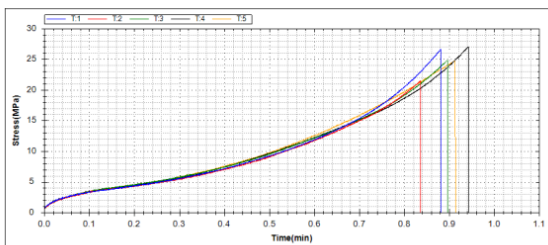
Excel CSV, Excel, PDF
User design reports



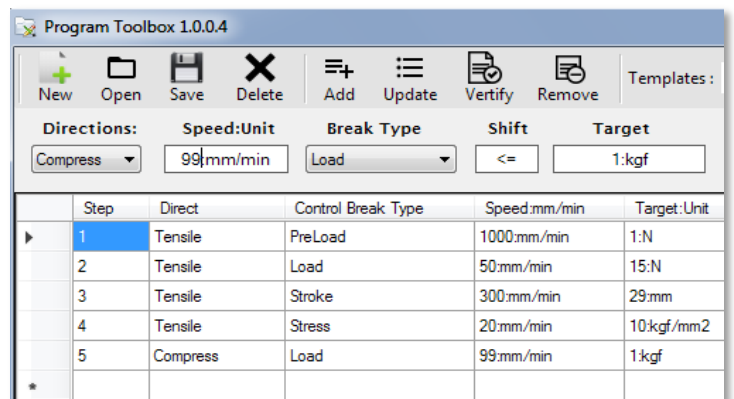
Tech Quality Co.,Ltd

Address : 2/13 Sukapiban 2 Rd.,Pravet , Bangkok 10250 Thailand.
Tel : +662 3286878 (Auto)
Website : www.tech-quality.com
ID LINE : @techquality

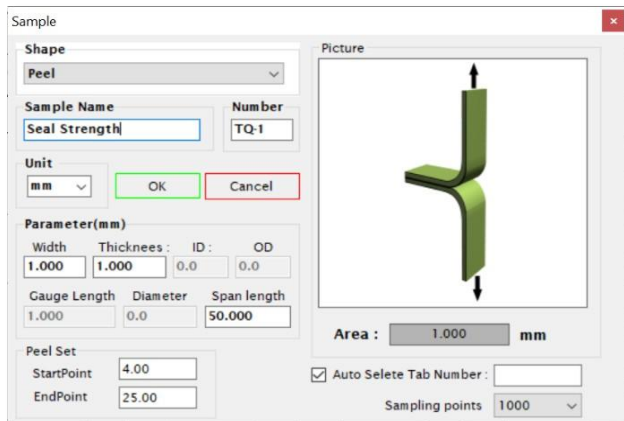
No	Date	Time	Sample Name	Max Load (N)	Strength (MPa)	Elong @ Break (%)	Stress @ 300% (MPa)
T1	15/11/2564	2:12:39 PM	AT42	13.3078	26.6156	636.8040	5.1382
T2	15/11/2564	2:17:27 PM	AT42	10.7363	21.4727	648.4660	4.9046
T3	15/11/2564	2:25:10 PM	AT42	12.3998	24.7998	618.2240	5.4528
T4	15/11/2564	2:28:51 PM	AT42	13.5199	27.0398	651.0140	5.1001
T5	15/11/2564	2:31:34 PM	AT42	12.3998	24.7998	620.5360	5.4051
Min				10.7363	21.4727	618.2240	4.9046
Max				13.5199	27.0398	651.0140	5.4528
Mean				12.4727	24.8455	634.8098	5.2002
SD				1.0977	2.1953	15.8273	0.2275
COV				8.8008	8.8008	2.4940	4.3750



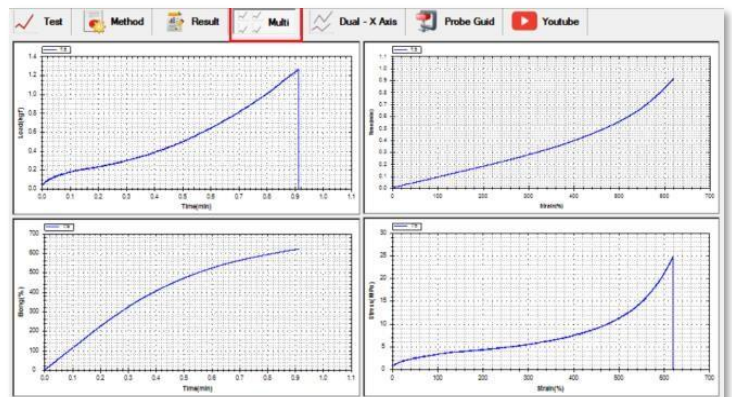
Multi Display & Decimal Point



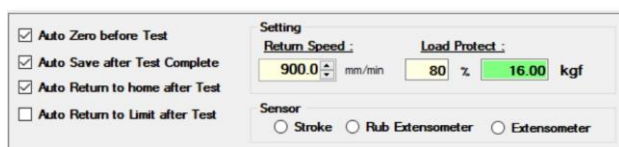
Multi-stage testing with Bravo software



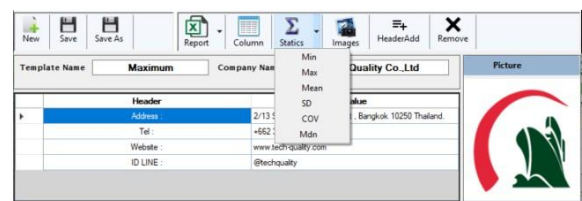
Sample Information



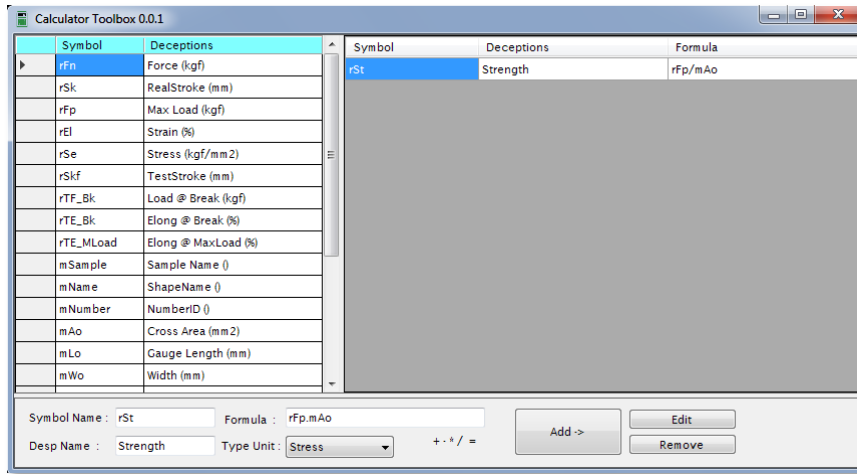
Multi Graph Display



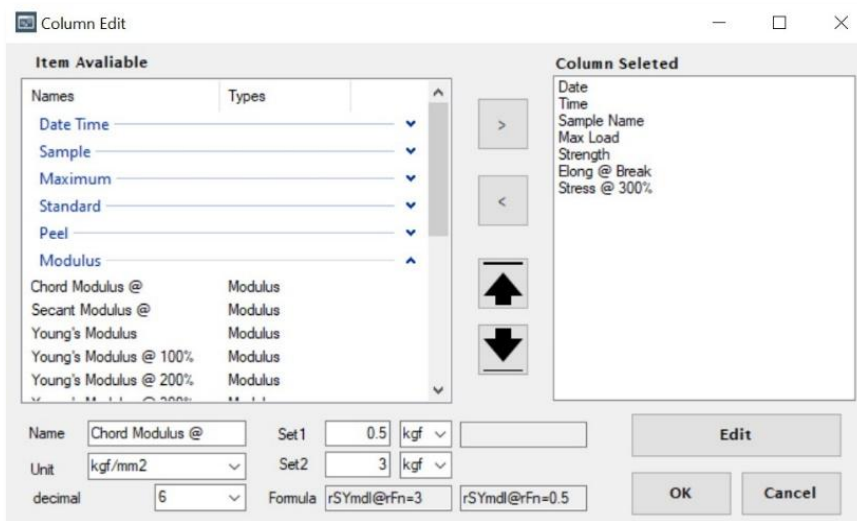
Auto test setup & load protect



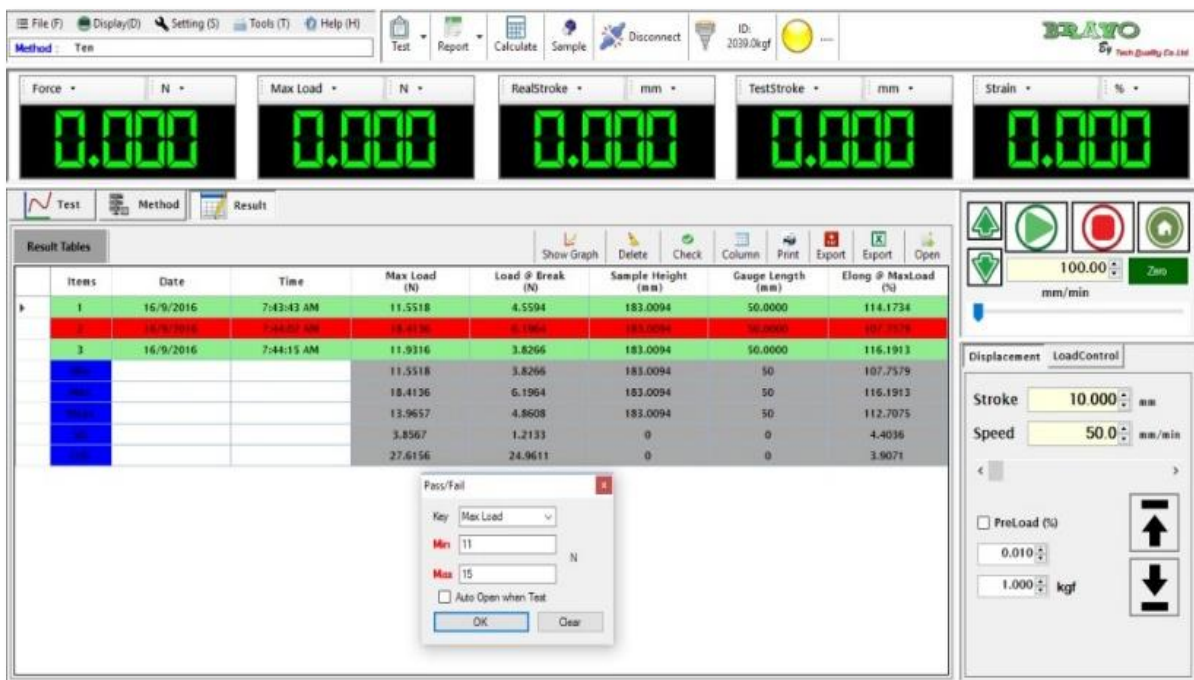
Statistic Reports



“Formula design by user”

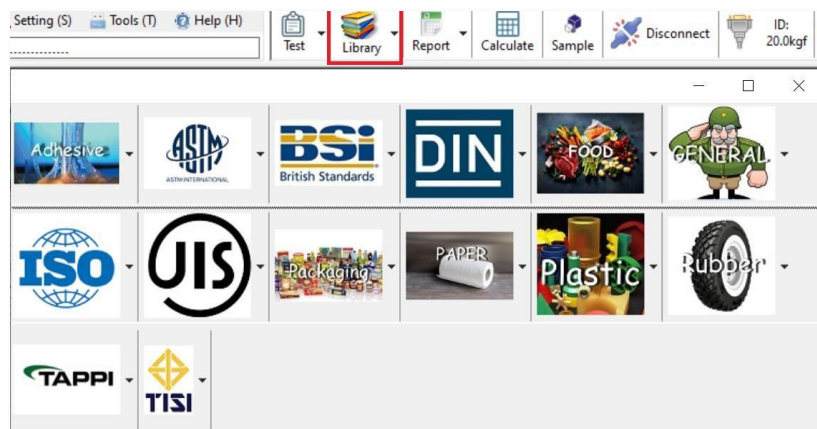


“Selectable result”



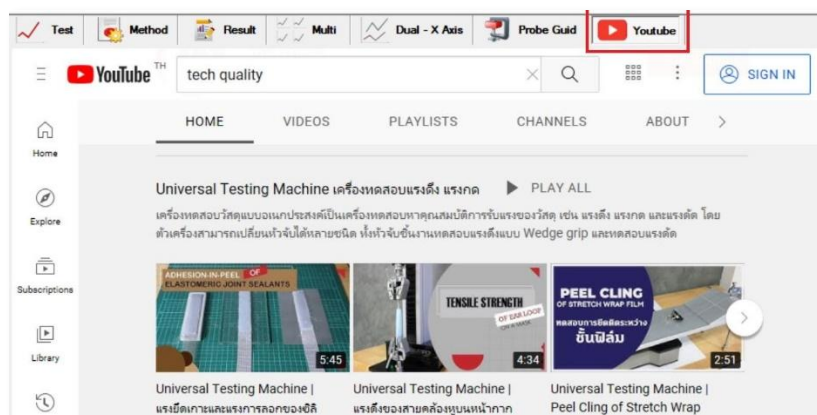
“Results can be color-coded for immediate pass/fail recognition”

Library



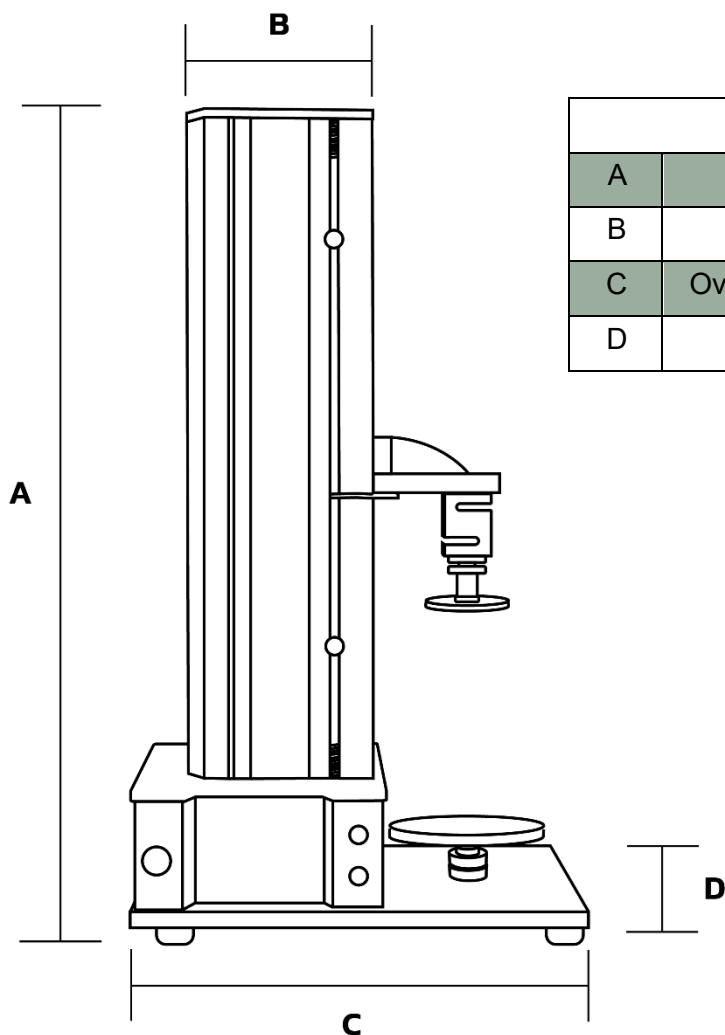
“Library Test Standard”

“Probe Guide”



“YouTube Guide”

Dimension



Dimension		mm
A	Machine Height	850
B	Machine Width	200
C	Overall Width (Including Base)	465
D	Machine Depth	255



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