



UNIVERSAL TESTING MACHINE

Made In Thailand

BRAVO

By *Tech Quality Co.,Ltd.*

The Stealth MS Pro Series desktop Universal Testing Machine are designed to test a wide spectrum of materials including metal 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 5KN In compliance with various international standards, such as ASTM, BS EN, JIS, ISO, IEC, TISI

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Features

1. Panasonic servo motor drive set
2. UK or JAPAN Brand Load cell grade 0.05%
3. 10 Point calibration adjustment
4. High Accuracy Ball Screw
5. Load Resolution $1/10^9$
6. Force measurement range 0.1% to 100%FS
7. Data Transfer Rate to PC 1 kHz..
8. Automatically sample Height measurement
9. Modern extruded profile High-quality load-frame design
10. Load Measuring System EN ISO 7500:2015 Class 0.5
11. USB or Wireless Communication or Ethernet
12. Smart Control Box & HAND-HELD Remote control
13. 32-bit A/D converter/ EEPROM Plug



Simple to use Test Setup

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

Multi-control mode

- Position Control
- Strain Control
- Force Control
- Stress Control
- Multi-step control

Applications

Metal, Plastic, Rubber, Textile, Synthetic, Wire, Cable, Food, Packaging, Autopart, AeroSpace, Woods, Composit etc.

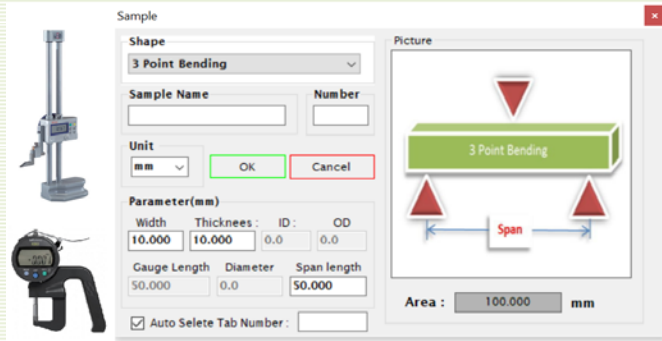
Test Types

Tensile Testing • Compression Testing • Flexural Testing • Friction • Insertion/Extraction • Peeling • Tearing • Creep/Relaxation

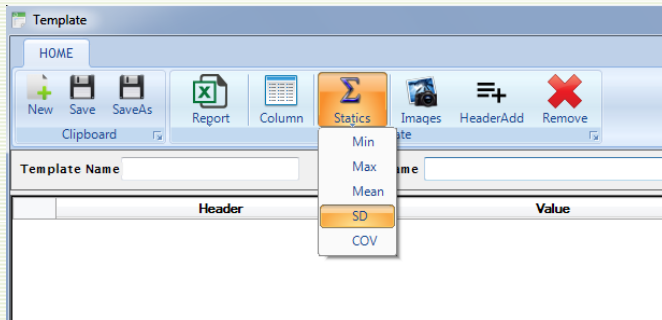
Specifications : Bench-top frame to apply loads - from 1 KN to 5 KN capacity

Model : Stealth	MS1 Pro	MS1/LL Pro	MS2 Pro	MS5 Pro	Remark
Capacity (KN)	1	1	2	5	
Load Accuracy (%) FS	0.1	0.1	0.1	0.1	
Min. Load Resolution	1/10 ⁹	1/10 ⁹	1/10 ⁹	1/10 ⁹	
Crosshead Speed (mm/min)	0.001 - 1500	0.001 - 1500	0.001 - 1500	0.0005 - 1000	
Maximum Return Speed (mm/min)	2,200	2,200	2,200	1,500	
Speed Accuracy (%) FS	0.1	0.1	0.1	0.1	
Extension Resolution (µm per encoder count)	0.0003	0.0003	0.0003	0.0003	
Crosshead Travel (mm)	560	1300	560	850	
Throat Depth (mm)	90	90	90	90	
Weight Approx (kg)	35	70	45	70	
Plug 'n' Play, automatic identification of BRAVO series load cells					
The Windows® 10 (64 Bit) compatible Black Hole Software					
Power 220Vac/ 50Hz					
Operating Temperature 5° to 35°C (41° to 95°F)					
Warranty 1 Year					

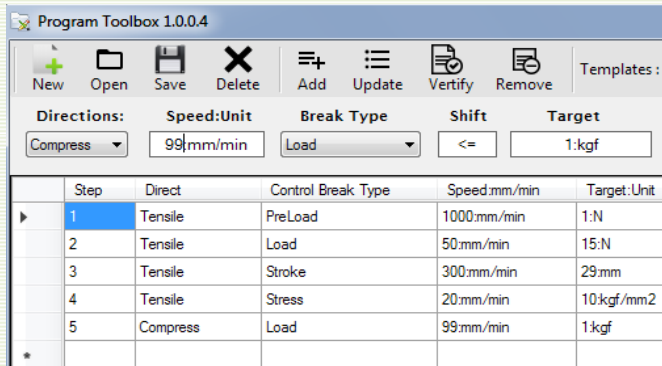
Sample Information & Connect to Mitutoyo Gauge



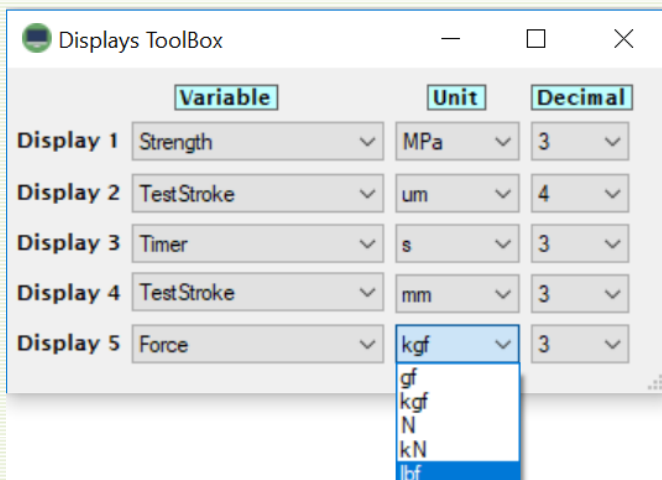
Statistic Reports



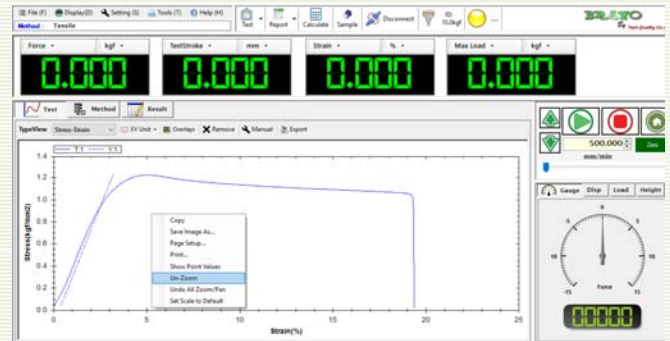
Multi-stage testing with Black Hole software



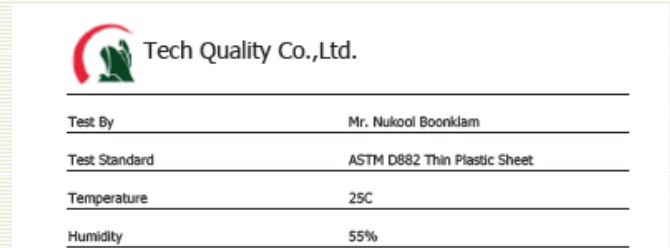
Multi Display - Unit & Decimal Point



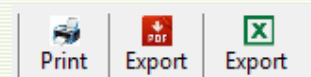
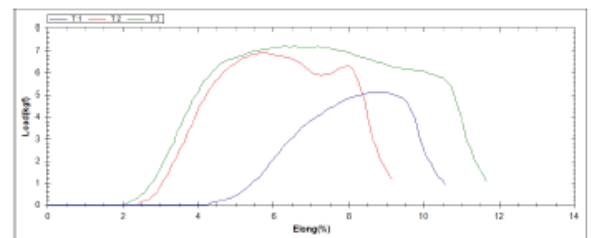
Software & Report, Offset & Zoom Graphics



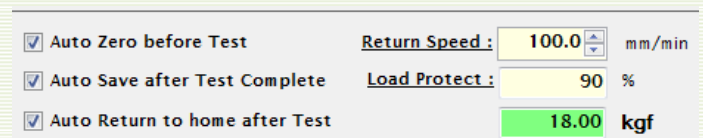
Excel csv ,Excel , PDF User design Reports



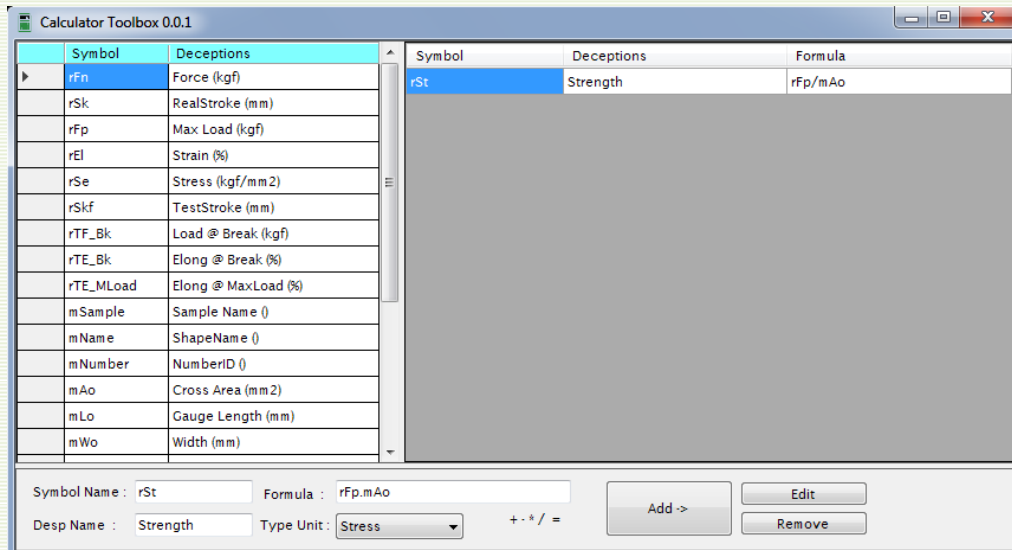
No	Date	Gauge Length (mm)	Thickness (mm)	Width (mm)	Max Load (mm)	Strength (MPa)	Elong @ Break (%)
T1	28/5/2018	50.0000	10.0000	10.0000	5.0000	0.5000	89.5000
T2	28/5/2018	50.0000	10.0000	10.0000	6.1980	0.6078	13.3892
T3	28/5/2018	50.0000	10.0000	10.0000	5.0235	0.4828	100.5591
T4	28/5/2018	50.0000	10.0000	10.0000	5.0285	0.4831	101.2236
T5	28/5/2018	50.0000	10.0000	10.0000	6.0144	0.5888	118.5042
T6	28/5/2018	50.0000	10.0000	10.0000	6.0216	0.5905	93.0473
T7	28/5/2018	50.0000	10.0000	10.0000	5.0220	0.4825	82.2098
T8	28/5/2018	50.0000	10.0000	10.0000	4.9101	0.3933	85.4156
T9	28/5/2018	50.0000	10.0000	10.0000	6.0385	0.5920	98.4304
T10	28/5/2018	50.0000	10.0000	10.0000	5.1285	0.5030	10.5700
T11	28/5/2018	50.0000	10.0000	10.0000	6.8259	0.6792	9.1414
T12	28/5/2018	50.0000	10.0000	10.0000	7.2116	0.7072	11.6477
Min		50	10	10	4.9101	0.3933	8.1414
Max		50	10	10	7.2116	0.7072	116.5042
Mean		50	10	10	5.6439	0.5525	64.8021
SD		0	0	0	0.8152	0.0887	41.6827
COV		0	0	0	18.2148	18.2145	64.182



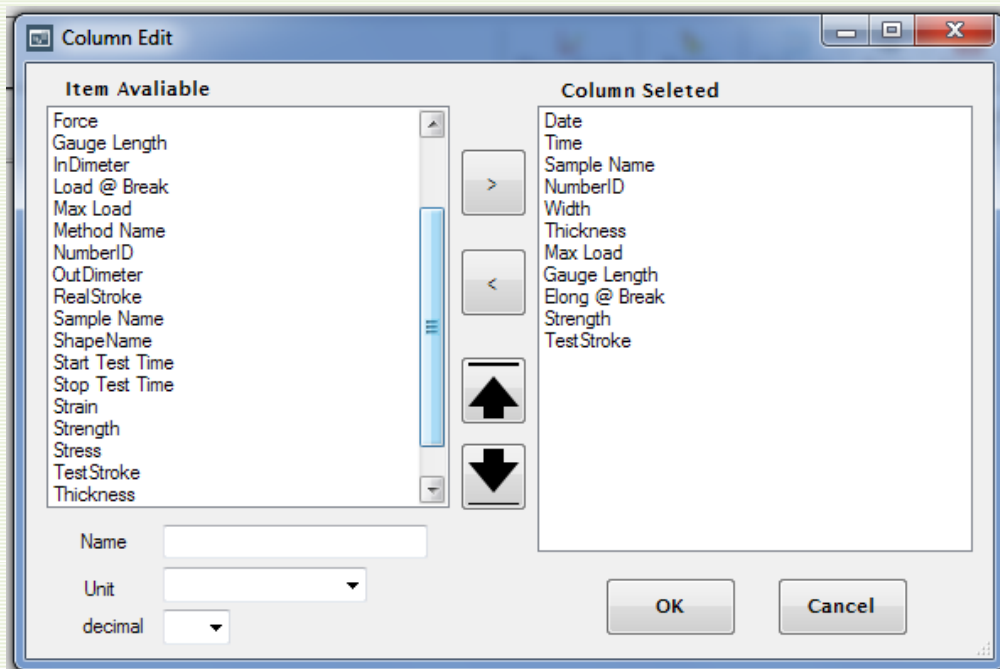
Auto test setup & load protect



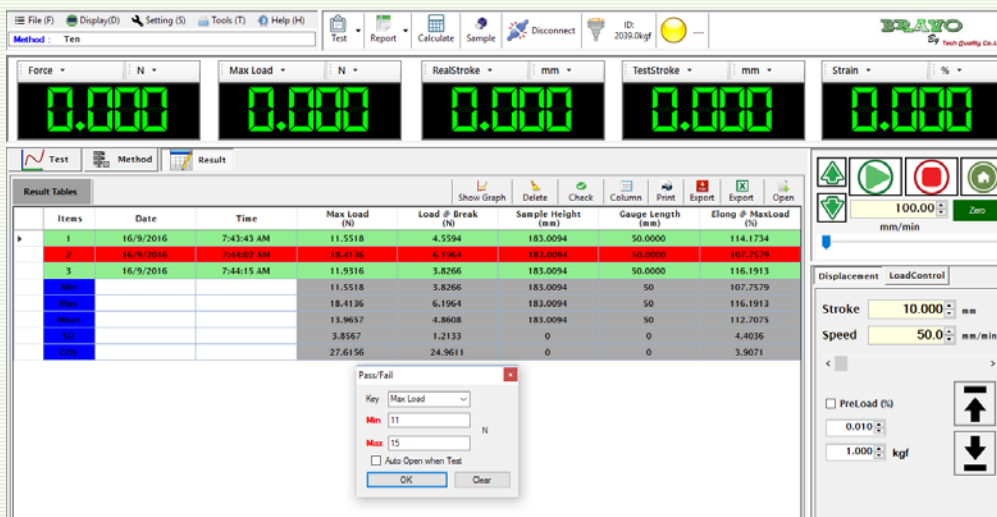
Formula Design by user



Selectable Result

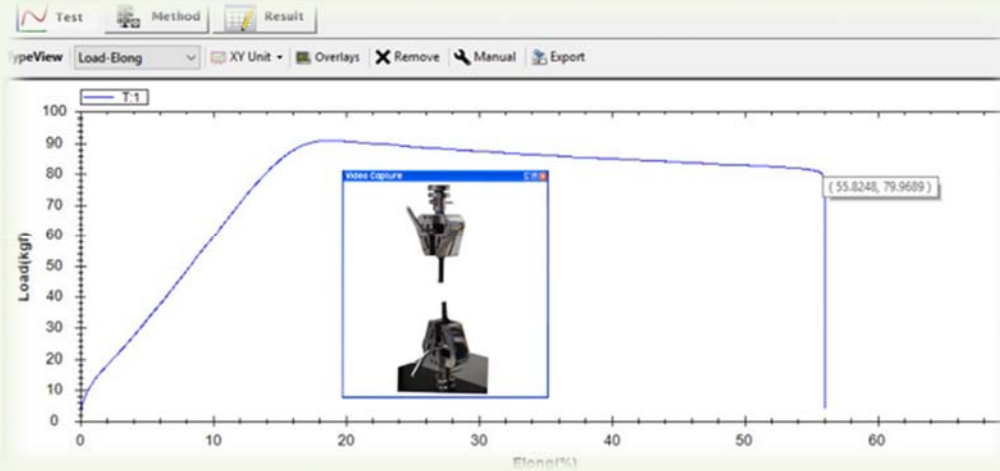


Results can be color coded for immediate pass/fail recognition.

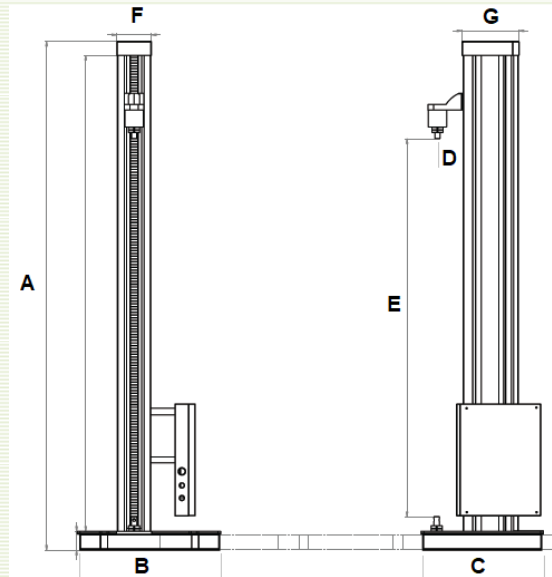


Video and still capture

Video Capture and Synchronisation System enables UTM users to view 20fps video recordings frame by frame. it's a fantastic tool for teaching physical material test for those new to the field, or to help you gain a frame-by-frame understanding of your product strength.



Dimension



unit (unit)		MS1 Pro	MS1/LL	MS2 Pro	MS5 Pro
A	Machine Height	1078	1818	1078	1378
B	Machine Width	510	510	510	510
C	Machine Depth	440	440	440	440
D	Throat Depth	90	90	90	90
E	Crosshead Travel	560	1300	560	850
F	Column Width	120	120	120	120
G	Column Depth	200	200	200	200

Ordering Information

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