



UNIVERSAL TESTING MACHINE

Made In Thailand

BRAVO

By *Tech Quality Co.,Ltd.*

The Stealth MT 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 50KN 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 1/10⁹
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

- Constant speed
- Position
- Load Rate
- Constant Stress & Strain
- Multi-step control

Applications

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

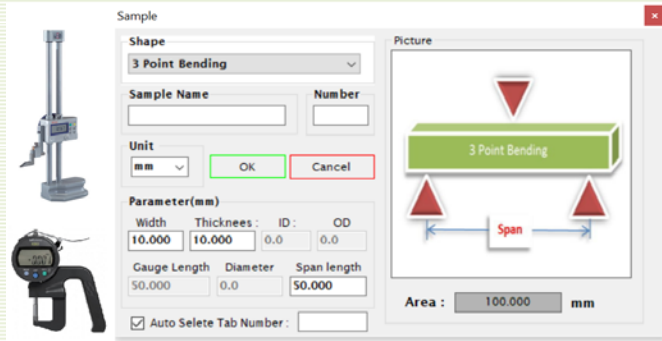
Test Types

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

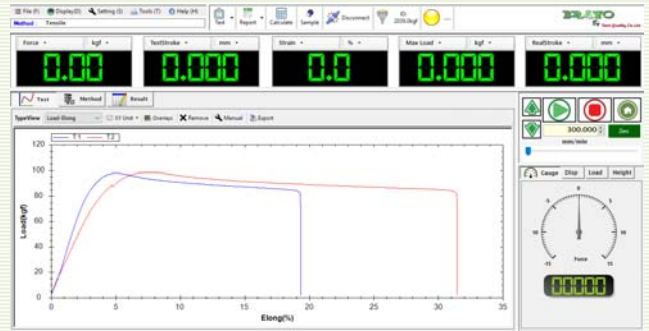
Specifications : Bench-top frame to apply loads - from 5 KN to 50 KN capacity

Model : Stealth	MT5 Pro	MT10 Pro	MT20 Pro	MT30 Pro	MT50 Pro
Capacity (KN)	5	10	20	30	50
Load Accuracy (%) FS	0.1	0.1	0.1	0.1	0.1
Min. Load Resolution	1/10 ⁹	1/10 ⁹	1/10 ⁹	1/10 ⁹	1/10 ⁹
Crosshead Speed (mm/min)	0.0001 – 1250	0.0001 - 1250	0.0001 - 1250	0.0001 - 1000	0.0001 - 600
Speed Accuracy (%) FS	0.1	0.1	0.1	0.1	0.1
Extension Resolution (µm per encoder count)	0.0003	0.0003	0.0003	0.0003	0.0003
Crosshead Travel (mm)	1,080	1,080	1,080	1,080	1,080
Crosshead Travel Extended (mm)	1,308	1,308	1,308	1,308	1,308
Width Between Columns (mm) can be offered upon request	400, 500 or 650	400, 500 or 650	400, 500 or 650	400, 500 or 650	400, 500 or 650
Weight Approx (kg)	130	130	130	160	170
Load Measuring System : EN ISO 7500-1:2015, Class 0.5 ASTM E4					
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					

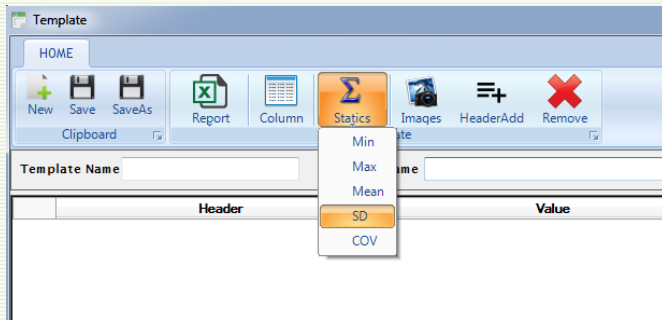
Sample Information & Connect to Mitutoyo Gauge




Software & Report



Statistic Reports



Excel csv ,Excel , PDF User design Reports



Tech Quality Co.,Ltd.

Test By: Mr. Nukool Boonklam

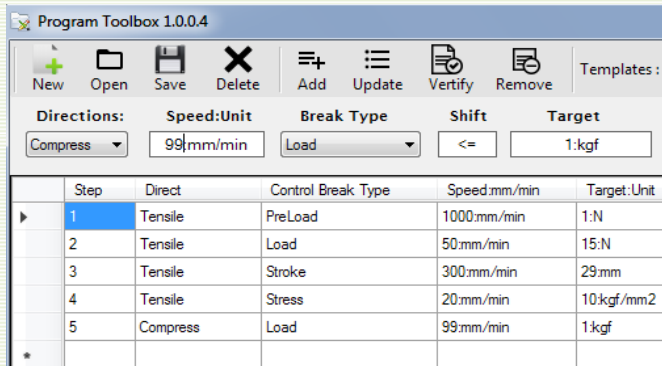
Test Standard: ASTM D882 Thin Plastic Sheet

Temperature: 25C

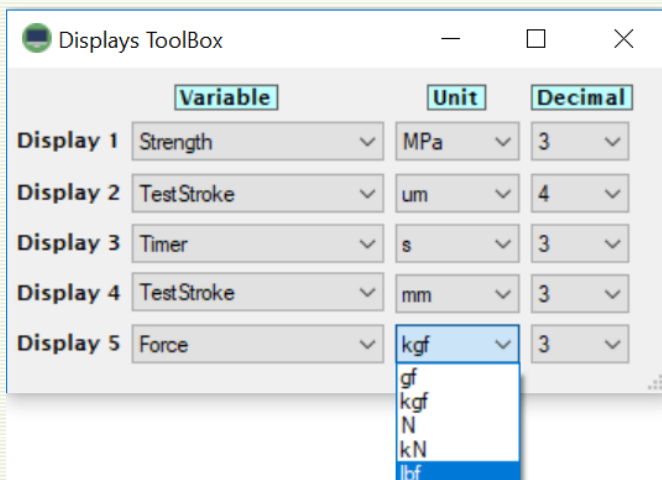
Humidity: 55%

No	Date	Gauge Length (mm)	Thickness (mm)	Width (mm)	Max Load (kg)	Strength (MPa)	Elong @ Break (%)
T1	28/5/2018	50.0000	10.0000	10.0000	5.5508	0.5508	89.2900
T2	28/5/2018	50.0000	10.0000	10.0000	5.1900	0.5190	13.2802
T3	28/5/2018	50.0000	10.0000	10.0000	5.0235	0.4825	100.5891
T4	28/5/2018	50.0000	10.0000	10.0000	5.0385	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	93.8473
T7	28/5/2018	50.0000	10.0000	10.0000	5.0220	0.4825	95.2089
T8	28/5/2018	50.0000	10.0000	10.0000	4.9101	0.3853	85.4196
T9	28/5/2018	50.0000	10.0000	10.0000	5.0808	0.5020	84.4934
T10	28/5/2018	50.0000	10.0000	10.0000	5.1288	0.5050	10.5700
T11	28/5/2018	50.0000	10.0000	10.0000	6.5259	0.6782	9.1414
T12	28/5/2018	50.0000	10.0000	10.0000	7.2116	0.7072	11.6477
Min		50	10	10	4.9101	0.3853	8.1414
Max		50	10	10	7.2116	0.7072	118.5042
Mean		50	10	10	5.6439	0.5525	64.8901
SD		0	0	0	0.8152	0.0887	41.6827
COV		0	0	0	18.2148	18.2145	64.182

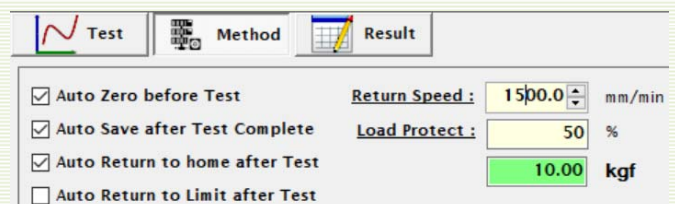
Multi-stage testing with Black Hole software



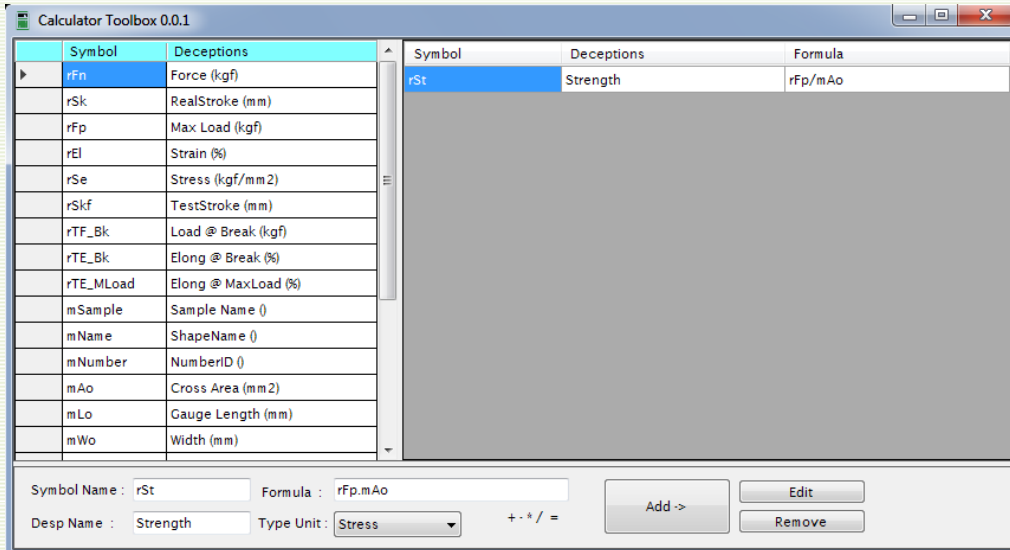
Multi Display - Unit & Decimal Point



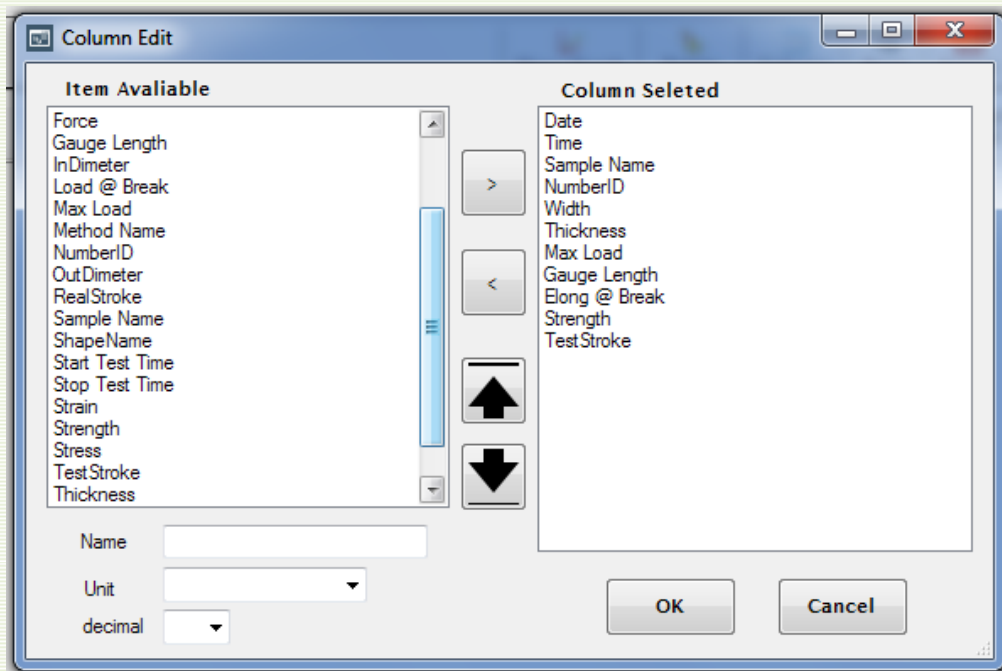
Auto test setup & load protect & return speed



Formula Design by user



Selectable Result



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

Items	Date	Time	Max Load (N)	Load @ Break (N)	Sample Height (mm)	Gauge Length (mm)	Elong @ MaxLoad (%)
1	16/9/2016	7:43:43 AM	11.5518	4.5594	183.0094	50.0000	114.1734
2	16/9/2016	7:44:03 AM	18.4136	6.1964	183.0094	50.0000	116.1913
3	16/9/2016	7:44:15 AM	11.5518	3.8266	183.0094	50.0000	116.1913
Min			11.5518	3.8266	183.0094	50	107.7579
Max			18.4136	6.1964	183.0094	50	116.1913
Mean			13.9657	4.8608	183.0094	50	112.7075
SD			3.8567	1.2133	0	0	4.4036
CV%			27.6156	24.9611	0	0	3.9071

Pass/Fail
 Key: Max Load
 Min: 11 N
 Max: 15 N
 Auto Open when Test

Modern Aluminum extruded profile High-quality load-frame design

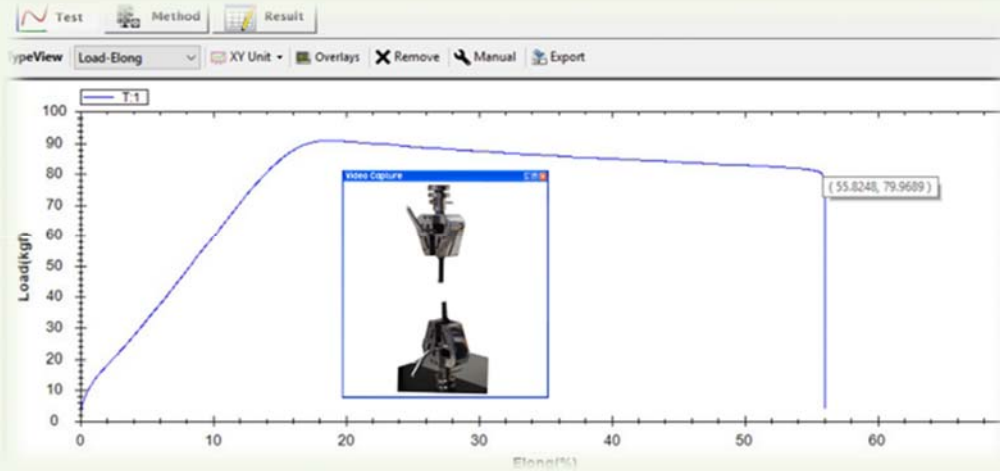


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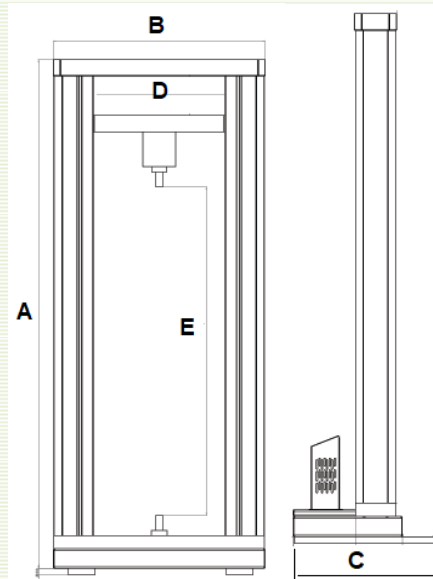


Video and still capture

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



		mm
A	Machine Height	1550
B	Machine Width	698
C	Machine Depth	424
D	Between Columns	455
E	Crosshead Travel	1080

Ordering Information

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