



Tech-Quality Co.,Ltd

 **Made In Thailand**



BRAVO

By *Tech-Quality Co.,Ltd*

MS Pro Series **Universal Testing Machine**

The Stealth M S 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 10KN In compliance with various international standards, such as ASTM, BS EN, JIS, ISO, IEC, TISI



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. Grip to Grip Separation
9. Modern extruded profile High -quality load-frame design
10. Load Measuring System EN ISO 7500:2015 Class 0.5
11. USB Communication
12. Smart Control Box & HAND -HELD Remote Control
13. 32-bit A/D converter/ EEPROM Plug
14. Library Test Standard and Training Video

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

Test Types

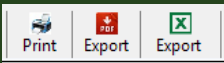
- Tensile Testing
- Compression Testing
- Flexural Testing / Friction
- Tearing / Peeling / Shear
- Insertion / Extraction
- Creep / Relaxation / Cycle

Applications

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

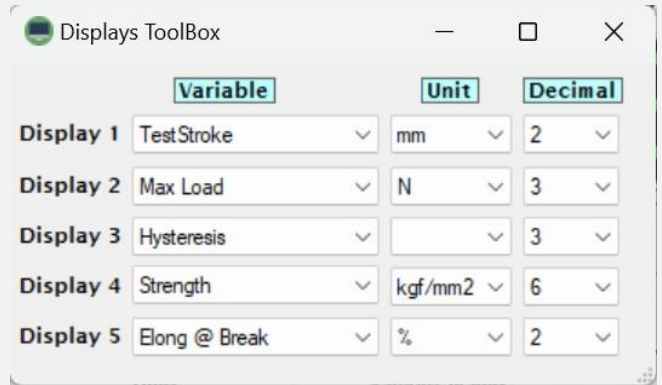
Specifications : Bench-top frame to apply loads - from 1 KN to 5 KN capacity

Model : Stealth	MS1 Pro	MS1/LL Pro	MS1/E Pro	MS2 Pro	MS5 Pro
Capacity (KN)	1	1	1	2	5
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)	0.0002 - 1500	0.0002 - 1500	0.0002 - 1500	0.0001 - 1000	0.0001 - 1000
Maximum Return Speed (mm/min)	1500	1500	1500	1000	1000
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)	560	1,400	850	560	850
Throat Depth (mm)	90	90	90	90	90
Weight Approx (kg)	45	105	70	50	70
	Plug 'n' Play, automatic identification of BRAVO series load cells				
	The Windows® 10 (64 Bit) compatible Black Hole Software				

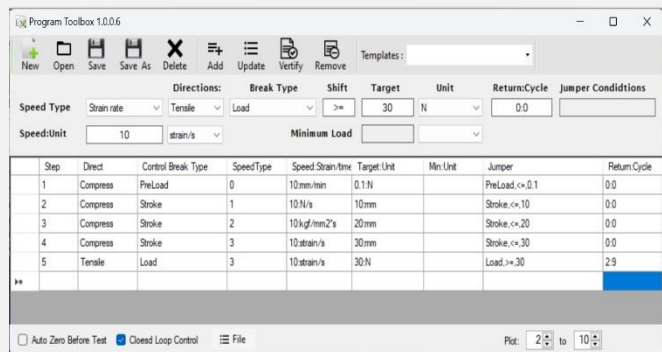


Excel CSV, Excel, PDF
User design reports

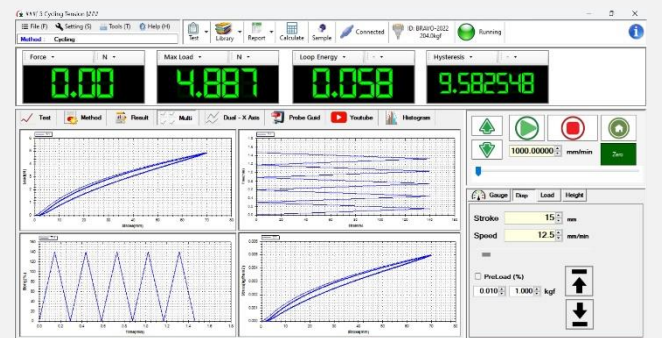
Multi Display - Unit & Decimal Point



Multi-stage testing with Black Hole software



Multi Graph Displays



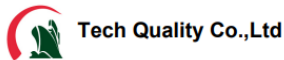
Auto test setup & load protect

- Auto Zero before Test Return Speed : 100.0 mm/min
- Auto Save after Test Complete Load Protect : 90 %
- Auto Return to home after Test 18.00 kgf

Application Probe Guide /YouTube

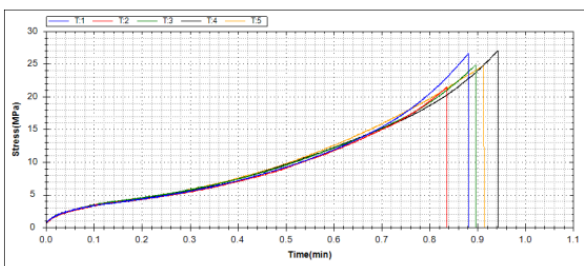


This test method describes the procedure for measuring the toughness and tenacity of bituminous materials. Typically, the test method has been used to characterize elastomer modified asphalts, although values for toughness and tenacity may be obtained for any type of polymer-modified or non-modified asphalt.



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	2:12:38 PM	AT4/2	13.9078	26.6156	636.8040	5.1382
T2	15/11/2564	2:17:27 PM	AT4/2	10.7363	21.4727	648.4660	4.9046
T3	15/11/2564	2:25:10 PM	AT4/2	12.3998	24.7996	616.2240	5.4528
T4	15/11/2564	2:28:01 PM	AT4/2	13.5199	27.0398	651.0140	5.1001
T5	15/11/2564	2:31:34 PM	AT4/2	12.3998	24.7996	620.5360	5.4551
Min				10.7363	21.4727	616.2240	4.9046
Max				13.5199	27.0398	651.0140	5.4528
Mean				12.4727	24.9455	634.6088	5.2002
SD				1.0977	2.1953	16.8273	0.2275
COV				8.8008	8.8008	2.4940	4.3750



Sample Information

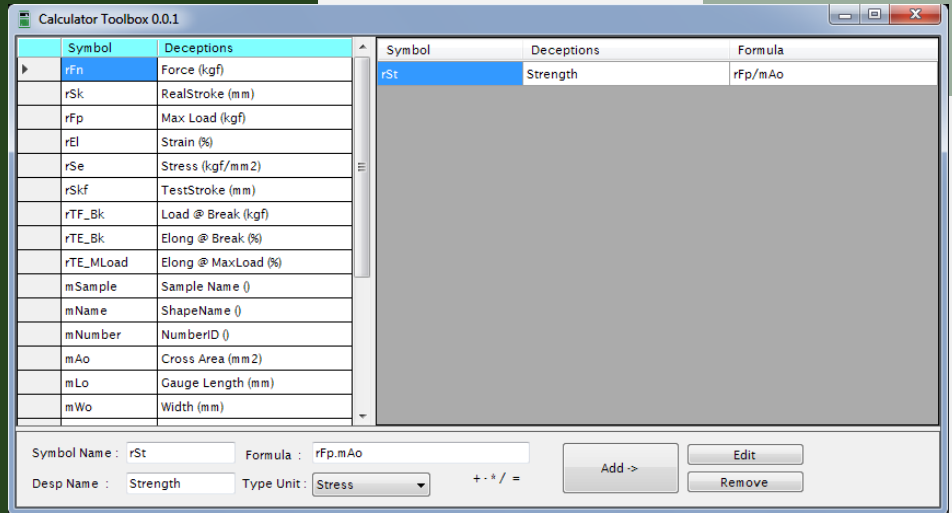
Sample Information Form for BRAVO sample, showing parameters like Width (10.000), Thickness (10.000), Gauge Length (50.000), and Area (100.000 mm).

Statistic Reports

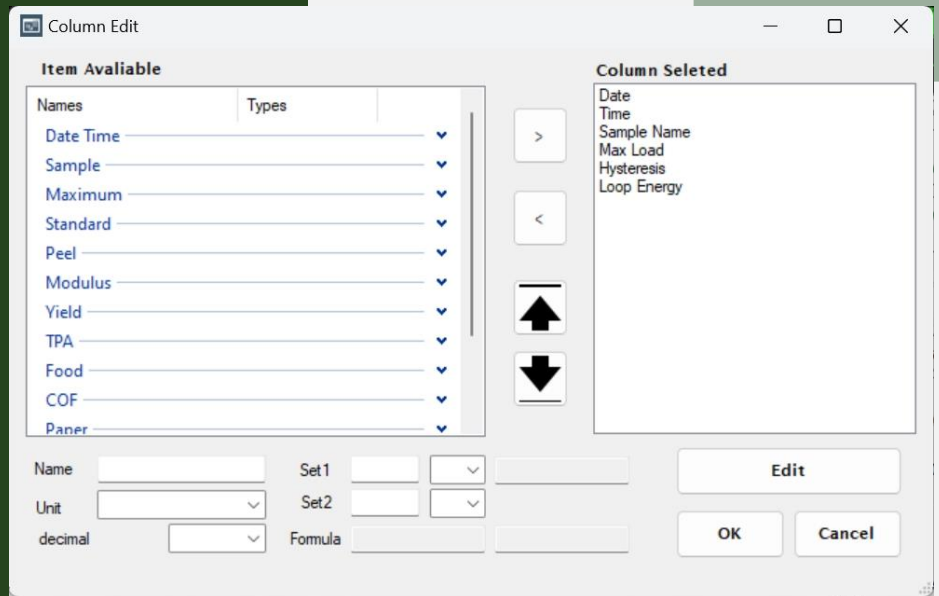
Static	Date	Time	Sample Name	Max Load	Hysteresis	Loop Energy
Min						
Max						
Mean						
SD						
COV						

This test method describes the procedure for measuring the toughness and tenacity of bituminous materials. Typically, the test method has been used to characterize elastomer modified asphalts, although values for toughness and tenacity may be obtained for any type of polymer-modified or non-modified asphalt.

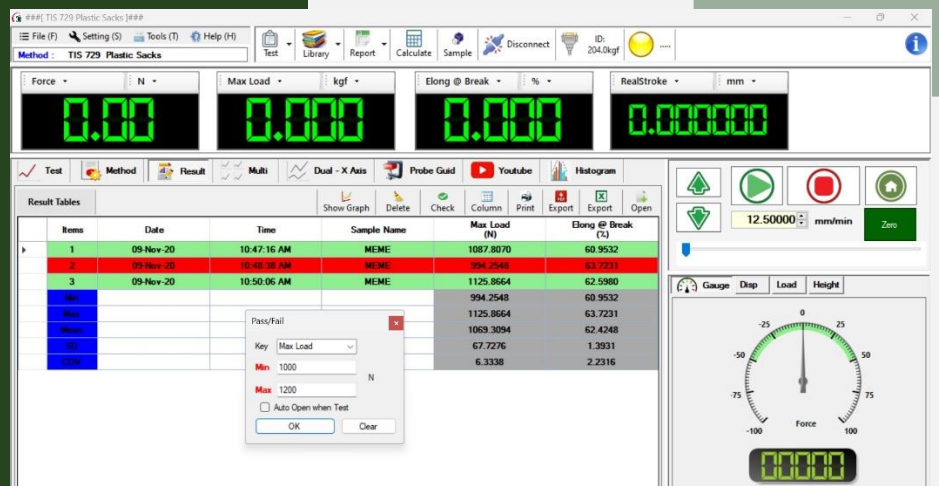
Formula Design By User

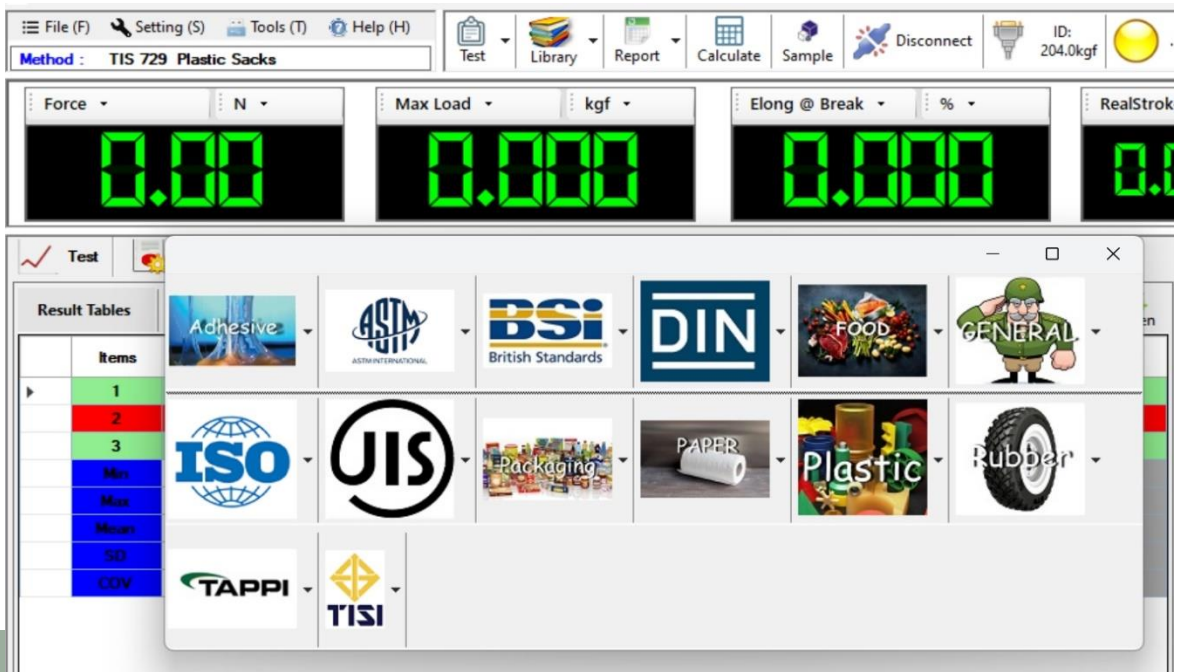


Selectable Result



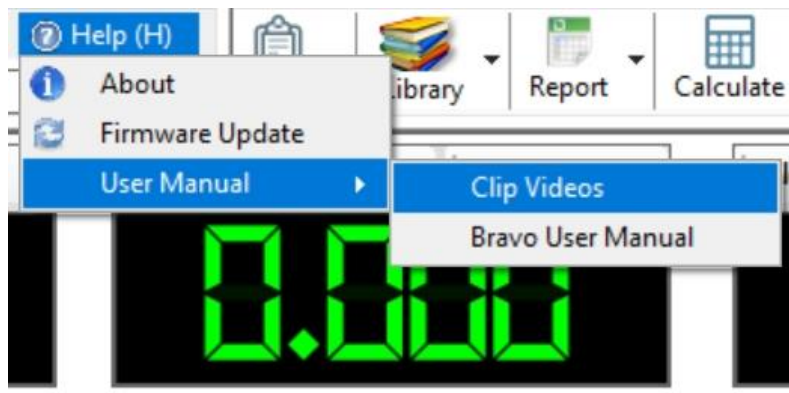
Results can Be color Coded for Immediate Pass/fail recognition





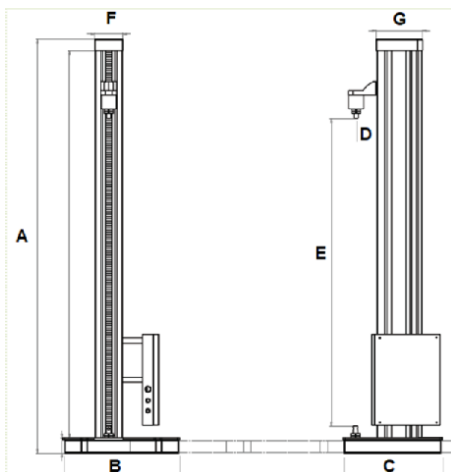
Library Test Standard

Easy use for new user
Video Training include



Dimension

Unit (mm)		MS1	MS1/LL	MS1/E	MS2	MS5
A	Machine Height	1078	1818	1378	1078	1378
B	Machine Width	510	510	510	510	510
C	Machine Depth	440	440	440	440	440
D	Throat Depth	90	90	90	90	90
E	Crosshead Travel	560	1400	850	560	850
F	Column Width	120	120	120	120	120
G	Column Depth	200	200	200	200	200



Ordering Information

 Tech-Quality Co.,Ltd
 2/13 Sukapiban 2 Rd., Pravet,
 Pravet Bangkok 10250 Thailand
 Tel : +662 328 6878
 Fax : +662 328 6818
 www.tech-quality.com
 Email : info@tech-quality.com