



UTM

UNIVERSAL TESTING MACHINE



MADE IN THAILAND

MT100 Pro Series

The Stealth MT100 Pro Series desktop Universal Testing Machine are designed to test a wide spectrum of materials including metal wire & foil, plastics, rubber, textiles, paper, yarn, packaging, adhesives, ceramics, timber, foods, composites & finished components in tension, compression, flexural or shear. Maximum frame capacities are 100KN In compliance with various international standards, such as ASTM, BS EN, JIS, ISO, IEC, TISI, DIN

Ordering Information



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Applications

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

Features

1. Panasonic servo motor drive set
2. UK and USA or JAPAN Brand Load cell grade 0.05%
3. 10 Point calibration adjustment
4. High Accuracy Ball Screw
5. Load Resolution 1/500000
6. Force measurement range 0.1% to 100%FS
7. Data sampling rate 1,000 Hz
8. Automatically sample Height measurement
9. Modern extruded profile High-quality load-frame design
10. Load Measuring System EN ISO 7500-1 Class 0.5, ASTM E4
11. Dual-X Axis Graph and multi Graph Display
12. 32-bit A/D converter/ EEPROM Plug
13. Standard Library Test Method
14. Calibration LAB ISO:17025
15. Position control resolution 10nm
16. Position measurement accuracy $\pm 50\mu\text{m}$ or 0.1% of indicate value when position more than 20 mm

Simple to use Test Setup

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

Muli-control mode

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

Test Types

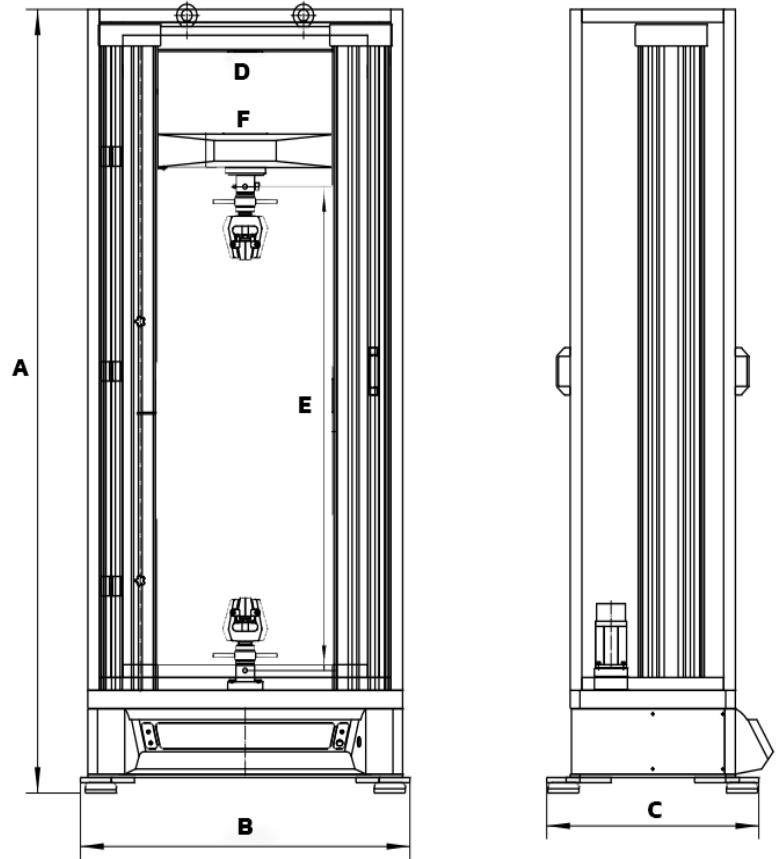
Tensile Testing	
Compressive Testing	
Flexural Testing / Friction Shear	
/ Peeling Insertion /	
Extraction Creep/	
Relaxation / Cyclic test	

Specifications

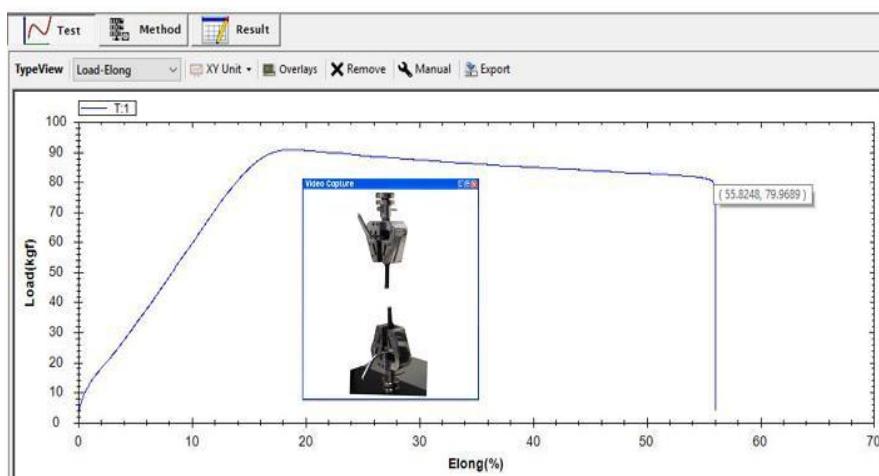
Bench-top frame to apply loads - from 100 KN capacity

Model : Stealth	MT100 Pro
Capacity (KN)	100
Load measurement Accuracy +/-0.5% Indicated test force	0.5
Min. Load Resolution	1/10 ⁹
Crosshead Speed (mm/min)	0.0001 - 500
Crosshead Speed Accuracy +/-0.1% of reading	0.1
Extension Resolution (μm per encoder count)	0.0003
Crosshead Travel (mm)	1,000
Crosshead Travel Extended (mm)	1,308
Frame rigidity	95 kN/mm
Weight Approx (kg)	680
Load measurement system : EN ISO 7500-1:2015, Class 0.5 ASTM E4	
Plug 'n' Play, automatic identification of BRAVO series load cells	
The Windows® 11 compatible Black Hole Software with USB Interface	
Single phase 200-230VAC 50Hz	
Operating Temperature 5° to 35°C & Humidity 20% to 80% Non-condensing	
Warranty 1 Year	

Dimension



Dimension		mm
A	Machine Height	2000
B	Machine Width	950
C	Machine Depth	660
D	Between Columns	550
E	Crosshead Travel	1000

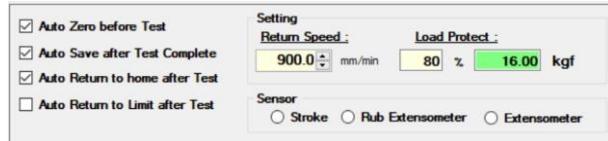


Video and still capture

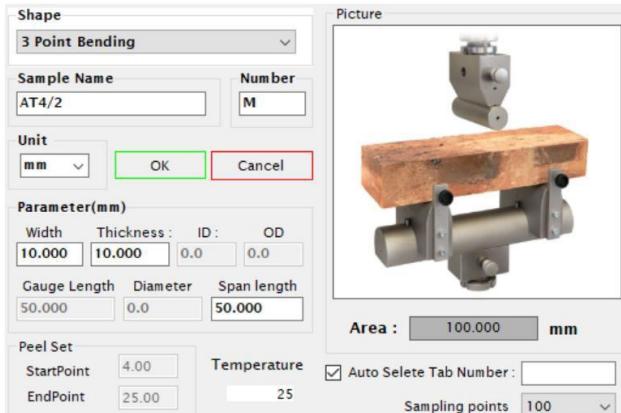
Video Capture and Synchronization System enables UTM users to view 20 fps video recordings frame by frame. It's a fantastic tool for teaching physical material test for those new to the field, or to help you gain a frame-by-frame understanding of your product strength

Blackhole software

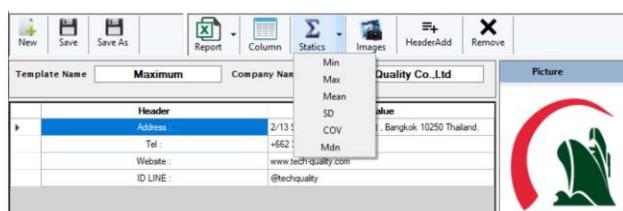
Multi Graph Display



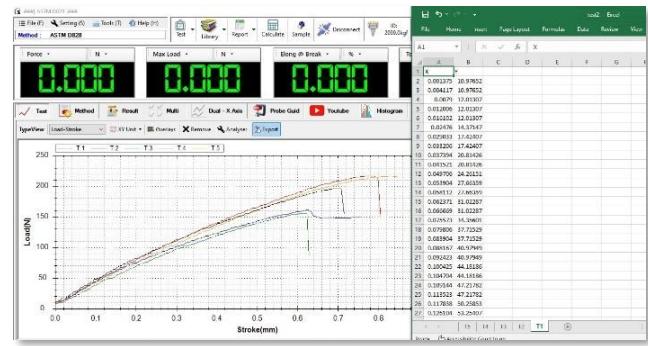
Auto test setup & load protect



Sample Information



Statistic Reports

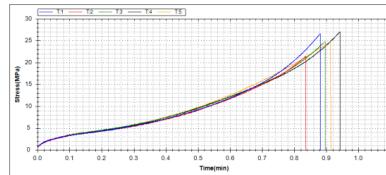


Excel , PDF User design reports Displays



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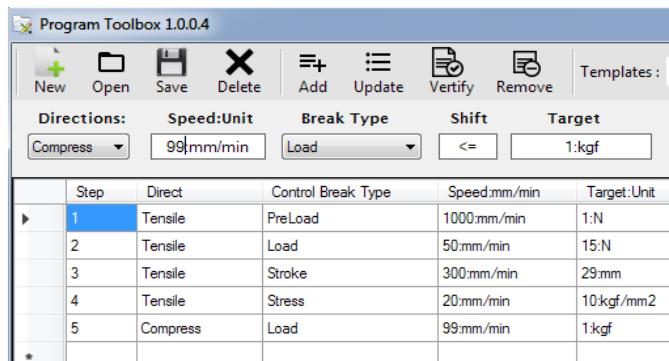
Mr	Date	Time	Sample Name	Max Load (kgf)	Strength (kgf)	Elong @ Break	Stress @ 250%
1	16/11/2004	2:52:59 PM	AT4/2	16.000	21.4237	6.684000	14.90488
2	16/11/2004	2:57:07 PM	AT4/2	16.7903	21.4237	6.684000	14.90488
3	16/11/2004	2:58:05 PM	AT4/2	12.6588	21.7995	6.152245	14.45528
4	16/11/2004	2:58:15 PM	AT4/2	13.0000	21.7995	6.152245	14.45528
5	16/11/2004	2:58:14 PM	AT4/2	12.9998	21.7995	6.063386	14.40911
Max				13.0192	22.0208	6.612140	14.45208
Mean				12.4777	21.9405	6.145058	14.20022
SD				1.0000	1.0000	0.572733	0.572733
COV				8.8006	8.8006	2.4960	3.7500



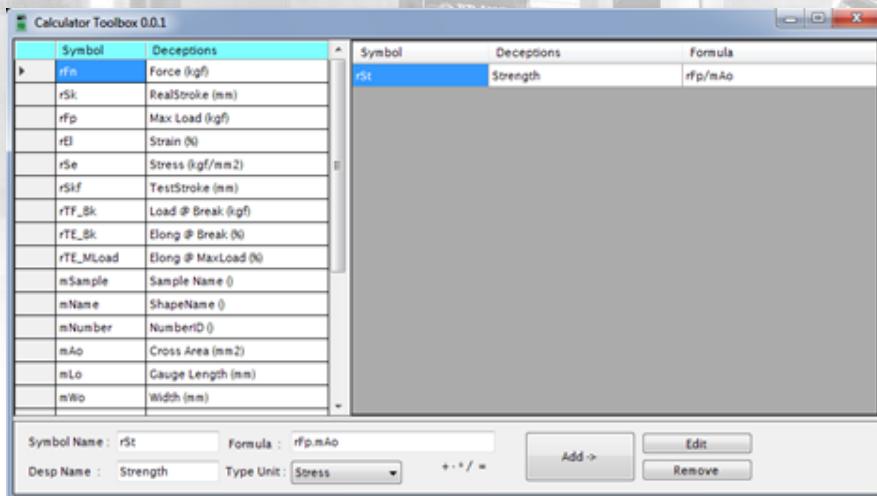
Displays ToolBox



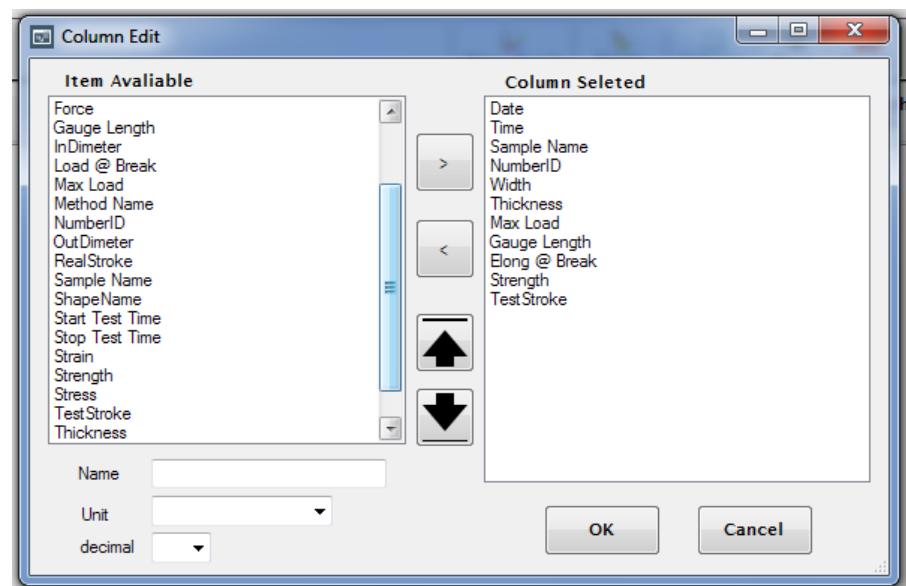
Multi Display & Decimal Point



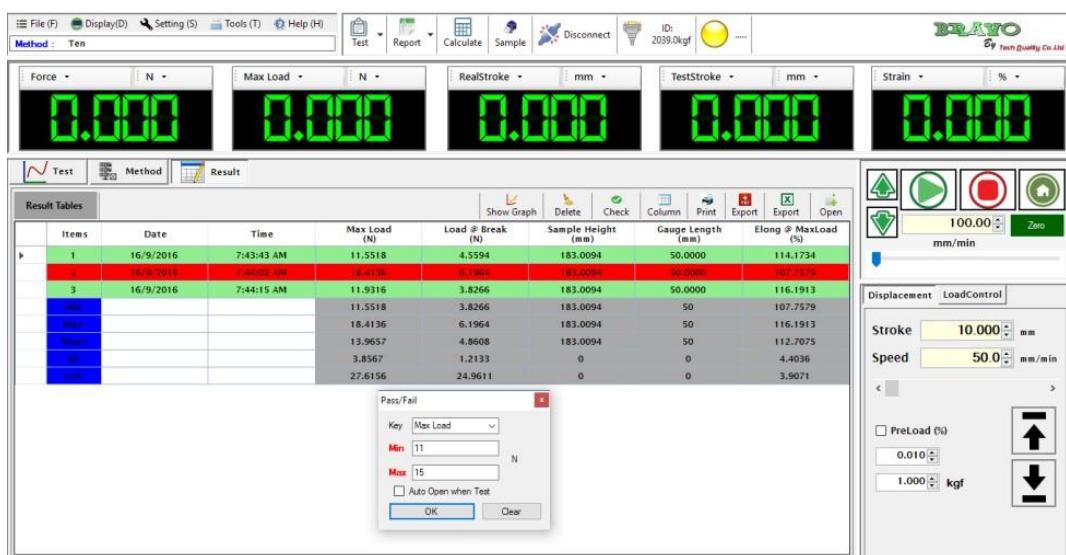
Multi-stage testing with Bravo software



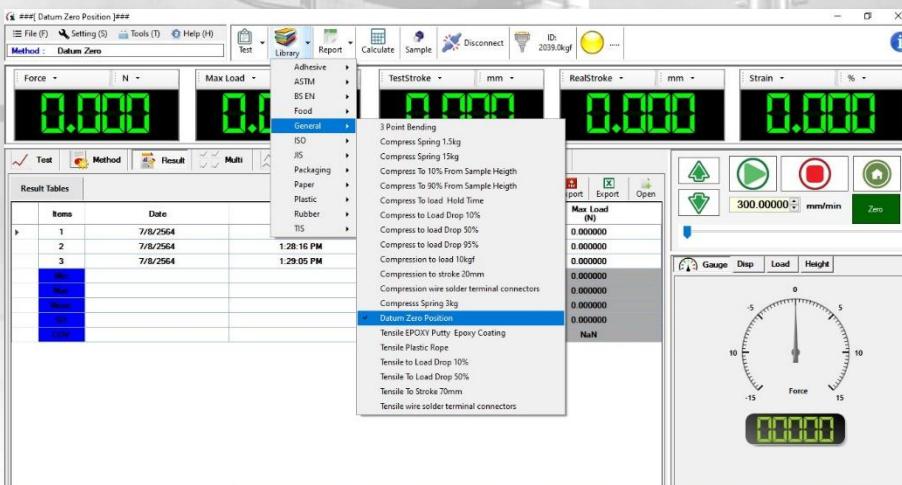
"Formula design by user"



"Selectable result"

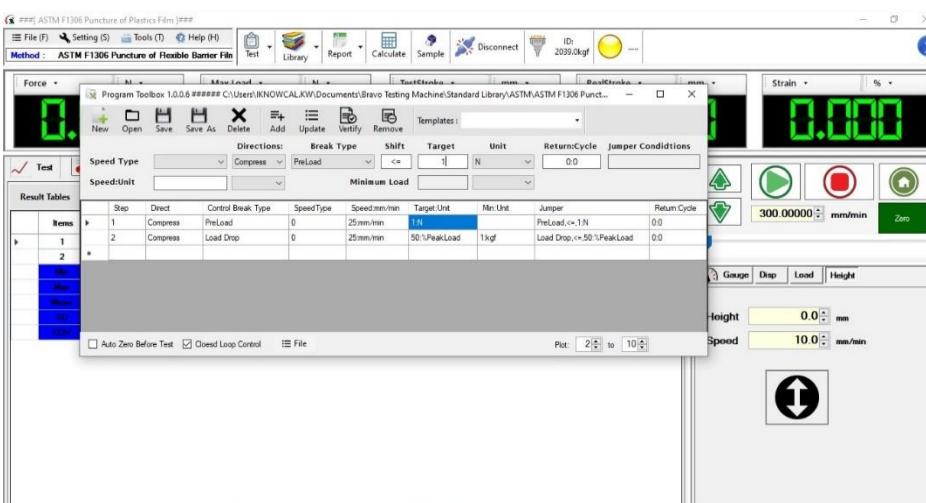
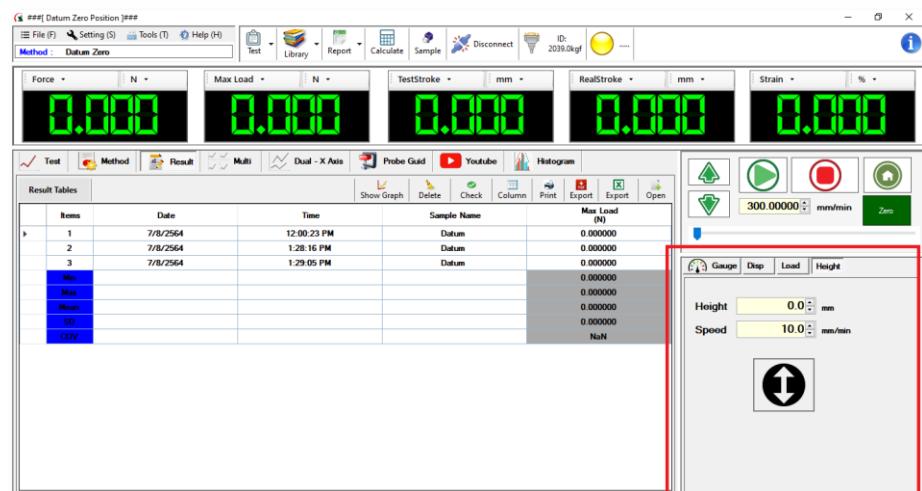


"Results can be color-coded for immediate pass/fail recognition"



“Datum Zero Position”

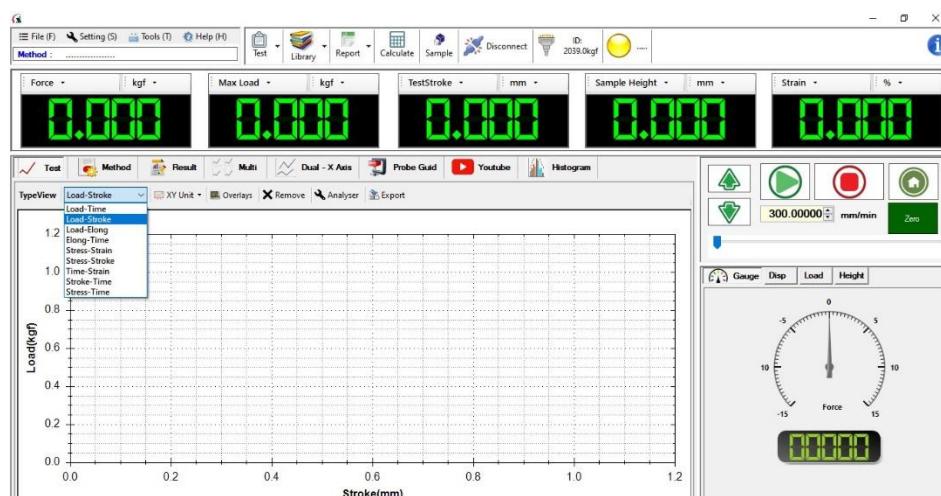
**Height (mm)
Speed (mm/min)**



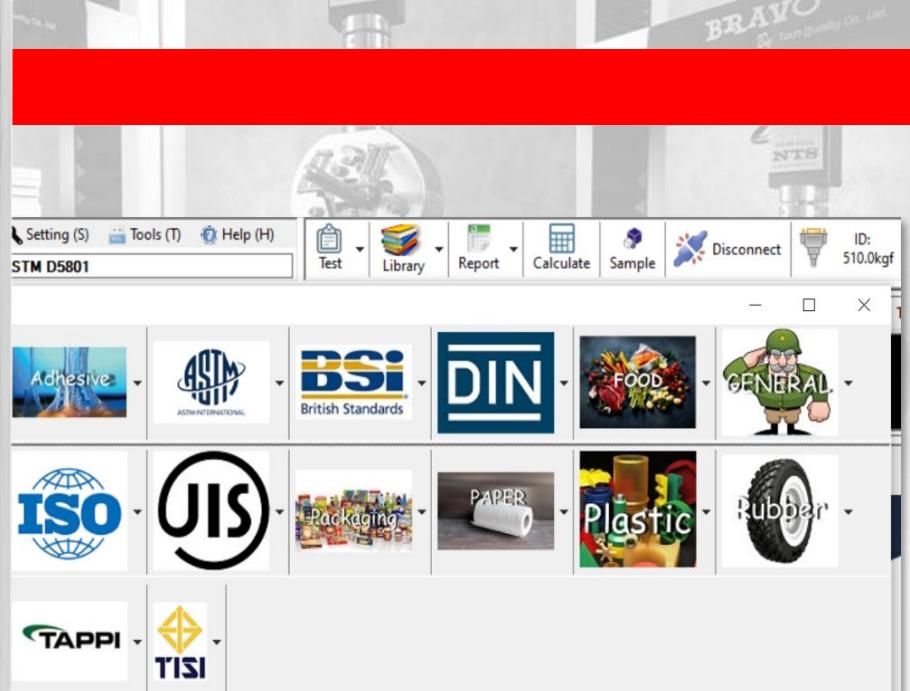
“Program Toolbox”

“Type View”

- Force x Length
- Stress x Strain
- Strain x Time

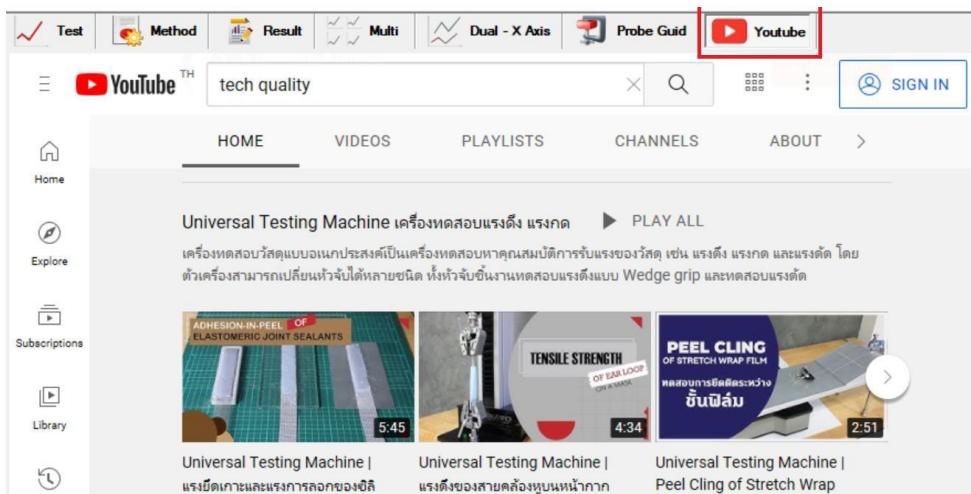


Library



Standard Library

Probe Guide



YouTube Guide

■ Modern Aluminum extruded profile High-quality load-frame design

