

Load Cell



CL TECH AND SUPPLY CO.,LTD

27/92 ซ. อาทรรูปถัมภ์ ถนนประชาราษฎร์ 1

เขตบางซื่อ กรุงเทพฯ

Tel. 02-587-3752 Fax. 02-912-5223

E-Mail : info@cltech.co.th , cltech@ksc.th.com

www.cltech.co.th



Main Instruments Product

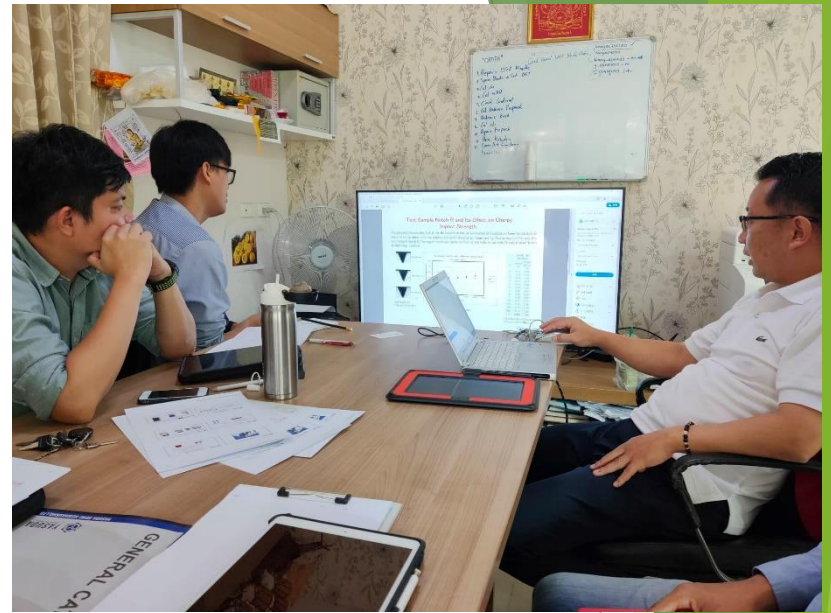
- “QC-TECH” Tensile Packaging Tester, Heat Seal, Screw, Torque
- “LLOYD” Tensile Packaging
- “YASUDA” Paper, Rubber, Plastic, Automation
- “LABTHINK” Tensile Tester , Compression Tester, UTM
- “COME TECH” Packaging Tester, Heat Seal, Friction, Permeability, Tearing
- “DUMBBELL” Specimen Cutter , Small Tool and equipment



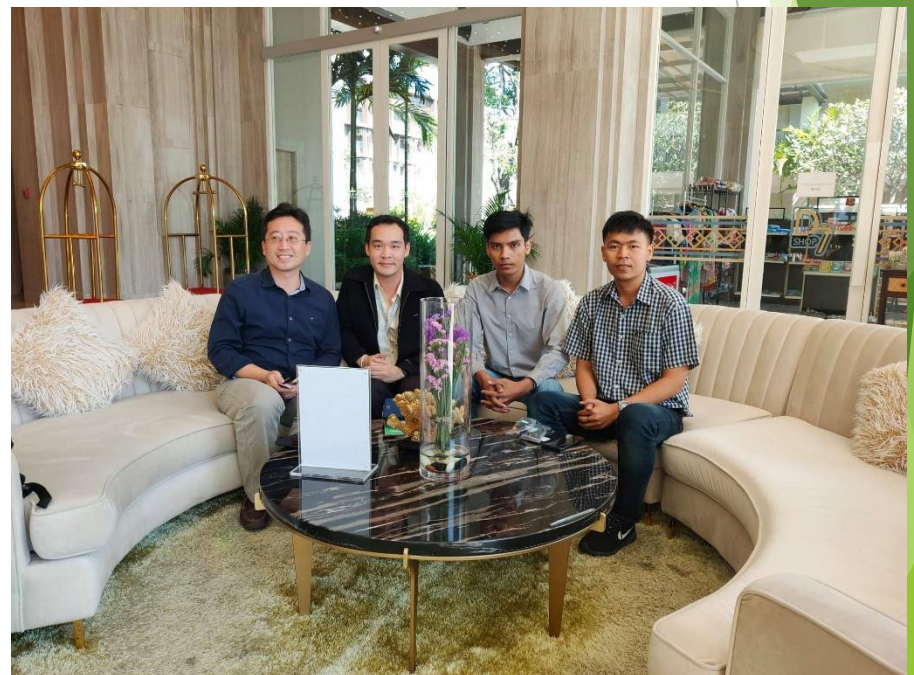
After service and support

Installation, Training, consulting

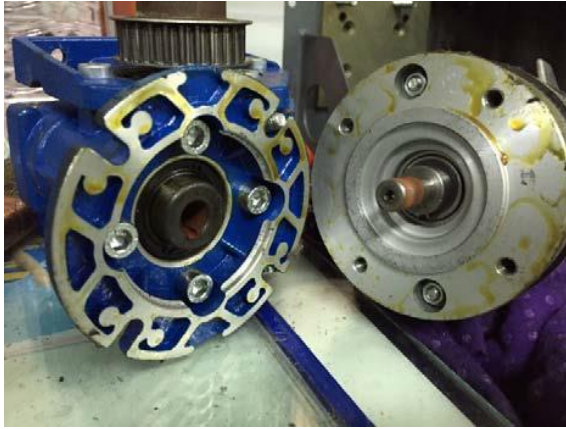




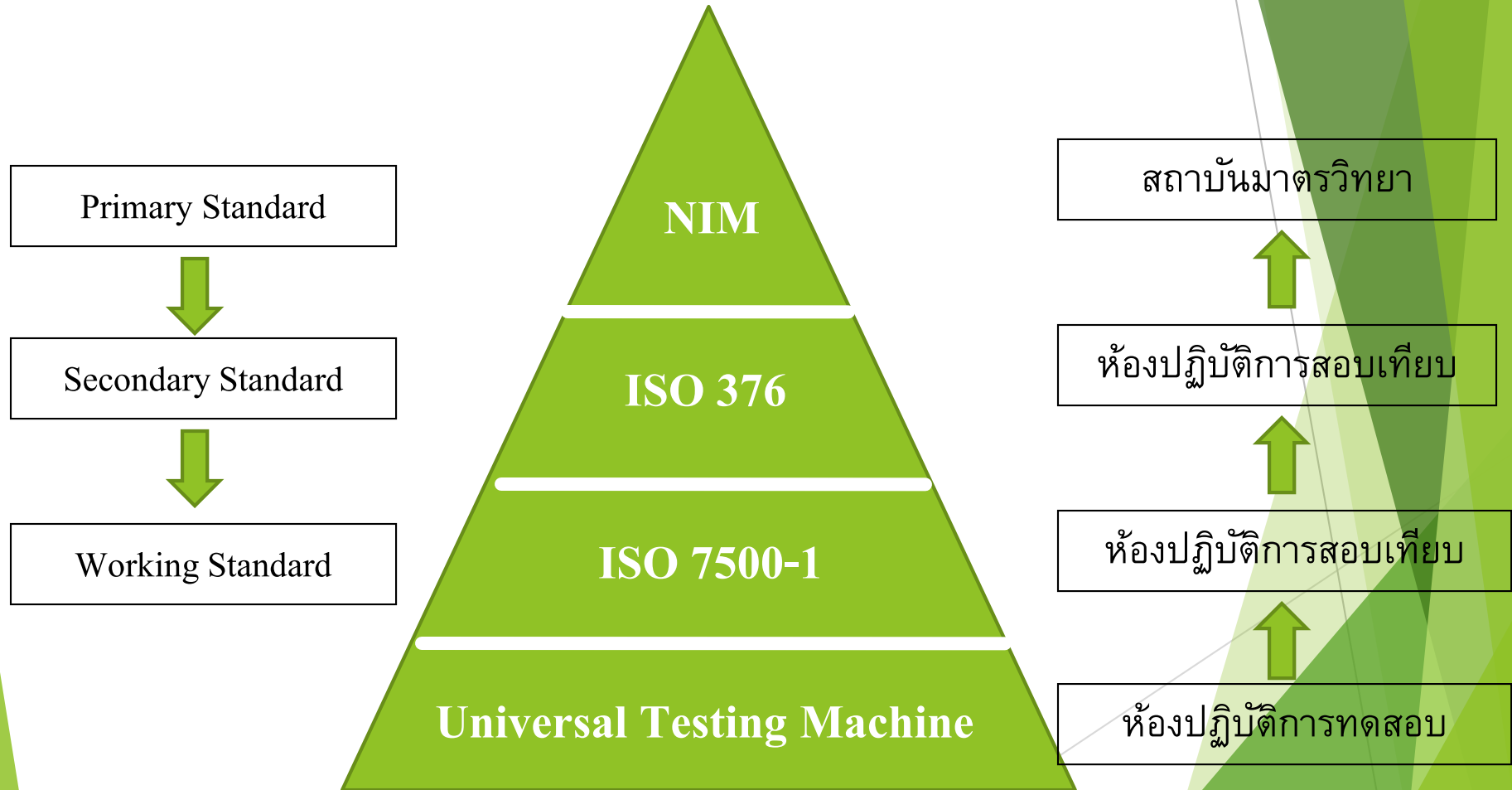
Maker meetup Thailand



Maintenance, Repair, Calibration



ความสอบกลับได้ (Traceability of Calibration)



[illegible]

Tel.

Dimension Instrument

► Concentricity Gauges / Head Thickness / Straightness

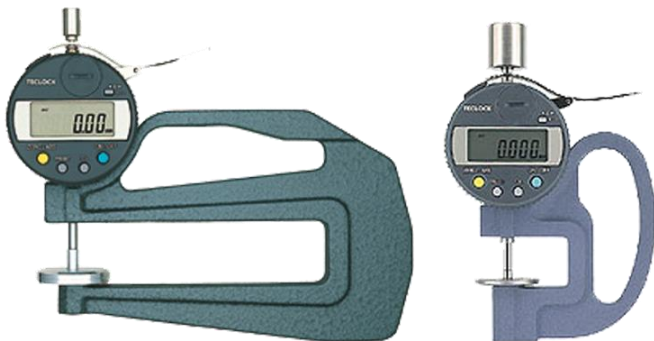
► Concentricity Gauges / Head Thickness / Straightness



► Center Mark Tool / Elongation Gauge

► Center Mark Tool / Elongation Gauge



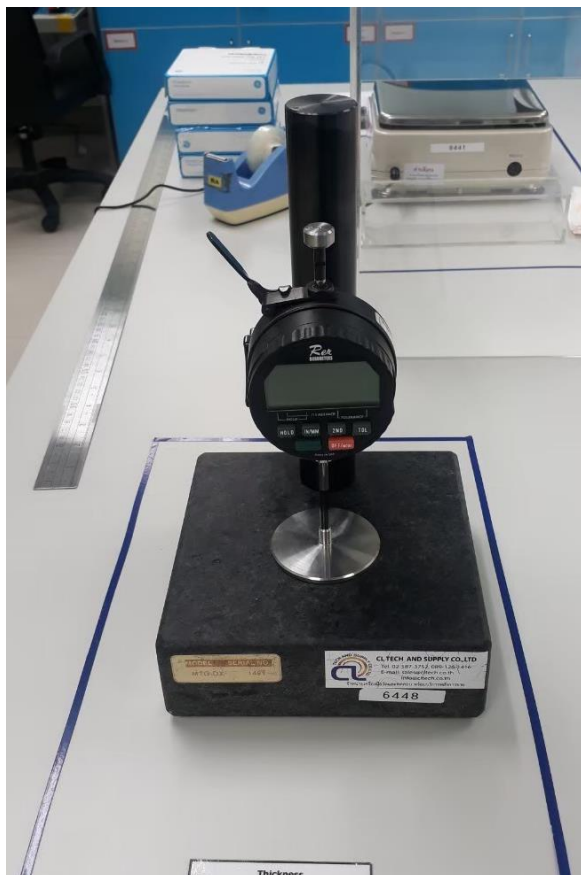




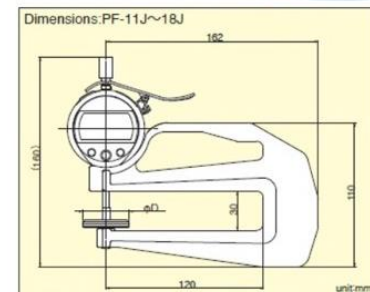
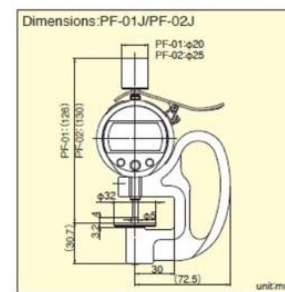
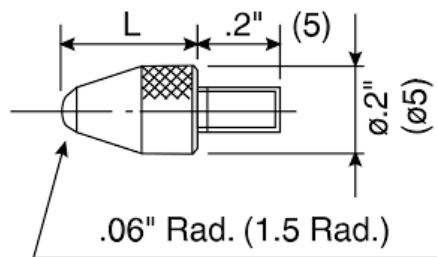
Caliper Thickness Gauge

Measures the thickness of Paper, Plastic Film, Laminates, etc very accurately.

The instrument uses a Dead Weight on the top to maintain a constant measuring / contact pressure.



PF Series frame type



Balance











Stainless Set 1mg.-5Kg.



Color tester and spectrophotometer

Grating Spectrophotometer



3nh
COLORIMETER



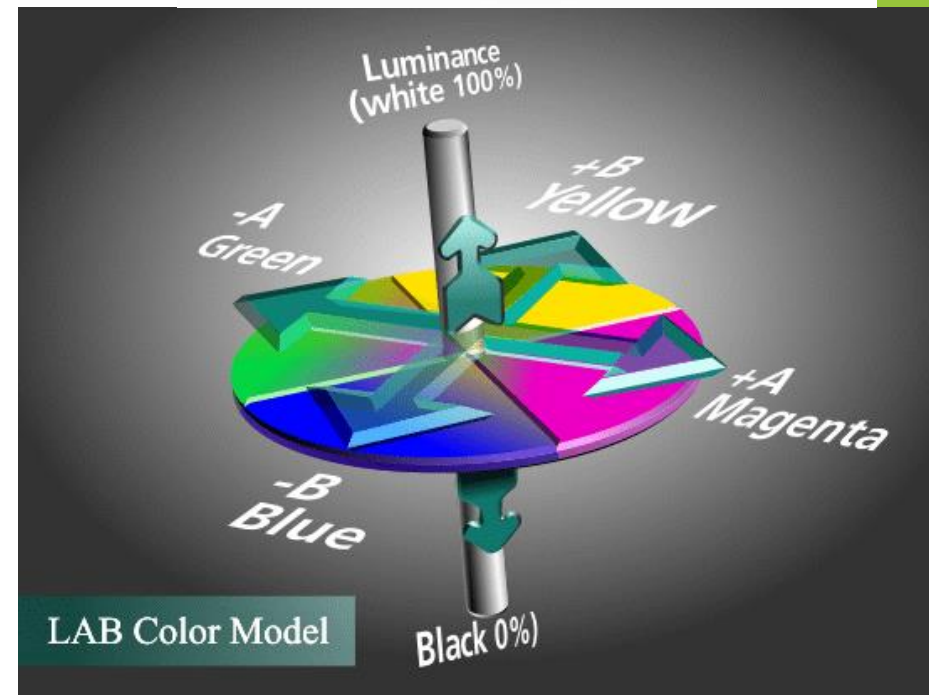
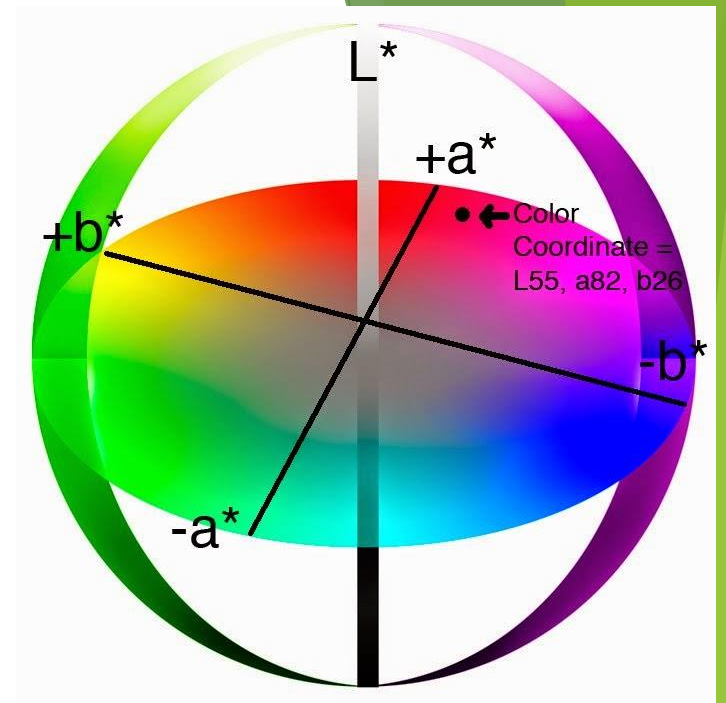
Densitometer , Pantone

3nh
focus on color



x-rite | eXact





Autoclave



Portable stream type



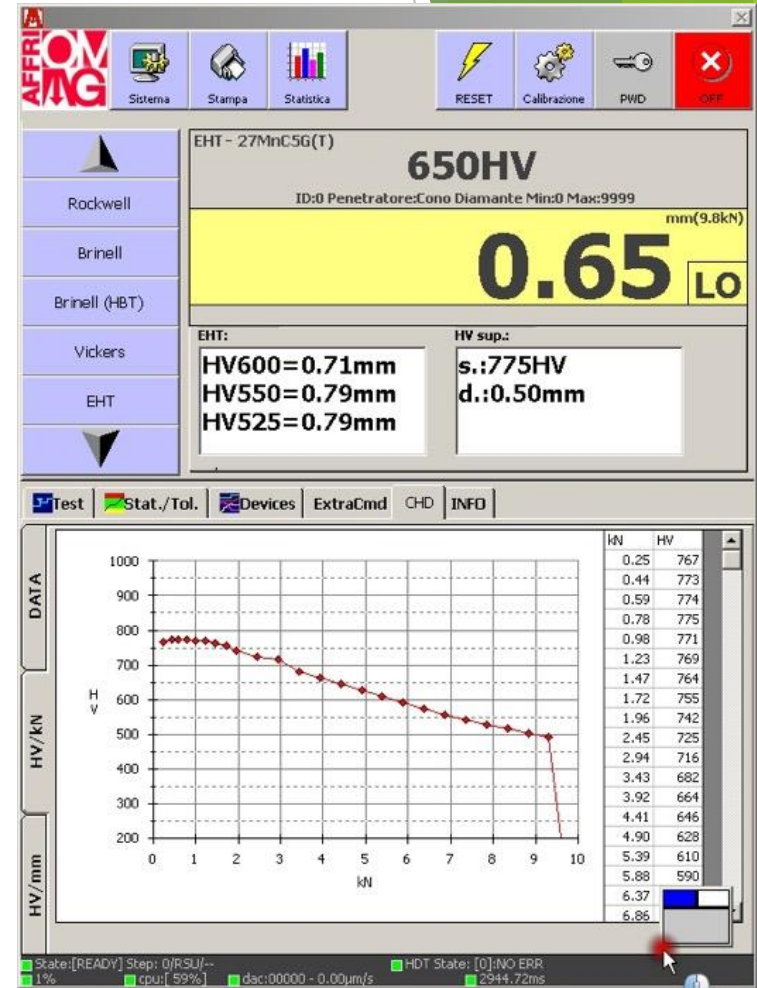
Vertical stream type



Stream floor type



► Rockwell / Vickers / Micro Vickers Hardness Tester



► Rockwell / Vickers / Micro Vickers Hardness Tester



CL TECH AND SUPPLY CO.,LTD
02-5873752





Hardness measuring range by material

Cast steel	HRC: 19.8 ... 68.5
	HRB: 59.6 ... 99.6
	HRA: 59.1 ... 85.8
	HB: 80 ... 651
	HV: 83 ... 976
	HS: 32.2 ... 115
Hammered steel	HB: 143 ... 650
Cold-rolled steel	HRC: 20.4 ... 67.1
	HV: 80 ... 898
Stainless steel	HRB: 45.5 ... 101.7
	HB: 85 ... 655
	HV: 85 ... 802
Cast iron	HB: 93 ... 334
Ductile iron	HB: 131 ... 387
Aluminum alloy	HRB: 23.8 ... 84.6
	HB: 19 ... 164
Brass	HRB: 13.5 ... 95.3
	HB: 40 ... 173
Bronze	HB: 60 ... 290



TEC-GS-743G

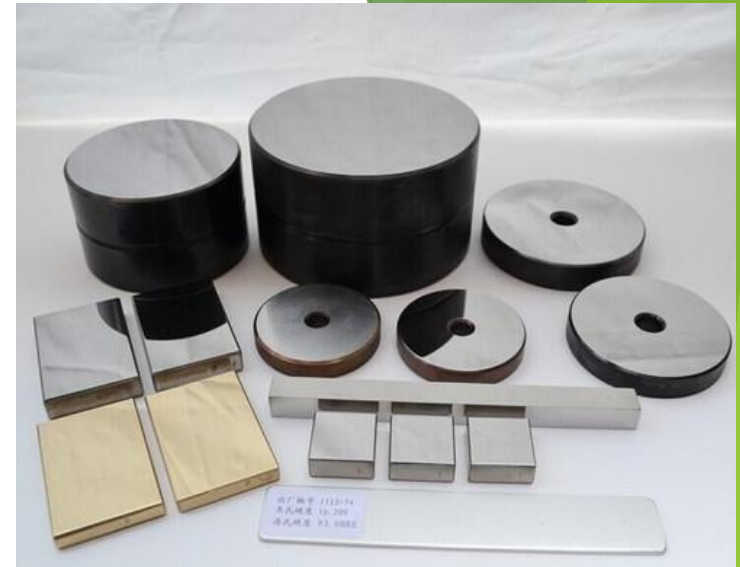


TEC-GS-744G
FO Durometer
styrene foam



Hardness is measured by placing TEC-GS-744G on the sponge sheet. Dispersion of polystyrene level can be judged.

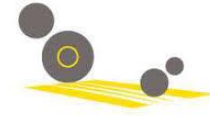
unit : mm



Supporting Reference Material (SRM)



Reference Customer

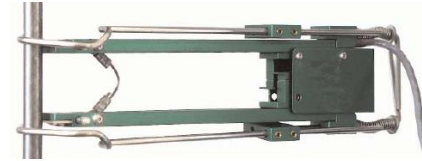


เครื่องทดสอบแรงดึง/แรงกด

QC TECH



LLOYD



QC TECH



- ▶ Double ball screw with double guide rod, high rigidity
- ▶ Servo motor, feedback control, high stability
- ▶ Multi-stage load correction, high precision MCU with FPGA, high performance
- ▶ Upper and lower limit and emergency stop, double protection
- ▶ 16Bit A / D and 32Bit Encoder, high resolution

Capacity	2~500kN
Speed	0.1~1,000mm/min
Rotating	0~3,000rpm
Load Reading	1/10,000~200,000
Displace Read	<0.001 μ m
Power	0.4~7.5kW

Loadcell

Loadcell

- Standard accuracy $\pm 1\%$ (Reading value 5~95%), $\pm 0.5\%$ is optional
- Software equipped with multi-calibration functions to increase accuracy
- Data record in the transducer, no need to recalibrate after switch.



YS-L 5 ~20 kN



YS-L 20~500 kN



Extensometer



Strain Gauge



Extensometer



Extensometer



Automatic Extensometer

Puncture Test ASTM method



MODEL : SINGLE COLUMN

MODEL : LS1



MODEL : LS5



MODEL : LS2.5



Universal Testing Machine LLOYD



Extensometer



Gauge Length		Measuring Range ¹	
U.S.A.	-0050	0.500"	% STRAIN ±5%
	-0064	0.640"	
	-0100	1.000"	±10%
	-0140	1.400"	
	-0200	2.000"	
METRIC	-010M	10.0 mm	+20%/-10%
	-012M	12.0 mm	+25%/-10%
	-0125M	12.5 mm	+50%/-10%
	-025M	25.0 mm	
	-050M	50.0 mm	
	-080M	80.0 mm	+100%/-10%

Model Number 3542 - _ _ _ _ - _ _ _ - _

Temperature Range	
-LT	-265 °C to 100 °C (-450 °F to 210 °F)
-ST	-40 °C to 100 °C (-40 °F to 210 °F)
-HT1	-40 °C to 150 °C (-40 °F to 300 °F)
-HT2	-40 °C to 200 °C (-40 °F to 400 °F)
-LHT	-265 °C to 200 °C (-450 °F to 400 °F)

¹ Compressive ranges can be adjusted to higher values if required. Please contact Epsilon for your special testing requirement.

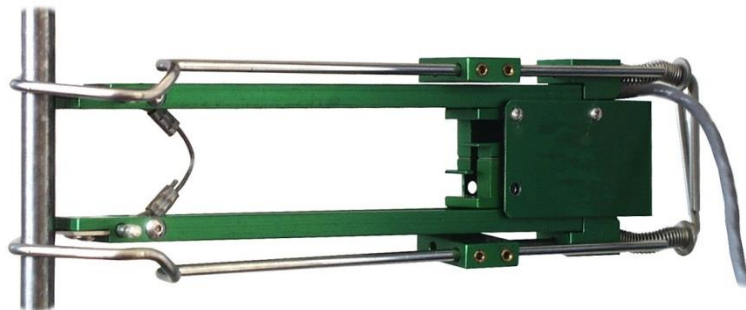
² Not available in 0.50", 10 mm or 12.5 mm gauge lengths.

³ For 2" and 50 mm gauge lengths, linearity is 0.2% of full scale or better.

Example: 3542-0100-020-LT: 1.000 inch gauge length, ±20% measuring range, low temperature option (-450 °F to 210 °F)

Extensometer

- เป็นอุปกรณ์ที่ใช้วัดการเปลี่ยนรูปที่แท้จริงของวัสดุและผลิตภัณฑ์ขณะทดสอบ

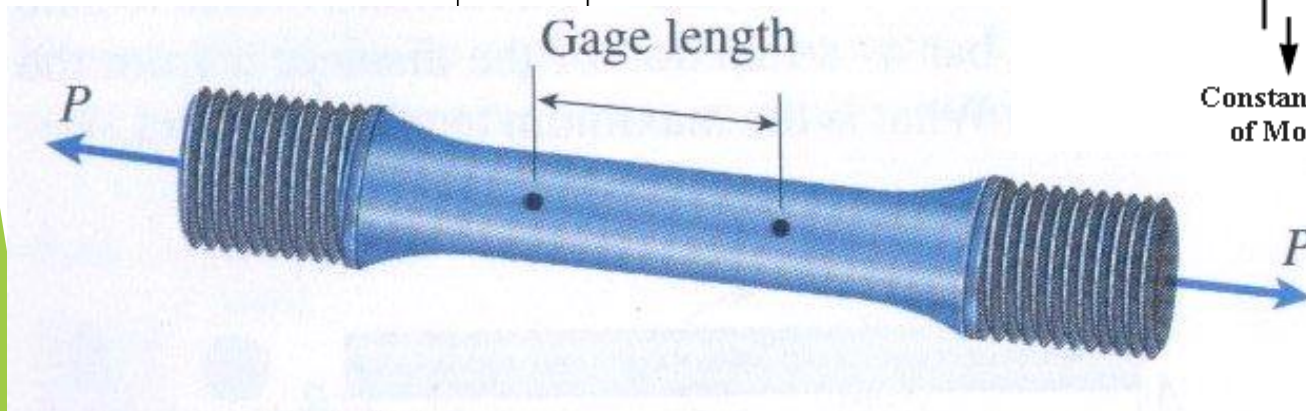
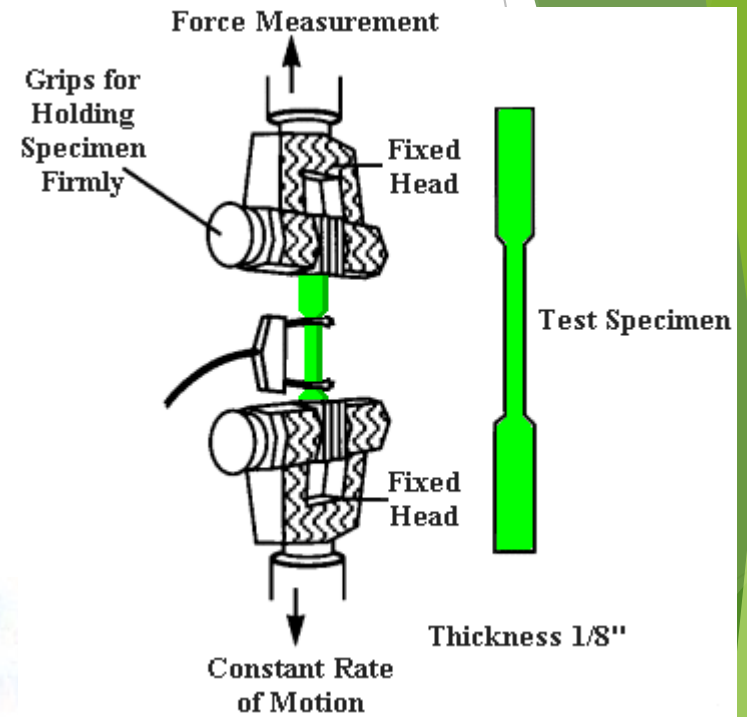
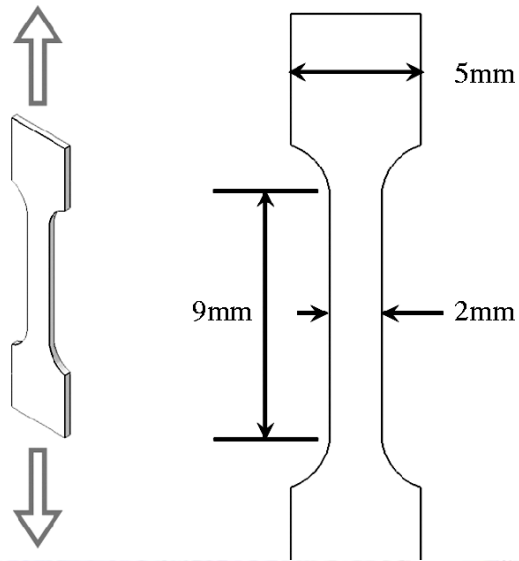


STGA Type

เป็น Extensometer ประเภท contacting ใช้ Strain Gauges ในกาวัด
Extensometer นี้จะไม่สามารถปรับค่า gauge length ได้



Tensile dumbbell specimen



Gripper



180 deg.



Tensile-Webbing

THERMAL CHAMBERS



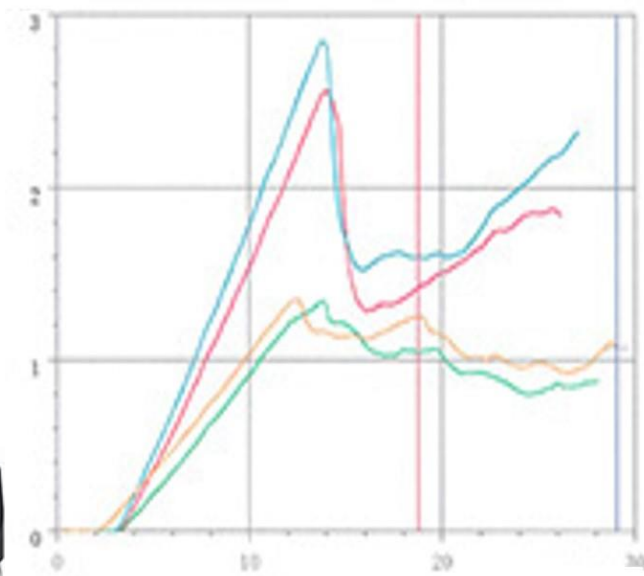
TC540/TC550



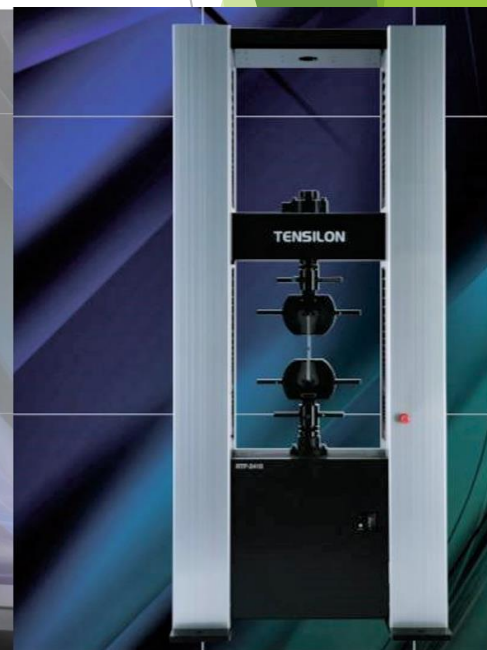
DEWAR FLASK

TC950 FURNACE

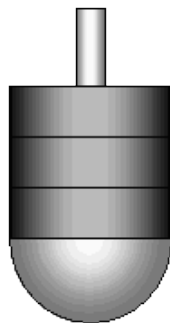




color	ตัวอย่างวัสดุ
red	ตัวอย่างวัสดุแข็ง
blue	ตัวอย่างวัสดุเหนียว
orange	ตัวอย่างวัสดุอ่อนนุ่ม
green	ตัวอย่างวัสดุเปราะ

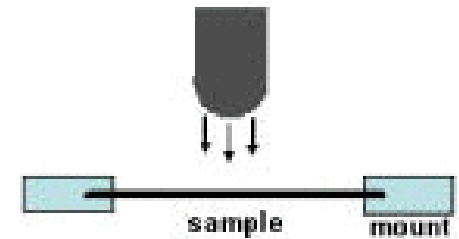
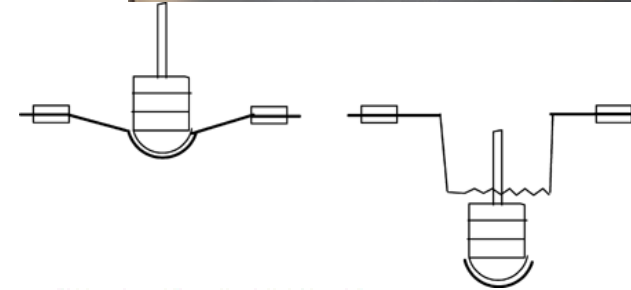
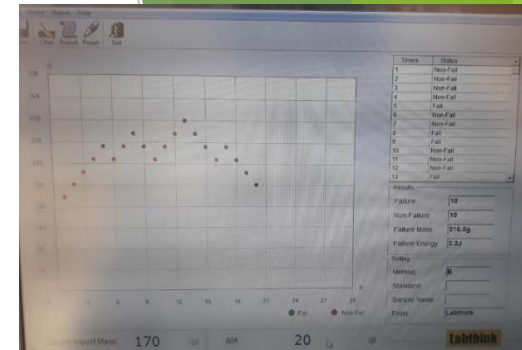


Dart Impact Tester ASTM D 1709



Weights

Hemispherical Head



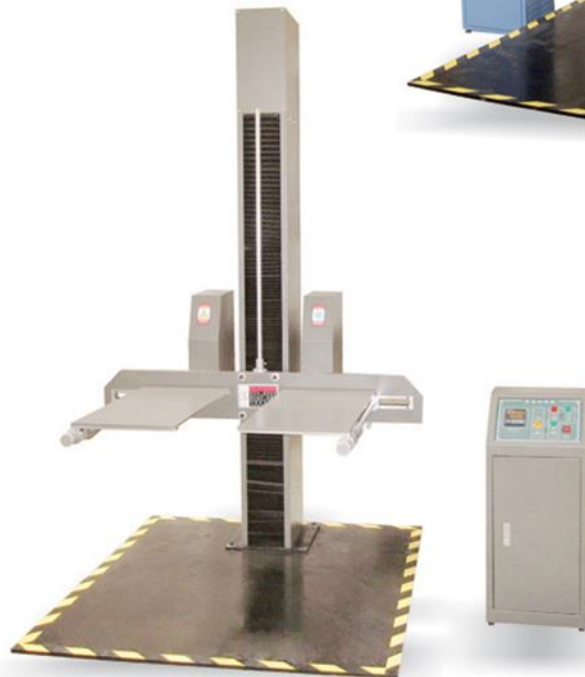
(b) Static spherical indenter (blister test)



(c) Uniform hydrostatic pressure bulge test



DROP TESTER



1. Most fragile corner.



2. Shortest edge radiating from the drop corner.



3. Medium edge radiating from the drop corner.



4. Longest edge radiating from the drop corner.



5. Flat on one of the smallest faces.



6. Flat on the opposite small face.



10. Flat on the opposite large face.



8. Flat on the opposite medium face.

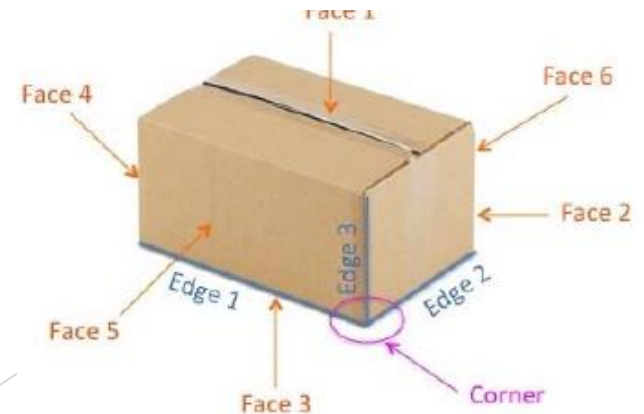


9. Flat on one of the largest faces.



10. Flat on the opposite large face.

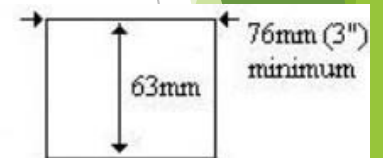
NOTE: When it comes to irregular shaped items, we follow special drop simulation procedures.



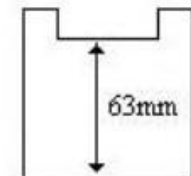
Universal Hot air oven



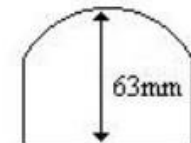
Elmendorf Tearing Tester ASTM D1922



Rectangular Sample



Textile Sample



Constant Radius Sample

Coefficient Of Friction Tester



HEAT SEAL TESTER ASTM F2029



UNSUPPORTED



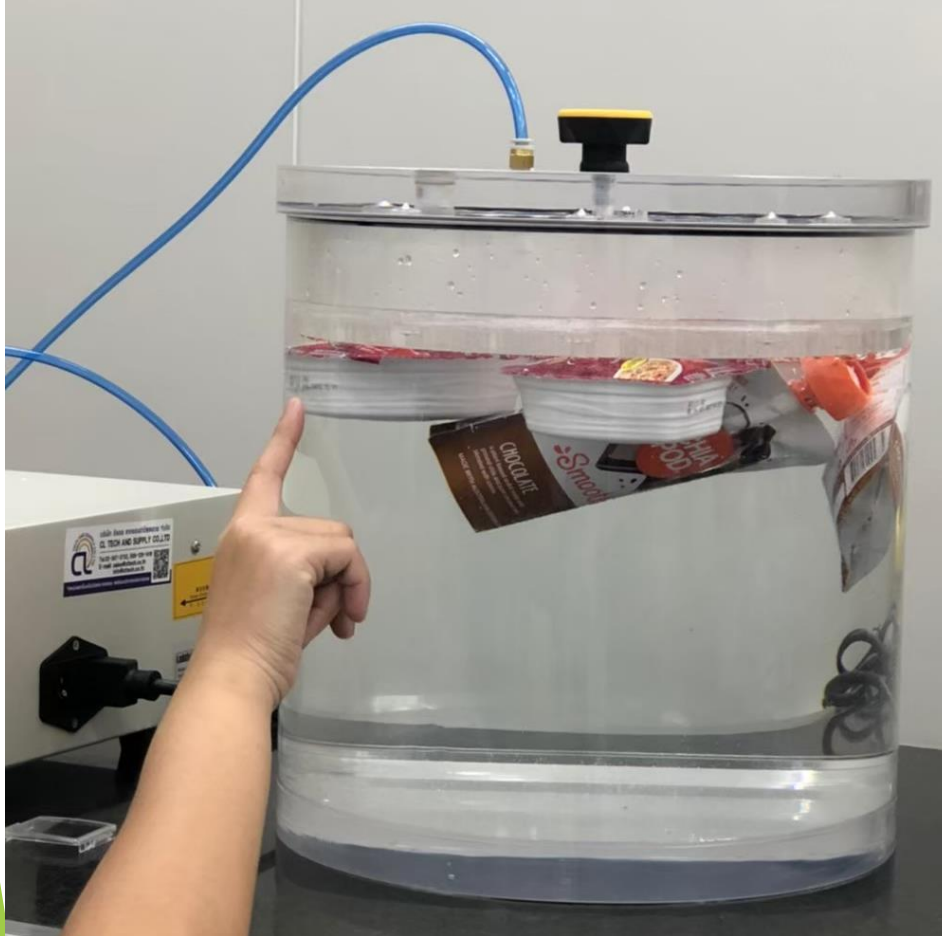
SUPPORTED 90°
(BY HAND)

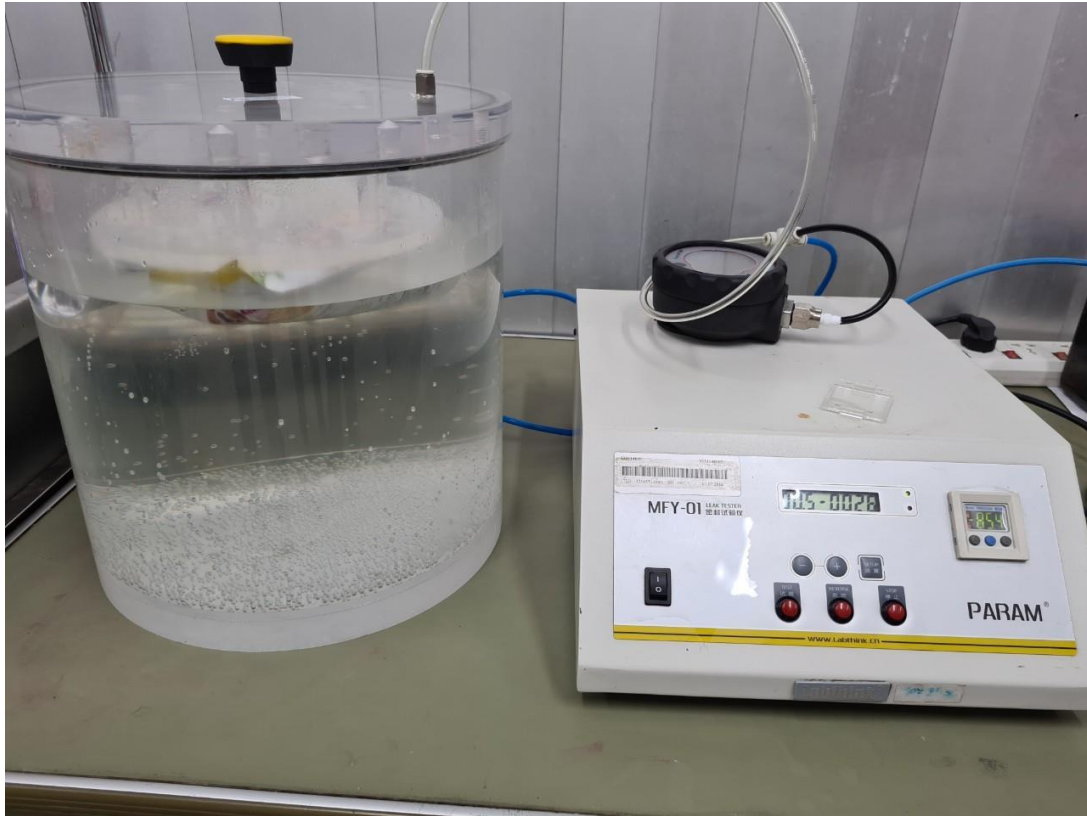


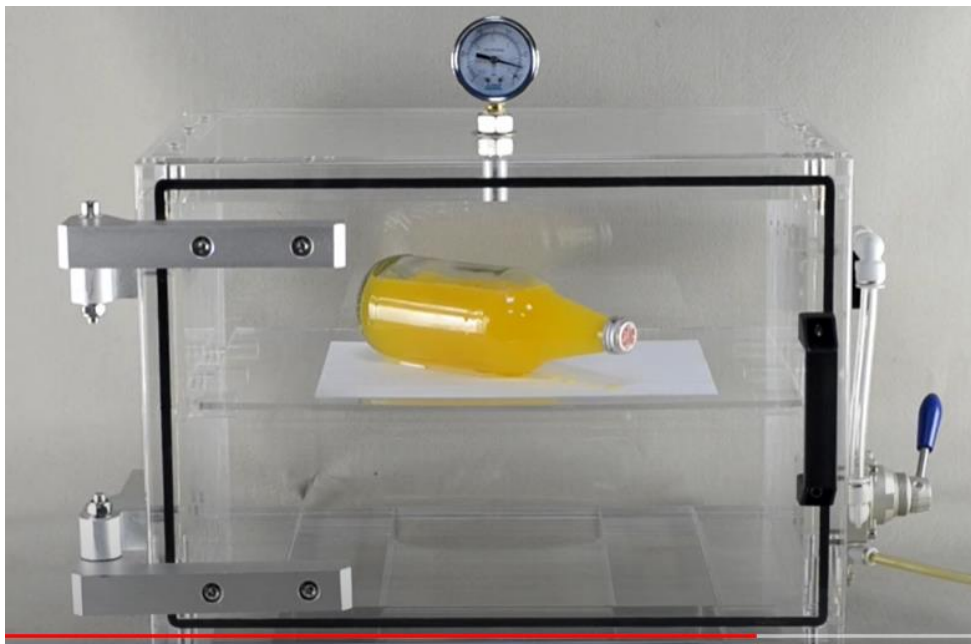
SUPPORTED 180°

Leakage Tester ASTM A3078

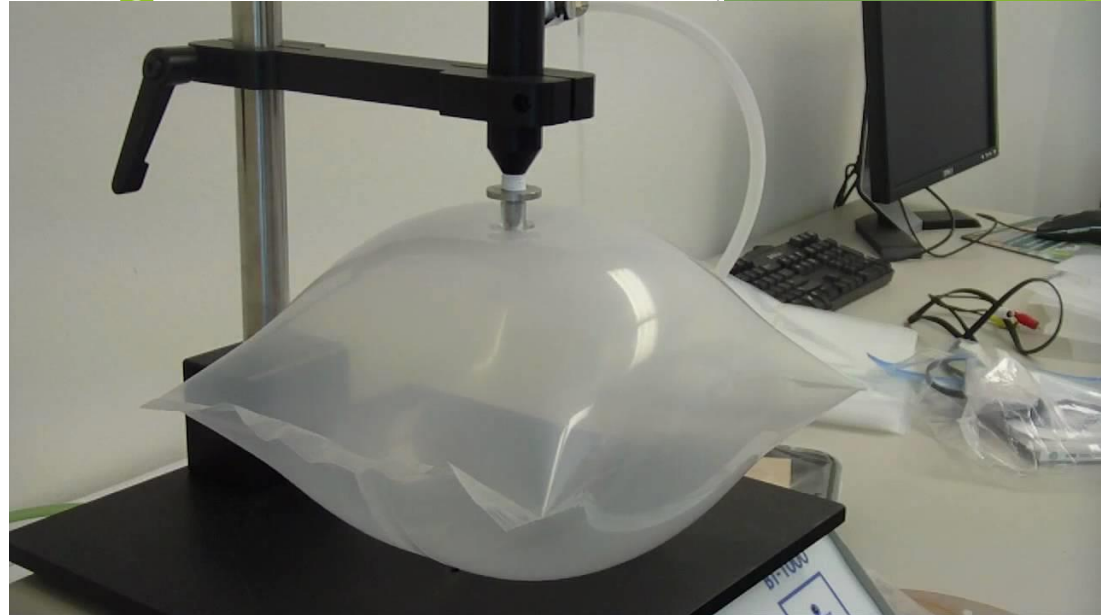








Leak and Seal Strength Detector



Die cutter Manual hand presses Pneumatic



Labthink



Permeability



Tensile Strength



Heat Seal & Hot Tack



Friction



Thickness



Tearing
Leakage



Impact



Film Impact



Heat Resistance



Flex Durability
Migration



Adhesive



Abrasion Resistance



Fogging



Gripper

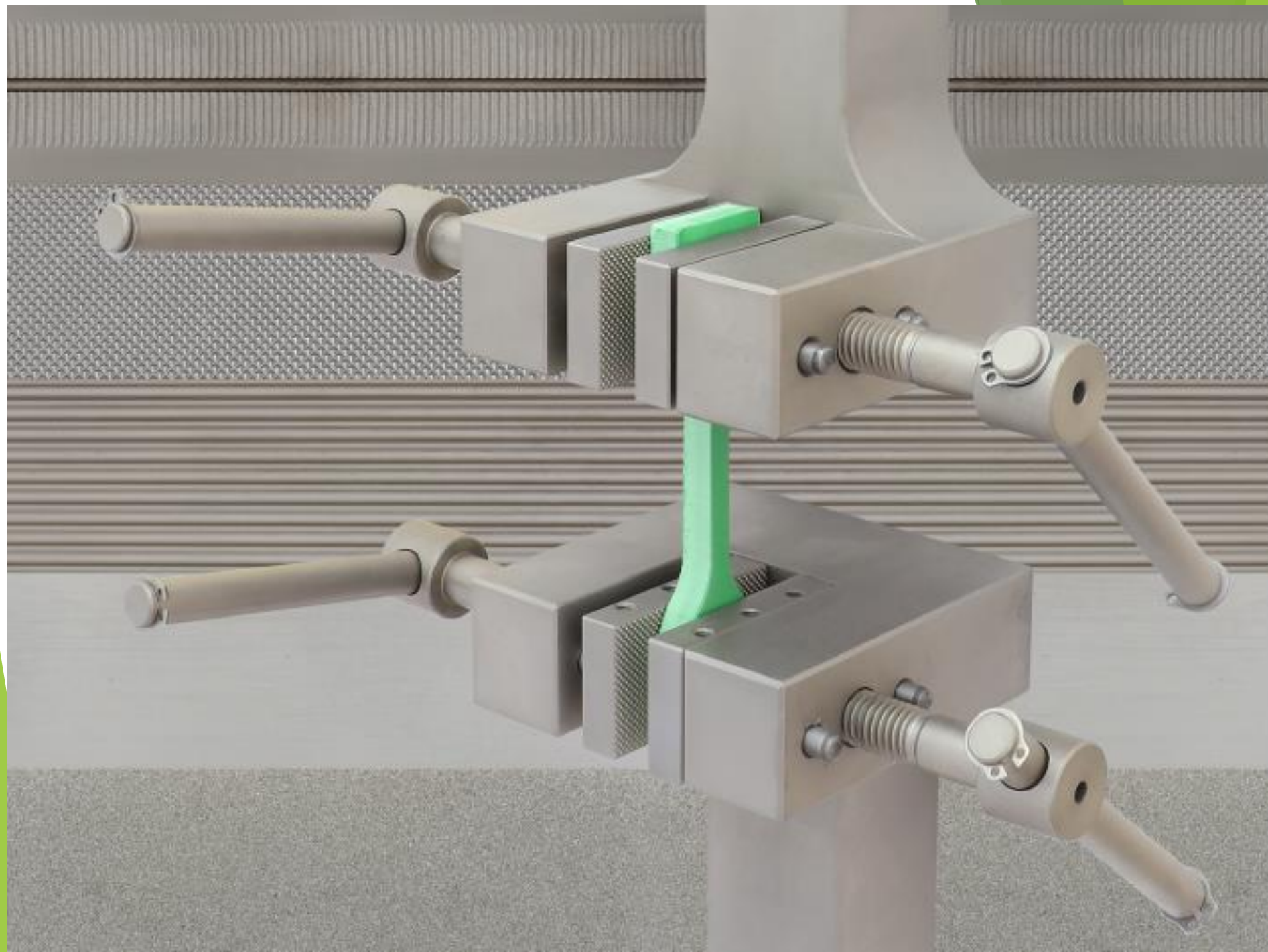


Compatible Gripper

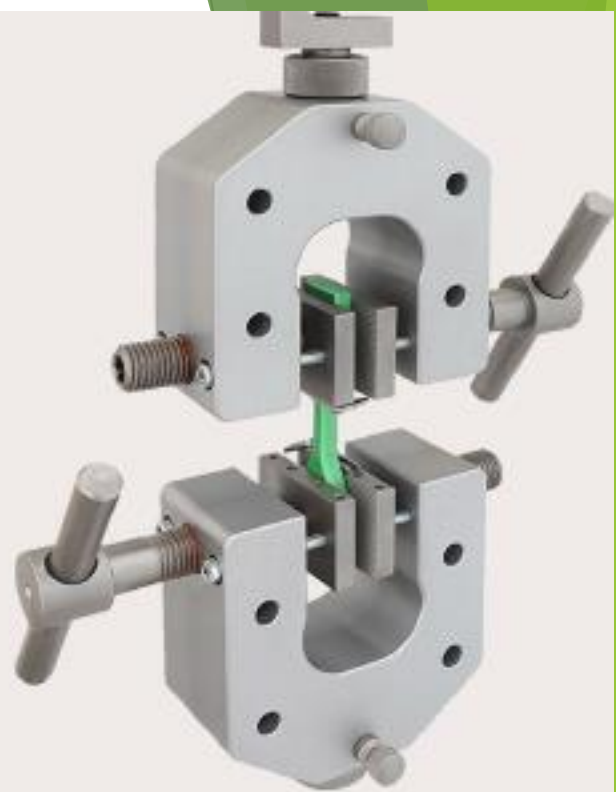














TH57



TH5627+BP



TH5622+BP



TH643-20-T200+BP



TH5527-20-T280+BP









GSM Tester

An equipment to measure the GSM of paper / paperboard.

A GSM kit consists of :

- Digital Balance (10 mg resolution)
- Bullion weight (for Calibration)
- SS Template (10 x 10 cm)
- Paper Cutter Knife

Optional :

Precision Cutter (Round)

Windshield (Acrylic Box)





COBB Tester

Measures the affinity of paper towards water or the ability of paper to absorb water.

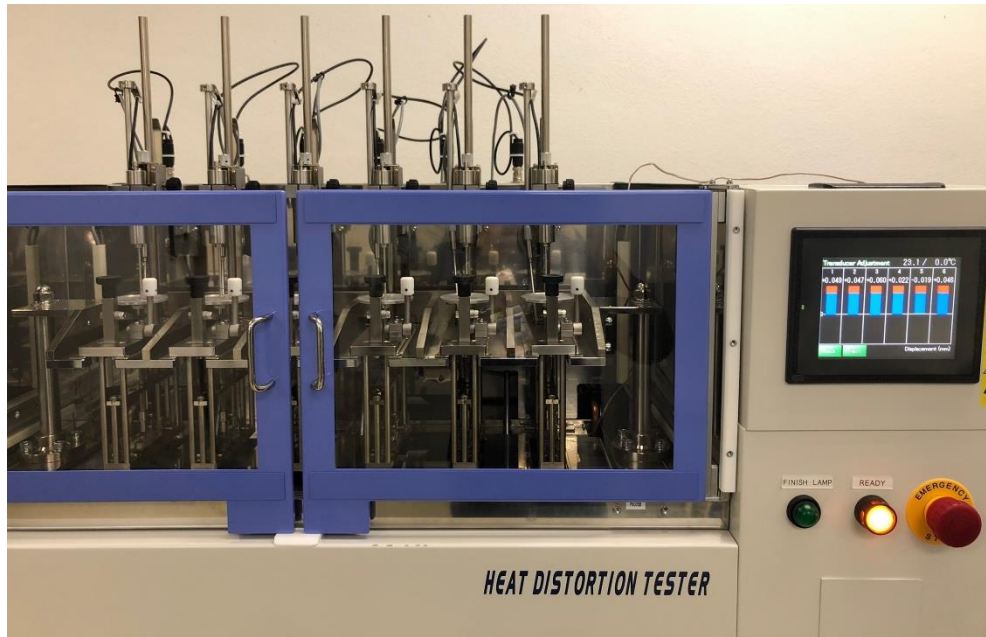
COBB is a very important property of paper.



Gelbo Flex Tester



Yasuda



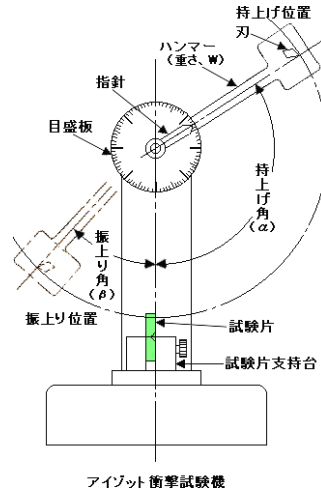
- No148 HD-500 HIGH TEM. Heat Distortion Tester



Impact Tester



- No258 Digital Impact Tester



- No258L Impact Tester with Low Temp. Oven



- No258ZA Fully Auto Impact Tester

Aging Gear Oven Tester



- No122 Test Tube

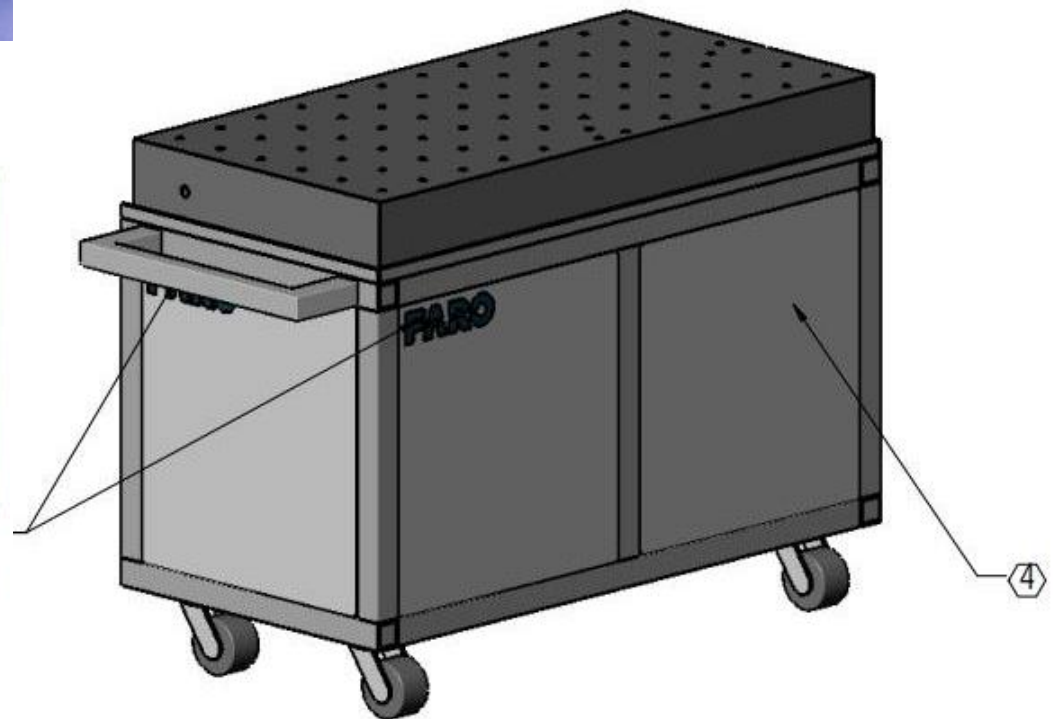
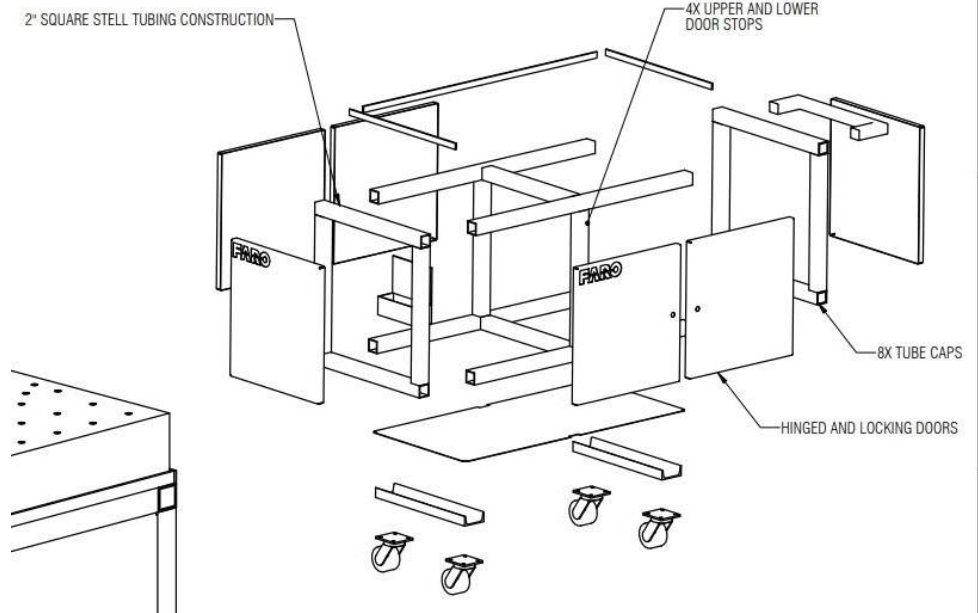


- No102 GEER AGING OVEN











GRADE 00

Size (LxWxH)	Flatness
300x200x60mm	2.7μm
400x250x60mm	2.9μm
400x400x60mm	3.1μm
500x315x70mm	3.2μm
630x400x80mm	3.5μm
630x630x100mm	3.8μm
800x500x100mm	3.9μm
1000x630x140mm	4.4μm
1000x1000x150mm	4.8μm
1200x800x160mm	4.9μm
1600x1000x180mm	5.8μm
2000x1000x220mm	6.5μm
2000x1500x250mm	7.0μm



GRADE 0

Size (LxWxH)	Flatness
300x200x60mm	5.4μm
400x250x60mm	5.9μm
400x400x60mm	6.3μm
500x315x70mm	6.4μm
630x400x80mm	7.0μm
630x630x100mm	7.6μm
800x500x100mm	7.8μm
1000x630x140mm	8.7μm
1000x1000x150mm	9.7μm
1200x800x160mm	9.8μm
1600x1000x180mm	11.5μm
2000x1000x220mm	12.9μm
2000x1500x250mm	14.0μm



Water Bath, Oil Bath

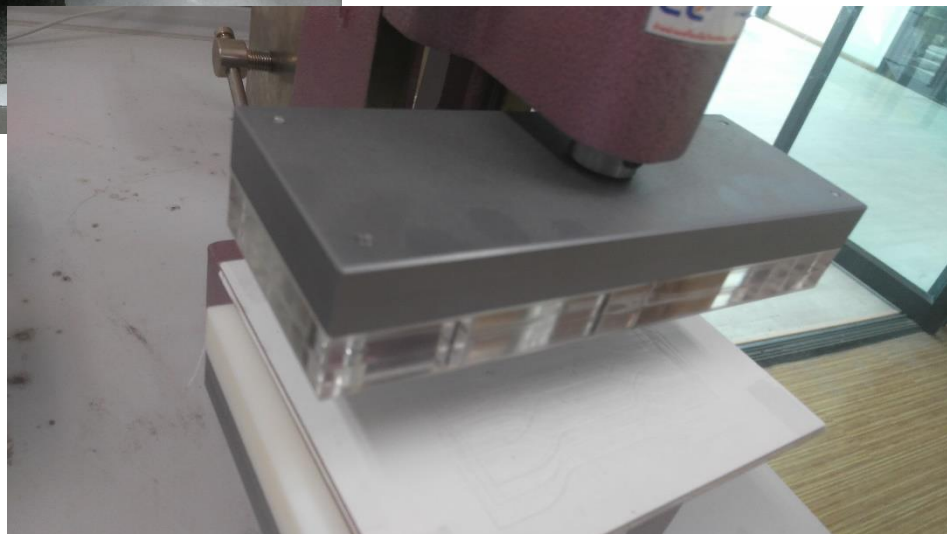


Model sizes/Description			7	10	14	22	29	45
Stainless steel container	Contents	approx. l	7	10	14	22	29	45
	Length	(A) mm	240	350	350	350	590	590
	Width	(B) mm	210	210	290	290	350	350
	Height	(C) mm	140	140	140	220	140	220





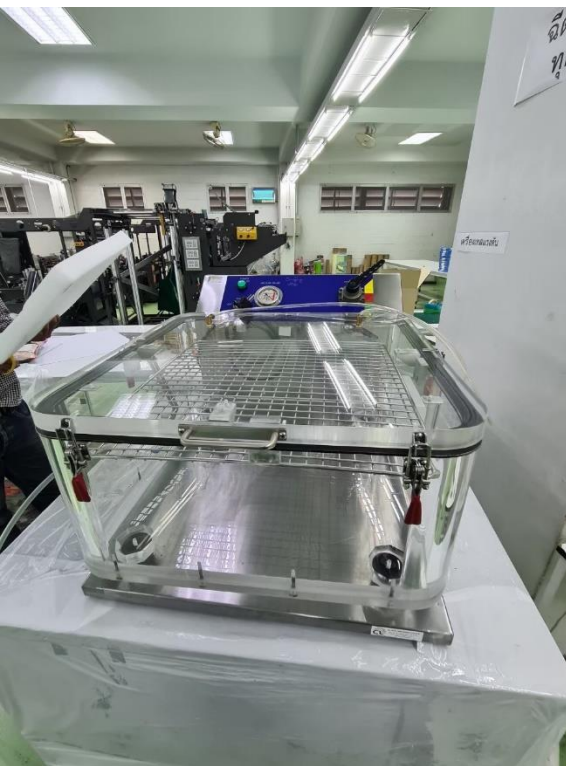


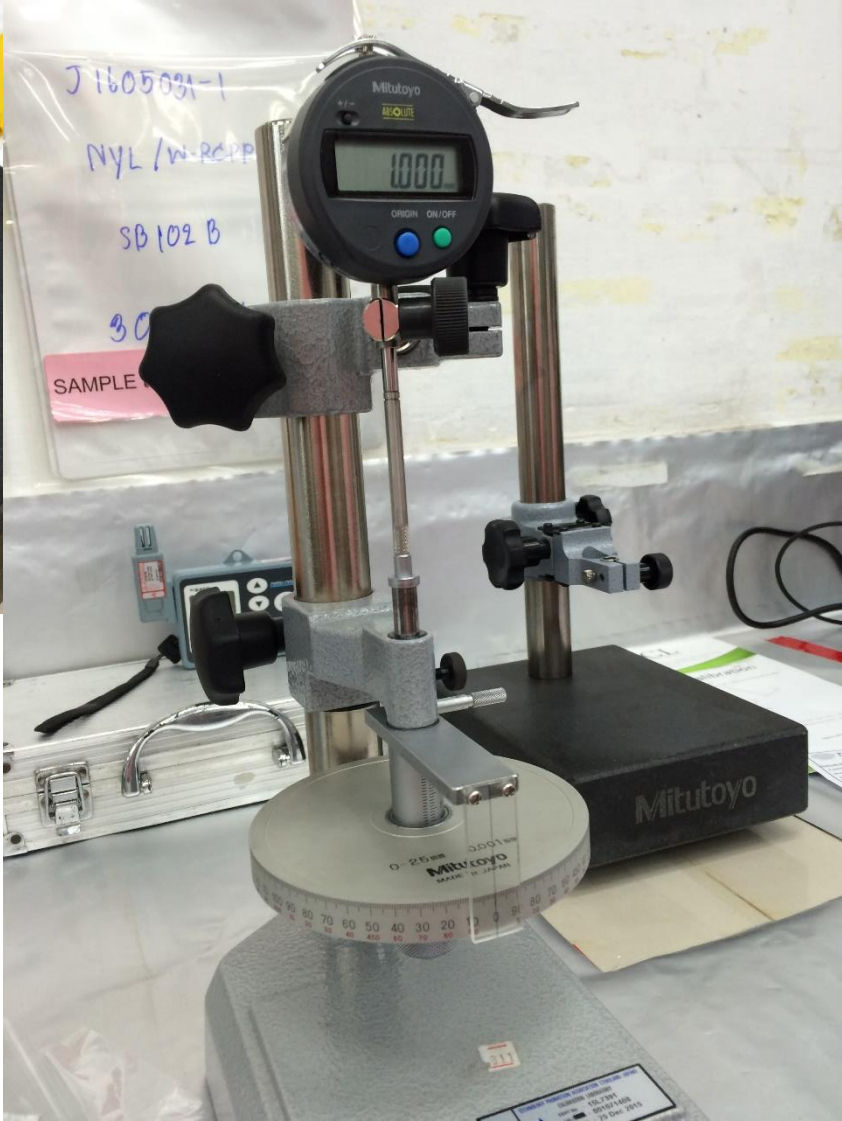
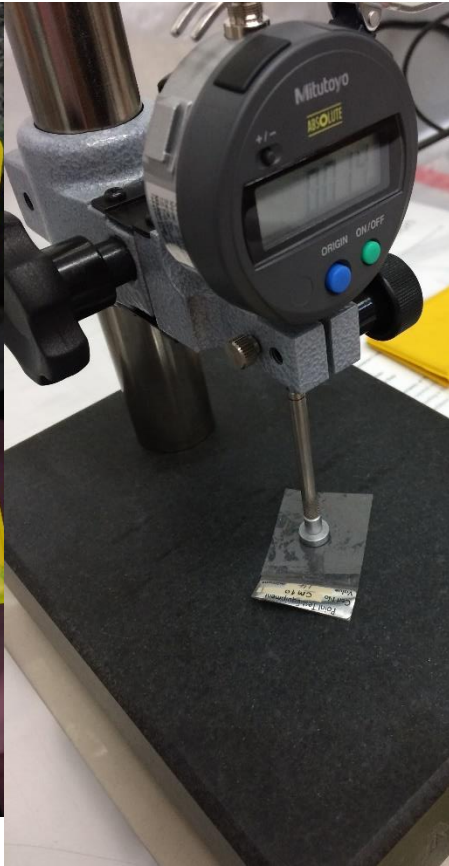












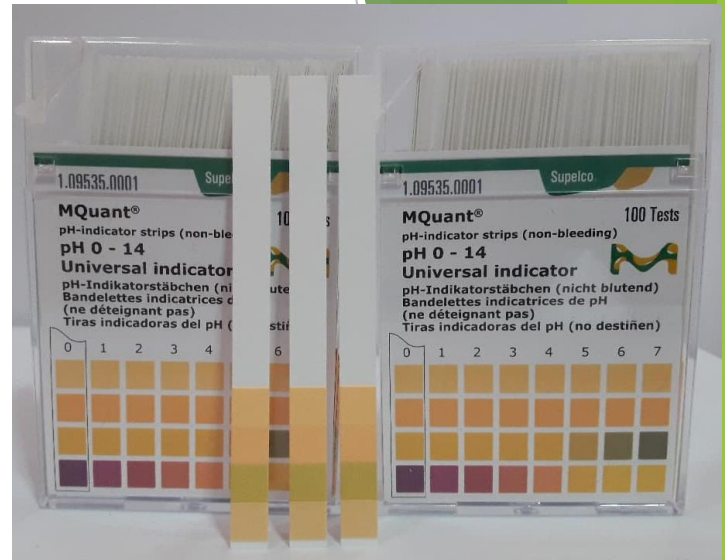
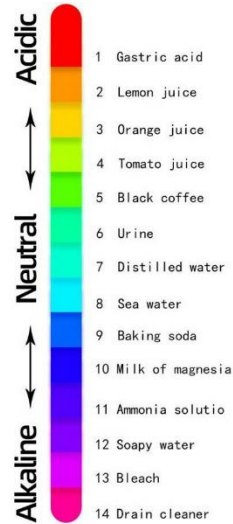
Calibrator



เครื่องวัด ค่าคลอรีน



Conductivity Tester / pH meter



สนใจสินค้าเพิ่มเติมติดต่อ

บริษัท ซีแอล เทคโนโลยี จำกัด

27/92 ถนนประชาอุทิศ 1 เขตบางคอแหลม กรุงเทพมหานคร

02-587-3752, 089-126-1416

sales@cltech.co.th

service@cltech.co.th