

## Pendulum Impact Testing ISO & ASTM SERIES



Mechanical Impact Tester. The machine has inserted the function of machine energy loss calculation, energy formula and unit exchange. It will be easy to read the impact energy of specimen

Model	Standard	Capacity	Type	Dimensions	Weight
QC-639F	ISO	1-22J	Digital	880x380x750mm	250 Kg
QC-639G	ISO	25-50J	Digital	880x380x750mm	250 Kg
QC-639K	ISO	1-22J	Mechanical	810x330x750mm	125 Kg
QC-639	ASTM	3/6/12J	Mechanical	600x300x760mm	82 Kg
QC-639A	ASTM	7/14/21J	Mechanical	680x380x760mm	160 Kg
QC-639B	ASTM	1.5/3/4.5J	Mechanical	600x300x760mm	81 Kg

## Tape Testing Machine



QC-802 Holding Power Chamber



QC-801 Holding Power Tester



QC-803 Motor Roller



QC-805A Tape Initial Adhesion Tester



QC-805P Holding Power Tester



QC-803A Manual Roller

## Carton Compression Tester



Model	Capacity	Testing Speed	Testing Space
QC-101B1	20kN/50kN	0.5-200mm/min	120x120x110cm

## Drop Tester



Model	Testing height	Max Load capacity
QC-113A	30-130cm	60Kg

## Bursting Strength Tester



QC-115D



QC-115

Model	QC-115D	QC-115
Capacity	0.5 - 100 kg/cm <sup>2</sup>	220,50,100 kg/cm <sup>2</sup> (Able to select 2 Gauges)
Indicator	Digital	Remaining needle
Weight	63 kg	65kg

## Salt Spray and CASS Test Chamber

ASTM B117 / D380, JIS 5400 / L22371, CNS 886 / 4157 / 4158 / 4159 / 5078



QC-711 (108 - 450 Liter)



QC-711 (800 - 1000 Liter)

Model	Standard	Capacity	Temp. range	Accuracy	Internal size	External size
QC-711 M	Salt FOG , CASS	108 Liter	RT ~ 63 C	+/- 0.5 C	60 x 40 x 45 cm	125 x 112 x 94 cm
QC-711 L	Salt FOG , CASS	270 Liter	RT ~ 63 C	+/- 0.5 C	90 x 50 x 60 cm	155 x 128 x 105 cm
QC-711-450	Salt FOG , CASS	450 Liter	RT ~ 63 C	+/- 0.5 C	120 x 50 x 75 cm	
QC-711-800	Salt FOG , CASS	800 Liter	RT ~ 63 C	+/- 0.5 C	160 x 50 x 100 cm	
QC-711-1000	Salt FOG , CASS	1000 Liter	RT ~ 63 C	+/- 0.5 C	200 x 50 x 100 cm	295 x 140 x 130 cm

## Temperature & Humidity Chamber

The control instrument adopts imported South Korean TEM1800 meter with English operation interface. The capacity of 100 sets of programmable 1000-section 999-circular steps is available, and the set maximal time every section is 99h 59min. There is RS-232 communication interface and can connect to PC for corresponding operation.



Programable Temp. & Humid. Chamber		Constant Temp. & Humid. Chamber	
Model	UQAT-series	Model	UQCTH-series
Temperature range	A: -20 ~ 150 C	Temperature range	+10 ~ 100 C
	B: -40 ~ 150 C		
	C: -60 ~ 150 C		
	D: -70 ~ 150 C		
Humidity range	30~98%RH	Humidity range	30~98%RH
Available capacity	100 ~ 1000 Liter	Available capacity	100 ~ 1000 Liter
Accuracy	≤±0.5 C / ≤±2 C	Accuracy	≤±0.5 C / ≤±2 C
Temp. Rise speed	1.0~3.0 C/min	Temp. Rise speed	1.0~3.0 C/min
Temp. Fall speed	0.7~1.0 C/min	Temp. Fall speed	0.7~1.0 C/min

## Oven



Model	UQD-series
Temperature range	RT+10 ~ 250 C
	RT+10 ~ 300 C
Available capacity	32 ~ 1000 Liter
Accuracy	≤±0.5 C / ≤±2 C
Temp. Rise speed	1.0~3.0 C/min
Temp. Fall speed	0.7~1.0 C/min

## Suffix Pro

Coating thickness gauge for fast, precise, non-destructive coating thickness measurement for varnish, paint and electroplated coatings on iron/steel and varnish, paint and anodizing coatings on non-ferrous metals



Surfix® Pro S

8 Probes: Wide range of probes

## Suffix S



Surfix S and Surfix S basic

8 Probes: Wide range of probes.

## Suffix



### 6 Models:

Surfix® FN , Surfix® FN basic

Surfix® F , Surfix® F basic

Surfix® N , Surfix® N basic

1 Probe: External, non-switched probe

Measuring Range: 0 – 1500 µm

basic: without memory, statistics, limit values, IR-interface

## Probes

FN1.5	0 – 1500 µm (0 – 60 mils)
F 1.5	0 – 1500 µm (0 – 60 mils)
N1.5	0 – 1500 µm (0 – 60 mils)
FN0.2	0 – 200 µm (0 – 08 mils)
FN 3.5	0 – 3500/3000 µm (0 – 140/120 mils)
F 3.5	0 – 3500 µm (0 – 140 mils)
F10	0– 3010 mm (0 –400mils)
FN 1.5/90°	0 – 1500 µm (0 – 60 mils)



FN1.5  
F1.5  
N1.5  
FN0.2

F10



FN3.5, F3.5



FN 1.5/90



## Pocket Suffix



## Suffix easy



## Paint check



	Surfix Pro S	Surfix S	Surfix	Pocket Surfix	Surfix easy	Paint check
Range	0-10 mm	0-10 mm	0-1500 um	0-1500 um	0-3.5 mm	0-2.0 mm
Accuracy	0.7%	0.7%	1%	1%	3 %	5%
Pole-tip	-----Tungsten Carbide-----					Aluminum
Factory calibration	Yes	Yes	Yes	Yes	Yes	Yes
Calibration method	5 Cal method	1, 2 points	1, 2 points	1, 2 points	1 point	None
Statistic	Yes	Yes	Yes	Yes	Yes	Yes
Memory	10000	200	200	80	None	None
Interface	IR / Cable	IR	IR	IR	None	None
Surface temperature	150 C	150 C	150 C	80 C	60 C	60 C
Resistant acid, Solvent	Yes	Yes	Yes	Yes	Yes	Yes

## EDX-1800b, Rohs & WEEE analysis



Electric-cooling Si-PIN detector  
Measurable elements: S to U. Pb, Cr, Br, Cd  
Detection limit reaches 1ppm.  
Element content: 1ppm to 99.9%  
Excellent repeatability: 0.1%  
Long-time working stability: 0.1%  
Mainly applied in RoHS directive industries, precious metals and jewelries processing industries; banks, jewelry shops and test institutes; electro plating industries

## Thick 800A, Multi layer Plating Thickness



Simultaneous analysis of at most 24 elements or coating of above 5 layers  
Detection limit: 2ppm, analytical content: 2ppm to 99.9%  
Coating thickness: 0.005um minimum, within 20um  
Micro collimator (minimum diameter: 0.1mm), test spot (within 0.2mm)  
High-precision movable platform (position accuracy: below 0.005mm)  
Repeatability of multiple analyses reaches 0.05um  
Working stability over a long period: 0.1um (outermost layer Au below 1um)

## EDX-600, Gold and Plating Thickness Tester



Measurable elements: Au, Ag, Pt, Pd, Cu, Zn, Ni, etc.  
Analysis accuracy: 0.1% (above 96%)

## EDX-3000, Gold Tester



Measurable elements: Au, Ag, Pt, Pd, Cu, Zn, Ni, etc.  
Analysis accuracy: 0.05% (above 96%)  
Analysis range: 1ppm-99.99%

## EDX-Pocket III



For Rohs analysis

## Gloss Meter



Continuous Read  
Flexible Calibration  
Statistic analysis  
Download to PC

Model	Specification	Accessories
Novo Lite -20	Range 0-2000GU	BAM traceable calibration std.
Novo Lite -45	Resolution 0.1GU	Calibration tile cleaning kit
Novo Lite -60	Repeatability 0.2%	Quick-start guide
Novo Lite -20/60	Reproduceability 0.5%	Data cable
	Battery life 15,000	Protective instrument case
	Memory 200 data	Novo-Soft™ QA software CD
	Power Supply	Full manual in PDF format
	Battery 5 x AAA or rechargeable battery	Screwdriver



Model	Specification	Accessories
Novo TRIO - 20/60/85	Range 0-2000GU	BAM traceable calibration std.
	Resolution 0.1GU	Calibration tile cleaning kit
	Repeatability 0.2%	Quick-start guide
	Reproduceability 0.5%	Data cable
	Battery life 15,000	Protective instrument case
	Memory 200 data	Novo-Soft™ QA software CD
	Power Supply	Full manual in PDF format
	Battery 4 x AA	Screwdriver



Model	Specification	Accessories
Novo Curve -60	Range 0-1000GU	BAM traceable calibration tile
	Measurement area 2 x 2 mm spot	Footswitch
	Repeatability 0.2 GU	Power cord AC 220 V.
	Reproduceability 0.5 GU	USB data cable + Novo-Soft
	Memory 199 data	Installation CD
	Power Supply AC 220V	Tile cleaning cloth
	Weight 2.5 kg	4 x Large sample jiggling posts
		Instruction manual

## Orange peel & DOI



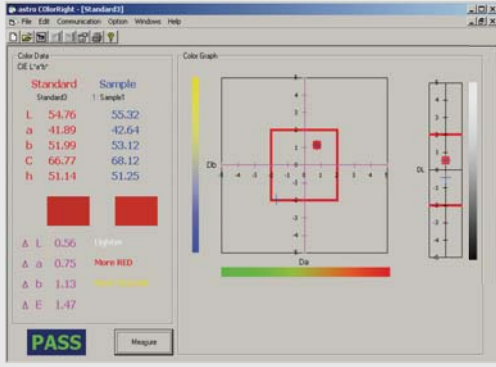
	Gloss	Haze	DOI	Goniophotometric
Angle	20/60	20/60	20/60	14-26 , 54-66
Resolution	0.1GU	0.1HU	0.1%	0.1degree
Repeatabily	0.2GU	0.1HU	0.2%	0.2%

## Opacity & Shade meter



	Specification
Shade & Opacity	0 - 100%
Resolution	0.1%
Repeatabily	0.2%

## Color QC Software, Colorimeter



- Low price, High efficiency.
- Complete box tolerancing. Enables accurate color judgement and prevent Delta E\*ab reading error.
- Color Graph, Color Trend, Statistic -Max, Min, Mean.
- Report print out.

## Light Booth



Light source C, D65, CWF, UV, TL-84

## Color Spectrophotometer



x-rite SP-60



x-rite MA-68

## Munsell Book



## Balance, Scale



## PH & Conductivity meter



Cyber Scan PC-510 PH/CON



Cyber Scan CON11



Cyber Scan PH11



Pocket PH

# Paint test equipment



Coating Thickness Tester



Pencil Hardness Tester



Cross Cut Tester



Oven



Oven

# Measuring Instruments



Push Pull Gauge



Torque Tester



Cap Torque Tester



Manual Test Stand



Shore Durometer



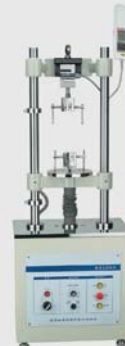
Ultrasonic Thickness Gauge



Stroboscope



Cap Torque Tester



Motorized Test Stand

CHECK·LINE USA

Astro Instrument Ltd. Part  
 Mr. SURPUN KANVIGIT  
 212/4 Moo 7 Srinakorn Rd  
 T. Thaparak, A. Muang, Samutprakarn, 10270  
 THAILAND

Distribution of Coating Thickness Gauges in Thailand.

We declare herewith that the above mentioned company is authorized to deal with our coating thickness gauges Surfell Pro S, Surfell ProB, Surfell, Pocket Surfell, Surfell easy, PaintCheck and its respective accessories in Thailand since 2008. Furthermore, Astro Instrument Ltd. has the necessary equipments to carry out the test certificate according to our measurement rules.

Cologne, July 12th 2010

PHYNIX GmbH & Co. KG

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 SWF Code HVE DE 88 414  
 SWF Code DE 26700200000000181  
 DE 2670020000000018666

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**Manufacturer's Certificate Type M**  
 according to DIN 58 350 part 18, paragraph 4.2.2, DIN ISO 8402 Part 1

Order placed by: **Astro Instrument Ltd., Bangkok**  
 Order no.: date: **OT/004, 29.07.2009**  
 Test objects: **Calibration Thickness Standards (plastic shims)**

Test result:  
 The certified thickness standards meet to the indicated specifications.  
 The measured deviations are within the guaranteed tolerances.

True value (indicated on the product)	Actual values (level of measurement)	Average of measurements (µm)	Absolute deviation (µm)	Relative deviation (%)
30.0 µm ± 1 µm	29.9, 29.8, 29.4, 30.6, 30.4	30.0	0.0	-0.1
50.3 µm ± 1 µm	50.2, 50.2, 50.4, 50.2, 50.3	50.3	0.0	0.0
96.9 µm ± 1 µm	96.9, 96.5, 97.2, 96.7, 97.2	96.9	0.0	0.0
194.3 µm ± 1%	194.4, 195.0, 194.0, 193.7, 194.6	194.3	0.0	0.0
514.5 µm ± 1%	514.5, 515.7, 515.9, 511.8, 514.7	514.5	0.0	0.0

The actual values are the arithmetic mean values of 5 measurements. Four of these values are taken in a distance of 10 mm from the centre in the corners of a hollow square. The fifth value was taken in the centre.

The thickness standards used in our laboratory are traceable to the length standard of the Federal Republic of Germany. The reference standards, thickness measurement standards and supplemental devices used by our laboratory are maintained in accordance with the guidelines of our quality assurance.

The reference temperature for all test is 21°C ± 2°C.

Used measurement equipment for documentation purposes of the traceability:  
 Length measuring instrument: **HEIDENHAIN Model: M11281, SN: 888843A, 10 No. 337314-02, calibrated at HEIDENHAIN using the calibration standard with the official number 3059 P7B 02.**  
 Used reference standards on which the calibration measurements are based:  
 Set of gauge blocks S.No. 99 739 calibrated by the testing laboratory **Finnmes Jena GmbH** according to certificate No. 1658 DCM-A-2010 (200802).

PHYNIX GmbH & Co. KG  
 Köln, Deutschland  
 Date: 29.07.2009  
 Inspector: Ludwig Adorn



Cometech Testing Machines Co., Ltd.  
 No. 48 Lane 20 Dafa Rd., Shenggang Shiang, Taichung Hsien, Taiwan.  
 Tel: 886-4-25297441 Fax: 886-4-25297324  
 Email: sales@come-tech.com.tw

**Letter of Authorization**

Date: **January 13, 2010**  
 To Whom It May Concern:

We, **Cometech Testing Machines Co., Ltd.** who are official manufacturers of universal testing machine, having factories at No.48, Lane 20, Dafa Rd., Shenggang Shiang, Taichung Hsien, 42946 Taiwan, do hereby authorize **Astro Instrument Ltd. Part.**, located at 2122/4 Moo 7, Srinakorn Rd., T. Thaparak, A. Muang, Samutprakarn 10270 THAILAND, to represents us to submit the quote based on equality and mutual benefit to develop business from January 1, 2010 to December 31, 2010.

We authorize the above mentioned company to promote all of our products-universal testing machine/benale testing machine/other testing machine indicated in our web site: [www.come-tech.com.tw](http://www.come-tech.com.tw) by in this bid.

In this period, we support and offer products per **Astro Instrument Ltd. Part.** inquiry.

Sincerely,  
*Shan Hung*  
 Manager  
 Cometech Testing Machines Co., Ltd

Measuring Instrument





[www.astroinstrument.com](http://www.astroinstrument.com)

## **ASTRO INSTRUMENT Co., LTD.**

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