



橡塑膠 & 包裝測試

橡塑膠 & 包裝測試 



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<https://www.astroinstrument.com>

Universal Testing Machine

萬能材料試驗機



QC-503M1F/M2F

Universal Testing Machine

萬能材料試驗機

Capacity	100kN
Force resolution	31bits
Force precision	1/100,000
Stroke	1100mm (w/o grips)
Columns	550mm
Max. speed	375mm/min
PC-port	RJ 45 (TCP/IP)
Moror type	Servo motor
Dimension	1200 x 600 x 2200 mm



QC-508M1F/M2F

Universal Testing Machine

萬能材料試驗機

Capacity	5kN
Force resolution	31bits
Force precision	1/100,000
Stroke	800mm (w/o grips)
Cantilever distance	70mm
Max. speed	1000mm/min
PC-port	RJ 45 (TCP/IP)
Moror type	Servo motor
Dimension	500 x 520 x 1450 mm



Temperature Type Universal Testing Machine

溫度型材料試驗機

Capacity	100N~100kN
Stroke	200mm(w/o grips)
Inner size	200x200~500x500mm
Temperature	high : 25° ~ 300° low : -60° ~ +100°

*Related accessories will be planned with customer's needs



QC-505M1F/M2F

Universal Testing Machine

萬能材料試驗機

Capacity	50kN
Force Resolution	31bits
Force precision	1/100,000
Stroke	1100mm (w/o grips)
Columns	420mm
Max. speed	600mm/min
PC-port	RJ 45 (TCP/IP)
Moror type	Servo motor
Dimension	900 x 600 x 1950 mm



QC-508D1

Universal Testing Machine

萬能材料試驗機

Capacity	5kN
Force resolution	23bits
Force precision	1/10,000
Stroke	800mm (w/o grips)
Cantilever distance	70mm
Max. speed	600mm/min
PC-port	RJ 45 (TCP/IP)
Moror type	DC motor
Dimension	500 x 520 x 1450 mm



QC-551

Extensometer

兩點延伸器

Test stroke	700/1100mm
Resolution	0.025mm
Gauge length	20,25,30,50 (Can be customized)
Thickness of specimen	0.2~6mm

*Suitable for the material elongation higher than 20%



QC-506M1F/M2F

Universal Testing Machine

萬能材料試驗機

Capacity	20kN
Force resolution	31bits
Force precision	1/100,000
Stroke	800mm/1200mm (w/o grips)
Columns	425mm
Max. speed	830 mm/min
PC-port	RJ 45 (TCP/IP)
Moror type	Servo motor
Dimension	950 x 580 x 1510 mm



QC-528M1F

Universal Testing Machine

萬能材料試驗機

Capacity	500N
Force resolution	31bits
Force precision	1/100,000
Stroke	400mm (w/o grips)
Cantilever distance	55mm
Max. speed	600mm/min
PC-port	RJ 45 (TCP/IP)
Moror type	Step motor
Dimension	475 x 285 x 825 mm



QC-557

Short Extensometer

金屬短延伸器

Gauge length	25mm/50mm
Resolution	0.0005mm
Elongation	100%(25mm)/50%(50mm)
Specimen thickness	0~20mm

Plastic & Rubber

橡膠測試



QC-603

Manual Specimen Punch
手動試片裁切機

Material	Rubber, soft plastic and leather, etc.
Pressing board area	70×150mm
Dimension	42 × 42 × 75 cm



QC-603A

Pneumatic Specimen Punch
氣動式試片裁切機

Material	Rubber, soft plastic, leather
Compression platen size	Upper platen Ø145 mm Lower platen 260 x 230 mm
Stroke	100 mm
Power supply	Pneumatic: 3~6kg/cm ²
Output force	900kg
Dimension	35 × 43 × 69 cm



QC-603I

Hardness Specimen Cutting Device
硬質試片裁切機

Material	Hardness of polymer specimen
Speed range	150~3500RPM
Specimen thickness	2 ~ 15 mm
Minimum cutting angle	R = 6 mm
Dimension	47 × 40 × 59 cm



QC-603C

Air Hydraulic Specimen Punch
空油壓試片裁切機

Material	Rigid plastic, fabric
Compression platen size	Upper platen 35x16cm Lower platen 35x18cm
Pressure stroke	20 mm
Power supply	Pneumatic: 3~6kg/cm ²
Output force	3000kg
Dimension	40 × 38 × 107 cm



QC-643

Stiffness Tester
挺度試驗機

Max. capacity	500g
Test angle	1~90° adjustable
Test length	1、5、10、15、20、25、50mm
Speed	5° ~ 100°/sec
Dimension	40 × 35 × 32 cm



QC-639C/D

Mechanical Impact Tester
萬能衝擊試驗機

Model	QC-639C	QC-639D
Test type	IZOD/CHARPY	
Impact angle	150°	
Test capacity	Izod 1J~11J Charpy 1J~11J	Izod 1J~25J Charpy 1J~25J
Dimension	90×30×70cm 95×38×76cm	



QC-639S/T

Digital Impact Testing Machine
電子式衝擊試驗機

Model	QC-639S	QC-639T
Test type	IZOD/CHARPY	
Impact angle	150°	
Test capacity	Izod 1J~11J Charpy 1J~11J	Izod 1J~25J Charpy 1J~25J
Dimension	90×30×76cm 90×38×76cm	



QC-640

V-shape Notcher
衝擊試片切角機

Cutting speed	30-550m/min
Notch angle	45° (or indicated)
Specimen size	Thickness 3 ~ 13 mm Height 10 ~ 13mm
Specimen length	14 cm (max.)
Dimension	48 × 37 × 35 cm



QC-639P/Q

Computerized Impact Tester
電腦式衝擊試驗機

Model	QC-639P	QC-639Q
Test type	IZOD/CHARPY	
Test capacity	Izod 1J~11J Charpy 1J~11J	Izod 1J~50J Charpy 1J~50J
Minimum display angle	0.05°	
Impact angle	150°	
Dimension	96×42×75cm 110×50×105cm	



QC-GF-300

Gravity Meter
比重天平

Weighing range	0~310g
Minimum weighing value	0.001g
Dimension	44 × 32 × 27 cm

Plastic & Rubber

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QC-654

Heat Deflection Tester

加熱變形試驗機

Use temperature	Room temperature ~ 300°
Temperature control	Rise speed 2°C/min
Deformation	0.01~10mm
Span	100mm(Max.)
Test quantity	1,2,3,6 sets



QC-674

Electricity Programmable Forming Machine

可程式熱壓成型機

Pressure	10T 20T 30T 50T
Temperature	Room temperature ~ 300°C
Heating time	50°C to 150°C takes 18 mins
Cooling time	150°C to 60°C takes 10 mins
Size of heating plate	30x30cm(or designated)
Dimension	128 x 74 x 152 cm

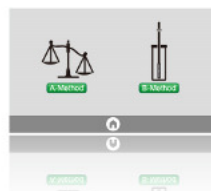


QC-652S

Melt Flow Index Tester

熔融指數試驗機

Use temperature	50° ~ 360°
Test method	MFR/MVR
Hole mold	2.095±0.005
Counter weight	1100g、2060g、3700g、4900g Optional
Dimension	29 x 51 x 46 cm



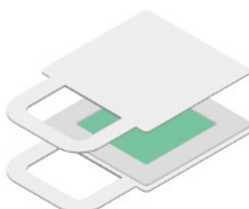
QC-656A

Digital Heat Deflection Tester

電子式加熱變形試驗機

Use temperature	Room temperature ~ 300°
Temperature control	Rise speed 2 °C/min
Deformation	0.001~10mm
Span	64mm/100mm
Test quantity	6 sets

*Real time temperature and deformation.
*Complete test automatically.



QC-677A

Manual Thermos Press Forming Machine

手動熱壓成型機

Pressure	10T 20T 30T 50T
Temperature	Room temperature ~ 300°C
Heating time	50°C to 150°C takes 18 mins
Cooling time	150°C to 60°C takes 10 mins
Size of heating plate	25x25cm(or designated)
Dimension	53 x 62 x 145 cm



QC-607

Aging Oven

老化試驗機

Model	M L
Temperature	40°C ~ 200°C
Control method	Electric digital temperature controller
Heat method	Hot air recycling
Dimension	74x64x118cm 80x70x130cm



QC-605

Drying Oven

烘箱

Model	M L
Temperature	40°C ~ 200°C
Control method	Electric digital temperature controller
Heat method	Hot air recycling
Dimension	74x64x118cm 100x70x115cm



QC-609A

Discoloration Meter

耐黃變試驗機

Temperature	5°C ~ 260(Normally 50°C)
Control method	Electric digital temperature controller
Heat method	Hot air recycling
Dimension	93 x 58 x 117 cm



QC-631

Compression & Deformation Tester

永久壓縮歪度試驗機

Specimen	28.68x12.7mm (rubber)
Dimension	50x50x25mm (H)(foam plastic)
Material	SUS 304 stainless steel
Size of interval rings	5.0, 7.62, 8.89, 9.52, 10.16 mm are available (10 interval rings of the same size will be offering for free)
Dimension	20 x 10 x 12 cm



QC-637B

Dropping Impact Tester

落球衝擊試驗機

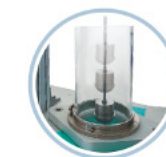
Testing height	5~200 cm
Dropping ball control	Controlled by electromagnetic
Weight of steel ball	500g x 1, 1000g x 1 (or indicated)
Base plate	42 X 29 cm (or indicated)
Dimension	46 x 46 x 215 cm

QC-633A

Drop Dart Tester

薄膜衝擊試驗機

Model	A B
Falling height	66cm 152.4cm
Dart diameter	Ø38.1mm Ø50.8mm
Dart material	FRP Stainless steel
Weight	1995g 2010g
Dimension	43 x 56 x 218 cm



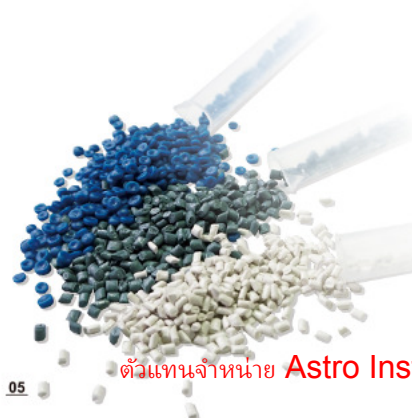
QC-701A

Super Daylight

標準多光源對色箱

Inner chamber	67x37x35 cm
Light source	D65 TL84CWF A UV
Timer	5sets
Dimension	72 x 42 x 58 cm

*Suggestion: Replacing light tube when reach 1000 hours.



Plastic & Rubber

橡塑膠測試

QC-619K

TABER Abrasion Tester
TABER磨耗試驗機

Grinding wheel	Diameter 2 inch Thickness 1/2 inch
Disk rotary speed	1~100 rpm (adjustable)
Sample size	Diameter: Ø110mm, Center hole Ø7.5mm, Thickness: 1~6mm
Dimension	55 x 38 x 47 cm

QC-621H

Surface Hardness Abrasion Tester
表面硬度磨耗機

Abrasion distance	10 ~ 100 mm
Sample size	Width 20 ~ 200 mm, thickness max. 50 mm
Control panel	1 ~ 120 CPM 1 ~ 99,999,999 times
Abrasion head grip	Sand paper · cotton · steel wool · other
Dimension	70 x 35 x 40 cm

QC-SM

Thickness Gauge
厚度計

Model	Reading (mm)	Depth (mm)	Load (N)
SM-112	0.01~10.0	26	2.5
SM-114	0.01~10.0	120	2.5
SM-150	0.01~10.0	400	2.5
SM-1201	0.001~1.00	30	1.5

QC-618A

DIN Abrasion Tester
DIN磨耗試驗機

Sample size	Diameter: 16mm Height: 6~16mm
Drum	Diameter: 150 mm, Perimeter: 471mm, Rotary speed: 40PRM
Sand paper	#60 or indicated
Dimension	81 x 32 x 36 cm

QC-615A

AKRON Abrasion Tester
AKRON磨耗試驗機

Weights	2 LB and 6 LB
Testing angle	15° (adjustable)
Grinding wheel	# 36
Diameter of grinding wheel	Ø150 mm
Dimension	65 x 45 x 45 cm

GS Series

Hardness Tester
硬度計

Model	Type	Application	Indenter	Load
GS-701N	Shore C	Foam (PU)	Ball	1kg
GS-702N	Shore D	Hard plastic	Needle	5kg
GS-709N	Shore A	Normal rubber	Needle	1kg

QC-GS

Fixed-pressure Load Stand
定壓荷重台

Loading weight	1kg, 5kg (1+4kg)
Feature	Specimen height adjustable
Dimension	18 x 20 x 42 cm

Package Testing Machine

包裝測試

QC-121M1F

Box Compression Tester
紙箱抗壓試驗機

Model	(A)	(B)	(C)	(D)
Test space capacity	100x100x90 cm	120x120x100 cm	100x100x90 cm	120x120x100 cm
Max speed	0.0001 ~ 200mm/min			
Dimension	159x100x170cm	179x120x176cm	159x100x170cm	179x120x176cm
Weight	800 kg	900 kg	850 kg	950 kg

QC-116

Digital Bursting Strength Tester
破裂強度試驗機

Model	High pressure	Low pressure	Textile
Pressurization Speed (ml/min)	170±15	95±5	98±4
Upper plate (mm)	Ø31.5±0.05	Ø30.5±0.05	Ø30.5±0.05
Lower plate (mm)	Ø31.5±0.05	Ø33.1±0.05	Ø30.5±0.05
Max. force	75kg/cm ²		
Dimension	53 x 33 x 58 cm		

QC-117

Coefficient of Friction Tester
靜摩擦試驗機

Specimen size	120 x 300mm (Max.)
Weight size	Ø50 x 45 about 700g (standard)
Test angle range	0~45°

QC-113A

Pneumatic Type Drop Tester
氣壓式落下試驗機

Testing height	30~130 cm (200cm)
Moving speed	2000 mm/min
Sample plate	27 x 47cm (W x D)
Max. load	Approx. 60kg
Max. sample size	80 x 80 x 80cm
Dimension	85x150x230 cm

QC-117A

Motor Coefficient of Friction Tester
電動靜摩擦試驗機

Specimen size	120 x 300mm (Max.)
Weight size	Ø90 x 100 about 1300g (standard)
Test angle range	0~60°

QC-PS1

Cutters for Circular Sample
圓形樣品切割器

Sample area	100 cm ²
Sample diameter	Φ113 mm
Cutting thickness	Around 5 mm
Dimension	17x17x13mm

Package Testing Machine

包裝測試



QC-801

Tape Holding Power Tester (Normal Type)
常溫型膠帶保持力試驗機

Model	801
Testing jigs	10 sets
Weights	1kg x 10pcs
Timer	99999.9 minutes
Dimension	93 x 26 x 62 cm

QC-802A

Tape Holding Power Tester (Heating Type)
烘箱型膠帶保持力試驗機

Temperature	Room temperature~200°C
Testing jigs	10 sets
Weights	1kg x 10pcs (or other specification)
Timer	99999.9 minutes
Dimension	100 x 50 x 92 cm



QC-803J

Motor Type Roller
電動式輥壓滾輪

Weight of roller	4.5LB (two roller use in same time)
Speed of roller	50 ~ 600mm/min(adjustable)
Width of roller	45mm
Diameter of roller	95mm
Dimension	62 x 36 x 31 cm

QC-803A

Manual Roller Tester
手持式輥壓滾輪

Weight of roller	4.5LB
Speed of roller	Control by hand
Width of roller	45mm
Diameter of roller	95mm
Dimension	13 x 22 x 8 cm

QC-507M1F

Universal Testing Machine Horizontal Type
臥式拉力機

Capacity	100N
Stroke	300mm
Max. speed	600mm/min
PC-port	RJ 45 (TCP/IP)
Motor type	Step motor
Dimension	92 x 30 x 38cm



QC-PP&PPI

Force Gauge(mechanical / electronic)
拉壓力計

	Digital	Mechanical
Capacity	1-50kg	5,10,20,30,50kg (optional)
Accuracy	±0.2%	0.5%
Unit	N,kgf,(gf),lbf	N,kgf(optional)



QC-805

Tape Initial Adhesion Tester(1 set)
單組式膠帶初黏性試驗機

Test angle	0° ~ 40° Adjustable
Ru-up distance	100mm
Accessory	With No. 2~32 steel ball, one set
Dimension	60 x 20 x 49 cm



QC-805A

Tape Initial Adhesion Tester(4 set)
四組式膠帶初黏性試驗機

Test angle	20° ~ 40° Adjustable
Ru-up distance	100mm
Accessory	With No. 2~32 steel ball, four set
Dimension	55 x 30 x 30 cm

QC-805P

PSTC Tape Initial Adhesion
PSTC式膠帶初黏性試驗機

Slope angle	21.3°
Ball diameter	Φ7/16 inch x 3
	Φ7/32 inch x 5
Slope length	6.5 inch
Dimension	23 x 6 x 7 cm

QC-104

MIT Folding Endurance Tester
耐折強度試驗機

Bending angle	+135° ~ -135°
Bending speed	175±25CPM
Angle radius(R)	0.38/0.5/0.8/1.0/2.0/3.5
Grip interval(T)	0.25/0.5/0.75/1.0/1.25mm
Specimen tension	50~2000g
Gap between grips	70 mm
Dimension	63 x 44 x 46 cm



QC-807

Film Bar Cutter
薄膜長條切割器

Specimen cutter width	1 inch or indicated width
Cutting thickness	0.05~1mm
Suitable material	Paper, plastic film, film

QT-010

Closure Torque Tester
手動瓶蓋扭力機

Measurement range	0~10N-m, 0~100kgf-cm, 0~90in.lb
Display resolution	0.001N-m, 0.001kgf-cm, 0.01in.lb
Container diameter	Φ10 ~ 190 mm
Dimension	45 x 19 x 13.6 cm





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