

PHU公司簡介 Company profile

新瑞開發科技有限公司 是從事染整化驗室設備製造、銷售及服務的一貫專業廠商。

我們團隊的成員都擁有20年以上的專業經驗在化驗室、染整工廠及機械、電機等的製造領域。我們更有積極服務的工作態度，提供客戶需要的功能性商品。

自西元2000年正式成立以來得到許多客戶的支援及愛護，使我們的產品銷至海內外超過20個國家包含歐洲、日本及美國等地也設立了服務經銷據點。我們除了在供應硬體及訓練外，也提供軟體系統改善及設計特殊(按客戶要求)的設備，替客戶解決工作上的難題。

We, NEWAVE COMPANY, was founded in the year 2000. Our main business is manufacturing the laboratory equipments of Dyeing, Finishing and Printing of textile industry. Many of our technical engineers have many years of experience in related fields. We are keenly engaged in providing high quality products and the best maintenance service to ours customers.

We are pleased to say that we have been quite successful in last 10 years by obtaining so many customers' support to achieve more and more market shares. Our products are distributed to over 20 countries, including China, Japan, Thailand, Indonesia, Vietnam, Bangladesh, India, Peru, Salvador, and United States etc.... The scope of our selling and service activities is outreaching five continents. In addition to offering the equipments with regular specification, we can customize the machines as customer's need. We develop the color matching software to analyze the test samples and increase the accuracy of existing formulas.

"Keep walking" toward the right direction is our vision and 30 members will insist to keep our commitments to our customers to make WIN/WIN situation.

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新瑞電腦配色系統

全新版本採用 JAVA 語言可與麥金塔、Linux、Windows等作業平台運行，操作簡便初學者也可即時上線，精準有效的配色、修色、現場追加功能，以及強大的品管功能，提供了更寬廣之色彩品質評估資料及圖形。

- 光源與色差公式：共計有十七組光源及八組色差公式供選擇。
- 資料庫：材質資料、染料資料、染料分類及色庫資料。
- 配色功能：組合檔配色、選擇性配色、智慧型配色及色庫計算。
- 現場追加修色：生產修色及染料計算。
- 品管系統：色差測色、牢度評級、白度、黃度測試、力度分析、色度圖及色彩語言、555分色...等。
- 光譜數據 / 光譜圖：反射率、K/S值、座標值、色度空間、色度圖、分光圖、K/S曲線、Log(K/S)曲線、趨勢圖、CIE LAB 3D...等。
- 分光儀：X-Rite (GretagMacbeth) Color Eye 3100 or i5 or i7 or 7000A系列及不同廠牌分光儀。

LABTEC COMPUTER COLOR MATCHING SYSTEM

A Java-based structure enables it to run on Windows, Linux and Macintosh operating systems. It is Designed for the most inexperienced newcomer to easily work. It streamlines all color matching, correcting, production correcting and powerful color quality control calculating, and also provides more accurate color quality control programs and sophisticated graphical displays.

- **Illuminants & Colo Differences:** 17 illuminants and 8 chromatism formula.
- **Database Management:** Substrate Management, Dyestuff Management, Group Management and Color Library Management.
- **Match Function:** Combination Match, Selection Match, Smart Match and Color Shade Search.
- **DyeHouse:** Production Correction and dyestuff Calculation.
- **Color Control:** Color Difference, Fastness, Whiteness, Yellowness, Strength Analysis, Color Metric, Color Chromaticity, 555 Shade Sorting...and so on.
- **Spectral Data/Spectral Graph:** Reflectance, K/S, Correlated Haze, Color Plot, Reflectance Chart, Log(K/S) Chart, Trend Charts, CIELAB 3D graphical displays.
- **Spectrophotometer:** X-Rite (GretagMacbeth) Color Eye 3100 or i5 or i7 or 7000A, and permits to work with your existing DataColor and so on.



紅外線加熱型試色機 IR-TYPE

最新一代紅外線試色機，採用輻射傳導方式加熱，不須熱媒，乾淨、環保無油煙污染...



IR DYEING MACHINE

IR-DYER is the latest invention of laboratory low liquid ratio dyeing machine. Excellent dyeing repeatability & highly levelling result.



常溫振盪試色機 L-TYPE

本機用於常溫試色，操作極為方便，更可輕易的在染程中添加助劑，當然也適於一般浴棉、皂洗、固色等試驗。

OSCILLATING DYEING MACHINE

This oscillating type of laboratory dyeing machine was made for replacing the old conventional pots or bottles.



多功能快速試色機 H-TYPE

此機為現代印染之工程中，使用最廣泛的試驗機，可單獨取放染杯，不必同時下染，操作性優良，備有各種染杯、機型，種類齊全，可滿足各種需求...



HT DYEING MACHINE

Compare to other similar dyeing machines it is more friendly to operate, simpler to set programs & easier to maintain.



皮革染色機 H-4+4/H-8+8

在染色鼓運轉過程中使皮料間產生強烈的摩擦，有助於化工原料，迅速滲入到皮料深度和硬度、密度較高的部位...

LABORATORY LEATHER DYEING MACHINE

This machine is used in tanning, fatliquoring and dyeing in the engine of leather. When the dyeing drum is rotating, leathers would deeply rubs with each other.



圓筒式染色機 DR-TYPE

此機適用範圍為小量精練、染色、假燃編檢帶、襪帶染色試驗、成衣染色及水洗(石頭洗)等，單格型又可作為織物水洗收縮率試驗之設備。

DRUM DYEING MACHINE

This machine is specially designed for the dyeing ability test of faulse twisted yarns & the shrinkage test of hosiery yarns.



塑膠壓染試色機 S-41

塑膠染色機廣泛使用於下列工程：配色試驗、軟硬度試驗、試安定劑、物理試驗、化學試驗、各種特殊配料、小量生產作業。

Laboratory Two Roll Plastic Mixing Mill

The surface of the corrosion resistant steel rollers is hardened and polished. Heating is achieved by heating cartridges installing in the rolls and ensuring an even temperature distribution over the whole roll width.



樹脂壓染試驗機 P-A/B

由壓縮空氣推動橡膠軸，可藉由壓力調整得到與現場一致的壓吸率，適用於染料、顏料、助劑、樹脂之含浸，配合定型烘乾機M-3或M-6，可作為樹脂加工及壓染工程之試驗。

- 羅拉規格：NBR橡膠被覆羅拉 直徑125mm，長度450mm
• 羅拉轉速：10~12RPM 轉速可調整需另外選配
• 羅拉硬度：70度，耐壓6kg/cm²
• 壓力調整：二組壓力調節閥，可單獨調整羅拉左右壓力二組壓力指示表
• 安全裝置：緊急按鈕開關及膝壓板
• 規格指定：P-AO、P-BO、P-AI、P-BI
• 空氣壓縮機可選購
• 機台尺寸：P-A W92xD61xH145(cm) P-B W92xD62xH125(cm)

PADDING MANGLE

- Simulate the production condition to make satisfactory hand feeling samples and repeat it in the production.
• Mini-dryer and Tenter can be used together with it.
• Applying for selecting of dyestuff & finishing chemicals, run the tests of water-proof, flame retarding, anti-dust etc.
• We have vertical type suitable for finishing and horizontal type which is more suitable for pad-dyeing & finishing as well.
• Machine dimension: P-A W92xD61xH145(cm) P-B W92xD62xH125(cm)



連續式壓吸蒸染試驗機 PS-JS

本機適用於飽和蒸汽的染料壓吸蒸染工程，布樣由壓吸到進入蒸箱的時間極短，可有效避免染料在空氣中氧化，還原的影響。

- 壓吸裝置：精密研磨NBR橡膠羅拉 直徑125mm x 長300mm 橫式裝置，壓縮空氣推動，可單獨調整壓力
• 試布路徑：間接蒸汽5kg/hr 直接蒸汽15kg/hr
• 出口封套：採用水封式，溫控自動給水
• 使用溫度：飽和蒸汽溫度102°C
• 配管：蒸汽入口1/2吋，入水口1/2吋
• 其他選配：空氣壓縮機、蒸汽發生器、清洗水槽
• 機台尺寸：W85xD134xH200(cm)

LABORATORY PAD-STEAM RANGE

- This range is suitable for the dyestuff which needs to be fixed by saturated steam process.
• For recipe making in continuous processing way.
• It takes less than 4 second for the dyed sample fabric to enter into the steam chamber. This feature helps to avoid the risk of redox.
• Reaction time in steam chamber can be adjusted from 20~90 seconds.
• Washing compartments can be added as request (optional).
• Machine dimension: W85xD134xH200(cm)



高溫蒸染機 HTS-3

沿襲M-3之外觀設計，除了原有各項功能外，另外增加了蒸汽的使用，壹機多用途。

- 使用溫度：烘乾、定型、樹脂烘培、熱熔固色，溫度20°C~220°C 飽和蒸汽蒸處，溫度102°C 高溫蒸汽蒸處102°C~220°C
• 有效試樣尺寸：28x34cm
• 使用電力：220Vx1φx6KW
• 蒸汽耗用：5kg/時(間接) 15kg/時(直接)
• 樣布輸送：馬達輸送針板架，自動送入退出
• 蒸汽鍋爐為選購配備
• 機台尺寸：W68xD150xH78(cm)

LABORATORY HT-STEAMER

- This steamer is specially designed for the fixation of the dyestuffs of the printed goods.
• It performs well on saturated steaming at 102°C, high temp steaming process (102°C~220°C) and curing (20°C~220°C) as well.
• It can check the color shades in advance to avoid mistakes & losses, It also can increase the efficiency of printing machines & paste preparations.
• Effective sample size : 28 x 34cm.
• Steam boiler is optional.
• Machine dimension: W68xD150xH78(cm)

新瑞連續式染色試驗機 PS-JW

- 染物自通入藥槽到蒸箱所經歷的時間最長不超過4秒，可避免鹼化、士林染料對空氣的影響，提供最好的再現性及穩定性。
• 全機台不鏽鋼製成，與一般鑄鐵不同，可避免生銹或腐蝕。
• 連續式操作，可選擇6米或3米來進行。
• 滯留在蒸箱時間至少20~90秒，可適應厚薄不同之布種，應用廣泛。
• 數字顯示染物滯留蒸箱時間，較一般僅顯示速度應用上更方便。

CONTINUOUS LABORATORY PAD STEAM-WASH RANGE

- This Machine is made of stainless steel except the support frame of machine. It is corrosionproof to chemicals, acid or alkali.
• General flow sheet for continuous process of textiles as follows: Pad (Dyestuff) -> IR Drying -> Pad (Chemical) -> (Saturated) Steaming (102°C) -> Washing (Four Compartments) -> Unload for further process.
• Feeding speed can be adjusted according to dwell time.
• Dwell time of the steamer can be precisely adjusted from 20 seconds to 90 seconds by digital indicator.
• Total Weight approx. 2600 KG.
• Installed Power supply 16 KW.
• Power input 380 V or customer specifies.



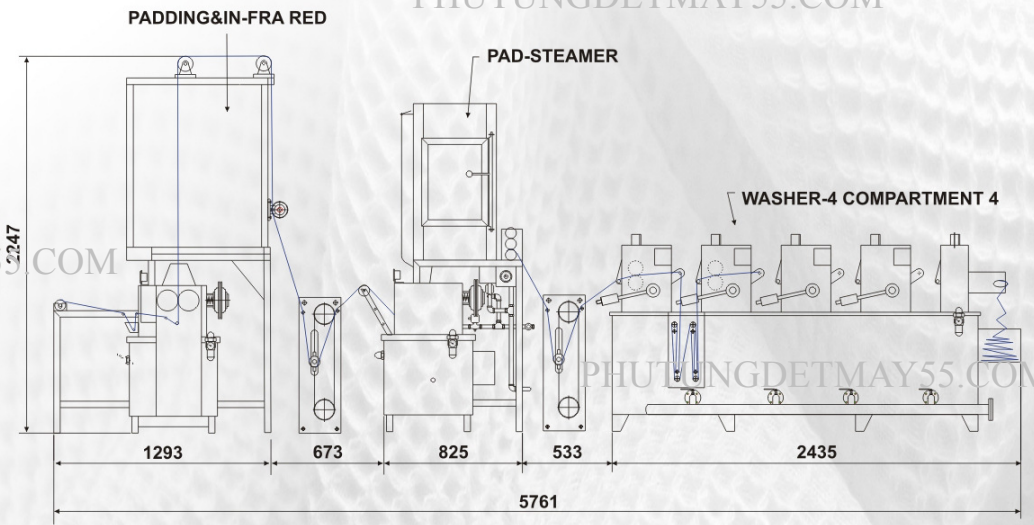
連續式壓吸熱固色試驗機 PT-J

本機可模擬生產流程，樣布經精密壓吸後，採用夾布桿固定，通過紅外線預乾→中間乾燥→熱熔固色，最後自動退料到接收槽中。

- 壓吸裝置：橫式，NBR橡膠被覆，精密研磨，羅拉直徑125mm x 長300mm 4槽可旋式藥槽壹組
• 預乾：12支紅外線加熱共4.8KW
• 烘乾：長度1800mm，10KW電熱風循環，控溫100~180°C
• 熱熔固色：長度1500mm，10KW電熱熱風循環風扇，控溫250°C ±1%以內
• 機台尺寸：W300xD120xH290cm

LABORATORY PAD-THERMOSOL RANGE

- This is specially designed for producing recipes in laboratory for pad-thermosol continuous dyeing process.
• Good repeatability can be obtained by simulating the production conditions.
• Continuous padding -> IR predrying -> drying -> thermosol fixation.
• Versatile & good efficiency.
• Machine dimension: W300xD120xH290cm





定型烘乾機 M-3

此機搭配樹脂壓染機使用，適用於實驗室烘乾、定型、樹脂烘培等工程，也可用於非連續式熟絡固色。透過特別設計針板架，對於針織與梭織布都有良好效果，尤其是彈性布更有良好的對色重現性。

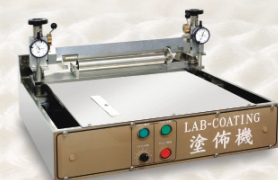
- 使用溫度：250°C以下
- 時間控制：喂入後自動計時1-9999秒，自動退出
- 使用電力：220V x 1 φ x 6KW
- 有效試布尺寸：28x34cm
- 機台尺寸：W134xD68xH78cm



連續式定型烘乾機 M-6

適用於烘乾、定型、樹脂烘培、熟絡固色等連續式加工，除使用針板架作業外，另加裝自動落布裝置，可取代傳統烘箱，快速提供大量而平整的布樣，大幅提升效率及對色重現性。

- 試布尺寸：針板鏈條15~35cm 針板架 12~25cm
- 溫度控制：250°C ± 1% 二組PID控制數位溫控器
- 使用電力：220(380V) x 3 φ x 18KW
- 烘箱長度：145cm
- 循環風扇：三組循環風扇馬達
- 時間控制：滯留時間數位顯示20秒-6分
- 機台尺寸：W90xD263xH135cm



實驗室專用塗佈試驗機 C-6

拉幅定型烘乾機 C-3

操作簡便可快速獲得所需樣布，並可模擬現場生產條件重現性佳，採用電動式刮漿、刮刀角度及刮漿厚度均可調整（精度1/100mm），可得到均勻且平整的塗層效果。

- 溫度控制：使用P.I.D控制數字顯示型溫控器
- 使用溫度：20°C~250°C
- 時間控制：最高可設定9999秒
- 承扇馬達：1/6HP熱風循環風扇馬達
- 樣布尺寸：330 x 400 mm
- 塗布尺寸：280 x 280 mm
- 使用電力：220V x 1PH x 6KW
- 機台尺寸：C-3 W79xD124xH76cm C-6 W62xD68xH37cm



塗佈定型烘乾機 C-5

結合塗佈機與拉幅定型烘乾機為一體，操作簡便可快速獲得所需樣布，並可模擬生產條件重現性佳。採用電動式刮漿，刮刀角度及刮漿厚度可以調整（精度1/100mm），可得到均勻且平整的塗層效果。

- 溫度控制：使用P.I.D控制數字顯示型溫控器
- 使用溫度：20°C~250°C
- 時間控制：最高可設定9999秒
- 風扇馬達：1/6HP熱風循環風扇馬達
- 樣布尺寸：330*400mm (或請指定)
- 塗布尺寸：280*280mm (或請指定)
- 使用電力：220V x 1PH x 6KW
- 機台尺寸：W118 x D79 x H105 cm



MINI-DRYER PHU

This machine is an economic type of tenter for producing the required samples in the laboratory to meet customer's satisfactions.

- Automatic feeding→processing→auto discharging.
- Well designed pin frame can be easily adjusted to get correct structures to meet customer's needs.
- Temperature range 20°C~250°C.
- Effective sample size : 28 x 34cm.
- Electric data: 220V x 1 φ x 6KW.
- **Machine dimension:**W134xD68xH78cm



LABORATORY TENTER

Simulate the production conditions such as temperature, reaction time, to produce the right samples for customer's approval & the proven datas for the following productions.

- Offers higher efficiency and speed.
- Working width from 150mm up to 350mm.
- With automatic fabric discharging device and receiving trolley.
- Length of chamber : 145cm.
- Electric data : 220V(380V) x 3 φ x 18KW.
- **Machine dimension:**W90xD263xH135cm

LABORATORY COATING MACHINE (C-6)

CURING DRYER (C-3)

They make the works easier on developing the samples of value-added and functional fabrics. They also can be used to simulate the production condition and with good repeatability. The accuracy of thickness can reach 1/100mm.

- **Temperature control :** by P.I.D controlled digital indicator.
- **Temperature range :** 20°C~250°C
- **Time control :** time setting up to 9999 seconds.
- **Fan motor :** 1/6 HP circulating fan motor.
- **Sample size :** 330 x 400mm
- **Coated size :** 280 x 280mm
- **Electric data :** 220V x 1PH x 6KW or specified.
- **Machine dimension:**C-3 W79xD124xH76cm C-6 W62xD68xH37cm

Laboratory Stenter Coating Machine

Laboratory Stenter Coating Machine C-5 combines dryer and coater. It is designed for the convenience of feeding sample into the dryer just after coating.

- **Temperature control :** by P.I.D controlled digital indicator.
- **Temperature range :** 20°C~250°C
- **Time control :** time setting up to 9999 seconds.
- **Fan motor :** 1/6 HP circulating fan motor.
- **Sample size :** 330 x 400 mm or specified
- **Coated size :** 280 x 280 mm or specified
- **Electric data :** 220V x 1PH x 6KW
- **Machine dimension :** W118 x D79 x H105cm

對色燈箱

廣泛使用於打樣、生產、品檢、驗收作業，提供一個客觀的對色環境，提高品質和市場競爭力。

- 光源種類：D65、A、UV、CWF、TL84、U30、U35
- 附有光源計時器，可瞭解使用時數
- 紫外線燈管可搭配任何光源數測量螢光物質
- 符合多種國際標準如：ASTM、CIE、ISO等
- 使用電力：110 V (220V) × 1PH
- 機台尺寸：W72xD45xH60cm

Multi Light Box

Multiple light sources reveal the metamerism phenomenon when samples match under one set of lighting conditions and not under another. By using a specially designed color matching such as multi-light, you are assured of more consistent and accurate color matching at all times.

- **Light sources including :** D65, A, UV, CWF D65 & UV can be changed to TL84 or U30 or U35.
- Resettable hour counter to indicate when lamps must be replaced.
- Ultraviolet source can be used by itself or in combination with any of the light sources for detecting and evaluating optical brighteners, whitening agents or fluorescent dyes and pigments
- Meets or exceeds major international standards for visual color evaluation including: ASTM D1729, ISO3664, and CIE.
- **Electric data:** 110 / 220V x 1 Phase
- **Machine dimension:** W72xD45xH60cm

熱風循環烘箱 RHDM

複合型實驗室烘箱，用於耐水牢度、耐汗漬牢度、耐酚黃及烘乾等測試，可按客戶需求提供各種尺寸、溫度範圍及精度之烘箱。

- 溫度範圍：室溫+20°C ~ 260°C
- 送風方式：單向水平強制送風循環
- 溫度控制：使用P.I.D控制數字顯示型溫控器
- 安全設備：超溫&過電流保護裝置
- 使用電力：110/220V x 1PH
- 內部尺寸：RHDM-452 W45xD40xH40 cm RHDM-602 W50xD50xH60 cm RHDM-902 W60xD50xH90 cm
- 外部尺寸：RHDM-452 W66xD52xH82 cm RHDM-602 W75xD62xH116 cm RHDM-902 W83xD68xH158 cm

HOT CIRCULATOR EXACT OVEN

The compound laboratory oven is used to do the tests like waterproof, perspiration, phenolic yellowing, drying and so on. We can provide the ovens with different size, temperature range or accuracy as customer's need.

- **Temperature range:** room temp+20°C~260°C
- **Flowing way:** One-direction, horizontal flowing circle.
- **Temperature control:** P.I.D temperature controller.
- **Safe equipment:** Over-temperature & over-current protection
- **Electric data:** 110/220V x 1PH
- **Internal size:** RHDM-452 W45xD40xH40 cm RHDM-602 W50xD50xH60 cm RHDM-902 W60xD50xH90 cm
- **External size:** RHDM-452 W66xD52xH82 cm RHDM-602 W75xD62xH116 cm RHDM-902 W83xD68xH158 cm

摩擦牢度試驗機

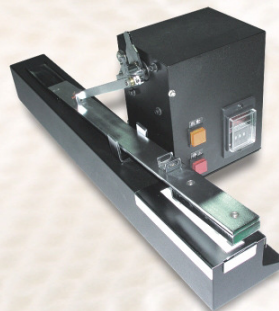
根據美國織物協會(AATCC)測試方法製造而成，可測試織物或皮革經摩擦後其脫色程度之變化。

- 摩擦錘荷重：900g
- 摩擦錘直徑：16mm
- 摩擦距離：10 cm
- 計數器：10位數，計數到自動停機
- 機台尺寸：L65xW25xH22cm

Rubbing Fastness Tester (Crock Meter)

This device has been designed according to the Standard Testing Method of AATCC (American Association of Textile Chemists and Colorists) for testing the rubbing fastness of the textiles and the leather goods.

- **Rubbing hammer weight:** 900g
- **Rubbing distance:** 100 mm
- **Rubbing speed:** 60 rpm
- **Rubbing hammer diameter:** 16 mm
- **Digital counter:** 2 digits, auto-stop.
- **Machine dimension:** L65xW25xH22cm





水洗堅牢度試驗機 HB-12

本機設計符合中國國家標準CNS、美國AATCC、日本JIS、國際標準ISO、德國DIN、英國BS等規格。配置有計時器及數字型溫控器，可進行水洗牢度、漂洗色牢度、洗衣粉效能測試等，亦可做為染色試驗使用。

- 使用溫度：98℃以下
- 溫度控制：數字顯示型溫控器
- 轉速：40rpm (±2rpm)
- 鋼杯規格：550cc (ISO & AATCC IA) 1200cc (AATCC IIA)
- 使用電力：220/380V x 3PH x 6 (15) KW
- 機械尺寸：W100 x D 85 x H 120 cm



異單牢度試驗機

本試驗機用於測試纖維、紗線、織物等，物品印染加工後之染色耐熱壓燙之堅牢度試驗。

- 使用指撥式開關設定溫度。
- 三片熱壓板各設溫控開關，可單獨或三片同時使用。
- 熱板面積：100 x 28 mm
- 使用溫度：0℃~300℃
- 使用電力：110V (220V) x 1相
- 機台尺寸：L55 x W43 x H36cm



耐汗牢度試驗機

本試驗機主要用於測試人工汗液、化池水、海水、蒸餾水等所影響而褪色或染色移動之實驗。

- 試片荷重：(AATCC) 4.5kg (ISO) 5.0kg
- 支撐架：整體為不銹鋼製造並附有彈簧加壓座。
- 壓克力片：110 x 63 x 3mm 共21片
- 機台尺寸：L20 x W10 x H17cm



織物分析儀 FA

採用電熱經加壓及冷卻方式，將織物組織紋理製成清楚的塑膠膜，對織物外觀瑕疵進行客觀分析，用以區別織物結構瑕疵點及因染色、後整理所引起物性、化性分析研判。

- 加熱方式：電氣加熱
- 樣布尺寸：300 x 200mm
- 壓板材質：鋁合金
- 溫度精度：±1℃
- 使用電力：220V x 1PH x 1KW
- 機台尺寸：W44 x D37 x H16 cm

Washing Fastness Tester (Laundry Meter)

For conducting wash fastness testing, dyeing, dry cleaning, colorfastness to fulling, detergency and other tests. It complies with the ISO, AATCC, JIS, BS, and SDC test standards. It has the characters of user-friendly, safe and durable and easy to do the maintenance.

- **Temperature range** : Below 98°C
- **Temperature control** : by P.I.D controlled digital indicator.
- **Rotate speed** : 40 ± 2 rpm
- **Volume of beaker** : (AATCC Standard) is 500±50ml&1150±50 ml (ISO Standard) is 500± 50 ml.
- **Electric data** : 220/380Vx3PHx6 (15)KW
- **Machine dimension** : W100xD85xH120cm



Sublimation Tester (Scorch Tester)

The device is used for testing heat resistance of fibers, yarns, fabrics after being dyed with colors.

- Electronic indicate controller
- Three pieces of testing plate, which can be controlled by heat switch separately.
- **Size of testing plate**: 100 x 28 mm
- **Maximum testing temperature**: 300°C
- **Electric date**: 110 / 220V x 1 Phase
- **Machine dimension**: L55 x W43 x H36 cm

Perspiration Tester

It is used to determine color fastness (color staining/shade change) to water and perspiration in textiles.

- **Loading weight**: (AATCC standard) 4.5 kg (ISO standard) 5.0 kg
- A stainless steel frame with a capacity of 20 samples of 10cm x 4cm held between acrylic separator plates.
- **Size of acrylic plate**: 110 x 63 x 3 mm, and total with 21 pieces
- **Machine dimension**: L20 x W10 x H17 cm

Laboratory Fabric Streak Analyzer

The function of the Streak Analyzer is to isolate defects caused by physical differences. The absence of color on the plastic impression ensures that only physical streak effects will be seen. The plastic impression is examined to determine whether the streak alignment matches the streaks observed on the fabric.

- **Size of sample** : 300 x 200 mm
- **Material of heating board** : Aluminum Alloy
- **Accuracy of temperature** : ± 1°C
- **Electric data** : 110 or 220V x 1PH x 1KW
- **Dimension of size** : W44 x D37 x H16 cm



紗線支數測長機

本機用於量取一定長度之紗線，配合天平用於計算紗線支數，並可攪取紗線配合拉力試驗機，測試理紗強度試驗等。

- 周長：1碼或1米
- 線具：5組
- 轉速：200 rpm
- 馬達：1/4HP
- 計數器：4 digits count controller.
- 機台尺寸：W90 x D53 x H62 cm

沾水度試驗機

此儀器是根據AATCC Test Method 22-1985設計製造而成，測試織物表面的抗濡濕性，利用定量的水以45°角均勻地落在織物表面上以便觀察其沾水之情形，通常用於各種已經或未經抗水或拒水整理織物表面的拒水性測試

- 試片尺寸：18 x 18 cm
- 灑水孔徑：Φ0.889 mm x 19孔
- 測試水量：250 ml
- 重量：11 kg
- 機台尺寸：W30 x D30 x H62 cm

織物吸水性試驗機

測定織物的細孔組織和結構吸收和保留液體（通常是水）的敏感性，將織物或紙類等試片與水面接觸一定時間後，量取試件吸水高度，評定吸水性能

- 測試數量：一次可放8片試布
- 試布尺寸：L20 x W2.5 cm
- 升降方式：以手動旋轉螺桿帶動
- 水槽尺寸：W36 x D8 x H6 cm
- 機台重量：12 kg
- 機台尺寸：W42 x D25 x H49 cm

摩擦堅牢度試驗機（學振型）

符合JIS標準，測試有色織物經摩擦後，對顏色附着程度之影響，測試用白布(可為乾燥或濕潤)包紮於摩擦錐上，以固定之荷重及次數平順來回摩擦試片，結束後取出白布與標準之灰色標對照評定級數。

- 試驗數量：6片/每次
- 摩擦錐子：2 x 2 cm，半徑45mm
- 摩擦速度：30CPM
- 摩擦距離：10 cm
- 荷重：200 / 500g可調
- 數字控制：4位數計數器，設定次數到達時自動停機
- 機台尺寸：W67 x D38 x H40 cm

Automatic Wrap Reel

Motorized Wrap Reel is used to wind yarn thread to a specified length, and then to test its strength of lea and quality. It can also be used for calculating the yarn count.

- **Circumference** : 1 yard or 1 meter
- **Bobbin stand** : 5 sets
- **Reeling speed** : 200 rpm
- **Motor** : 1/4HP
- **Count** : 4 digits count controller
- **Machine dimension** : W90 x D53 x H62 cm

Spray Tester

This instrument is used to test the anti-wet ability. It uses quantitative water to uniformly drop onto the face of fabrics by 45 angular degree to observe the humidity for deciding the reception of fabrics.

- **Specimen size** : 18 x 18 cm
- **Spray nozzle** : Φ 0.889 mm x 19 holes
- **Capacity** : 110 ml
- **Weight** : 11 kg
- **Machine dimension** : W30 x D30 x H62 cm

Water Absorption Tester (Kleimn Type)

This instrument is used for measuring the degree of water absorption, i.e. to check the capillary rise in millimeters by suspending a specimen in a vat filled with water. This equipment is suitable for blotting paper, absorbency paper and other similar grade of paper which are having water absorption to high.

- **Sample quantity** : 8 pc
- **Sample size** : L20 x W2.5cm
- **Operation way** : Manual screw driving
- **Sink dimension** : W36 x D8 x H6 cm
- **Weight** : 12kg
- **Machine dimension** : W42xD25xH49cm

Color Fastness Rubbing Tester

For fabrics, leather, rubber, cardboard, plastic sheeting and so on, it can do the evaluation for the color fastness of friction and test the adhesion of color after the dyeing sample was rubbed. It matches the JIS standard.

- **Max numbers of samples** : 6 pc/per times
- **Friction cone** : 2 x 2 cm、Radius 45 mm
- **Speed of friction** : 30 CPM
- **Distance of friction** : 10 cm
- **Load weight** : 200 g / 500 g (changeable)
- **Times control** : Four digit counter
- **Machine dimension** : W67xD38xH40cm

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