

LABORATORY CONTINUOUS DYEING RANGES

宏益連續式染色試驗機

- 連續式壓吸熱固色試驗機 PT-J PAD-THERMOSOL DYEING MACHINE
- 連續式壓吸蒸染試驗機 PS-JS PAD-STEAM DYEING MACHINE



連續式壓吸熱固色試驗機 PT-J

機器特性

- 除底座外全部不銹鋼製成，外型美觀容易清理。
- 試布連續式進行，經過精密的壓吸、紅外線預乾、中間乾燥、熱固色模擬生產流程，生產重現性優良。
- 可依加工條件選擇一次完成，或加工至烘乾階段，應用廣泛。
- 試布用夾布棒固定，可同時試驗較多的布樣，不必等待太久時間，效率高。

規格

●壓吸輥輪

輥輪型式：橫式。
輥輪尺寸：直徑125mm x 長300mm
輥輪硬度：70度。
輥輪壓力：在5kg/cm 空氣壓時，線壓約3公噸。
加壓方式：氣壓式。
其他配件：空氣減壓閥、壓力表、空氣過濾器、噴水頭及安全裝置。
藥槽大小：4 槽可旋轉型，每槽約150cc固定在一個轉盤上。

●紅外線預熱

型 式：12 支反射石英紅外線加熱管，分為兩排各排都面向布面。
電氣容量：3相電力共計4.8KW，加熱大小分兩組，半量及全量烘乾。
加熱距離：900m/m長，可調整反射距離70~120mm

●烘箱

烘乾距離：1800m/m長。
控溫方式：自動控溫系統從100~180°C之間任意調整。
電 力：3相10KW加熱。
風 扇：3相1HP熱風循環風扇壹組，風速可調。

●熱固色箱

熱固距離：1500m/m長
使用溫度：最高250°C自動控溫系統精度±1%以內。
電 力：3相10KW加熱。
風 扇：3相1HP熱風循環風扇壹組，風速可調。

●其他配件

夾布棒
壹組控制箱

●其他設備

壹套鍊條帶布裝置
壹套壓吸帶動裝置
兩套退布及退布夾裝置

●傳動馬達

3相6極1HP馬達，轉速採用變頻調整。

●總電力

3相共計約28KW電力

●機台尺寸

長300cm x 寬120cm x 高290cm

PAD THERMOSOL RANGE

Featuring

- Machine made of stainless steel, corrosion free easy to clean & maintain.
- Depending different required applications you can select the needed process.
 - Padding→IR preheating →Baking→Thermosoling →Soaping
 - Padding→Baking→Thermosoling→ChemicalP adding →Steaming→Oxidation→Soaping
- Simulating the production conditions to achieve good reproducibility.
- Tested fabric can be fixed with clipper which allows to test the different fabrics at the same time for higher efficiency.

Specifications

●Padding

- Horizontal mangle made of N.B.R. rubber with 70° shore hardness.
- Mangles measurement : Length 300mm x dia 125mm
- Liner pressure : 3 tons at 5kg/cm air pressure.
- Accessories : air reduce valve, pressure guage, air filter, shower device.
- Dyeing trough: 4 compartments each 150cc capacity fixed on one turning plate.

●Infra-red preheater

- Type: 12pcs reflect-type IR heaters in 2 rows all facing to the passing fabrics.
- Installed electrical capacity: total 4.8kw, 3phase.
- Heating zone: 900mm long.
- Accessory: include one reflecting device which can be adjusted between 70-120mm distance.

●Dryer

- Dryer zone: 180mm long.
- Temp. controller: automatic control between 100 - 180°C by presetting.
- Electrical heating 1KW, 3phase.
- One circulating fan with various speeds 1HP/3 phase.

●Thermosoling chamber

- Chamber length 1500mm.
- Reaction time 30 seconds to 2 min.
- Applied temperature: max 250°C with temp difference below ±1%.
- Electrical heating 10kw, 3phase.
- One circulating fan with various speeds 1HP/3 phase.

●Other parts

- One set of chain drive system.
- One set of padding drive system.
- 2 sets of fabric discharging system.
- Main drive motor one HP with inverter control total installed power 28KW.
- Machine dimensions: 300cm(L) x 120cm(W) x 290cm(H)

連續式壓吸蒸染試驗機 PS-JS

機器特性

- 染物自通入藥槽到蒸箱所經歷的時間最長不超過4秒，可避免硫化，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。

規格

●壓吸裝置

輥輪尺寸：直徑125mm x 長300mm

輥輪材質：NBR橡膠精密研磨，硬度70度±3，橫式裝置。

加壓方式：壓縮空氣推動氣膜。

使用壓力1.0kg/cm²-6.0kg/cm²

調整方式：使用日製調壓閥2組，可左右個別調整，德國製WIKE精密壓力指示表，精度0.1kg/cm²

藥槽：容量約500cc，可自動上下自動清洗，外部加藥漏斗導入式。

安全裝置：緊急按鈕開關，另加裝腳動安全開關，啟動後可自動停止馬達及啓開ROLLER。

其他配件：導布架、空氣減壓閥、過濾器、壓力表、噴水頭、空氣噴槍。

●蒸箱

使用溫度：飽和蒸汽溫度（最高103°C）

使用蒸汽：最大5kg/cm²蒸汽進入，5kg/hrs間接蒸汽，15kg/hrs直接蒸汽。

試布路徑：全程6米，通過時間20-120秒，使用變頻調速控制。

溫度指示：數字指示及指針指示各壹組。

導布桿：試布接觸金屬導桿採用Teflon Coating

出口封密：採用水封式（Water Sealing TYPE），在主馬達啟動下溫度制動自動補水。

蒸汽配管：附一次配管，蒸汽入口1/2吋，含蒸汽調壓閥及壓力指示表，入水口1/2吋。

●傳動系統

主傳動：採用3相6極1HP馬達，加變頻控制。

試布進行：捲取式振落方式，附振落接收皿壹套。

控制箱：附分離控制電器箱。

其他配件：導布架壹組，捲取羅拉4支。

其他選配：空氣壓縮機，蒸汽發生器清洗水槽。

機器尺寸：長148cm x 寬191cm x 高83cm

PAD STEAM DYEING RANGE

Featuring

- Shortest distance after padding to enter the steaming chamber. It takes less than 4 seconds which could avoid the disturbances and performs very good stability & repeatability on sulphur & vat dyestuff.
- All machine made of stainless steel corrosion-proof to chemicals or acids, no rust.
- Fabric content inside of steam chamber can be selective 6m or 3m depends the necessity.
- Dwell time can be adjusted accordingly between 30 seconds to 120 seconds with digital indicator to indicate preciously.
- All Guide-Rollers in contact with the test fabric are Teflon-coated to avoid any staining.

Specifications

●Padding Mangle

- Horizontal padding mangle 300mm long & 125mm diameter.
- Padding roller made of N.B.R.rubber with 70° shore hardness ±3%.
- Pneumatically operated diaphragm valves control the liner pressures of padding rollers. Working pressure 0.8~6kg/cm².
- Pressure regulating valves made in Japan. "WIKE" pressure gauges from W. Germany.
- Safety devices: Emergency button & knee pedal to immediately stop motor running and release rollers.

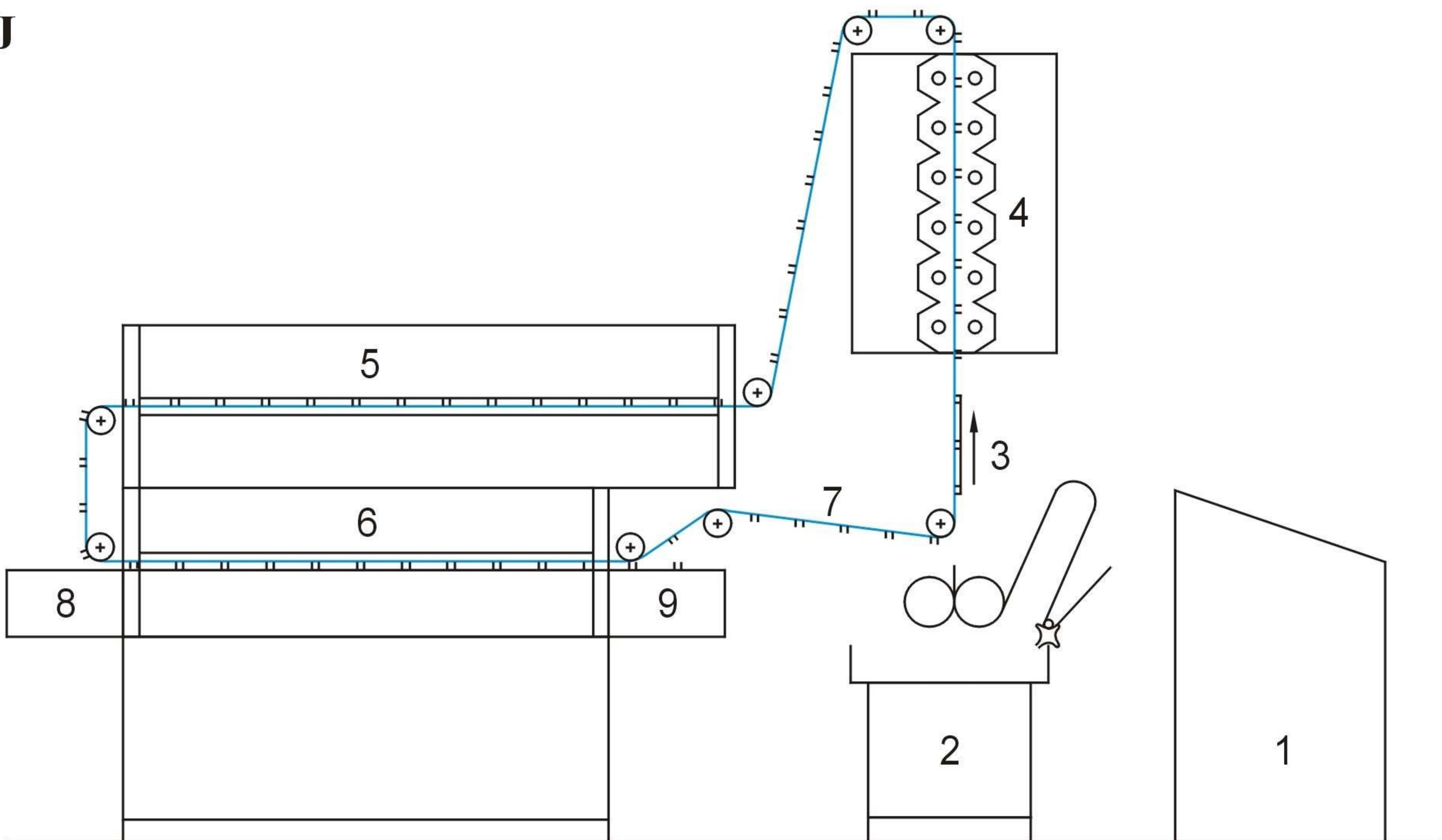
●Steamer

- Saturated steaming Max. Working Temp. 103°C.
- Max. Steaming pressure 5 kg/cm².
- Steam consumption
5kg/hr (indirect steam) pre-heating.
15 kg/hr (direct steam) saturated steaming.
- Fabric content can be 3 or 6 meters adjustable.
- All guide rollers are Teflon-coated.
- View window made of double layer heat-resistant glass.
- Water sealing bath at outlet for automatic cooling control.
- With steam inlet pipe 1/2 inch & water inlet pipe 1/2 inch. To be connected with both supplies by user.

●Driving & control system

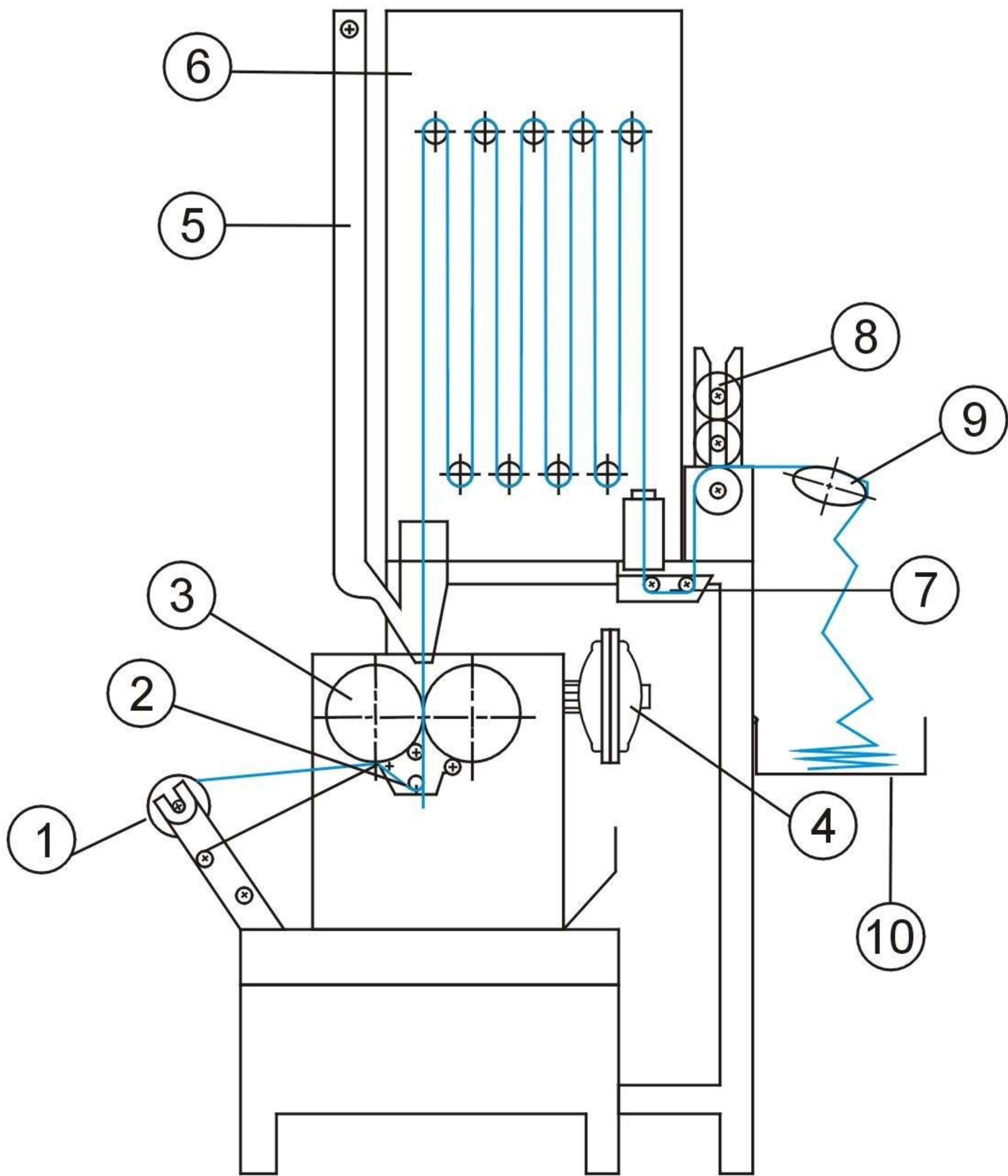
- Main drive of 6-pole one HP motor with inverter control.
- Testing fabric can be fed in roll or fold form.
- Delivery by plaiting down.
- Pressure regulating, padding roller release, safety controlling, dwelling time & speed adjustment.
- Optional items: air compressor, steam generator, washing compartments.
- Machine dimensions: 148cm(L) x 83cm(W) x 191cm(H).

PT-J



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|-------------------------------------|--------------------------------|---|
| 1.控制箱
Switch cabinet | 4.紅外線烘乾
IR preheater | 7.鏈條
Clip chain |
| 2.壓吸裝置
Horizontal padding device | 5.烘箱
Intermediate dryer | 8 烘培後落布槽
Fabric receiver after drying |
| 3.試驗布
Test fabric | 6.熱固色箱
Thermosoling chamber | 9.熱固色後落布槽
Fabric receiver after thermosoling |

PS-JS



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|---------------------------------------|
| 1.試布
Test fabric |
| 2.藥槽
Chemical trough |
| 3.水平式壓吸輪
Horizontal padding mangle |
| 4.高壓盤
Diaphragm valve |
| 5.蒸汽出口
Steam outlet |
| 6.蒸箱
Steam chamber |
| 7.水封槽
Water-sealing bath |
| 8.捲取裝置
Winding device |
| 9.擺落裝置
Plaiter |
| 10.落布槽
Fabric receiver |

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