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MUL70 Coating & squeezing & steaming & drying combined testing machine



Model No.

MUL70

Application:



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MUL70 Coating & squeezing & steaming & drying combined testing machine is universal equipment for laboratory printing and dyeing, suitable for technological tests of various kinds of natural fibres, synthetic fibres and other blended fabrics, e.g. coating, pad dyeing, padding chemical liquid, steaming, washing, tenter drying, etc.

Related Standards:

STANDARDS	
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General description:

MUL70 Coating & squeezing & steaming & drying combined testing machine mainly consists of a constant temperature tank, two squeezers, a set of coating institutions, a steam box, a rinsing bowl, a heat setting chamber and a debatching & batching device, and is suitable for many kinds of technological test of longer fabric.

In order to contain more functional units in less investment, on the premise of ensuring continuous operation, in addition to speed control, liquid tank temperature control adopts the automatic control, MUL70 adopts manual adjustment mechanism, e.g. tension adjustment of debatching, tension adjustment of batching, direction adjustment of fabric feeding. Besides, machine parts which are in contact with fabric, steam and liquor are made of 304 grade stainless steel and plastics with corrosion resistance, the other materials are made of common metal with surface treatment.

The function of each unit is introduced as follows:

Debatching device

Debatching device consists of fabric roller, resistance device and manual dynamic device. Resistance device can keep tension constant; manual dynamic device can horizontally adjust the position of debatching roller preventing deviation of fabric.

Spreading roller

Spreading roller is a screw-thread shaped roller which can keep fabric smooth.

Coating institution

Coating institution consists of coating knife, tool apron and carrier roller. Coating knife is mainly used for leveling of coating slurry. There are baffle boards at both side of coating knife, in order to ensure that the coating edge is tidy. Except supporting coating knife, main function of tool apron is to adjust thickness and angle of coating. Tool apron is equipped with a hand wheel, it will move up-and-down along the guide bar with coating knife to adjust thickness of coating by rotating the hand wheel. Thickness of coating is



displayed on dial gage equipped on tool apron. There is still a oscillating plate on tool apron, which can respectively swing forward or backward from the vertical position. Cooperating with positive and negative installed coating knife, it can reach anterior angle of coating in the range of 90°. Carrier roller is equipped under coating knife, rolls coating and between roller coating are realized by changing its position.

Constant temperature tank

Constant temperature baths consists of heating tank, slurry tank, fabric roller, heater, sensor and control circuit, can keep liquid temperature according to the technical requirement.

The first squeezer

The first squeezer is a horizontal squeezer, consists of two rubber covered rollers, two air cylinders, slide, air-vent valve, pressure gage, pneumatic component etc., mainly used for pad dyeing.

Steam box

Steam box with temperature display mainly consists of steam evaporate cabinet and fabric roller, its entrance adopts air seal, exit adopts water sea.

Tension frame

Tension frame is mainly used to balance the speed and tension of unit machines front and back (2 sets).

Direction adjustment roller

It is used to adjust direction of fabric running.

Washing box

Washing box mainly consists of washing cabinet and fabric roller, used for washing of fabric.

The second squeezer

The second squeezer is a vertical one, used to squeeze the moisture of fabric.

Hot-air oven

It consists of oven, spreading device, circular air duct, draught fan, heater, sensor and controlling circuit etc., can keep drying temperature according to technological requirements.



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Batching device

It consists of fabric roller, batching motor and control system, can keep constant tension of fabric.

The machine is driven by four motor, have characteristics of frequency control of motor speed, digital display of speed.

Technological process:

Debatching → Spreading → Dipping → Squeezing → Steaming → Washing →
Rolling dry → Drying → Batching

Or debatching → Spreading → Coating → Drying → Batching.

Features:

- Even and stable padding residual rate
- High anticorrosion
- Compact structure saving floor space
- Easy to operate

Specification:

MUL 70 Coating & padding & steaming & drying combined testing machine

Working width	300 mm, the max. Fabric width 250 mm on trial.
Speed	0-3m/min, frequency control of motor speed, digital display.
Fabric discharging device	The diameter of fabric roller is 60mm, the max. batch diameter is 300mm, It configures resistance device to keep tension,
Spreading roller	Stainless steel, Φ=30mm
Coating thickness	0~5 mm, resolution0.01mm, double dial gage display.
Coating knife specification	Cutter body:300*60mm
Kind of coating knife	45°straight knife
hook angle of coating	20°~115°
Reservoir	Volume:20L, separate cleaning, constant temperature heating, temperature: room temperature~90°C
Squeezer	Butyl rubber coated, Φ=100mm; Shore hardness: 75 ~ 80 °A; the main



	part made of stainless steel; Pneumatic compression, supply gas pressure: 0.4 Mpa; Roll line pressure:0~25 KN/ml; The pressure adjusted by reducing valve, pressure gauge displays.
Steam evaporate box	Made of stainless steel; 3 fabric rollers above and 3 pcs below; fabric accommodate capacity: 1.3~3.3 m; Steam temperature: 102~105 °C; Entrance adopts air seal, exit adopts water seal.
Tension frame	Equipped with tension roller made of stainless steel, Φ=40mm
	Made of stainless steel, Φ=40mm
Washing box	Made of stainless steel; 2 fabric rollers above and 3 pcs below; fabric accommodate capacity:3m; water capacity:58L
Hot-air oven	Drying temperature: room temperature~220 °C±2 °C; drying length:1000mm; conveyed by synthetic materials net with high temperature resistance; heating power:6Kw
Batching device	Adopts motor driver, keep constant tension. Fabric roller and the fabric roller of batching device interconvert.
Accessory equipment	Steam generator and air compressor
Motor	Horizontal padding mangle, Vertical padding mangle, Needle plate chain and fabric roller are driven by 4 sets motor separately.
Power supply	380V/50Hz/3Phase
Total power	About 18KW (include Steam generator and air compressor)
Overall dimensions	3500*900*1400mm (approximately)
Weight(Kg)	2000 KG (approximately)

Standard configuration:

No.	Item	Quantity
1	Main machine	1 set