CBS
High Temperature Fabric Beam Dyeing Machine
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High Temperature Fabric Beam Dyeing Machine

CBS is the most applicable dyeing machine for specific fabrics which can not withstand tension for a long time, such as warp knits and woven for decoration and jacquard, and polyurethane, etc.

Technical Data

Design temperature: 140°C
Design pressure: 5.2bar
Heating gradient: 25°C ~ 100°C approx. 4.5°C/min
  100°C ~ 130°C approx. 2.5°C/min
  (dry saturated steam pressure at 7bar)
Cooling gradient: 130°C ~ 100°C approx. 3°C/min
  100°C ~ 80°C approx. 2°C/min
  (cooling water at 3bar, 25°C)

6 Advantages

1. Versatilely Application
2. High Efficiency & Time Saving
3. Dual Flow Function
4. Safe Operation & Easy Loading
5. Quality Assurance
6. Accurate Temperature Control

Schematic Diagram
CBS High Temperature Fabric Beam Dyeing Machine

1. Versatile Application
For very large width fabrics which are sensitive, open-mesh and easy-to-distorted, and contained high polyurethane, etc..

2. High Efficiency & Time Saving
Equal capacity preparation tank with direct heating facilities and high temperature drain device can shorten temperature adjustment time.

3. Dual Flow Function
Equipped with flow reversal device, CBS can satisfy not only single flow dyeing need but also that of bi-directional flow, achieving optimal dyeing effect at all layers.

4. Safe Operation & Easy Loading
Unique safety interlock on temperature, pressure and water level. Also, horizontal kier facilitates easy loading and unloading.

5. Quality Assurance
Machine body and major parts wetted by dyeing liquid are made of 316Ti / 316L / 1.4571 / 1.4404 corrosion resistant stainless steel.

6. Accurate Temperature Control
Fuzzy Logic Temperature Control Technology can keep dyeing temperature constant, so the levelness and evenness of color are well retained.

* Max. capacity is deduced from warp knitted Poly Lycra fabric of 200g/m² with a winding density of 260g/dm³. Appropriate winding machine is required.

** Dimensions include the beam carrier but exclude the preparation tank. The overall dimension of the machine varies with different types of fabric being processed and machine functions adopted.

<table>
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<tr>
<th>Model</th>
<th>Max. width</th>
<th>Max. winding OD (mm)</th>
<th>Max. capacity* (kg)</th>
<th>Total installed power (kW)</th>
<th>Dimensions** (mm)</th>
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FC Series Program Controller*
For The Dyehouse Network Advanced Control System

Microprocessor based FC Series program controller* provides cost-effective and high performance dye cycle control facility. Comprehensive control management is achievable by integrating individual FC Series program controller with the central computer system Viewtex. Viewtex is developed by FONG’S to program and monitor a number of linked machines.

* FC program controller refers to the latest version in the series.

**Conventional PI Control Temp ± 1°C**

- Accurate temperature control
- Set temp
- Actual temp

**Fuzzy Control Temp ± 0.3°C**

- Accurate temperature control
- Set temp
- Actual temp

**±0.3°C**

Fuzzy Logic Temperature Control
Unique Fuzzy Logic Temperature Control technology, temperature control can be confined down to ±0.3°C.

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Fong's National Engineering Co., Ltd.
8/F., 22–28 Cheung Tat Road,
Tsing Yi, Hong Kong
Tel: +852 2497 3300
Fax: +852 2432 2552
E-mail: enquiry@fongs.com
Website: www.fongs.com

Sales Enquiry
Tel: +86 755 84736288 Ext. 183
Fax: +86 755 84736808
E-mail: enquiry@fongs.com

Technical Services
Tel: +86 755 84736288 Ext. 234
Fax: +86 755 84737972
E-mail: service-os@fongs.com

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Fong's National Engineering (Shenzhen) Co., Ltd.
17-19, Lixin Road, Danzhutou Industrial Zone,
Nanwan Sub-District, Longgang District,
Shenzhen, Guangdong, PRC.
Postal Code: 518114
Tel: +86 755 8473 6288
Fax: +86 755 8473 6154

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FONG’S EUROPE GMBH
Milchgrundstraße 32,
74523 Schwäbisch Hall, Germany
Tel: +49 791 403 0
Fax: +49 791 403 166
E-mail: info@fongs.eu
Website: www.fongs.eu

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