Various Special Systems & Devices

High Temperature Rinsing System (HTS)
- Productivity Improved (Save Time, Utility Savings)
- Improving quality and color fastness
- Dyeing accident prevention
- Prevention of contamination

Low Liquid Rinsing System (LLR)
- Reduce the frequency cleaning
- Reduction of Liquor quantity and time (Compared to the conventional 1/3)

Streamlined System
- Configuration management system operating conditions
- Automation Control system
- Automatic - dye-stuff and Auxiliaries measuring system
- Automatic - dye-stuff and Auxiliaries infusion system
- Quota transport system
- Control system for pH

Dye-stuff dissolving system (RDE)
- No need of a dye-stuff dissolved
- Eliminate the problem is insoluble dye
- In any dissolution, allowing injection
- Simplifies the preparation of dye

CUT-SP-1 1/8, CUT-SP-2

<table>
<thead>
<tr>
<th>Type</th>
<th>L1 (mm)</th>
<th>L2 (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUT-SP-1 1/2</td>
<td>9660</td>
<td>7800</td>
</tr>
<tr>
<td>CUT-SP-1 1/2</td>
<td>9660</td>
<td>7800</td>
</tr>
<tr>
<td>CUT-SP-1 1/2</td>
<td>11150</td>
<td>9100</td>
</tr>
</tbody>
</table>

HISAKA WORKS LTD
Vital Industry Div. Dyeing & Finishing Machinery Sales Dept
1-4-26 Hashimoto, Chuo-ku, Osaka 544-0044, Japan
Phone: 072-565-9531, Fax: 072-565-9532
dyeing@hisaka.co.jp, http://www.hisaka.co.jp

Head Office: 1-4-26 Hashimoto, Chuo-ku, Osaka 544-0044, Japan
Kurashiki Plant: Vital Industry Div. Dyeing & Finishing Machinery Sales Dept
2-1-146 Higashi-Kurashiki Cho, Higashi-ku, Okayama, 707-5675, Japan
Phone: 086-568-9531, Fax: 086-568-9532
dyeing@hisaka.co.jp, http://www.hisaka.co.jp

SHANGHAI HANGSHI COMMERCE CO., LTD.
E99 MIDTOWN RD, SHANGHAI Tel: 021-5611-9701, Fax: 021-5611-8729
Special CIRCULAR Model SP

In the High Fashion Field and Sports inner field, Quality and Productivity which are not until now are offered!!

- Vastly improved for Dyeing affinity and quality against delicate material
- Eliminate existing Jet Dyeing Machine defect such as Crease(SIWA), Yarn shift(MEYORE) and Scuffing Mark(SURE/ATARI).

Being Model CUT-SP for Jigger and Beam Dyeing Machine Products.

High-Integrity

- Improved defect such as Crease (Shiwa), Yarn Shift (Mayore) and Scuffing Mark (Sure/Atari) specially for Synthetic thin Woven (15-30d).
  - ex) Nylon Filament Thin Woven (15-30d) etc.
  - ex) Nylon Textured Yarn Woven (15-50d) etc.
  - ex) Polyester Filament Thin Woven (20-30d) etc.

- Improved defect such as Crease (Shiwa) and Scuffing Mark (Sure/Atari) for Synthetic Elasticated Woven/Knit.
  - ex) Nylon/Polyurethan Woven-Knit etc
  - ex) Polyester/Polyurethan Woven-Knit etc
  - ex) CDP/Polyurethan Woven-Knit etc

Productivity

- Level Dyeing improves by high-speed running and process time shortening is possible.
  - Improvement in the speed 10 - 20% can be attained conventionally, and time shortening of Heating and Rinsing, etc. is possible.

- Reduce Processing Loss by reduction of process failures and re-processing.
  - Reduce defected products and re-process from integrity trouble, increase production efficiency and useless processing cost will be eliminated.

<table>
<thead>
<tr>
<th>CUT-SP type Jet Dyeing Machine Specification Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item</td>
</tr>
<tr>
<td>Capacity</td>
</tr>
</tbody>
</table>
| Lique 
| | Lit | 400-600 | 600-700 | 600-1000 | 900-1000 | 900-1200 | 1000-2000 | 2000-2500 |
| Dyeing tank | Max. 
| | Pressure | 9.80 MPa | 13.80 MPa | 15.80 MPa | 16.50 MPa | 19.00 MPa |
| Power | kw | 1.1kw | 1.1kw | 1.5kw | 1.5kw | 2kw | 3kw |
| 32°C-80°C | 20min/Steam Pressure: 0.5MPa |
| Steam | kg | 0.6kg | 0.8kg | 1.2kg | 1.3kg | 1.6kg | 2.2kg | 3.0kg |
| Cooling water | m³/h | 0.2m³ | 0.8m³ | 1.5m³ | 1.8m³ | 2.2m³ | 3.0m³ |

EX.Application Data(Model/CUT-SP)

<table>
<thead>
<tr>
<th>Kind of Fabric</th>
<th>Weight of Fabrics</th>
<th>Capacity</th>
<th>LIqur</th>
<th>m</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nylon Filament Thin Woven(25d)</td>
<td>68</td>
<td>2.9</td>
<td>12</td>
<td>300 X 2</td>
<td>34.0</td>
</tr>
<tr>
<td>Nylon Filament Thin Woven(30d)</td>
<td>76</td>
<td>3.8</td>
<td>16</td>
<td>400 X 1</td>
<td>60.8</td>
</tr>
<tr>
<td>Nylon Textured Yarn Woven(12d)</td>
<td>22</td>
<td>1.1</td>
<td>10</td>
<td>500 X 1</td>
<td>11</td>
</tr>
<tr>
<td>Nylon/Pu Tricot</td>
<td>220</td>
<td>11</td>
<td>10</td>
<td>500 X 1</td>
<td>11</td>
</tr>
<tr>
<td>Nylon/Pu Woven</td>
<td>240</td>
<td>12</td>
<td>6</td>
<td>400 X 1</td>
<td>96</td>
</tr>
<tr>
<td>Polyester/Pu Woven</td>
<td>190</td>
<td>9.5</td>
<td>10</td>
<td>500 X 1</td>
<td>95</td>
</tr>
<tr>
<td>Polyester Filament Thin Woven(20d)</td>
<td>65</td>
<td>3.3</td>
<td>12</td>
<td>200 X 1</td>
<td>39.0</td>
</tr>
</tbody>
</table>

Feature

1. Non-Reel Effect
   - By optimizing a running fabrics and the injection angle of a nozzle, useless tension is mitigated and damage is not given to products. Therefore, defect such as Crease(SIWA) particular happen on Reel type is improved.

2. Special Inner Tank Structure
   - HISAKA designed original special inner tank realizes stable running and uniform accumulation, then ultimate quality is realized.