

Becatron AG

IndiLine 2.0 for Indigo Dyeing



System

The system, which is based on a new technology, detects, adjusts and documents data of critical process parameter online during indigo coloration, such as concentrations of dyestuff and reducing agents as well as pH values.

Benefits

- Indigo Concentration
- Reducing Agent Concentration
- Alkalinity / pH-value
- Red-Ox Potential
- Temperature
- Electrolyte Concentration

Parameters

All important parameters are analysed and monitored by a single device.

Can be adapted to new or existing dyeing ranges. Simple installation and easy maintenance.

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Online Monitoring System for Indigo Dyeing

IndiLine 2.0

Detecting, documenting and adjusting data of all process parameters

SYSTEM INFORMATION

- Online titration to determine the concentration of indigo and hydrosulphite in dye baths
- Red-Ox measurement including amplifier and probe
- Temperature measurement including temperature sensor
- IndiLine 2.0 with 10.4" touch control panel
- The device can be placed in the laboratory or in production right next to the machine
- Software monitoring the important dyeing bath parameters online and storage of
- dye set history for dye set analysis
- Network interface for Remote Support; USB, RS232
- Measurement and control of dyeing bath pH-value
- Regular self calibration and cleaning
- Measurement of the conductivity / electrolyte concentration
- Touch control panel for a 2nd dyeing machine
- Software to operate 2nd dyeing machine

Monitoring System

All important parameters are analysed and monitored by a single device.

Can be adapted to new or existing dyeing ranges. Simple installation and easy maintenance.

No inaccuracy caused by contamination of the dyeing bath with sulphur dyes and highly accurate results even at very low hydrosulphite concentration.

Regular self calibration and self cleaning resulting in higher accuracy and much longer lifetime of sensors and electrodes as compared to auto-titration equipment.

Stable dyeing bath conditions due to high frequency of the measurements (only 8 – 12 minutes per cycle) and accurate control resulting in a remarkable reduction of off shade and 2nd quality.

Monitoring and control dyeing bath preparation.

Allowing dyeing machine operators and laboratory staff to focus on important duties and work.

