

THEN AIRFLOW AIRJETWIN: Aerodynamic High Temperature Dyeing Machine

AIRJETWIN high temperature airflow dyeing machine, the latest generation of dyeing equipment, is now being offered to fulfill the various requirements of dyeing process nowadays. Through finite element analysis (FEA), the airflow and water flow situation is well-analyzed for design optimization. In addition, by combining different THEN'S and FONG'S product advantages, the entire performance is further enhanced through a holistic design integration.

Single-Blower for Multi-Tube Design: By utilizing single blower with frequency inverter and optimizing pipe network design,



Mr. Walter Leung, Sales Director, Fong's National Engineering Company Limited with his colleague.

the air volumetric flow rate of each tube is evenly distributed.

Integrating Nozzle System: By adjusting various combinations of multiple spraying nozzle and sprayers, the best dyeing performance of a huge variety of fabrics can be achieved.

XY Internal Plaiter: Fabric is plaited to and fro inside the dyeing vessel to achieve an organized fabric stacking pattern inside the storage chamber. It enables smooth fabric lifting, higher fabric lifting speed and reduction of fabric entanglement in the chamber.

Overhead Cleaning System: Effective cleaning is provided through purging to rinse the kier head, thus ensuring no residue color is left. ♦

Color Service Automatic Dosing Systems

Color Service was founded in 1987 and according to this Italian manufacturer, they were the first company in the world to introduce the first automatic dosing system for powder dyestuff in the market.

Over the years the range of Color Service automatic dosing systems became larger, up to the production of dosing systems for liquid auxiliaries, powder dyes (in production and laboratory), powder chemicals for dyeing and printing houses.

The weighing unit for powder dyes mod. TRS automatically weighs any type of dyestuff in powder or in granule form, guaranteeing the accuracy of the dosing, reproducibility of the recipes and the maximum hygiene in the working environment. The system allows remarkable accuracy within small weighings, guaranteed by the use of Mettler's high accuracy weighing



Mr. Hamza Radouani of Color Service with team TEP at IGATEX 2019.

instruments. The full automation for the dosing of the dyes is achieved combining the dosing unit mod. TRS with the automatic dissolution unit produced by Color Service in various models:

- ❖ JIT (to serve small dyeing machines with reduced water volume).
- ❖ SCC 35 lt. with 1 dissolution keg to dissolve medium quantity recipes, of about max 15 kg.

- ❖ SCC 50 lt. with 1 dissolution keg to dissolve medium quantity recipes, of about max 18 kg.
- ❖ SCC 2 with n.2 dissolution tanks to serve big capacity machines or a substantial number of dyeing machines.

Color Service is represented in Pakistan by TEP (Pvt.) Ltd. ♦