

Color Service Automatic Dosing Systems



Established in 1987, Color Service is an Italian company, one of the leaders in the development and production of automatic dispensing and dosing systems. The company was the first in the world to introduce during ITMA 1987, the first automatic dosing system for powder dyestuff for textile industry, changing considerably the approach of the textile world towards automation.

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 granule form, guaranteeing the accuracy of the dosing, reproducibility of the recipes and the maximum hygiene in the working environment. The system allows a remarkable accuracy within small weighings and the accuracy is guaranteed by the use of Mettler's high accuracy weighing 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.

All dissolution units will then send in automatic the dissolved dye, according to the parameters of dissolution fixes by the customer, at the destination.

Another main innovation of Color Service is the introduction of an automatic dosing/dissolving system for powder chemicals (Salt, Sulphate, Soda).

The system prepares solutions highly concentrated (up to 1:1) from powder chemicals. The dissolution tank can be supplied in different capacities (360 or 500 lt) and it is mounted on load cells, the product is dosed directly into the dissolution water to make the cycle faster. A centrifugal pump recirculates and then sends the bath to users. The dosing and distribution of 300 kg in 300 lt of water are accomplished in ten minutes.

Color Service is the only supplier in the world to offer an automatic dosing system for liquid chemicals highly fast and accurate. The speed of volumetric measurement is combined with the precision of gravimetric dosing.

The customer has the possibility of establishing a maximum dosing quantity for each product using a gravimetric system involving a keg located on loading cells for optimum accuracy. Above this threshold (e.g. over 300 gr.), the system automatically deviates the products through the volumetric system to optimise speed.

Color Service also was the first company to introduce the multi-line delivery of dyes, liquids, chemicals. This creation through a double distribution arm provides the great advantage of dual feeds: two different destinations can be supplied at the same time.

In conclusion, the main advantages of our technology are the accuracy of weighing and the labour along with time, energy and chemical savings. With our automatic dosing systems, various human mistakes during the chemical preparation are deleted and all activities of the dispensing are reported allowing to get easily a cost analysis of the material.

In a few years, Color Service became the world leader, attaining an important position in the textile machinery field with products "Made in Italy", creating a name recognized worldwide that is synonymous with cutting-edge systems and high technology. Choosing a Color Service plant implies a solid backing and support of an industry leader with 25 years of proven experience. Thanks to an excellent worldwide sales and support network, the company exports to almost every country in the world as well. ♦

