

DOS&DYE® JETFLOW

The DOS&DYE® JETFLOW is a completely automated system devised to carry out the dyeing of small lots of knitwear or fabrics. This is the first system really capable of executing multiple-dye programmes in an automatic sequence using jet/overflow machines, without requiring any manual intervention.

To obtain this result it has been necessary to conceive a new dyeing machine that allows a rapid and automatic loading/unloading of the fabric from the dyeing machine.

The brilliant yet simple solution thought up and patented by TECNORAMA requires the pressurised jetflow dyeing machine to be equipped with a special removable basket in which the fabric has already been placed. This basket is devised to be easily replaceable in the dyeing machine with another basket, using a robotised system for the removal and handling of the basket. The dyeing autoclave is devised in such a way that, when the machine is open, it can receive a basket or permit its removal, and when the machine is closed it acts as a normal pressurised jetflow dyeing machine. A "park" situated close to the dyeing machines is used to house the baskets containing materials to be processed as well as materials already dyed.

During the parking phase the fabric materials are manually loaded and unloaded to and from the baskets, while the dyeing machines can continue to work without losing any time performing these operations, unlike all traditional dyeing machines, where fabrics are loaded and unloaded to and from the machine, which of course remains inactive during this operation.

The DOS&DYE® JETFLOW system consists of the above-described dyeing machines (DYERAMA JETFLOW) used in combination with systems for the automated dispensing of dyestuffs and chemicals, both solid and liquid, which are capable of automatically sending the various products and dyestuffs in the right amounts and in the real times required by the various programmes in execution in the single dyeing machines.



A system having these technical characteristics is, of course, completely autonomous, and can carry out numerous dyeing programmes in an automatic sequence until material stocks present in the park are exhausted.

The DOS&DYE® JETFLOW system can work in complete autonomy for many hours without requiring the intervention of any operator.

It can be used and managed in such a way that, using a single daily work shift, the system can operate 24 hours a day, seven days a week, including weekends and Bank holidays. The productive and economic advantages are obvious.

Also to be considered is the significant increase in general quality ("right first time") and in operational quality, with a drastic reduction in delivery times ("just in time"). The entire system is naturally managed by a personal computer and adequate software applications developed and produced by TECNORAMA.

The DOS&DYE® JETFLOW finally resolves all those problems that have arisen with the growing demand for ever smaller lots, repeated over short intervals of time, and for ever quicker deliveries.

This has become impossible and extremely costly using traditional manual systems, where the use of plants reaches, in most cases, only 30-40% of their productive potentiality.

With our system, and without a rise in the number of dyehouse personnel, we can take facility productivity to 100%, or even more, considering that installations can also be used on Saturdays, Sundays and Bank holidays without requiring the presence of personnel.

This is the work philosophy underpinning all of our DOS&DYE® systems: for the laboratory (DOS&DYE® SYSTEM, DOS&DYE® COMPACT) and for small-scale production of cone yarn from 1 to 12 kg (DOS&DYE® 2000/6000). Our plants were entirely successful, in particular the one installed in Coats (Germany) working since 2005 for which Tecnorama designed and built a new dyeing unit (DYRAMA 4/R-6000).

With the DOS&DYE® JETFLOW we have finally bridged a gap in a sector, that of fabric and knitwear dyeing, where no one had previously succeeded in completely automating the entire work cycle, including dyeing machine loading and unloading operations.

BOSS
HUGO BOSS

HUGO BOSS AG
Dieselstrasse 12
D-72555 Metzingen
Germany

Ph: +49 (0) 7123 94-2552
Fax: +49 (0) 7123 94-2018
info@hugoboss.com