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DYEING

Advantages of having a Dyrama in the Dos&Dye® system

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Tecnorama is the Italy-based producer of the worldwide known Dos&Dye® system for the automatic development of the right recipe for bulk dyeing machines to avoid correction and re-dyeing in production. The Dos&Dye® consists of a **Dosorama** – an automatic machine for the dispensing of dyestuff solutions and chemicals with volumetric system – working with one or more robotized **dyeing machines** able to work autonomously 24/7. Dosorama machines and dyeing units are combined according to clients' needs.

With Dyrama, Tecnorama offers dyeing modules integrated into the Dos&Dye® and characterized by the circulation of the bath through a reversible pump (internal/external and external/internal), whose speed is regulated by an inverter. This allows us an **excellent reproducibility** of the dyeing processes obtained in the bulk machines, especially for the **yarn dyeing**. Dyrama works with independent autoclaves, managed by individual programs and is available in several versions according to minimum and maximum capacity. The maximum temperature that can be reached is 140°C through electric resistance; the cooling is indirect by water-forced circulation. The minimum liquid ratio is 1:6, according to the weight,

type of fibre and shape of the material. Dyrama is certified by the Acimit **green label** that reports the emission consumption of CO₂, demonstrating the commitment of the company to environmental protection.

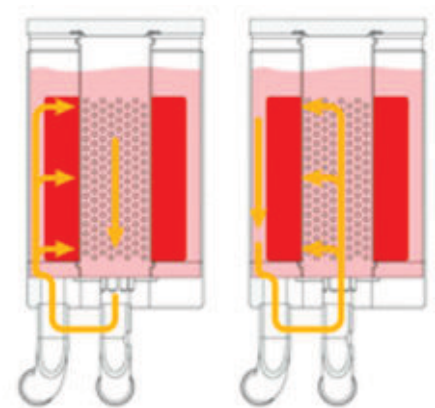
Together with a Dos&Dye® system including Dyrama 6R/500, able to dye samples from 250 up to 500 grams, a DWS dissolving unit is also supplied; it allows us to dissolve and transfer recipes of powder dyestuff to the single dyeing kiers. The powder dyestuffs are dispensed, with a gravimetric system controlled by a scale, directly in the DWS that, using a minimum amount of water, dissolves and transfers them to the dyeing kier managing the washing of the line in a completely automatic way without the intervention of any operator.

Dos&Dye® system with DWS dissolving unit offers unique advantages:

- Possibility to dye all the recipes up to a concentration of 8% for each dye
- Recipes dispensing starting directly from solid dyestuffs (powder form)
- Possibility to dye 6 different recipes **at the same time** (both by type of material and color shade) in the 6 independent autoclaves
- Recipes dissolving and transferring to the individual dyeing kiers using a small quantity of water, in order to maintain a low liquid ratio of 1:6, according to the load weight, type of fiber and shape of the material
- Possibility of dissolving and transferring the recipes also to the existing machines external to the Dos&Dye® system
- Robotic system for loading/unloading material holders and handling from the parking position to the dyeing kiers and vice versa
- **Complete** dyeing cycle, including alkali dispensing, soaping, washing, etc.

More info and videos of working machines on www.tecnorama.it

Tags: [DOS&DYE](#), [dyeing machines](#), [Dyrama](#), [Tecnorama](#)



Reversible pump circulation system

External - internal, internal - external circulation