










RESPECT. RESPONSIBILITY. REVOLUTION.

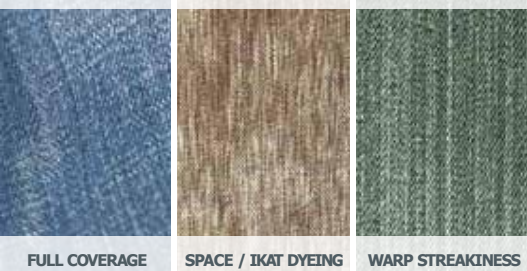


TOGETHER TOWARDS A MORE SUSTAINABLE TEXTILE INDUSTRY

RotaDyerTWIN could be placed on any section of a continuous dyeing machine like Slasher, Pad-Steam, Thermosol and stenter frame lines.

-  FASHION EFFECT
-  SULPHUR BOTTOMING
SULPHUR TOPPING
-  INDIGO DYEING (PERFECT RING DYE)
-  PIGMENT DYE
-  REACTIVE DYE
-  VAT DYE
-  DIRECT DYE

DIFFERENT DYEING EFFECTS
JUST CONTROLLED BY SPRAY PARAMETER



SPRAY DYEING SOLUTIONS with RotaDyerTWIN

New innovative, contact-free and water-reduced spray application is revolutionizing the whole textile world in continuous dyeing processes. Think about no bath contamination, no substantivity issues, no tailing, no center-side-variations and much more in your dyeing process, because of non-contact spray dyeing solution.

Furthermore directly create your needed shades without washdown, because of easy small lot production and sampling - especially on Indigo yarn dyeing.

By reducing the number of dyeing and washing baths as well as fresh/waste water, energy use and auxiliary consumption, the industry could move a big step forward towards a more sustainable, resource and cost saving future.

Create a wide variety of easy reproducible color shades and multiple colors in a single run and boost your productivity through small lot production. Depending on your dyeing process RotaSpray could spend process support also on chemical side to bring you to the next level of continuous dyeing.

With our concept of 4 spray points per side a homogenous spray is achieved and the possibility of single or both side dyeing as well as adjusting of the penetration level.

Create new fashion effects at lower costs!



**BE UNIQUE, PROFITABLE
AND SUSTAINABLE!**

SAVE

- **FRESH AND WASTE WATER**
- **AUXILIARIES AND SALT**
- **DRYING ENERGY**
- **DYESTUFF**

ELIMINATE

- **TAILING**
- **CENTER-SIDE-VARIATION**
- **PROBLEMS IN REPRODUCIBILITY**
- **SUBSTANTIVITY ISSUES**
- **BATH CONTAMINATION**

REDUCE

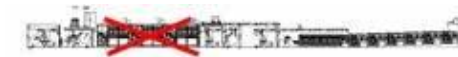
- **CARBON-FOOTPRINT**
- **MATERIAL STRESS**
- **DRYING SECTIONS**

RAISE

- **YOUR PRODUCT RANGE**
- **MACHINE UPTIME**
- **PROFITABILITY**
- **PRODUCT DIVERSIFICATION**

Example from VAT Dyeing

Normally in VAT-dyeing a Pad-Dry and Pad-Steam or combined line is needed to dyead fix the dyes.



dyestuff padding - drying - chemical padding - steaming - washing

In today's VAT process the dye liquor is applied by padding followed by high energy intermediate drying process (Pad-Dry). Then the hydro/caustic solution is padded as well to create the water soluble leuco form and make the dyestuff moveable during steaming. Oxidation and washing are following.

With **RotaDyerTwin** minimal application technology, a well proven wet-on-wet process is established where the hydro/caustic solution is sprayed contact-free.

Example from Reactive Dyeing

Very similar to above described VAT Dyeing the dye liquor is applied by padding and the fixation alkali is sprayed in minimal application wet-on-wet. For yarn this process can be reverse as well. This is a salt reduced as well as salt free process which gives you a perfect reproducibility from lab to bulk as well as bulk to bulk.

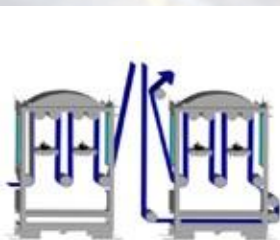
Example from Denim Slasher yarn dyeing

Normally 400 - 1200 Liter of dyeing and washing bath volumes are typically. Also permanently re-feeding of fresh dyestuffs, chemicals and auxiliaries or water is needed during processing to keep quality result on a stable level from start to stop. Draining all the dye bathes, especially sulphur and reactive, results in high water treatment volumes and costs after each production lot and wasting our natural resources of fresh water. Changing a bottoming or topping color on the same yarn sheet is costing you 1,5 - 2 hours downtime and 400 - 1000 meter of wasted yarn. A chance of producing minimum one or two thousand meters or even more with shade variation at the beginning of each dyeset resulting in loss of considerable fresh packing in production. Forget about all this. Produce cost-efficient small lot starting from only 500m without losing possibility of big lot production. Make sampling easy and create several shades or colors in one go without machine stop. In non-contact spray technology no dye-bath contamination, no tailing is existing and dyebath change is extremely fast. No intermediate washing is required and perfect ring dye could be achieved.

Indigo ring dye



RotaDyer TWIN



YOUR BENEFITS

- No tailing
- Easy small lot production and sampling
- Less no. of dye and washing bathes
- Stable and precise production
- Minimum waste
- Low Carbon footprint
- Low fresh and waste water
- Low energy consumption

APPLICATIONS

- Topping & Bottoming
- Color-DENIM
- Black-DENIM
- Reactive Dye
- VAT Dye
- INDIGO Dye
- Pigment Dye
- Mixed Dyes



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