

MODULAR CONTINUOUS RANGE FOR CHEMICAL PROCESSES



LET YOUR CREATIVITY BLOOM!





Shirting FIBRILLATION AND DE-FIBRILLATION EFFECTS ON LYOCELL AND CUPRO

Denim & Bottom Weights







SHOULD I GET IT? WHY?

DREAMAIR was born upon the dream of performing all specialty wet finishing which require high mechanical action (*enzyming*, *cautifications*, *fibrillation*, *weight reduction*, *etc.*) in a continuous process, with total repeatibility and safe from any crease marks, lusterings or abrasions.

In other terms the challenge was to overcome the limits of current discontinuos finishing equipments (air tumblers, air flow dyeing equipments, rotary drum tumblers, etc.) and give all sensitive finishers the chance to unchain their creativity and access to high end added value finishing in an industrial and safe mode.

The combination of intense mechanical action with chemicals within a continuous process, moves forward the finishers creativity, setting **DREAMAIR** as the new benchmark of added value finishing.

DREAMAIR can perform all kind of chemical applications on various fabric compositions, structures and processes, from silky goods to shirting to denim and bottom weights up to the new cellulasic fibers *(lyocell, cupro)* and poliestere, both on woven and knitwear.

A huge variety of potential solutions for anyone seeking to escape from the price battle and breath - for a while - the healing air of uniqueness:

LET YOURSELF BE A DREAMAIR!



OUR SOLUTIONS

THE POWER OF THE AIR

AIR AS SOLELY MEAN OF TRANSPORTATION

ZERO DEFECTS The exclusive air transportation system ensures no defects: no marks, no lusterings.

EFFECTIVENESS

The air pressure guarantees incomparable penetration of water and chemicals, resulting in higher washing effectiveness.

MECHANICAL ACTION AGGRESSIVENESS

The combined action of air pressure and impact on stainless steel grids moves the fabric structure and eases the performance of chemicals.

FREQUENCY

The alternated motion generates a high frequency of impacts (each 25-30 seconds), at least 6 times more than conventional discontinuous processes.

DRYING & STEAMING

- The use of a drying module in DreamAIR enables high drying capacity and maximum tumbling effect.
- Steam injection into **DreamAIR** generates shrinkage and yarn swelling.



THE POWER OF WATER

THE ACTION OF WATER

ZERO DEFECTS 4 nozzles per module (2 of which against the stream) ensure a uniform penetration of water and chemicals.

EFFECTIVENESS

The water flows against the stream of the goods enhancing the washing performances and enabling a safe fabric rinsing.

SAVINGS

WATER

Water consumption varies from 3 to 5 lt per kg fabric, with consistent water **saving of 50-60%** compared to conventional discontinuous washings.

ENERGY

Power consumption per kg fabrics is 50% less than conventional methods.

LABOR

Labor is reduced to standard control procedures.

CHEMICALS

- Dedicated dosing pumps for 4 types of chemicals (f.l.: enzymes, acetic, detergents, soda).
- Optional kier separation for different chemical application in the two channels.
- Independent temperature control in each of the 4 vats.
- Saving of around 40% of chemicals.



APPLICATION

SILKY GOODS

SHIRTING & LINEN

DENIM &

KNITS

BOTTOM WEIGHTS

4

OUR PROCESSES

EFFECTS	ADVANTAGES
 Frosty Look Silk degumming Silky touch on polyester (Syn_Silk) 	 Continuous Process Zero defects due to air transportation Repeatibility 60% water and chemicals
 Fibrillation / Defibrillation Slack Effect Mill Wash Effect / Worn out 	 Continuous & Repeatable Process Better dimensional stability Substantial absence of pilling
 Delavè Slacking Effect Washdown overdyed Denim bleach 	 Comfort, yarn swelling and relaxation shrinkage Continuous, repeatible & economical (almost no labour)
 Niki Plush pop up Silky touch on polyester (Syn_Silk) Fibrillation / Defibrillation Polar fleece lamb skin look Slack Effect 	 Highest output on the market Even pile standing (no marble look) Continuous and repeatible Labour almost erased

NEW TECHNICAL FEATURES



THE POWER OF THE AIR

The powerful action of the air through centrifugal blower, smashes the goods back and forth **each 25 seconds** in an alternated motion, thus enabling an intense mechanical action and reduced permanence time, free from crease marks or defects whatsoever.



DYNAMIC NOZZLES

4 flows per module, 2 in stream and 2 against the stream keep the fabric constantly wet with water & chemicals. The dynamic nozzles enable the fabric inversion (international patent).



DEDICATED Chemical Pumps

The whole setup is **totally flexible** with customized number of pumps for chemicals and auxiliary precision dosing *(caustic soda, enzymes, acetic acid, etc.).*



HYDRAULICS

Each kier is equipped with its own pump, filter and heat exchanger for independent temperature control. Kiers can be separated in two different channels to enable different chemicals applications.



Slackin[®] EFFECT

This new revolutionary effect through a 24 Be caustification process in relax mode, combined with an aggressive mechanical action during washing enables a total fabric stability, a consistent weight increase, a better colour grip and an exclusive handle. Process pfd fabric caustification, development and rinsing in **DreamAIR**, detwister and squeezing.

DELAVÈ, Enzyming, bleaching

Now you can achieve an uniform color fade on various dyestuffs, such as indantrene, sulfurous, indigo, vats, reactives and even in pigment prints or coatings, thanks to the continuous moving of the fabric rope without any mechanical traction.

DreamAIR chemical wash followed by an intense rinsing and neutralization in Wanny, then detwister and final squeezing.

NEW PROCESSES

FIBRILLATION, DEFIBRILLATION

Cellulosic fibers such as cupro, polynosics, lyocell and blends can finally be processed in continuous with absolute repeatibility and without fear of crease marks thanks to the exclusive air transportation system. First, a caustification step creates the primary fibrillation. After dyeing, an enzyming process, neutralizing, opening, squeezing & roll up.





SYN-SILK: SILKY Touch in Polyester

The aggressive mechanical impact generated by air transportation combined with the chemical action produces a notable silky touch of polyester yarns. Soon after the physical/chemical process in **DreamAIR**, an intense rinsing in Wanny, then detwister, pad mangle and roll up.







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