

ENAIRGY

CONTINUOUS
TUMBLERS



TURN YOUR
ENAIRGY ON!

PENTEK
TEXTILE MACHINERY

ENAIRGY



Shirting & Linen

VOLUME, DRAPE & STABILITY

Silky Goods & Prints

VOLUME & DRAPE

Jeans & Bottom weights

SUPERSOFT EFFECT & STRETCH CONTROL

Jeans & Bottom weights

CORDUROY POP UP

Wool & blends

BULKINESS AND DRAPE

Home textile

UPHOLSTERY CHENILLE POP UP

Home textile

TERRY TOWEL POP UP

Home textile

3D EFFECT

SHOULD I GET IT? WHY?

ENAIRGY is the energy of air applied to specialty finishing, in order to gain substantial quality on your goods, adding softness, bulkiness, stability and visual changes in a repeatable way, with no abrasions, crease marks nor lack of uniformity.

Choosing **ENAIRGY** means tailoring a personal creative dimension and position oneself out of the strict price battle.

ENAIRGY is particularly suitable in the last steps of finishing processes right before inspection and packing: after the fabric is dyed, printed or coated **ENAIRGY** smashes it against stainless steel grids through pure air flow.

Its best performance is guaranteed by processing dump fabrics (after pad mangle, steamed or pre-dried) and by combining moisture, temperature and mechanical action it creates a wide range of effects (pile pop up, bulkiness, 3D effect, worn out look, stability, mill-wash effect, etc.).

ENAIRGY is the most flexible tumbler on the marketplace; a wide experience on many different fabric style and composition brought us to patent new technical solutions for the specific need of each of your goods.

**TURN YOUR
ENAIRGY ON !**





THE POWER OF THE AIR

1

AIR AS SOLELY MEAN OF TRANSPORTATION

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

EFFECTIVENESS
The air pressure guarantees incomparable permeation of chemicals, maximum swelling of the fibers and the highest drying capacity in the marketplace.

2

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 ensures an adjustable high frequency of impacts each fabric piece impacts from 60 to 80 times before exiting for a clear change of hand feel.



3

DRYING & STEAMING

- EnAIRgy can work in a pure drying mode perfectly limiting the amount of smashes
- Steam injection into EnAIRgy or just before the machine entry generates shrinkage and yarn swelling

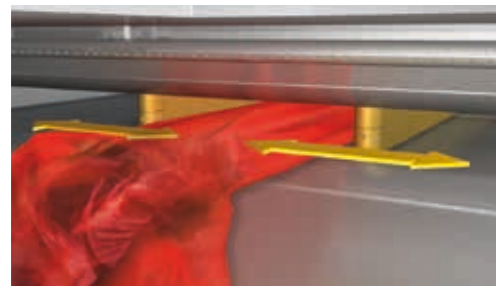
APPLICATION	EFFECTS	SUGGESTED MODEL	PERFORMANCE
 WOMANSWEAR	<ul style="list-style-type: none">• Hand & drape on printed goods• Silky touch on polyester (Syn_Silk)• Shrinkage for viscose crêpe		HIGHER FREQUENCY OF IMPACTS
 SHIRTING & LINEN	<ul style="list-style-type: none">• Handfeel & drape enhancement• Bulkiness and stability improvent• Permanent wrinkle effect• Mill Wash Effect / Worn out		MAXIMUM CARE IN HANDLING DELICATE FABRICS
 WOOL & BLENDS	<ul style="list-style-type: none">• Softening, bulkiness and bounce on worsted goods• Pile Pop up & volume on veloures• Mill wash effect on woollen goods		HIGHER CRASHING POWER
 DENIM & BOTTOM WEIGHTS	<ul style="list-style-type: none">• Relax & stability on stretch goods• Hand breaking and drapery on bottom weights• Worn out look and hand on coated goods• Pile pop up on corduroy and sueded twills		HIGH DRYING CAPACITY
 HOME FABRICS	<ul style="list-style-type: none">• Chenille jacquards pop up• Terry towels volume and pop up• 3D effect on jacquards• Pigment prints softening• Natural feel on eco-leather		ADJUSTABLE CRASHING FEATURES
			HEAT RECOVERY SYSTEM
			MAXIMUM CRASHING POWER
			MAXIMUM DRYING CAPACITY
			HEAT RECOVERY SYSTEM
			TWIN BLOW WITH INDIPENDENT VENTILATION



RELAX & CRASH MODE

INTERNATIONAL PATENT

Besides the alternate motion of the goods, fabric can be kept floating in the shooting tunnel between a crash and the next for a pre-set number of seconds. Whenever necessary, it is then possible to separate the mechanical action from the drying power, switching the use of the machine from tumbler to pure dryer and all intermediate ways between the two modes.



ADJUSTABLE WORKING WIDTH

INTERNATIONAL PATENT

EnAIRgy is the only tumbler in the world to operate in both open width and rope form. The unique feature of modifying the working width enables a huge range of effects, both for shrinkage and visual look, by a side compression. The ECOWIND will drive the air only where the fabric lies, thus avoiding heat loss and lack of efficiency of the air flows.



TWIN BLOW

The air injection can be produced by two separate blowers (both inverter driven) in order to adjust independently the air amount and the air pressure, eliminating any friction and easing a sweet drying action, through a lower air cushion or higher crashing power against the grids.



DOUBLE ROTATING GRID

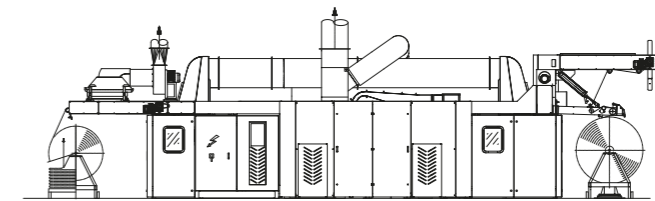
INTERNATIONAL PATENT

Optional extra. A rotating double treatment grid with auto-locking system, enable a wider and versatile range of effects, with two different grid profiles. The wider step grid with bigger diameter bars is suggested for stiff fabrics which require a particular crashing action. The narrower step grid with thinner bars is suitable for all other type of fabrics (mandatory for lighter and delicate goods).

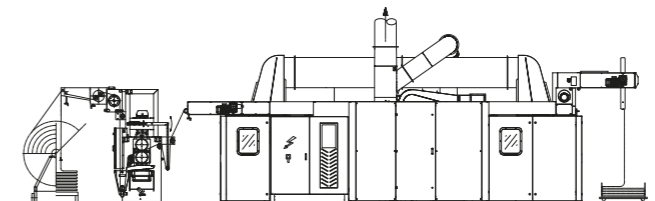


MULTIPLE STRANDS

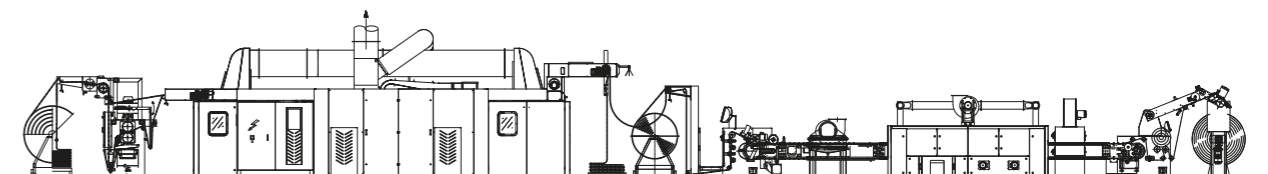
Optional configuration. The adjustable tunnel width enable to work on multiple parallel strands (2 or 3 according to the machine width), with no risk whatsoever of overlapping of the strands both in the tunnel and in the accumulation scays. This feature is suggested for narrow fabrics such as terry towels etc...



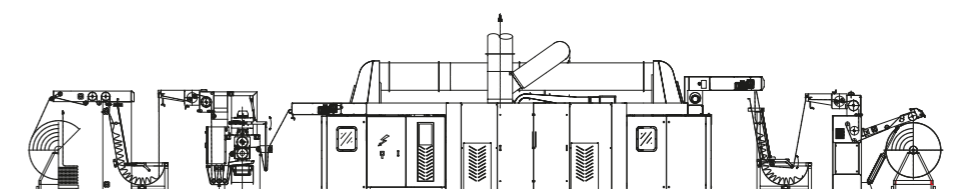
UPHOLSTERY JACQUARDS



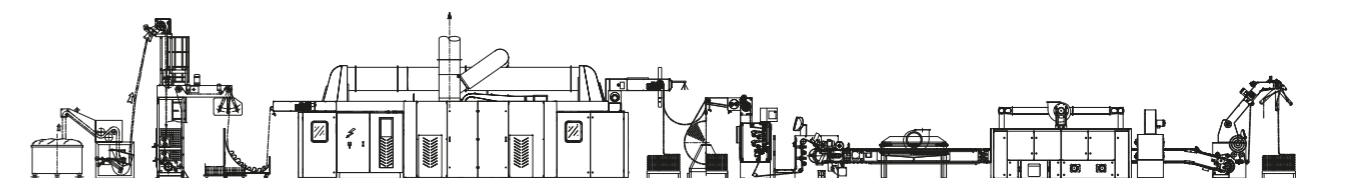
SILKY GOODS



SHIRTING & LINEN



DENIM & BOTTOM WEIGHTS



TERRY TOWEL

ENAIRGY

Continuous drying, steaming and tumbling equipment in open width and rope form.

DREAMAIR

Continuous range for enzyming and chemical processes in rope form.

WANNY

Continuous modular overflow.

DESAIR

Continuous drying, steaming and tumbling equipment for tubular and open width knits.

POWAIR

Continuous open width dryer & tumbler for higher productivity.

TEMPO

Continuous modular drying and shrinking line in rope form.

FOULARD

Squeezing and impregnation mangles with 2 or 3 rollers.

FLYAIR

Continuous Tumbler in rope form.

PENTAIR

Discontinuous washing, drying, steaming and tumbling equipment.



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