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Ecosynthetic - ENG - 01/2021

ecosynthetic



ecosynthetic

ANOTHER STEP FORWARD IN THE FUTURE

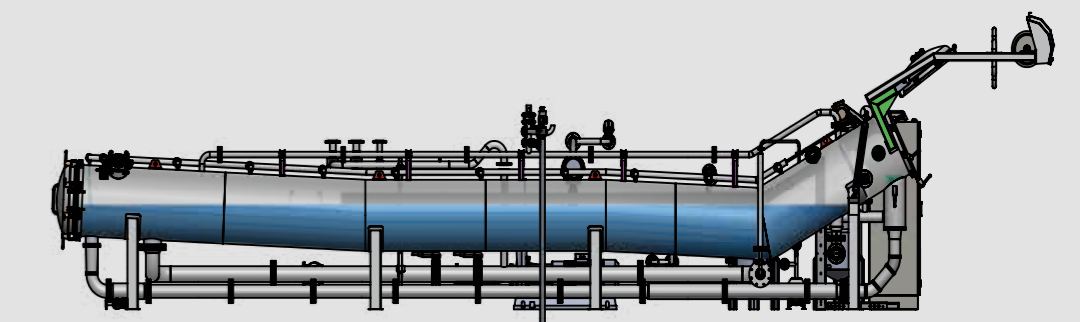
Ecosynthetic is the machine that is designed for sensitive, light and heavy weight fabric materials. It's suitable for cotton, synthetic, woven and knitted fabrics.

In addition, it's suitable for woven and knitted fabrics of 50 to 500 grammes per running meter.

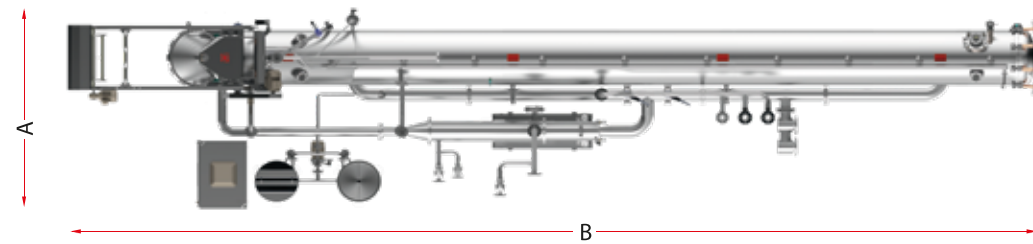
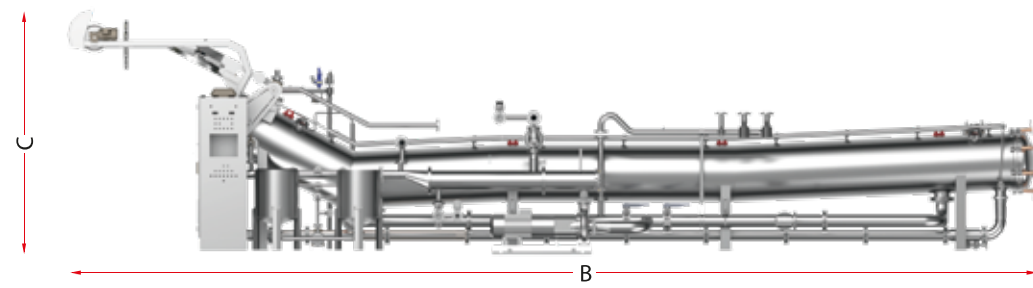
Ecosynthetic produced for dyeing the fabric, with a variable adjustable nozzle without tension, rotation and twist.

Maximum winch speed is 600 m/min. Stable water velocity by means of variable nozzle.

Polyester 100%, fabric absorption 200%			
	Light shades	Middle shades	Dark shades
Water (l/kg)	12/14	14/17	17/27
Steam (kg of steam/kg of fabric)	1.0	1.0	1.6
Energy (kW)	0.08	0.09	0.1
Process time (H:min) (including loading and unloading)	2.30	4.20	5.2
Final liquor ratio 1:7 liters			



Polyester 100%, fabric absorption 200%			
	Light shades	Middle shades	Dark shades
Water (l/kg)	14/17	17/22	22/27
Steam (kg of steam/kg of fabric)	1.0	1.0	1.6
Energy (kW)	0.08	0.09	0.1
Process time (H:min) (including loading and unloading)	3.10	3.30	4.10
Final liquor ratio 1:7 liters			



Models	Dimensions		
	A mm	B mm*	C mm
11000 mm / 125 - 150 kgs	2790	12770	3170
7000 mm / 65 - 80 kgs	2660	8850	3170
4100 mm / 30 - 40 kgs	2410	5500	3170

* With unloading reel

Tube	kg	Electrical Panel	Working Principle
1	150	1	1
2	300	1	1+1
3	450	1	2+1
4	600	1	2+2

» **AUTOMATIC PISTON COVER**

- Fully automatic hinged pressure cover system
- Two-level security check



» **NOZZLE**

- New designed nozzle
- Avoids water choking
- Fabric opening system
- Manual fine tuning



» **TORQUE CONTROLLED TURRET**

- Fabric tension control
- Developed stainless steel turret to minimize fabric tensions



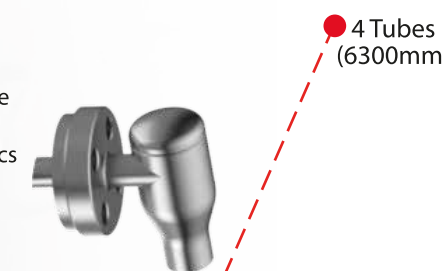
» **ADJUSTABLE FABRIC SPREADING SYSTEM**

- Auxiliary stacking system to open the fabric
- Desired height adjustment according to fabric type & weight



» **ADVANCED INNER WASHING SYSTEM**

- Pressurized spray system that washes the inner walls of the machine
- Vortex system avoids fiber particles to occlude the holes
- The ability to effectively wet fiber pieces especially for the PES fabrics



3 Tubes (5200 mm)

4 Tubes (6300mm)

2 Tubes (4070 mm)

1 Tube (2790 mm)

» **AIR EFFECTED PIPE DESIGN**

- High speed water & fabric transportation
- Avoids fabric twisting



Perfection in dyeing comes from details

4,100 mm (30-40 kgs)*
7,000 mm (75-100 kgs)*
11,000 mm (125-150 kgs)*
* Without unloading reel



» **J-BOX**

- Polished sheet metal inside the body
- Perforated Teflon inside of the J-box
- Fabric flow stabilizer body design