

SynthMaster - Features



SYNTHmaster

Made for your success!



Programmable nozzle „Smoothflow“

- Fully automatic and programmable setting of nozzle gap
- Lightweight fabrics can be processed with low liquor volume while heavy fabrics are treated with increased flow
- Jet flow or soft flow can be programmed through setting of nozzle gap and pump speed

Intensive zone

- Slight incline aids in rope reorientation
- Long contact zone within large radius intensive tube permits acceleration of the rope to higher speeds resulting in shorter cycle
- Rectangular exit zone avoids rope rotation and torsion
- Plaiting by moving the intensive tube.

Storage chamber

- Fabric glides from the back to the front, free of compression, tension and stress
- Cone shaped in width
- Wrap around Teflon foil (180°)
- Draining in the front and the back
- Under loading possible up to 70%
- Liquor ratio of 1:7 for cotton at 180 kg load

Main winch

- Rounded star profile for soft and efficient fabric transport
- Extremely low lift (less than 1 meter)
- Reduction in longitudinal tension
- Monitoring of electrical consumption of winch motor

Filter

- 100 % filtration
- Self cleaning: With each drain step of the machine, the filter is cleaned and rinsed
- No filter change or filter cleaning necessary
- Special function during boilout for intense filter cleaning
- Reduction in liquor ratio due to elimination of filter housing and piping



SYN 102.0 e

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Control

- Touch screen
- All components are driven by Profibus or Can Open Bus
- Better diagnostics
- Information feedback relating to the consumption of the motors
- Simplified and modular design



Control functions

- Differential pressure control via pump inverter
- Masterfill and Masterdrain
- Masterclean
- Two in one Rinse
- Masterrinse

Operation

- All components such as winch, nozzle and chamber are visible through the loading port window even under high temperature
- No platform
- Most quiet machine of its class

Economics

- Liquor ratios: Polyester 1:5, Cotton 1:7
- Electrical power consumption: 7.5 kW per rope (Air machine: 25 kW per rope)
- No compressed air pad necessary
- Optimized rinsing program to reduce water consumption
- Rinsing at high liquor ratio possible

Simplicity

- Simple and fast loading and unloading
- Operation with stainless, vandal-proof buttons
- Simple to learn and operate. Only seven buttons
- Fully and semiautomatic operation possible.

Process control

- Dosing of chemicals with pre-dilution
- Exact gradient control with stainless steel control valve and electro-pneumatic positioner
- Filling with programmable flow meter and analogue level controls

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