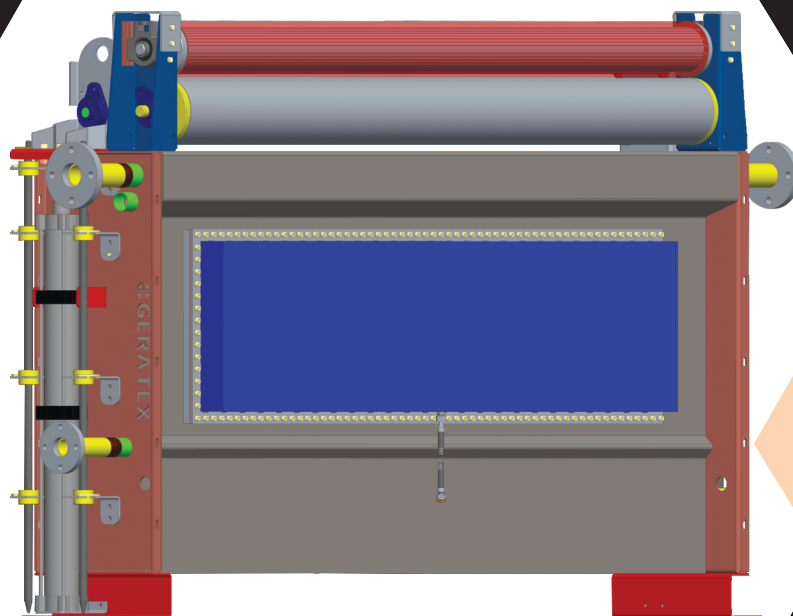


Innovation for Sustainable Textile



SonicWash™

Washing Unit Powered by Ultrasonic



Geratex evolves and innovates ideas for sustainable solutions for textile processing. There is an ever increasing awareness towards depleting natural resources and therefore it has become imperative for textile companies to adopt machines that are sustainable. Textile processing all around the globe has been using technology which is more than thirty years old. The old-technology machines use more water and power. Also efficiency is compromised. There was an impending need for sustainable solutions in processing, keeping in view of the present challenges. Geratex introduced “Ultrasonic Technology” for the first time in textile processing in 2015 at ITMA held in Italy.

Ultrasound being high frequency sound invigorates the water molecules which helps them to penetrate deeper into the fabric. This helps in high level of absorption by the fabric and aids rapid liquor exchange. The objectives achieved are manifold. With lesser water & chemicals and less power, much better results are achieved.

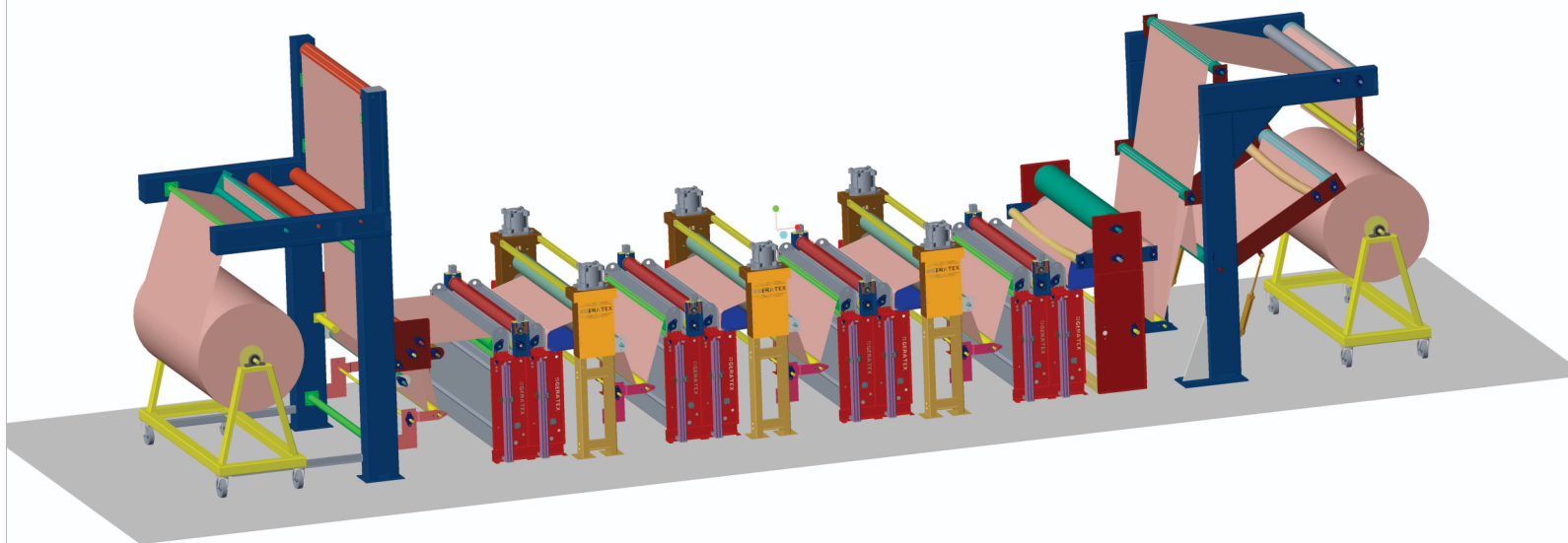
SonicWash™ is washing unit powered by Ultrasonics. The Ultrasonic unit is sourced from Germany and is specially designed and configured for SonicWash™. This is modular unit and hence can be integrated into existing ranges.

Since the introduction of the Ultrasonic based machines, we have successfully installed them in textile companies in countries such as Brazil, Ecuador, El Salvador, Turkey, Germany, Bangladesh etc.

Washing Range using Ultrasonic Technology

SonicWash™ For Woven & Knitted Fabrics

GERATEX has launched a revolutionary concept in wet processing using 'ULTRASONIC'. This invention has been developed by highly experienced technocrats after thorough working and rigorous trials. The company has gone in for patenting the machine to ensure better control over quality and performance.



The total length of the above range is only 8.5 meter

Washing is one of the most crucial processes in wet finishing. The quality of finished fabric depends considerably on the washing achieved at each stage of wet processing ie. de-sizing, bleaching, mercerizing, dyeing and printing. Therefore it is very important for the processor to select a washing solution which delivers in terms of product quality, processing cost, environmental affects, return on capital investment and reliability of technology. SonicWash™ is the most advanced washing concept, delivers on all the mentioned parameters. Ultrasound steps up the fabric adsorption considerably and achieves the ultra wash

Washing Range
using Ultrasonic Technology

SonicWash™ For Woven & Knitted Fabrics

Advantages

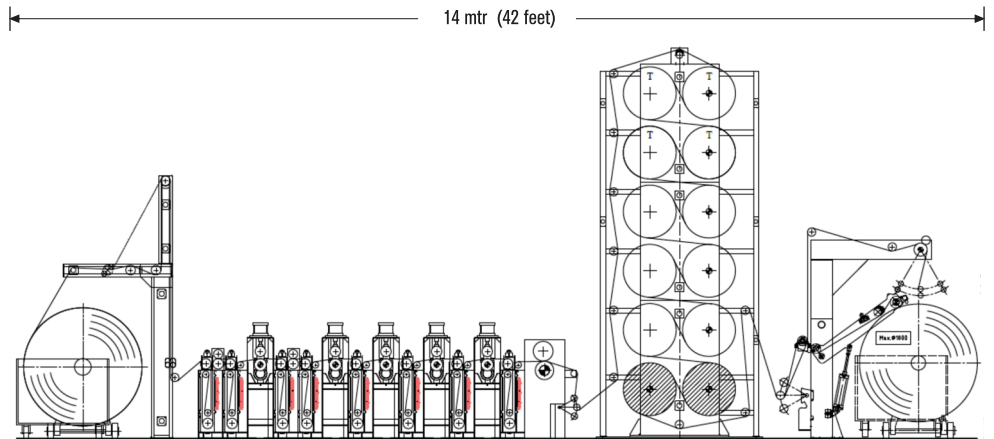
- Very compact and easy to handle. Occupies only 1/3rd space compared to traditional washers
- Easy to integrate in existing plants
- Minimum hazardous chemicals required for washing
- Maximum temperature required is 65° C
- Option of Load Cells or Dancer
- Easy to maintain
- Environmental friendly
- Ultrasonic sourced from reputed manufacturer in Germany
- Since it is extremely compact, there is no dimensional distortion in open-width processing of Knitted fabric
- Economical and cost effective

SonicWash™

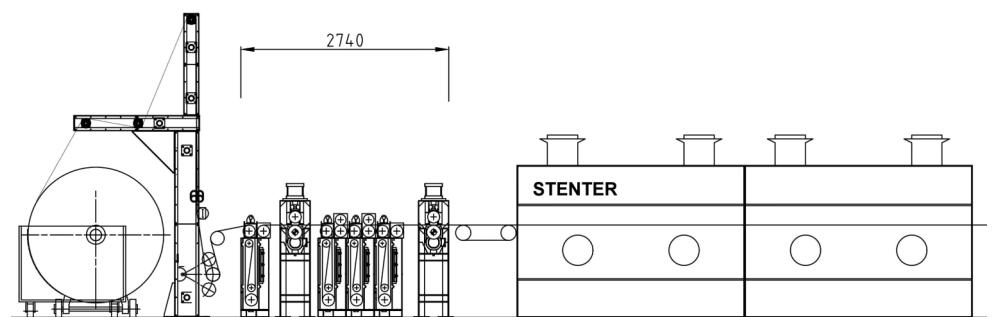
Ultra-Washing for Woven and Knitted Fabrics

Washing is one of the most crucial processes in wet finishing. The quality of final finish depends considerably on the washing achieved before and after each stage of de-sizing, bleaching, mercerizing, dyeing and printing. SonicWash™ is the most advanced open width washing solution.

The ultrasonic increases the fabric adsorption considerably and achieves the ultra wash.



Typical Layout for SonicWash™ for Wovens



Typical Layout for SonicWash™ Pre-wash in-front of Stenter

SonicScour™

Economical Scouring Solution

SonicScour™ is especially designed for scouring of PV and PC fabrics whether woven or knitted. Normally scouring of these involves hazardous chemicals. SonicScour™ minimizes uses of these hazardous chemicals. Ultrasonic waves create the turbulence required for the scouring process. The agitation achieved by the ultrasound in the water accelerates the scouring and results in excellent washing.

Technical Features

- Working Width : 1200 to 3600 mm
- Operating Temperature : Maximum 65 °C
- Speed : 40 to 60 Mts / min
- Water Consumption : 2-3 litres / kg of fabric

