

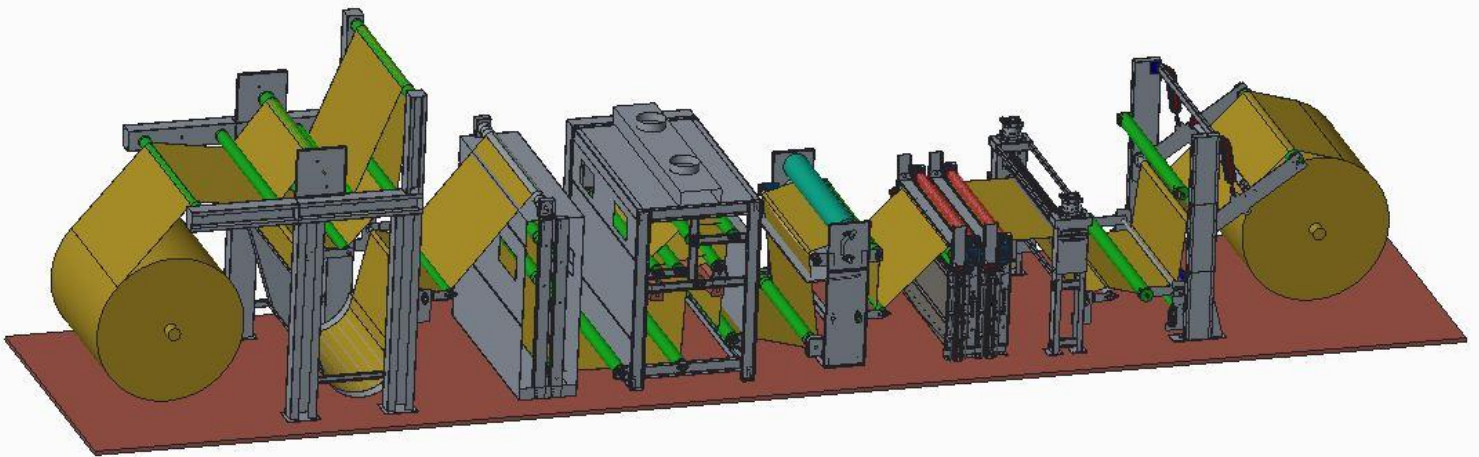
Innovation  
for  
Sustainable Textiles



GeratexSingeing  
NextGen singeing Machine

## SINGEING Machine in Combination With Ultrasonic Impregnation

Geratex Singeing machine is a revolutionary concept in singeing technology with specially designed burner to direct the flame for best singeing process developed after thorough research and development. Combined with the singe unit is Ultrasonic impregnation which prepares the fabric for best results in further processes.



Singeing is a crucial process to remove the protruding fibres and from the surface. This process requires control of flame, distance of fabric from burner and speed for the best singeing results. Geratex singe offers all the necessary controls on parameters. The most important is the burner technology that has been developed to direct the flame to a point of narrow width of convergence and thereby achieving high intensity. The Singe unit combined with Ultrasonic impregnation is best prepared for further processes like Desizing, Bleaching, Mercerising and Dyeing. Therefore Geratex provides textile processing an enhanced and superior superior fabric finish as compared to any other existing technology.

## SINGEING Machine in Combination With Ultrasonic Impregnation

### Core of Geratex Singeing machine:

- Specially designed burner to produce high intensity convergent flame
- Two highly efficient senge heads made of stainless steel with ceramic burner bricks
- Pneumatically operated 3 senge head positions
- Temperature controlled cooling for Senge Heads
- Controlled gas air mixing chamber uniquely synchronised with burner
- Intensity of flame adjustable to suit fabric type from 30 to 115 kw/m
- Adjustable fabric to flame distance
- Automatic swivel facility in case of overheating to prevent fabric burn
- Control of singeing parameters either manual or PLC based
- Reduced gas usage
- High pick up in ultrasonic impregnation
- Low volume of desize chemicals due to enhanced penetration effect of ultrasonic

### Concept

Fabric singeing is an important pre-treatment process which prepares the fabric for wet processing. It is achieved by a very high intensity flame converged to a narrow width that sings the surface of the fabric, across the width. The effectiveness depends on the flame intensity achieved with uniformity in the entire width. Added to better singe flame, Geratex offers an much improved system of chemical impregnation for various application like desizing, cold bleach etc. Hence the proven technology of Geratex enhances the performance with improved impregnation both as a result of higher pickup and deeper penetration of chemicals