

Engineering

Hills, Inc. is the world leader in design, development, and manufacture of custom built machinery and technology for the synthetic fiber industry. Hills mechanical, electrical, and process engineering is done in-house by skilled engineers and draftsmen. Hills uses computer-aided technology and state-of-the-art testing facilities to assist in the development of new designs and processes.

Engineering Tools



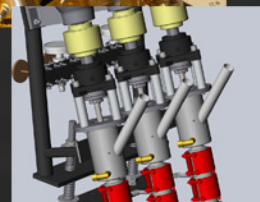
SolidWorks

MSC Nastran

Certified Process Piping (B31.3)

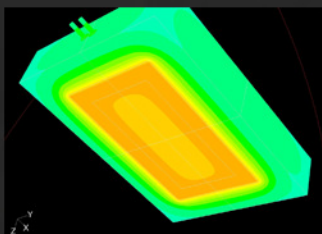
Custom HMI Programmers
(Siemens, Wonderware, Hillware)

CE Conformed

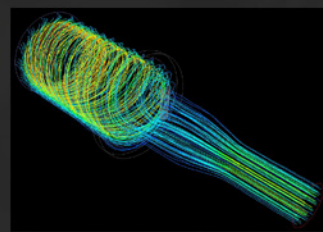
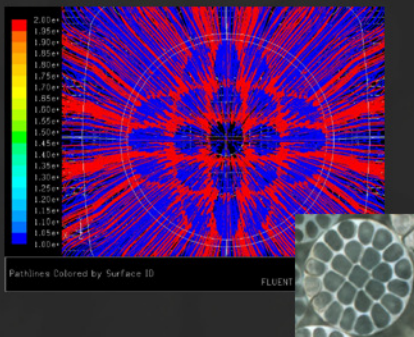


Ultra-Precision Engineering

Hills Core Technology Group uses CFD (Computational Fluid Dynamics) software such as ANSYS' FLUENT and POLYFLOW for rapid development of designs and high initial success rate for multi-component filament extrusion, shaped (non-round) filament extrusion, Meltblown dies, quench systems, compressed air vices (such as Spunbond attenuators), extrusion devices (extruder mixing tips, polymer distribution manifolds, etc.), and extrusion heating systems.



Spinhead Heating Temperature Separation



Extruder Mixing Tip With Instrument - Flow Path

Innovating Since 1971

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