The Hills Inc. Bi-Component Filament Production Machine produces any cross-section of bi-component including 600 Islands-in-the-sea fibers. It is the highest quality, most flexible, and most cost-efficient bi-component fiber production machine on the market today.

**EXAMPLES OF CROSS-SECTIONS THAT CAN BE MADE ON HILLS INC. MACHINES**

- Segmented Pie (PA-6/PET)
- Islands-In-A-Sea (PVA/PP)
- Sheath/Core (PE/PET)
- Side-by-Side (PET/CoPET)

**FEATURES OF THE HILLS INC. BI-COMPONENT PRODUCTION MACHINE**

- Same pack for all types of bi-component fibers.
- Pack design allows easy operation and maintenance.
- Bi-component ratios of 50%/50% to 20%/80% on standard machine (ratios of 10/90 or lower possible).
- Polymer pre-filter designed especially for use in bi-component micro-denier applications.
- Cross-flow quench designed for smooth quenching air flow.
- Custom designed takeups.
- Take-up speeds to >7000 meters per minute.
- Central Process Control System with supervisory/data-logging computer.
- Retrofit of most existing machines easily available.
- All specialized auxiliary equipment is included with machine.
- Available options
  - Full compliment of laboratory and auxiliary equipment is available (including pack cleaning equipment for “turn-key” operation).
  - Custom designed fiber cross sections.
  - All melt spinnable polymers.
BI-COMPONENT MELT EXTRUSION MACHINE: FOR POY FIBER PRODUCTION