Custom Machines Advance Composite Manufacturing

Langley Research Center

Accudyne Systems Inc.
Newark, Delaware

**NASA Technology**
- Composites provide enhanced mechanical and physical properties and offer promising solutions as a lighter and inexpensive yet strong building material.
- NASA has recently explored the use of composites for aerospace applications through projects like the Composite Crew Model.

**Partnership**
- To help develop manufacturing techniques, Langley partnered with Accudyne through the Small Business Innovation Research (SBIR) program.
- Accudyne applied its expertise to create a reshapable, reprocessable thermoplastic tape laydown head, and is currently engaged in a Small Business Technology Transfer (STTR) project to improve its properties.

**Benefits**
- Accudyne services autoclave-cured thermoset materials, which are still the industry standard.
- Its automated solutions enable higher quality manufacturing at lower costs.
- An Accudyne-built machine is currently available at Langley to develop a database of processes and parts made from thermoplastics.