

Custom Machines Advance Composite Manufacturing



Langley Research Center

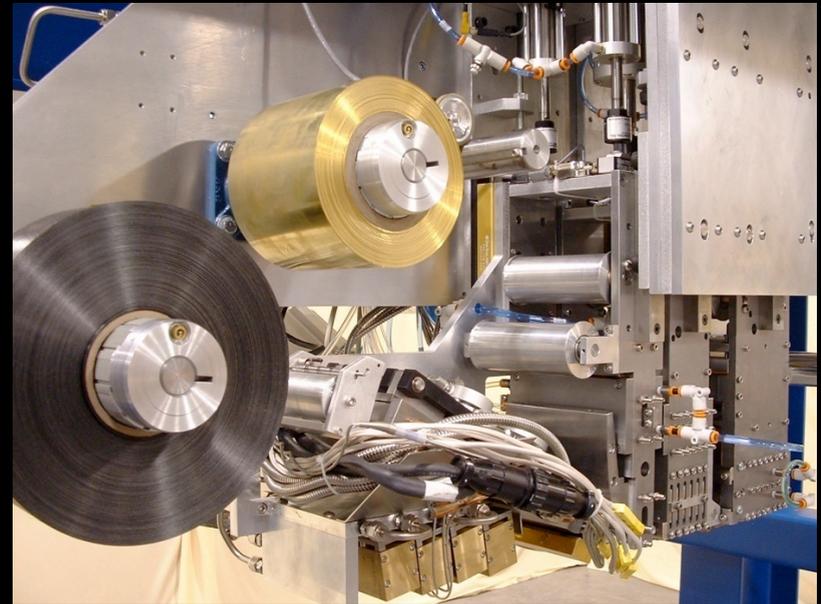
**Accudyne Systems Inc.
Newark, Delaware**

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, reprocessible 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