

PROTOTYPING FLIES TO NEW HEIGHTS WITH LOCTITE RESINS



Our service bureau partners at **TriMech** are bringing 3D Printing to the skies. In a recent project, TriMech worked with **ScaleBirds**, a southeastern Connecticut company that specializes in creating replica, retro, and radial-engine powered aircraft.

ScaleBirds needed an authentic reproduction of an iconic 1940's joystick grip for their P-36 LiteFighter aircraft. Using a combination of **LOCTITE IND406 Black** and **LOCTITE 3D 3843 White**, TriMech was able to create parts that meet all the design and functionality requirements.

Temperature Resistance

The interior of a sealed cockpit can reach up to 50 degrees Celsius on hot days, making temperature resistance a key consideration. With a temperature resistance of up to 100 degrees Celsius, **LOCTITE IND406** was used for the body of the joystick grip.

Multicomponent Device

LOCTITE 3D 3843 White was used to create the trigger assembly of the joystick grip to provide a distinct color differential. Additionally, this material provides exceptional durability, making it ideal for such a high-touch component.

High Dimensional Accuracy

Detail was critical to this application to create a digital replica that accurately reflects the original part. **LOCTITE IND406** offers the fine detail resolution needed to create the sharp diamond knurl texture, a process that would be incredibly costly using traditional manufacturing methods.



Developed in collaboration with



Plane photos provided by



To learn more about **LOCTITE IND406** and other materials in the **LOCTITE 3D Printing** portfolio, visit LoctiteAM.com or contact us at Loctite3DP@henkel.com

Connect with our partners at **TriMech** to get your prototypes printed with a fast turn-around at trimech.com