## LOCKHEED MARTIN SPACE SYSTEMS ADVANCES DEVELOPMENT OF 3D-PRINTING FOR CRITICAL PARTS with EBAM<sup>TM</sup>

Lockheed Martin was seeking innovative manufacturing solutions to print satellite parts that improve affordability & operational excellence for their customers. With Sciaky, they conducted research & development in 3D-printing of titanium propellant tanks that would meet the highest demands of performance for satellite deployment.

Customers love to see [this] data because it builds confidence

> Slade Gardner, Fellow @ LM Space Systems

Re: Lockheed Martin additive tank tested to 25% greater pressure than nominal and burst pressure occurred more than twice nominal pressure.

## CHALLENGE

maintain repeatability, accuracy & reliability

cut lead time

SOLUTION

R&D material studies

EBAM

Electron Beam Additive Manufacturing

> Interlayer Realtime Imaging & Sensing System

## RESULTS

80% time reduction to manufacture a tank

> 55% less cost

75% reduction in waste

