

DELIVERING  
**IMPROVED PERFORMANCE**  
WITH **POLYKETONE COMPOSITE PARTS**

# LEADING-EDGE PART SOLUTIONS FOR COMMERCIAL AEROSPACE

TxV Aerospace Composites, part of Victrex plc, manufactures polyketone composite parts and assemblies for commercial aerospace applications. We combine world-class expertise in materials and manufacturing to deliver composite parts at the pace, rate and scale needed by the industry. Our part offering includes custom laminates and inserts, finished composite parts, and complete over-molded hybrid composite components and assemblies.

## TXV CAPABILITIES

- ▲ TxV is an **established Center of Excellence** for **composite part design and manufacturing**
- ▲ Leveraging contributions from its founding members, TxV offers Polyketone **material and processing expertise**
- ▲ Within an **APQP framework**, TxV offers best-in-class design & development, qualification support, and commercial manufacturing in one location
- ▲ Focused on delivering **weight and cost savings** on an accelerated timeline

# BENEFITS OF OVERMOLDED POLYKETONE COMPOSITES



**Cost reductions**



**Design freedom**



**Weight savings**



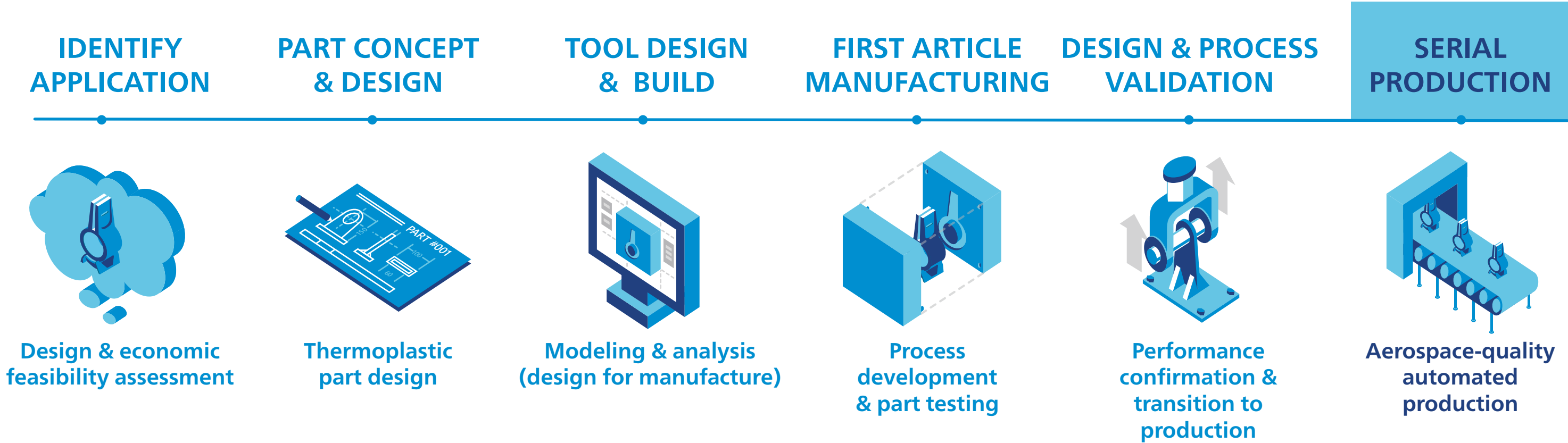
**Part count consolidation**



**Process optimization**

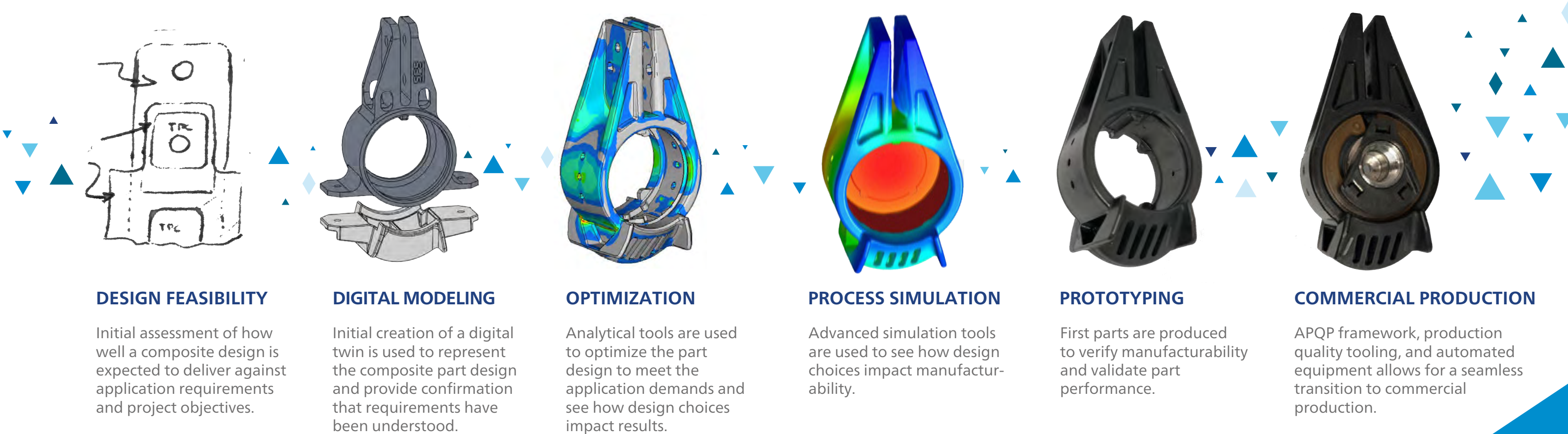


**Customized properties**



# COLLABORATIVE AIRCRAFT COMPOSITE DESIGN

Enhance the design and boost the efficiency of new composite components and the redesign of existing parts with polyketone (PAEK) composites from TxV. Our aircraft composite design includes a stage-gated development process that de-risks your project and accelerates your timeline – giving you a competitive edge.



OPTIMIZED FOR  
MANUFACTURE

# INNOVATIVE COMPOSITE MANUFACTURING

TxV combines its engineering and manufacturing expertise with the strength and proven performance of fiber reinforced polyketone polymers. We use our innovative capabilities to deliver parts at rate, meet application demands while reducing weight and cost.

## PURPOSE-BUILT MANUFACTURING



### AUTOMATED TAPE LAYING

- High production speed
- Near-net-shapes produced with variable thickness
- Tailored properties available from multi-material and width tapes



### CONSOLIDATION

- Custom high-rate production cell
- Precision controls ensures aerospace quality laminates
- Meets or exceeds OEM control and rate requirements



### FORMING

- Proprietary stamp forming cell
- Rapid conversion of laminates to finished part geometries
- Automation drives repeatable and consistent part production



### CUTTING & MACHINING

- High speed water-jet cutting
- Multi-axis machining



### INJECTION MOLDING

- Enables the manufacturing of hybrid overmolded composite parts
- Optimized for manufacturing with VICTREX™ PEEK polymer

## AEROSPACE QUALITY

TxV Aero Composites has received AS9100 certification for our quality management system. Meeting the requirements of these globally adopted benchmarks demonstrates a commitment to producing composite parts of the highest quality for the commercial aerospace industry.



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# START YOUR PROJECT TODAY!

## TxV Aero Composites

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