



INDUSTRY



# Aerospace & Defense, Aviation

Pilot Your Operations Through Turbulence with Speed, Flexibility, and Responsiveness

## Does your organization struggle with:

- Quality issues
- Supplier delivery performance
- Labor costs exceeding plans, or unavailability of labor
- Excessive rework caused by inadequate initial quality
- Production bottlenecks, poor or nonexistent flow
- Ramping up production for new programs
- Poor problem-solving capability

## Leverage TBM's deep expertise in Aerospace & Defense manufacturing:

- Increase capacity
- Improve quality
- Reduce costs
- Accelerate adoption of proven lean methods
- Improve on-time delivery
- Strengthen supply chain management
- Guide your people through the change journey and equip them for high performance

## Drive dramatic improvements in operational speed, flexibility and responsiveness.

From regulatory compliance to supply chain disruptions, we provide specialized solutions to help you achieve your strategic goals. By enhancing quality management, speeding up product development, optimizing assets, reducing costs, and improving delivery, we ensure efficiency and competitiveness, allowing you to focus on innovation and leadership in the sector.

## Our aerospace and defense focus areas:

**Quality Improvement:** Using the DMAIC framework, we systematically eliminate defects, improving yield and efficiency. By applying Statistical Process Control (SPC), we ensure testing accuracy and process control, while our QMS design incorporates lean principles, fostering continuous improvement and adherence to the highest industry standards.

**Engineering & Product Development:** We streamline development by leveraging lean product design processes, Design for Manufacturability (DFM), and Value Engineering (VA/VE). This cuts time and costs while improving quality. We also implement rigorous testing and validation to catch and resolve issues early, accelerating your time to market.

**Facility & Asset Management:** We help you implement comprehensive maintenance programs that transition from reactive to preventive and, ultimately, to predictive maintenance. Our services include MRO spare parts analysis, equipment lifecycle planning, and maintenance leadership development, along with optimizing facility layout and OEE.

**Cost Out:** We focus on improving labor productivity and managing costs through strategic enhancements in workforce skills and efficiency. We emphasize smart material utilization and capital avoidance to ensure your resources are used optimally.

**Delivery Performance:** We improve workplace organization and inventory management to meet commitments and reduce turnaround times. By applying lean practices and optimizing the supply chain, we ensure smooth ramp-ups and consistent on-time deliveries.

**Lean Management System:** We implement lean transformations to eliminate waste, optimize workflow, and boost productivity, achieving up to 15% performance gains through continuous improvement and strong leadership.

### AIRCRAFT ENGINES

#### Reduced Conversion Costs and Inventory with 100% Delivery for Critical Part

- 45% reduction in inventory; established target and max acceptable quantities at each process step
- 100% delivery-to-requirement of the critical part
- Consistent daily flow of materials with lead times stabilized
- Conversion costs reduced with overtime virtually eliminated, overproduction crisis mode eliminated, and reduced time and complexity for internal and external logistics

### ADVANCED COMPOSITES & CARBON FIBERS

#### Increased Capacity, On-Time Delivery and Customer Satisfaction

- PE-backed owners wanted to ensure that the company was able to support growth plans; leaders needed to significantly improve throughput, overhead absorption and delivery
- On-time delivery improved from mid 60% to 90%
- Significantly improved response times for quotations
- Pre-shipment lab time for thermoset product reduced by 45%
- Thermoplastic recreel output boosted by 45' per day
- Thermoset coater changeover (a frequent bottleneck) improvements boosted output by 25% —reduced overtime and created capacity
- Mix room improvement reduced cycle time for high-volume products and boosted output of the thermoset coater and its downstream process

### DEFENSE CONTRACTOR

#### Manage Hours Per Unit, Reduced Overall Systems Costs, and Improved Process Accountability

- 180% improvement in hours per unit opportunity achieved; the goal was to identify at least 195 hours/unit, and the team achieved 342 hours/unit
- \$1MM + in cost reduction opportunity identified
- Embedded improved variance-to-target tracking system to better identify, prioritize and sustain improvements
- Improved ability to satisfy on-time delivery and meet budgetary commitments

Our Extensive List of  
Aerospace & Defense,  
and Aviation  
Clients Includes:

**BAE SYSTEMS**

**CARLISLE**  
INTERCONNECT TECHNOLOGIES

**BOEING**

**Honeywell**  
Aerospace

**CIRCOR**  
AEROSPACE & DEFENSE

**GKN** AEROSPACE

**TENCATE**  
ADVANCED COMPOSITES  
Toray Group

**BOMBARDIER**  
LEARJET

**Pratt & Whitney**  
A United Technologies Company

**Triumph Group, Inc.**

## Speed wins every time.

TBM specializes in operations and supply chain consulting for manufacturers and distributors. We accelerate operational performance to make you more agile and help you accelerate business performance 3–5x faster than your peers.

