



INDUSTRY



# Aerospace & Defense

Creating Operational Agility for Prime Contractors, OEMS and Tier Suppliers

## 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 to:

- 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.

We move the needle on business performance quickly. Our seasoned operational consultants dive deep to rapidly assess your operational challenges and go right to work partnering with your team at the point of impact to implement positive changes that build capability.

Many of our consultants have direct career experience in aerospace and defense (A&D) and they have worked with numerous A&D clients. Our senior management consultants have 25+ years of hands on experience in C-suite, operational leadership or continuous improvement roles.

## Our aerospace and defense focus areas:

**Lean Execution:** Advance the adoption of the LeanSigma® methodology as an enabler for low volume, high-mix production environments with extreme quality requirements.

**Cost Out:** Identify and address cost drivers that can be impacted by improved process, technology, and behaviors.

**QualityImprovement:** Embed problem solving capability to address defects resulting in scrap and rework that consume production capacity and increase cost.

**DeliveryPerformance:** Meet customer demand by growing capacity, reducing defects, and smoothing production flow.

**Supplier Management:** Improve supplier quality, lead time and delivery performance with supplier assessments and targeted operational improvements.

**Facility & Asset Management:** Planning and project management for facility relocation, design, layout optimization, and production moves for greenfield or brownfield projects.

**Engineering and Product Development:** Streamline ECN processes, implement lean product development, VA/VE, and assess manufacturing readiness (DOD MRL).

**Management System:** Instill the combination of tools and behaviors to lead and sustain performance improvement.

## TBM consultants help improve performance in aerospace and defense industries making products such as:

- Combat vehicles, weapons systems, ordnance components
- Civil and military aircraft, fixed and rotary wing, spacecraft
- Electronic and optical systems –boards, components, modules, assemblies
- Fabricated components and assemblies for aerostructures, power, and control systems made with composites, cast, forged, and machined parts
- Power systems, engines, motors across the spectrum of size and application
- Fluid control and electrical transmission systems

### Aerospace & Defense Results

#### AIRCRAFT ENGINES

##### Reduced Conversion Costs and Inventory with 100% Delivery for a 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

##### Global Manufacturer Substantially Increases 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

#### AIRCRAFT WIRING HARNESS & ENTERTAINMENT SYSTEMS

##### Improved Revision Rollout Execution; Improved Ability to Meet Customer-Driven Requests

- Created a rev roll team; stabilized process with 33% fewer resources
- Created a rev roll function, reorganized work areas and established metrics
- 75%+ reduction in lead time to execute the process

Our Extensive List of Aerospace and Defense Clients Includes:

**BAE SYSTEMS**

**CARLISLE**  
INTERCONNECT TECHNOLOGIES

**BOEING**

**Honeywell**  
Aerospace

**CIRCOR**  
AEROSPACE & DEFENSE

**GKN** GKN AEROSPACE

**TENCATE**



**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.



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