

Transtecs Aerospace Systems Division



TRANSTEC'S AEROSPACE & DEFENSE – MANUFACTURING SOLUTIONS

Transtecs is a small business providing integrated aerospace structures (design, engineering, manufacturing) from the ground up. At Transtecs, we provide a unique combination of component integration, full product, life-cycle capabilities, global supplier management, technology development in accordance with ISO standards and lean manufacturing principles. Our solution set also supports engineering and design modification (for component and assembly manufacturing) for aging aircraft platforms; Transtecs can support vanishing legacy component manufacturing.

CAPABILITY OVERVIEW

Transtecs Corporation provides a comprehensive suite of engineering and professional services that support customers in the Government and commercial industry. With more than 400 employees and 20 field offices nationwide, Transtecs utilizes its deep domain understanding to deliver proven aerospace and engineering services that support customers such as Boeing, Northrop Grumman, Bombardier Aerospace, DoD, the U.S. Navy and Federal customers.

SECURITY & FACILITY CLEARANCE

Transtecs has current Defense Security Services (DSS) Facility Clearance at the TOP SECRET (TS/SCI) LEVEL, including NATO TOP SECRET/SCI for receipt, use, storage of classified information. Transtecs is also certified by the U.S./Canada joint Certification Office, Defense Logistics Service Center. The certification is to receive, generate, use and store Government Critical Technical Data.



DESIGN CAPABILITES

Transtecs manufactures integrated aerostructures and designs products that perform to specification and are affordable for our customers.

We are proficient in CATIA, Unigraphics II, and CCD (CAD/CAM) design and analysis software. We also have experience in product data definition translation that gives us the ability to support our customers using other computer aided design software packages.

Productivity is factored into design approach. We use digital mockup tools to validate the "manufacturability" of key components before the parts are made. This lowers cost, improves productivity and increases manufacturing capacity.

Transtecs is fully capable in a wide variety of functions, which include:

- ▶ Structural Design
- ▶ Stress Analysis
- ▶ Factory Support
- ▶ Product Support
- ▶ Systems Installation Design

RESEARCH & DEVELOPMENT

Transtecs engineers solve complex aerospace problems during rigorous research and development programs. When an industry partner comes to us with a challenge, we respond with a solution. Some successful products of our continual research and development include:

- ▶ Advanced Material Empennages
- ▶ Damage-resistant Leading Edges

FABRICATION CAPABILITES

Transtecs offers fabrication facilities, and has the capability to produce structural aircraft components from any design medium through subassembly and kitting. Our TS cleared facility utilizes innovative manufacturing processes to continue our legacy of producing high-quality, dependable and economical aerostructures.

FABRICATION CAPABILITES (cont.)

Transtecs lowers our customers' outsourcing risks by providing strategic sourcing based on best value and schedule requirements. As part of our comprehensive sourcing capability, we provide the following production operations:

- ▶ Machining operations
- ▶ Subassembly operations
- ▶ Engineering support operations

Transtecs works with exotic (Titanium, Aluminum, Steel) and Mil Spec Metals

ASSEMBLY CAPABILITES

Transtecs offers advanced manufacturing capabilities in Wichita, KS, a U.S. epicenter for world-class aerospace manufacturing. Transtecs key assembly processes include:

- ▶ Tabletop assembly
- ▶ Complex assembly
- ▶ Kitting
- ▶ Structural assembly
- ▶ Jig assembly

INTEGRATION CAPABILITES

Transtecs partners with major commercial and military aircraft manufacturing teams. Throughout the development process, we work to meet each customer's distinct set of requirements. In manufacturing, our efforts are focused on delivery quality and competitively priced structures with exceptional performance and reliability.

With Transtecs as a partner, our customers achieve a competitive advantage by:

- ▶ Focusing on selling and delivering airplanes to meet their customers decreasing product development risk
- ▶ Reducing infrastructure, product development lead time, production flow-time and inventory
- ▶ Lowering nonrecurring investment
- ▶ Reacting/adapting to market changes

Our capabilities allow us to progressively move up the value chain—assuming a greater work scope for our partners.



ISO 9001: 2000
AS9100: 2004, Rev B



MANUFACTURING RESOURCE PLANNING (MRP)

Transtecs' Manufacturing Resource Planning (MRP) and Enterprise Resource Planning (ERP) system, E2 and ACCPAC, enables us to meet the continuing challenges of both domestic and global growth cost, quality and response time. By accessing information from various locations in one system, Transtecs has been able to reduce both internal and external inefficiencies.

Transtecs' MRP and ERP system manages our entire order cycle: from quoting and sales through production and planning, sourcing and procurement and financial accountability. Built on a 100% service-oriented architecture (SOA), E2 and ACCPAC allows continuous performance initiatives, real-time connectivity between supply-chain applications and partners, and greater business agility. MRP benefits:

- ▶ Limit excess inventory
- ▶ Manage labor\reduce scrap & defects
- ▶ Streamline quote-order-job shipment life-cycle

SYSTEMS ENGINEERING

Transtecs offers a standardized, quality process for systems engineering and integration at each phase of the acquisitions, management and systems development lifecycle. Our approach is a structured and disciplined process founded on Government and industry standards, best practices, and methodologies.

Our Systems Engineering Capabilities include:

- ▶ Quick turn, economical production and prototyping
- ▶ Technology insertion
- ▶ Reliability, Availability and Maintainability (RAM)

LOGISTICS AND INSTALLATION SERVICES

Transtecs Integrated Logistics Support (ILS) team is the "one stop life cycle group" for new requirements and emerging needs of the military and industrial community.

Our ILS capabilities include:

- ▶ A customer-centric approach, incorporating ILS requirements as defined by customers, we offer the following services:
 - Logistics support analysis
 - Logistics support analysis record
 - Level of repair analysis
 - Maintenance planning
 - Testing regimen development
 - Support equipment forecasting
 - Packaging, handling, storage
 - Facilities analysis
 - Documentation and technical writing
 - Depot storage and equipment
 - Life Cycle cost analysis and funding
 - Material fielding planning
 - Supply chain forecasting
 - Disposal and environmental concerns

BASE AND FACILITY OPERATION CAPABILITIES

Transtecs strategy includes implementing management control structures to Federal government installation and facilities operations, through governance control boards as well as the tactical workforce level controls. Transtecs' Earned Value Management (EVM) and ISO quality systems is developed to actively manage and measure operations and scope plans, recommend appropriate services and projects to support plan execution, monitor workforce and subcontractor performance and cost, and provide our customers visibility into program support status:

Our services include buildings and structures maintenance, and:

- ▶ Education and training support service
- ▶ Base operations support services
- ▶ Airfield management
- ▶ Base supply, storage, warehouse functions
- ▶ Base mailroom and mail distribution

TRANSTEC'S QUALITY

Transtecs embraces Government and industry sponsored initiatives to transform the U.S. aerospace industry into a flexible, rapid-response, market-responsive international resource. Transtecs employs lean manufacturing principles. As an ISO certified company, Transtecs has made improvements in:

- ▶ Reducing span times
- ▶ Minimizing resource requirements
- ▶ Decreasing work in progress/inventory
- ▶ Improving cycle/flow times
- ▶ Enhancing product quality
- ▶ Eliminating queues and hand-offs

Transtecs maintains exceptional quality ratings with all of our partners.

TRANSTEC'S AEROSPACE SYSTEMS DIVISION FACTS

FACILITY

15,000 sq. ft. climate controlled facility with an additional 5,000 feet ready for build-out
Current open capacity is 10,000 hours
Transtecs uses E2 ERP software

FINANCIAL

Both the Aerospace and Government segments are financially sound
Transtecs is a conservative, fiscally responsible company with minimal drag on financial performance

GEOGRAPHICAL ADVANTAGE

Aerospace manufacturing hub (Wichita, KS)
Dedicated skilled workforce
Resource advantages because of hub

ONSITE CAPABILITIES

Tool and fixture design
Coordinate Measuring Machine (CMM)- programmable
CNC machine tool programming (Mastercam)
3D solid modeling and design and translation

QUALITY CERTIFICATIONS

ISO 9000: 2001
AS9100: 2004, Rev B
MIL-I-45208
MIL-I-45662A

QUOTE RESPONSE TIME\RFP

Normally within allotted time
Expedite within 24 hrs
ID\IQ Task Order Bid Engine

SOCIO-ECONOMIC CATEGORIES

Minority\Women Owned Business
MBE, NMBCC

SPECIALIZATIONS

Machine hard metals (exotics) and high temperature Alloys (castings & forgings)
Kitting and small table top assemblies
Turnkey manufacturing and assembly

TRANSTEC'S KEY PLATFORMS

- ▶ Boeing
- 737NG, 777, 747-800, 787
- ▶ Gulfstream (New)
- G650, G250 Wing modification program
- ▶ Honda Jet (New)
- ▶ Boeing (St. Louis, Military)
- Phantom Works (TOP SECRET) program, F-16 Program
- ▶ Cessna
- CJ3, CJ4, Sovereign programs
- ▶ TIER II
- Lockheed Martin F-22, F-35, C-130
- Northrop Grumman F-18

WHO TRUSTS US

NORTHROP GRUMMAN



Sikorsky

A United Technologies Company

**BOMBARDIER
AEROSPACE**



BAE SYSTEMS



Gulfstream
A GENERAL DYNAMICS COMPANY



LOCKHEED MARTIN



Hawker Beechcraft



ISO 9001: 2000
AS9100: 2004, Rev B



Transtecs Corporation
Engineering & Management Services