Product Delivery
Your path to on-time, on-budget performance, and improved profitability
In-depth industrial design and engineering knowledge, innovative technology, and agile implementation

With solid foundations and proven success in OEM, MRO/Repair, and Aftermarket Parts environments, and unsurpassed engineering and technology capabilities, ThoughtFocus serves as a premier product and service development partner for companies across the commercial and military aviation and aerospace spectrum.

Speed, technical know-how, and agility to meet market needs and expand your business.

Leverage our broad range of engineering resources, talent, and support for product design, reverse engineering, software development, flexible manufacturing, testing, certification, 3PL, services, and more to scale your business, enhance your product build capabilities, improve on-time performance and quality, get to market faster, and deliver high reliability products vital to your customers and worthy of your company’s name.

Comprehensive product lifecycle engineering, development, support, repair, and replacement services -- from concept to aftermarket, from legacy offerings to new products and services

Product engineering and design

With an emphasis on concept and design development, validation, analysis, and certification:

Our engineering and technology services
Manufacturing production

Focusing on complete production management and support of new and replacement and reverse-engineered products

- Product design analysis and validation
- Manufacturing engineering support
- Work plans development
- Tooling design for new production
- 1st Article inspection for original-new and new-replacement parts
- Production capacity analysis
- Production floor management and support
- Test fixtures, quality test, and inspection
- Continuing compliance and certification

Supply chain support

Enhancing warehousing, fulfilment, and distribution through greater efficiencies and cost awareness

- Process design – SCOR model
- Supply management and asset value protection
- Vendor sourcing and supplier management
- Bid preparation and analysis
- Supplier quality certification and compliance
- Procurement planning and operations
- Fulfilment workflow analysis and support
- Delivery analysis and assurance
- Trade compliance – HTS classification, export license management

Aftermarket parts repair, replacement, qualification, warehousing, and supply

Targeting vital aftersales customer support, parts lifecycle management, and asset value optimization

- Service lifecycle management: MSG-3, reliability
- Technical publication and documentation management
- Warranty management
- MRO and repair service operations overhaul and support
- Repair management
- Service parts and distribution planning
- Inventory warehousing and fulfilment
- Call center, tech support, and customer care services
- STC certifications
- Teardown and parts harvesting, management, and sales
- Aftermarket PMA/DER repair

Technology and talent sourcing

Working with, for, and on our client’s behalf

- Technical staffing lead management
- Talent recruiting
- New hire vetting
- Professional support staffing; onshore and offshore, all engineering disciplines
- Contract employee sourcing and management
Our unique advantages save you time and lower your costs

When budget, resource or time constraints prevent you from capitalizing on new opportunities or maximizing current business, ThoughtFocus affords you the speed, scale, technical know-how, and on-demand capability to meet market needs and expand your business.

We work alongside you to design, build, and certify superior parts, systems, and solutions for you or your customers – at a fraction of the price and a faster time to market – offering unsurpassed quality and a cost basis that assures your competitive position in the parts supply ecosystem.

ThoughtFocus offers a globally integrated technology laboratory and development service boasting the latest advances in original-new and new-replacement product software, hardware, and testing. Whether you are an OEM or an aftermarket parts organization, ThoughtFocus can augment your team.

Take advantage of our low-cost, off-shore engineering, design, inspection, and documentation to improve reliability, scale your aftermarket business operations, and speed up your turnaround. Better products, better results, better ROI.

Deep industrial engineering design, development, and production expertise

- Mechanical structures
- Interiors
- Inflight entertainment systems
- Airframe
- Hydraulics and pneumatics
- Electronics and electrical systems
- Avionics
- Engines and props

Fueling operational excellence and unparalleled business value

Our technical abilities in precision parts design and manufacturing are second to none, and our emphasis on cost-conscious solutions assures your competitiveness.

In OEM, MRO, and the aftermarket parts arena we understand properly designed and implemented product delivery and support strategies are essential to managing costs and growing your business.

“Optimize manufacturing, inspection, and testing; improve supply chain processes and enhance the quality and useful life of parts, components, and assemblies.”
A range of services and capabilities for product and service lifecycle management

From design, certification, and manufacturing to testing, modification, and final disposal, our teams deliver with speed, scalability, and agility--assisting you and your network in achieving results that are on-time, under-budget, and beyond comparison.

Hands-on thorough leadership, broad talent base, and implementation expertise.

From the design and manufacture of parts to the installation process, ThoughtFocus supports you every step of the way with:

- Program and account management
- Ongoing process analysis and refinement
- Technical staffing support in all aviation engineering disciplines

ThoughtFocus stands ready to advise, lead or support your product development effort in whatever way necessary.

From avionics to aircraft structures, through power plant and electrical and electronic systems, including pneumatic and hydraulic systems, interior and inflight entertainment design, ThoughtFocus offers complete, nose-to-tail product engineering, design, manufacturing, testing, certification, and delivery including:

- Industrial engineering
- Reverse engineering
- Software development, testing, verification, and certification
- Hardware design
- Human-machine interface
- GUI prototyping, modelling, simulation, testing, and verification
- Manufacturing

Our sophisticated engineering capabilities and tools include:

- Computational dynamics
- Detailed analyses: statistical, thermal, structural, frequency, finite elements
- Drawings and blueprinting
- Industrial engineering time studies
- Manufacturing layout and design
- 3D modelling and printing of mechanical components
- Serialized parts planning
- Broad-based simulation capabilities

Unique, globally available 1st Article and production-run inspection capability, featuring Computer-Aided Inspection, and Smart Inspection Station™ 3D scanning from Level 3 Inspection:

- 1st Article Inspection for new and used/refurbished parts
- In-line production run inspection for ongoing manufacturing QA
- High-accuracy 3D scanning for modelling and 3D printing

Expert technical publication and documentation services, produced and delivered worldwide via a joint initiative with ALTHOM GmbH, offers a rapid-response, affordable, and offshore alternative for regulatory and mission compliant documentation, such as:

- Maintenance and repair manuals
- Flight and cabin crew operator manuals
- Aircraft schematics and wiring diagrams and manuals
- Illustrated parts documents, manuals, and catalogues
Experience
Supporting aviation and aerospace with advanced engineering design, manufacturing, and compliance testing of new and upgraded parts. For product line expansion, new market initiatives, and better, more cost-effective business process management.

Business Partner
- A valued business partner to aviation businesses around the globe, ThoughtFocus assists partners in lowering costs, scaling growth, and improving time to market.
- An integral part of our clients’ solutions delivery team, we form strong relationships with their management, manufacturers, and suppliers; ensuring complete transparency and tight alignment between teams and executive priorities.

Product delivery experts
- We offer a global footprint with domestic and offshore capabilities and facilities for industrial engineering, software development, and hardware design and manufacturing. Customers leverage these capabilities to extend their product and service lines, optimize costs, tap additional expert resources, and adapt to a fluid global industry.
- We offer customers the flexibility to scale operations to seize market opportunities, while enhancing, and sustaining existing product lines.

About us

About ThoughtFocus
ThoughtFocus is a privately held technology and services company serving middle market to large enterprise clients in Professional Services, Manufacturing, Financial Services, Higher Education and Aerospace. Clients look to ThoughtFocus for innovative solutions in product engineering, knowledge process outsourcing, and digital transformation. The company has a global spread and is one of the fastest growing technology services companies. ThoughtFocus is a technology partner and portfolio investment company of Blackstone, a leading private equity firm.

ThoughtFocus has its US offices in New York City, Milwaukee, Atlanta, Dallas and Irvine with delivery centers in India at Bengaluru, Mysuru, Gurgaon, Hyderabad and in the Philippines at Baguio City.