



SIMULATOR PRODUCT CATALOG



ASFAN



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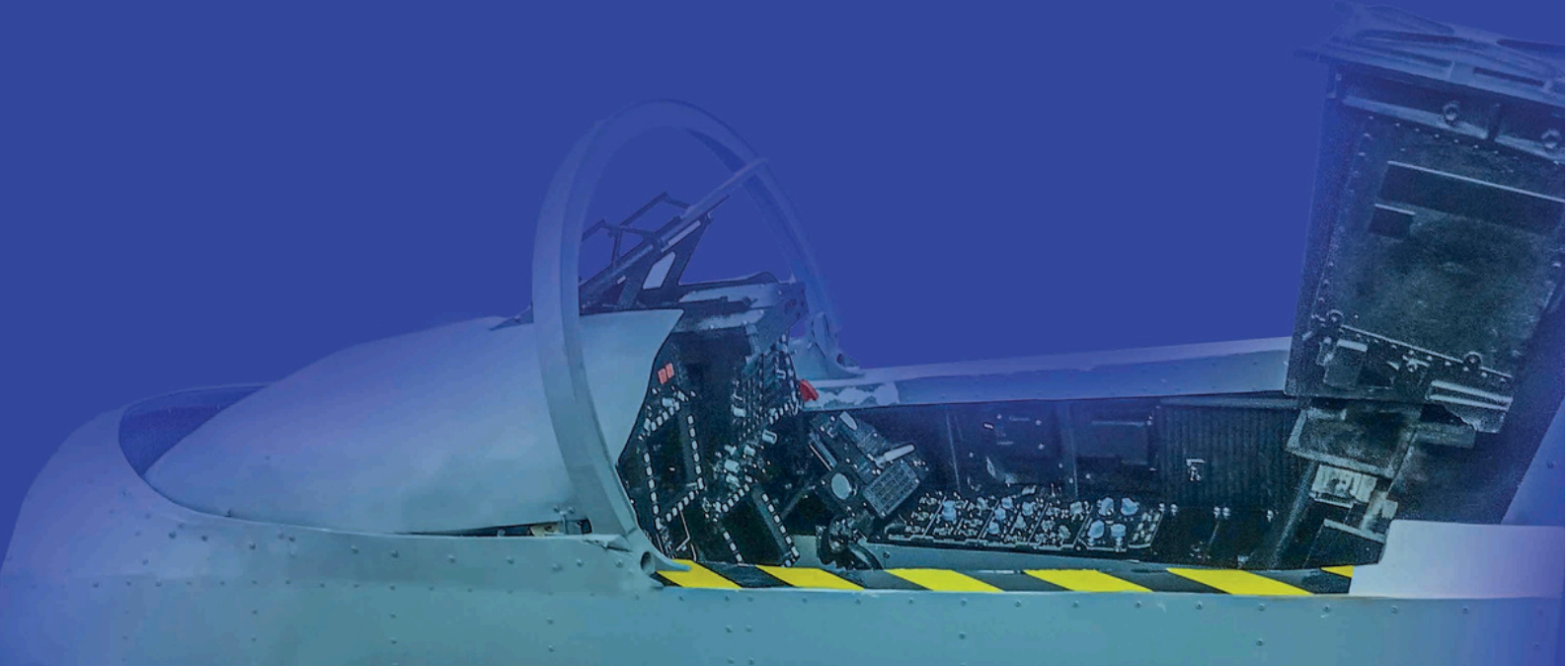


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INTRODUCTION

Welcome to the Asfan – Flight Simulation Catalog

We are proud to present a new generation of flight simulators engineered for realism, precision, and reliability. At Asfan, our mission is to design and manufacture high-fidelity simulation systems that meet the needs of flight academies, training centers, and aviation professionals worldwide. Innovation and quality are at the core of everything we create. Each simulator is carefully crafted and tested to ensure true-to-life performance and long-term dependability. We invite you to explore this catalog and discover how our technology bridges imagination and reality in modern flight simulation.



INTRO

About Us

ASfan is a Jordan-based leader in simulation technologies, specializing in advanced training solutions since 2017. With a strong presence across the Middle East, we deliver high-quality simulation systems of all kinds—from physical training devices to fully immersive VR experiences.

Catalog Highlights

Explore our latest range of flight simulators — from full-motion training systems to fixed-base cockpit trainers and modular avionics panels. Each product is designed for flexibility, realism, and durability, allowing aviation professionals to train in conditions that mirror actual flight operations. At Asfan, we don't just simulate flight — we bring it to life.

Company Overview

Asfan provides and supplies high-fidelity flight simulators that combine advanced electronics, precise mechanical engineering, and immersive visual technologies.

From concept to cockpit, every simulator we supply reflects a deep understanding of flight operations and modern training needs. Our systems are selected and delivered to meet the requirements of flight academies, defense programs, and individual pilots seeking ultra-realistic simulation experiences.

Our current lineup includes:

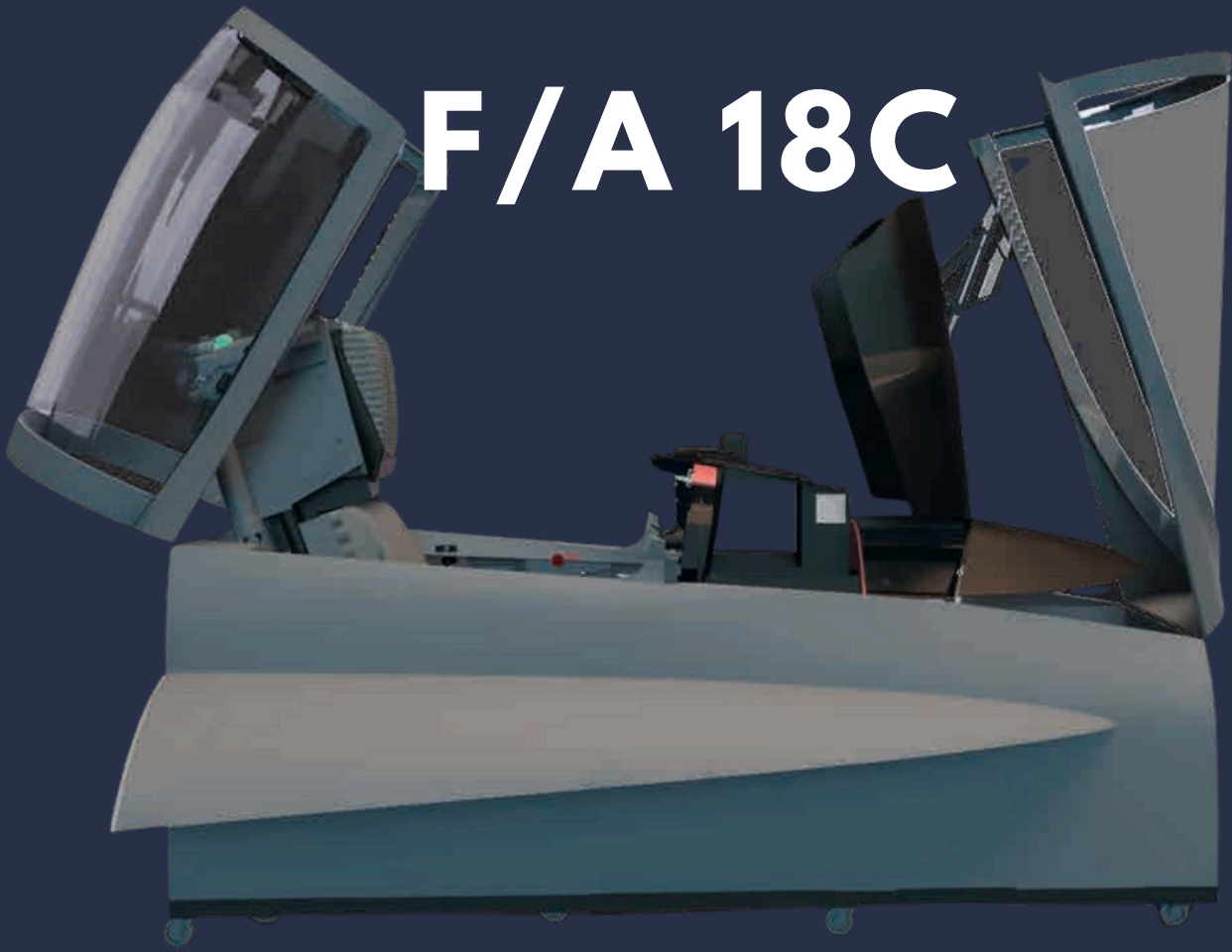
- F/A-18C Hornet Simulator — built for tactical flight training with full switch-mapped controls and advanced avionics replication.
- F-16C Viper Simulator — featuring a precise throttle, HOTAS system, and true-to-life cockpit ergonomics.
- Cessna 172 Trainer — designed for fundamental flight instruction and realistic general aviation practice.
- Boeing 777-300ER Simulator — a long-range operations trainer built to mirror commercial cockpit systems and procedures.

Each system is engineered using custom-built hardware, Arduino-based control logic, and modular architectures that ensure upgradeability and long-term reliability.

At Asfan, we don't just simulate flight — we replicate reality, crafting tools that prepare the next generation of pilots and aviation professionals for real-world excellence.



F/A 18C



F/A18-C Hornet Flight Simulator

The F/A18-C Hornet Flight Simulator by asfan represents the highest standard in tactical flight training systems. Developed with advanced engineering and state-of-the-art avionics integration, it delivers an exceptionally realistic and immersive flight experience that mirrors the performance of the real F/A18-C aircraft.

Design & Construction

Built with precision and durability in mind, the simulator features a full-scale cockpit enclosure that replicates the operational environment of the Hornet. Every instrument, switch, and display has been carefully engineered to provide true-to-life functionality and feedback. Its modular design allows effortless installation, maintenance, and upgrades, making it ideal for both permanent and mobile training setups.

Avionics & Systems

The simulator incorporates high-fidelity flight controls, a complete HOTAS system, and fully functional avionics panels synchronized with the digital flight environment. Visual systems deliver crisp, high-resolution graphics with smooth frame rates, while integrated audio and communication channels reproduce realistic cockpit acoustics and radio operations. Each subsystem is developed to meet professional training standards and ensure accurate performance in mission-based scenarios.

Avionics & Systems

Designed for flight academies, defense institutions, and professional pilots, this simulator enables users to practice flight operations, weapon systems management, and carrier landings with unmatched authenticity. Through precise control replication and advanced simulation software, it transforms virtual missions into realistic tactical experiences.

Precision • Realism • Performance

The ASFAN F/A18-C Hornet Simulator — engineered for professionals who train to





ACES II Ejection Seat

Replica ACES II seat delivering true pilot posture and immersive realism.



Left Controller

Ergonomic left-hand flight controller designed for precise maneuvering and throttle control.



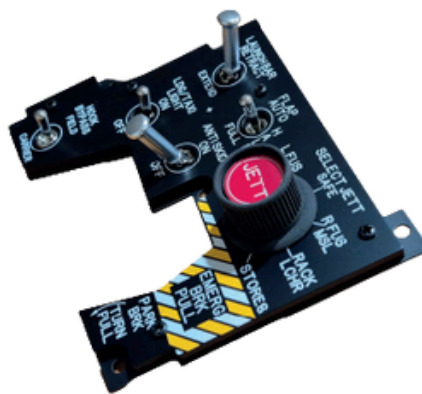
Right Controller

Right-hand stick controller built for responsive and accurate aircraft handling.



IFEI Display

Integrated Fuel and Engine Indicator , providing real-time data visualization and reliability.



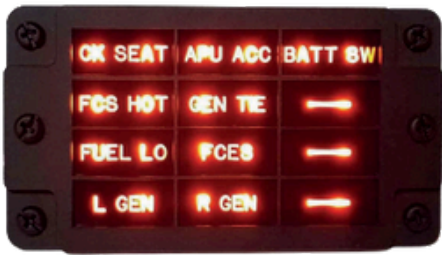
Light Brake Controller

Precision light-brake control module ensuring accurate aircraft ground operation simulation.



IR-Cool Controller

Infrared cooling system controller replica for sensor environment simulation.



Right Warning Panel

Illuminated warning panel for critical flight alerts and system status feedback.



ALR67- Controller

Radar warning receiver control unit providing realistic electronic warfare simulation.



Master Arm Controller

Master Arm unit enabling realistic weapon system arming and safety simulation.



KY58- Panel

Secure communication KY58- panel replica with full-function interface layout.



Right Panel (Printed)

High-precision right-side avionics panel for authentic flight control interaction.



Left Panel (Printed)

Detailed left-side control panel, featuring accurate switch layouts and realistic labeling.

F 16C 50/52



F16-C Block 52/50 Flight Simulator

The F16-C Flight Simulator delivers unmatched realism and precision for modern fighter pilot training.

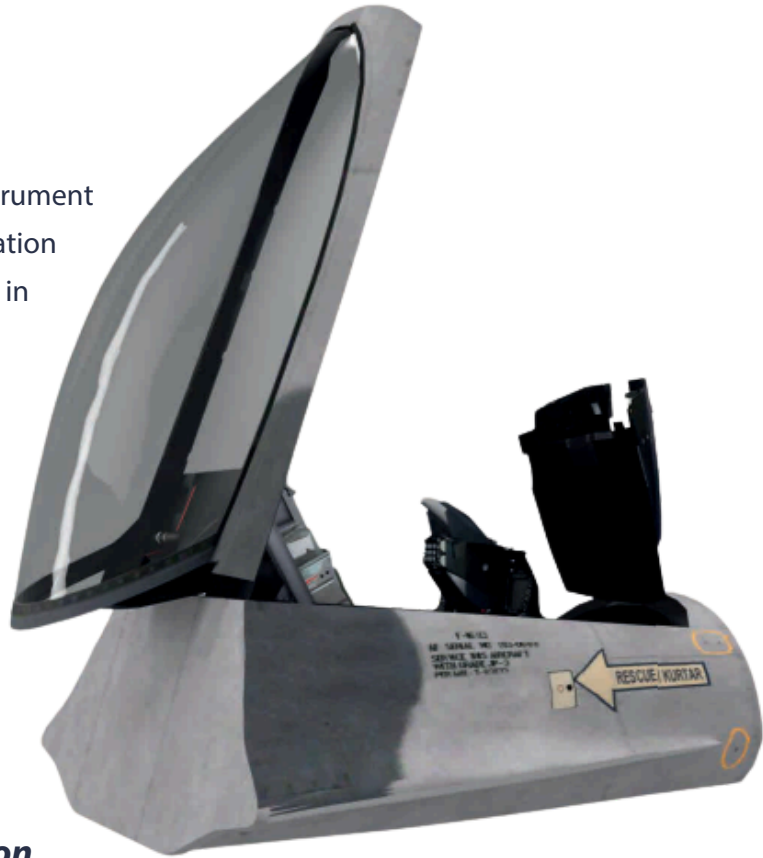
It authentically replicates the environment of the real F16-C Block 52/50, providing a comprehensive tactical and operational training platform.

Design & Construction

Built with accuracy and endurance, the simulator recreates the full-scale F16-C cockpit layout with every switch and instrument precisely positioned. Its modular structure allows fast installation and easy maintenance, ensuring reliability for long-term use in professional training facilities.

Avionics & Systems

Equipped with a complete HOTAS system, digital flight instruments, multifunctional displays, and realistic warning indicators, the simulator integrates seamlessly with modern flight software for a smooth and responsive experience. Advanced sound and visual systems reproduce authentic engine feedback, weapon deployment, and environmental effects, ensuring total immersion.



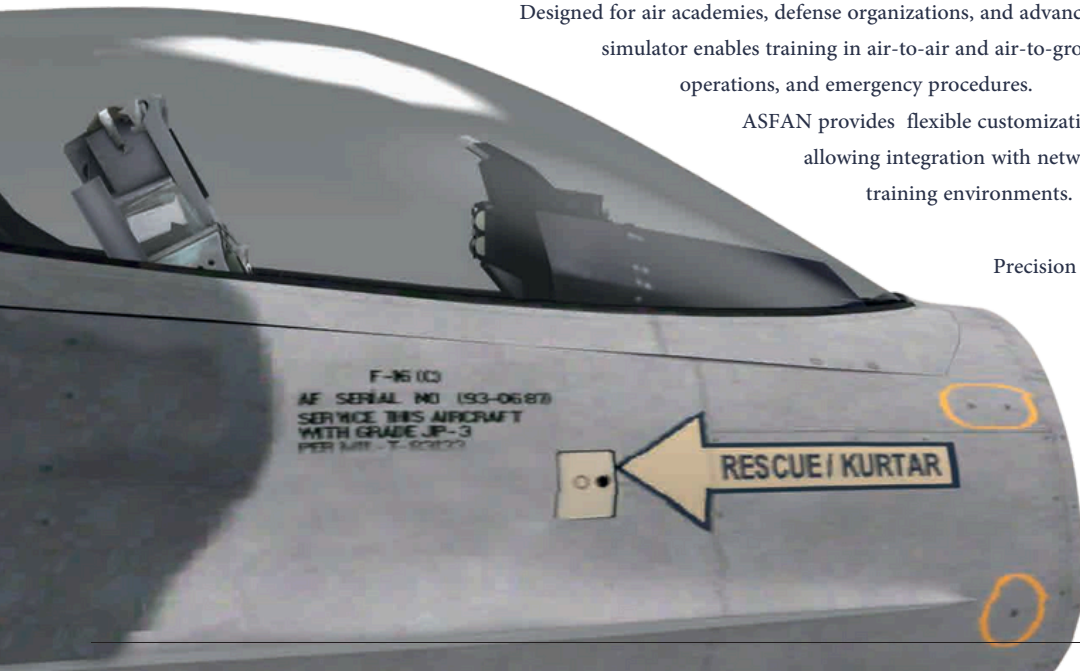
Training & Application

Designed for air academies, defense organizations, and advanced flight schools, this simulator enables training in air-to-air and air-to-ground missions, radar operations, and emergency procedures.

ASFAN provides flexible customization options, allowing integration with networked or VR-based training environments.

Precision • Realism • Control

F16-C Simulator — crafted for excellence in every mission.





ACES II Replica

ACES II seat delivering authentic pilot egress experience.



Side Stick Controller

side-stick controller mimics true F16- pilot interface.



Throttle Quadrant System

Throttle system for precise engine and aircraft power control



ICP (Integrated Control Panel)

Integrated Control Panel, central input hub for navigation and weapon systems.



Landing Controller

Landing control unit replicating landing gear and flight-phase systems.



FUEL QTY Controller

Fuel quantity controller for real-time fuel management simulation.



EC2

EC2 unit representing advanced electronic-counter system simulation.



MFD with monitor Falcon

Multi-Function Display Falcon showing real-time flight data



Right Warning Panel

Right-side warning panel delivering critical alert indications for trainer use.



INDICATORS Panel

Indicators panel displays system status lights and flight alerts.



ADVANCED THREAT DISPLAY (ATD)

ATD module visualizes complex threat scenarios and tactical displays.



DATA ENTRY DISPLAY (DED)

DED unit, pilot data input and system status display.



CMDS

CMDS (Counter-Measure Dispensing System) panel for defensive simulations.



Right Controller

Right-hand controller engineered for precise fighter aircraft handling.



HUD Box

HUD box projects flight, targeting and navigation data in pilot's view.



Misc Panel

Miscellaneous panel consolidating auxiliary cockpit functions and switches.



UHF Radio Stack

UHF radio stack for communication simulation in tactical training.



Start Panel

Start panel enables power-up and pre-flight startup simulation procedures.



RWR Azimuth Indicator

RWR azimuth indicator by QSTAR SIMTECH offers realistic radar-warning cueing in training.



TWA/TWP Panels

TWA/TWP panel pair by QSTAR SIMTECH enabling tactical weapon assignment simulation.



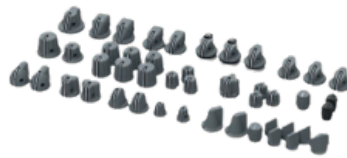
US Electronic Warfare System

US Electronic Warfare System by QSTAR SIMTECH for advanced threat detection and countermeasures.



Arm Rest

Pilot arm-rest module by QSTAR SIMTECH offering ergonomic support for combat simulations.



SIMPIT Knobs

SIMPIT knob set by QSTAR SIMTECH precision-crafted for fine cockpit adjustments.



Flare

Flare control by QSTAR SIMTECH enables realistic countermeasure deployment simulation.

CESSNA 172

Cessna 172 Flight Simulator

The Cessna 172 Simulator delivers realistic general aviation training for student and recreational pilots.

It reproduces the cockpit layout of the real aircraft, providing an accessible and safe environment for mastering basic flight skills.



Design & Construction

Compact, full-scale cockpit designed for comfort and realism, with accurate instrument placement and ergonomic seating.

Durable construction ensures long-term use in flight schools, academies, and private training facilities.

Avionics & Systems

Equipped with real-time flight instruments, navigation aids, and control panels mirroring the Cessna 172.

Integrated sound and visual systems provide immersive experience with clear engine feedback and environmental effects.

Training & Application

Ideal for flight schools, training centers, and hobbyist pilots, supporting instruction in take-off, navigation, landing, and emergency procedures.

Provides a safe, controlled environment to develop fundamental aviation skills before real flight training.

Safety • Realism • Learning

Cessna 172 Simulator — training made simple, safe, and effective





DIY radiostack

DIY radiostack for authentic communication training and cockpit integration.



DIY radiostack with GMA 345, GNS 530, GNS 430, AP, XPDR

Complete DIY radio stack with avionics for advanced GA training



G1000 Panel

G1000 avionics panel delivering realistic navigation and flight displays



Classic Panel

Classic cockpit panel replicating traditional Cessna 172 instruments



Yoke Thunbnail

Yoke thunbnail providing tactile, ergonomic pilot control



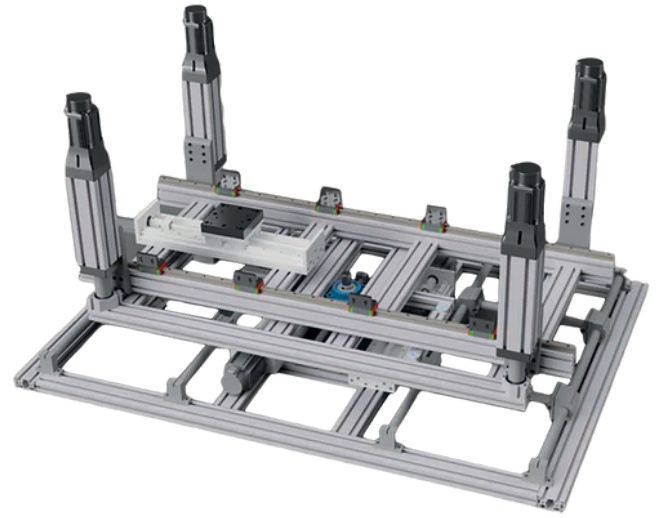
G1000 Side Panel

G1000 side panel for full system access and avionics simulation

GENERAL EQUIPMENT

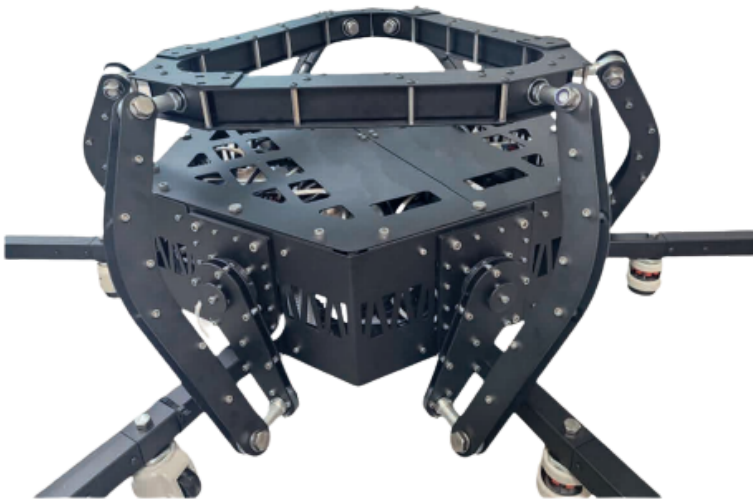
SimmetrikPlatform

The Simmetrik Platform is a fully engineered motion base designed for realistic flight simulation. Precision actuators and durable construction provide smooth, dynamic movement, replicating real aircraft responses for training and testing purposes. Every detail reflects asfan's commitment to innovation and pilot immersion.



Stewart Platform

The Stewart Platform delivers a high-fidelity six-degree-of-freedom motion system. Engineered for maximum stability and responsiveness, it replicates pitch, roll, and yaw with accurate flight dynamics. Designed for professional simulators, it enhances realism and pilot training efficiency.



Boeing 737 Thrust

The Boeing 737 Thrust Unit simulates engine throttle response with precision. Its ergonomic design allows realistic pilot interaction while integrating seamlessly with full-scale simulator cockpits. Ideal for airline training and procedural exercises, it demonstrates asfan's expertise in commercial flight simulation systems.



COMPREHENSIVE TECHNICAL SERVICES:

PROTECTING YOUR INVESTMENT

Acquiring a simulator through ASFAN is an investment in operational certainty—not just a hardware purchase. We understand that consistent performance is vital, especially in high-stakes military and commercial training environments. That’s why our Comprehensive Technical Services are designed to provide full lifecycle support, protecting your capital investment and ensuring maximum return on investment (ROI).

Our commitment begins long before installation. We offer expert guidance on facility planning, power requirements, and environmental conditions to ensure seamless integration. After deployment, our support model is built around proactive reliability, with dedicated service channels, guaranteed response times, and a team of highly skilled engineers who understand both aviation dynamics and advanced electronic control systems.

Through preventive maintenance strategies and detailed performance reporting, we help ensure your high-fidelity cockpits remain fully operational when they are needed most. Our transparent insights into system health, component lifecycle, and maintenance predictability help minimize Total Cost of Ownership (TCO) and provide long-term peace of mind.



PREDICTIVE MAINTENANCE AND PRECISION CALIBRATION: ENSURING 1:1 FIDELITY

The realism of any simulator declines without rigorous maintenance. ASFAN's Predictive Maintenance programs are built to prevent unexpected downtime by shifting from reactive fixes to a fully proactive approach. Using detailed historical data and optional Smart Diagnostic logging, components are scheduled for service or replacement based on predicted wear cycles—not failure. This ensures uninterrupted training availability and protects mission-critical schedules. Our approach significantly extends the lifespan of sensitive electronic modules and mechanical assemblies.



We further maintain the integrity of the flight experience through precise Field Calibration. Every cockpit element—from side-stick force-feedback systems to the smallest panel switch—is calibrated to match the exact feel and resistance of the real aircraft. Our certified engineers use specialized measurement tools to ensure true 1:1 fidelity. This commitment also includes Continuous Updates & Performance Enhancements, applying the latest software compatibility patches and upgrading key hardware elements to integrate the newest advancements in control technology. This ensures your system remains state-of-the-art and fully future-ready as simulation standards evolve.

STRATEGIC INTEGRATION AND CUSTOM FABRICATION SOLUTIONS



Our expertise is our flexibility. We provide comprehensive System Integration Services to ensure our high-precision hardware integrates seamlessly into your existing training ecosystem. This includes full compatibility and smooth configuration with major platforms such as DCS, Prepar3D, and MSFS for immediate operational readiness. We handle all driver, software, and configuration requirements—delivering a true “Plug & Play” experience that minimizes technical workload for your operational staff.

Beyond standard integration, [Your Company Name] excels in Custom Fabrication and Modernization. Leveraging our in-house CNC machining and advanced manufacturing capabilities, we provide rapid design and production of bespoke components—from unique control panels for specialized aircraft to replacement parts for legacy systems. Our Modernization Programs are particularly valuable, allowing institutions to revitalize older simulation infrastructure by replacing outdated electronics with our latest intelligent, modular control systems. This capability reduces reliance on third-party suppliers and ensures a reliable, controlled supply chain for mission-critical parts.



THE INVESTMENT IN AVIATION'S FUTURE: A PARTNERSHIP IN INNOVATION



Our corporate vision is not simply to build a better simulator, but to set the global benchmark for flight realism. We are driven by the principle that engineering intelligence must serve the pursuit of flawless operational competency. Our focus on Intelligent Digital Systems reflects our commitment to continuous innovation, ensuring our clients receive technologies that are ahead of the industry curve—from advanced modular control logic to predictive system diagnostics.



We see every client engagement as a Strategic Partnership. By choosing ASFAN, you are investing in a company dedicated to research, precision engineering, and sustained quality. This translates directly into a higher caliber of training, reduced risk, and demonstrable competence for pilots and technical staff. Our dedication to uncompromised precision guarantees that your investment is sound, robust, and capable of meeting the rigorous demands of aviation training for decades to come. This is our promise: we engineer the competitive and operational advantage that secures your future in the global aviation landscape.



We invite strategic partners, investors, and technical directors to engage with our team to explore the future of intelligent flight simulation. Our operations are managed from our corporate and manufacturing headquarters, where our engineers oversee every stage of design, fabrication, and quality assurance. Direct communication is paramount to our service philosophy. Whether your inquiry is related to a large-scale defense contract, a flight academy tender, or technical support for existing equipment, our specialized departments are ready to assist with professionalism and speed.

Our digital channels provide a window into our technical processes and innovation cycles. We encourage you to visit our website for comprehensive technical documentation and our social platforms for visual updates on new products and complex projects. We look forward to initiating a dialogue that will solidify your competitive edge through our precision-engineered systems.



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