



FLIGHT ENGINEERING SOLUTIONS

CATALOG OF PRODUCTS



2025

"YOU FLY, WE SOLVE"

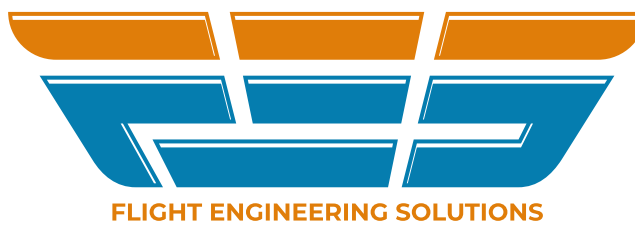


FLIGHT ENGINEERING SOLUTIONS

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FES (Flight Engineering Solutions LLC) is a company committed to delivering excellence in the aerospace industry through the distribution of top-quality aircraft components and parts. We are proud to offer products that meet the highest standards of safety, reliability, and performance for our clients.

In addition to our distribution services, we provide direct access to top-tier maintenance, repair, and overhaul (MRO) solutions, ensuring that each client receives personalized, high-performance support tailored to their operational needs.

We also take full responsibility for the logistics process, delivering exactly what you need when and where you need it. From procurement to final delivery, we ensure your parts and components arrive securely and directly at your warehouse door.

Our administrative headquarters is located in Tampa, Florida, offering a strategic position for managing operations across North America. Our operational base in Bogotá, Colombia, enables us to efficiently serve the entire Latin American and Caribbean region.

At FES, we are passionate about aviation and dedicated to building lasting partnerships based on trust, quality, and customer satisfaction.

AIRBUS PARTS

FES provides certified components and system support for Airbus narrow-body and wide-body aircraft, including the A318, A319, A320, A321, A330, and A340 series. We ensure full traceability and compliance, supporting your operations with trusted reliability.



Our Airbus offering includes:

- ✓ Avionics & Flight Instruments – Flight control computers, air data modules, cockpit display units, GPS antennas, and instrument panel components for navigation and systems integration.
- ✓ Landing Gear & Braking Systems – Hydraulic actuators, gear control valves, shock struts, brake assemblies, and anti-skid modules for safe and efficient ground operations.
- ✓ Electrical Systems – Voltage regulators, power distribution units, electrical relays, and generator control units to maintain onboard power and system health.
- ✓ Fuel Systems – Fuel quantity indicators, fuel pump assemblies, fuel selector valves, and tank sensors tailored for Airbus airframes.
- ✓ Hydraulics & Pneumatics – High-pressure hydraulic pumps, filters, actuators, and pressure control valves for landing gear, flight controls, and utility systems.
- ✓ Air Conditioning & Cabin Equipment – Pack controllers, outflow valves, and environmental control system (ECS) modules for optimal passenger comfort and climate control.
- ✓ Engine & Propulsion Components – Thrust reverser actuators, FADEC units, starter motors, and engine mounting hardware for multiple Airbus engine configurations.
- ✓ Flight Control Systems – Spoiler actuators, trim control modules, elevator and rudder servos, and complete control surface support.
- ✓ Structural & Airframe Parts – Fuselage skins, wing fairings, support brackets, and door mechanisms with OEM traceability.

99003-1	Cabin Pressure Controller	\$5,782
349141012070	3-Point Safety Harness	\$5,015
C231003040	Main Gear Steering Actuator	\$9,086
A2313001-12	Avionics Cooling Fan	\$2,596
304-0015-00	Flight Data Recorder	\$17,110
S3206900-7	Nose Wheel Steering Control Unit	\$6,018
FDR-3000	Flight Data Recorder High Capacity	\$18,290
QAR-6200	Quick Access Recorder	\$5,664
DMC-1023	Display Management Computer	\$11,446



SIDESTICK

D50A000100	Multipurpose Control and Display Unit (MCDU)	\$106,200
D50A000-100	MCDU-R, AIRBUS BLACK LABEL	\$93,220
MAU3000Z040H000820A	Decoder/Encoder Unit - B (DEU-B)	\$3,717
D27310001000A0	Sidestick	\$12,422



FLIGHT CONTROL UNIT



TCAS PROCESSOR



THRUST REVERSER
CONTROL VALVE

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AIRBUS PARTS

DHR4000	Digital Heading Reference System	\$9,676
GH3001	Attitude and Heading Reference System	\$10,738
S25450001	Cabin Pressure Valve	\$3,658
22530-000	Brake Assembly	\$5,664
CMM320-112	Anti-skid Control Unit	\$8,850
8000648-001	Navigation Receiver	\$10,266
103832-03	Autopilot Flight Control Computer	\$12,390
AICD3200	Air Data Computer	\$5,782
7700320-909	Engine Interface Unit	\$8,496
501-1220-01	Integrated Standby Instrument System (ISIS)	\$13,924
965-1340-003	VHF Communication Transceiver	\$3,658
ASB300-400	Audio System Box	\$3,245
778-9912-002	TCAS Processor	\$11,732
1800-2004-03	Fuel Pump	\$3,894
064135141-11	Thrust Reverser Control Valve	\$38,260
A330-1100-01	Aileron Control Servo Motor	\$6,018
A350-1072-01	Hydraulic Actuator	\$7,080



All Airbus parts are available with FAA 8130-3 or EASA Form 1 certification upon request, and supported by our logistics team for seamless export and delivery.



BOEING PARTS



We offer a robust inventory of certified components for Boeing aircraft, including the 727, 737, 767, and 777 models. Our stock covers essential systems, from avionics to propulsion, ensuring continued reliability and operational safety for your fleet.

Our Boeing capabilities include:

- ✓ Avionics & Flight Deck Systems – Autopilot control units, digital flight data recorders, GPS antennas, flight display units, autothrottle and trim servos, and flap control assemblies for precise cockpit management and navigation.
- ✓ Landing Gear & Flight Control – Hydraulic pumps, control levers, bushing assemblies, thrust reverser valves, and flap mechanisms designed for durability and responsive handling.
- ✓ Propulsion Systems – Engine control units, fuel control valves, starter motors, and complete Rolls-Royce engine kits to maintain optimal engine performance.
- ✓ Hydraulics & Pneumatics – Hydraulic control valves and filters for landing gear and flight systems, ensuring fluid reliability across operations.
- ✓ Fuel Systems – Fuel flow transmitters and aircraft fuel control valves tailored for specific Boeing models.
- ✓ Electrical & Environmental Systems – Cabin switches, control valves, and other key components supporting onboard comfort and system integrity.
- ✓ Structural & Cabin Components – Wing rib assemblies, door control systems, and stabilizer hardware to support aircraft structure and cabin operability.
- ✓ Instruments & Indicators – Flap position indicators and integrated cockpit instrumentation for accurate flight data management.

All parts are sourced with full documentation and compliance to FAA/EASA standards, offering reliable integration for line maintenance, overhaul, and fleet upgrades

58-20-10	HEATSINK	\$708
DAA3139D609-025	NONMETTALIC BUSHING	\$387
98A10001500000	COVER-SLIPON	\$295
DAA3119M389-003	Digital Flight Data Recorder	\$177
69-45784-2B	INSULATOR	\$991
B27-25-098-07D	Engine starter	\$920
22800-1	Fuel Flow Transmitter	\$2,832
DAA3119A680-273	BRACKET	\$519
821G3211-2	Autothrottle Servo Motor	\$7,670
09A066H12K046	PLATE	\$472
10-61926-4	BOEING FLAP POSITION INDICATOR	\$1,534
3144	STRAP	\$1,959
KIT250-221	ROLLS-ROYCE ENGINE KIT	\$1,864
1326-3212	Thrust Reverser Control Valve	\$6,136
11-89002-23	Landing Gear Hydraulic Pump	\$8,850



GPS ANTENNA



ROLLS-ROYCE
ENGINE KIT

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BOEING PARTS

99001-22	Wing Flap Control Assembly	\$6,490
5681-023-12	Flight Deck Display Unit	\$4,956
2385-1102-01	GPS Antenna	\$2,950
4152-2181-01	Vertical Stabilizer Trim Servo	\$4,484
6513-1031-24	Engine Control Unit	\$8,260
3300-2501-04	Hydraulic Filter	\$1,416
1368-1042-02	Air Conditioning Control Valve	\$2,596
1803-1560-02	Flap Control Lever	\$5,310
727-4701-07	Engine Fuel Control Valve	\$3,540
727-1371-04	Wing Flap Control Unit	\$2,478
727-8903-09	Thrust Reverser Control Valve	\$5,900
727-3012-02	Autopilot Control Unit	\$2,950
727-2367-04	Wing Rib Assembly	\$2,242
727-7842-01	Elevator Control Servo	\$3,540
727-4512-11	Hydraulic Control Valve	\$2,596
727-6602-02	Stabilizer Trim Servo	\$3,304
727-3789-01	Aircraft Door Control Switch	\$1,298



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PIPER PARTS

We supply a broad range of high-quality, certified components for Piper aircraft, including the PA-28, PA-32, PA-34, PA-46, PA-23, and PA-30 series. Our inventory supports both routine maintenance and critical repairs, helping operators and MROs maintain performance and safety across all key systems.



Our Piper portfolio covers:

- ✓ Landing Gear Components – Wheel hub caps, torque tube fittings, gear fuse boxes, and cowl flap actuators to ensure reliable takeoff and landing operations.
- ✓ Electrical Systems – Alternators, voltage regulators, starter motors, wiring harnesses, flap indicators, and switches—supporting safe, consistent electrical performance.
- ✓ Flight Control & Flap Systems – Flap ribs, control supports, drive levers, rudder skins, and autopilot servo accessories to maintain smooth aircraft handling.
- ✓ Avionics & Instrumentation – Select avionics units and indicators for aircraft status, flight automation, and cockpit control.
- ✓ Engine & Powerplant – Engine mounts, oil filler doors, filters, pressure sensors, ignition and starter systems, and Lycoming carburetors for dependable propulsion.
- ✓ Fuel System Components – Electric fuel pumps, thermometers, stall flashers, and fittings for stable and safe fuel distribution.
- ✓ Environmental & Cabin Systems – Blower motors and windshield wiper motors, ensuring passenger and pilot comfort and visibility.

C20207000	Main Gear Wheel Hub Cap	\$4,307
08702-2253	Wiring Harness Assembly	\$2,266
1191-28	AC Power Supply (Dual Output)	\$6,490
20364-000	Piper Plate Landing Gear	\$413
213-0128	Cable de control de flaps	\$258
90E83-1	Blower Motor Assembly With	\$590,000
24233-000	Autopilot Servo Motor Cable A	\$147,500
XW20137-G2	T ALCO Windshield Wiper Motor	\$218,300
57012-003	Switch	\$590
550-393	Voltage Regulator 14V	\$499



OIL FILTER ADAPTER

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FLOAT SWITCH



PIPER PARTS

460-937	Flasher Stall	\$708
37511-015	Piper Cowl Flap Actuator Trunnion	\$265,500
5644292	Flap Position Indicator Volts	\$61,360
95660-003	Piper Flap Rib Y18	\$47,200
85090-002	Flap Drive Adjust Lever	\$383,500
24576-000	Flap Control Support Brac	\$147,500
62421-000	Torque Tube Fitting	\$88,500
6354-200	Skin - Rudder	\$920
481-666	Electric Fuel Pump Assembly	\$129,800
475 123	Mount - Engine (J-7402-16)	\$708



All parts are provided with full traceability and compliance with FAA/EASA standards, ensuring safe integration into your Piper fleet operations.



ATR PARTS



We offer a wide selection of certified components for ATR 42 and ATR 72 aircraft, covering all major systems. Our inventory is tailored to meet the operational and maintenance needs of operators, MROs, and parts resellers.

Our coverage includes:

- ✓ **Electrical Systems** – Starter generators, static inverters, harnesses, GCUs, and control units to ensure optimal power management and avionics integration.
- ✓ **Avionics** – TCAS processors, MCDUs, CVRs, altimeters, EFIS displays, and air data computers to maintain flight deck efficiency and safety.
- ✓ **Hydraulic Systems** – Power-driven rotary pumps, governors, and valve modules that support landing gear and flight control hydraulics.

- ✓ **Fuel & Oil Systems** – Fuel flow indicators, oil coolers, and fuel-cooled components for reliable engine operation.
- ✓ **Landing Gear & Brakes** – NLGW/MLGW assemblies, brake units, and actuators for robust landing gear performance.
- ✓ **Cabin & Cockpit Systems** – Crew alert computers, symbol generators, and environmental control units to support comfort and situational awareness.
- ✓ **Air Conditioning & Cooling** – Air cycle units, heat exchangers, and pre-coolers for climate control and equipment cooling.
- ✓ **Ignition & Propulsion** – Igniters, ignition exciters, overspeed governors, and related accessories to support engine performance.

All parts are supplied with traceability and meet OEM or FAA/EASA requirements, ensuring full compliance and high reliability across your ATR fleet.

8260-124	Starter Generator	\$13,836
2205120-4	Air Cycle Unit	\$14,842
90010812	MLG Wheel Assembly	\$18,880
4170006310	Cargo Door Actuator	\$8,880
559-012D	Static Inverter	\$9,912
8236-3	Trim Actuator	\$8,614
066-1048-02	Altimeter	\$6,844
066-50000-0308	TCAS Processor	\$19,470
82165-22	MCDU (Multipurpose Control Display Unit)	\$70,210
7003110-912	EFIS Display	\$120,360
102003-11	GCU (Generator Control Unit)	\$33,040
622-8971-122	Transceptor/Receptor TCAS: TCAS Transceiver/Receiver	\$200,600
7004544-714	Unidad Generadora de Símbolos: Symbol Generator Unit	\$160,480
39-685-3	Módulo de Válvula Antideslizante Hidráulica: Anti-Skid Valve	\$141,600



DIGITAL AIR DATA
COMPUTER



ROLLS-ROYCE
ENGINE KIT



ALTIMETER



MCDU (MULTIPURPOSE
CONTROL DISPLAY UNIT)

ATR PARTS

35-0A2-3008-314	Crew Alerting Computer	\$147,500
7000700-959	AIR DATA COMPUTER	\$21,948
8571C000	Heat Exchanger	\$5,310
72325240-3	Landing Gear Position Sensor	\$6,760
7004544-714	Symbol Generator Unit	\$43,660
83311-49930	Ignition Exciter	\$3,894
82110730-007	Pre Cooler Sub Assembly	\$17,464
3118263-01	Oil Cooler	\$29,500
3045965-01	Governor	\$34,220
3055161-01	Igniter	\$1,298
3114877-01	Harness	\$1,770
AHA1752 / AHA1890 / 90010812 MLGW		\$12,390
C20585710/11 /12	BRAKE	\$43,070
C20586120	MLGW	\$41,300
C20589000	NLGW	\$13,570



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CESSNA PARTS

We offer a wide range of high-quality aircraft components compatible with Cessna 172, 182, and 206, covering all key systems to support maintenance, repairs, and operational reliability.

Our inventory includes:

- ✓ Engine system parts – including lubrication components, filters, and adapters.
- ✓ Electrical components – such as sensors, resistors, switches, and wiring accessories.
- ✓ Fuel system elements – caps, float switches, and valves designed for secure and efficient fuel handling.
- ✓ Brake system components – including discs, linings, and actuators for dependable stopping power.
- ✓ Cockpit and cabin parts – from control elements to instrument panel accessories.
- ✓ General airframe accessories – hardware and replacement items to support structural and mechanical integrity.



FUEL CAP



CESSNA A185F OHMS RESISTOR

1250922-200	Oil Filter Adapter Kit	\$6,018.00
1250922-201	Oil Filter Assembly	\$5,251.00
0556010-200	Ay Adapter	\$3,301.64
3028018	Resistor	\$2,100.40
06-03336	Float Switch	\$1,758.20
C156003-0101	Fuel Cap	\$180.00



AVIONICS

GARMIN™

✓ G3X Certified Touchscreen EFIS

The certified G3X Touch is an affordable and modern solution for upgrading single-engine piston aircraft from mechanical instruments to touchscreen displays. Available in 7" or 10.6" sizes, it combines primary flight display (PFD) and multifunction display (MFD) features, offering:

- *Synthetic vision*
- *Detailed moving maps*
- *Built-in wireless connectivity*

It supports ADS-B "In" weather and traffic, VFR/IFR charts, and georeferenced approach plates. When paired with the GFC 500 autopilot and compatible navigation sources, it enables LPV/LNAV/ILS approaches. The optional GEA 24 engine interface module displays primary engine data, eliminating the need for analog gauges and supporting popular Lycoming and Continental 4- to 6-cylinder engines.

✓ G5 Electronic Flight Instruments – Garmin

The Garmin G5 replaces traditional analog gauges with a compact, digital display that combines attitude, heading, and vertical speed. Ideal for aircraft like the Cessna 172 and Piper Archer, it's available in PFD and HSI versions, and includes optional mounting kits and GPS interface cables. FAA STC certified and widely used in general aviation.

✓ GI 275 EFIS Indicators – Garmin

Garmin's GI 275 is a modern EFIS that fits standard 3.125" panel slots, offering attitude, navigation, and even engine monitoring. It's a touchscreen solution that simplifies upgrades in aircraft like the Piper Navajo, Cirrus SR22, and Beechcraft 1900D. Available with PFD, HSI, and installation kits, all FAA certified.

G500 TXi	GDU 700P 7" EFIS con AHRS Integrado	\$13,682
G500 TXi	GDU 700L 7" EFIS con AHRS Integrado	\$13,682
G500 TXi	GDU 1060 10.6" EFIS con AHRS Integrado	\$18,284
G600 TXi	GDU 700P 7" EFIS con AHRS Integrado	\$21,942
G600 TXi	GDU 1060 10.6" EFIS con AHRS Integrado	\$28,786



DIGITAL AIR DATA
COMPUTER

010-01329-01	GEA 110 Unidad de Interfaz de Motor	\$4,242
K00-01301-10	Kit de Sondas de Motor – 4 Cilindros	\$1,764
K00-01304-10	Kit de Sondas de Motor – 6 Cilindros	\$2,118
010-013716-46	G500 TXi Habilidad de Visión Sintética	\$2,182
010-013716-46	G500/G600TXi Habilidad ChartView	\$2,182

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010-02325-00	GI 275 CDI/MFD	\$4,006
010-02326-10	GI 275 PFD/ADAHRS	\$4,596
010-02326-20	GI 275/AP PFD-AP (KI-256 Repl.)	\$5,658
010-02327-10	GI 275 HSI w/GMU 11	\$5,068
010-02326-30	GI 275 PFD/ADAHRS +AP Class III	\$8,490
010-02327-30	GI 275 HSI w/GMU 44B Class III	\$10,496
010-02326-30	GI 275 PFD/ADAHRS Class II/HELO	\$7,900
010-02327-30	GI 275 HSI w/GMU 44B Class III/HELO	\$10,496
010-02327-10	GI 275 HSI w/GMU 11	\$5,068
010-02326-30	GI 275 PFD/ADAHRS +AP Class III	\$8,490
010-02327-30	GI 275 HSI w/GMU 44B Class III	\$10,496
010-02326-30	GI 275 PFD/ADAHRS Class II/HELO	\$7,900
010-02327-30	GI 275 HSI w/GMU 44B Class III/HELO	\$10,496



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Angelica Romero – CEO

International Business Administrator

As the CEO of FES FLIGHT ENGINEERING SOLUTIONS, I lead with a global and strategic vision. My background in international business allows me to make decisions focused on growth, sustainability, and building trust with our clients. I'm passionate about aligning every part of the business engine to deliver real solutions to the aviation industry.

Winston Hernández – Provider Relations Coordinator

Aviation and Business Administrator

I specialize in building strong, long-lasting relationships with our suppliers. With a background in aviation and business, I understand both the technical and commercial languages, allowing me to create partnerships based on trust, compliance, and shared vision.



Nataly Niño – Operations Manager

Industrial and Chemical Engineer

I manage our logistics operations with precision, focusing on efficiency, compliance, and streamlined processes. My background in industrial and chemical engineering helps me pay attention to every detail and optimize workflows, ensuring each component arrives where it needs to be on time and in perfect condition.



**Nelson Guarnizo - International Trade
Coordinator**

International Trade Specialist

I'm in charge of ensuring that every import/export runs smoothly, backed by legal compliance, speed, and efficiency. My expertise in international trade allows me to anticipate customs procedures and find the best logistical routes so our products arrive safely and on time without complications or delays.

Catalina Ortiz - Purchasing Manager
Aeronautical Engineer

I ensure every procurement meets high technical standards and supports our clients' operational needs. With experience in component sourcing, MRO service management, safety, flight data analysis, and industry-wide coordination as former aerospace network lead, I bring a strategic, creative, and solutions-driven approach to every purchasing decision.



Camila Reyes - Sales Manager
Aeronautical Engineer

I focus on understanding each client's operational urgency and delivering precise, dependable solutions. With a strong technical background and a results-driven approach, I ensure that every request is handled with efficiency, accuracy, and full awareness of the critical nature of aviation supply. My role is to make sure our clients feel supported, informed, and confident in every transaction.