Meta Special Aerospace Air Operations focus on delivery of certified aircraft and aircraft modifications, including high performance and light characteristics enhancements, passenger systems, military and special mission systems and support, corporate reconfigurations, and cargo conversions.
PRODUCTS & SERVICES
• Exhaust Gas Extractors
• Soft Touch Tires
• Cargo Pods
• Lightweight Seating & Interiors
• Raisbeck & Blackhawk Modifications
• Modified Extended Nose
• Sensor Integration

OPERATIONAL SUPPORT
• Aircraft Acquisition Financing & Leasing
• Fleet Management
• Maintenance, Modification & Modernization
• Paint & Interiors
• Recapitalization
• Aircraft Preservation & Disposal
• Integrated Logistics Support
• Pilot & Mission Crew Services

TECHNICAL SERVICES
• Program Management
• Advisory & Assistance
• Engineering & DER Services
• System Design & Development
• STC Process Management
• Airworthiness Certifications
• Aircraft Leasing (wet or dry)
EXHAUST GAS EXTRACTORS (EGEs)

FUEL EFFICIENCY
Operators save approximately 20lbs/hr per engine at cruise (up to 10% fuel reduction) and experience lower ITT readings.

INCREASED PERFORMANCE
Due to the aerodynamic design, King Air 200 operators have reported improvements of up to 8 knots at 1700 RPM and 11 knots at 1900 RPM. King Air 90 operators have reported a 4-9 knot increase in cruise speed.

STRENGTH & DURABILITY
The large temperature differential between cold outside air and the heat of engine exhaust often causes stacks to crack. The streamlined design of EGEs virtually eliminates cracks.

King Air 90, 200 & 300 Series FAA & EASA certified

SOFT TOUCH TIRES

Soft Touch Tires are bigger, stronger, more reliable, 10-ply tires that provide benefits of High Flotation Gear, but fit into standard-gear wheel wells.

Soft Touch Tires are a simple tire upgrade—strut replacement and gear door modification are not necessary.
A CLEANER LOOK
A ceramic coating keeps EGEs from discoloring and insulates and strengthens the stack for longer life. EGEs direct exhaust away from engine nacelles and wing trailing edges, minimizing sooting, and cracks.

SOFT TOUCH TIRES

PERFORMANCE
- Expanded landing options to include soft-field and remote area landing capabilities
- Softer taxiing, take-off and landing on hard surfaced runways
- 67% more buoyancy than stock tires

SAFETY
- Decreased chance of a tire failure
- Minimizing hydroplaning
- Increased landing options in an emergency

SAVINGS
- 30% longer tire life
- ¾” more prop clearance reduces FOD damage and maintenance

Michelin or Goodyear Available

King Air F90, 100 & 200 Series & Beech 99  FAA & EASA certified  ANAC validated
CARGO CARRIER

Expand carrying capacity with 60 cubic feet of additional space. The Cargo Carrier holds up to 500 lbs of useful load and allows for easy loading of cumbersome items such as golf bags, skis or specialized equipment. The Pod can be removed or reinstalled in less than an hour.

Pod: 35” X 26” X 180”, has a 60” flat base, accessible via (2) 38” long side-mounted doors.

PERFORMANCE

The Pod’s aerodynamic design allows operators to maintain their original climb and cruise performance within 3-5 knots (operators have reported increased aircraft stability). There are no take-off, or landing penalties.

SAFETY & RELIABILITY

With a Kevlar®-lined, fiberglass laminate construction, the Pod is extremely durable. Zero failures, no airworthiness directives.

Optional nose shield prevents FOD damage to Pod.

| King Air 100, 200 & 300 Series | FAA & EASA certified |

INTERIOR MODIFICATIONS

CONVENIENCE

MSA seats are easy to install and remove since they slide onto the current seating tracks. The center of gravity also remains the same. MSA seats are sold un-upholstered or ready-to-install. Custom upholstery and dual aft seats are available.

HIGH DENSITY INTERIOR (HDI)

Designed for commuter, corporate, and charter operators, the HDI modification includes a custom-seating configuration of up to 13 seats, easy-clean sidewalls, added carpeting and oxygen and lighting repositions.

FAA & EASA certified
LIGHTWEIGHT SEATING
Save weight and space with ultra-light, sturdy MSA seats. At 14-17lbs each, the seats are designed for comfort and style with memory foam cushions, contoured lumbar supports, armrests and headsets. Choose a seating configuration to maximize the number of passengers and/or extra room in your cabin.

RAISBECK & BLACKHAWK ENHANCEMENTS

RAISBECK
- 5-blade composite swept propellers
- 4-blade quiet turbofan propellers
- Ram air recovery system
- Enhanced performance leading edges
- Dual aft body strakes
- High flotation gear doors (HFG equipped)
- Nacelle or crown nacelle wing lockers

BLACKHAWK
The benefits of this engine modification for the King Air 90 & 200 Series include:
- Factory-new engines under warranty
- Increased cruise & climb performance
- Lower operating costs
- Increased resale value
- Quicker install than an engine overhaul
- Potential core credit for existing engines

SERVICE & CAPABILITY ENHANCEMENTS

KING AIR 200 ZERO FUEL WEIGHT INCREASE KIT (ZFWIK)
(For aircraft with AviaDesign Spar Strap already installed) Carry an additional 600 lbs of payload. Operators can expect to fly 13 passengers 520 nm with a 30-minute fuel reserve.

KING AIR 200 PART 135 CERTIFICATIONS
For operators planning to carry 9 or more passengers, MSA can provide all equipment and aircraft certifications.

ADDITIONAL KING AIR ENHANCEMENTS
- Avionics modifications
- Custom paint
- Engineering & certification services
- Butterfield Industries product modifications

LIGHTWEIGHT SEATING
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Meta Special Aerospace's enhancements for the King Air are designed to increase rate of climb and cruise speed, improve payload and/or decrease fuel burn. Other modifications provide more baggage space or a smoother, shorter takeoff and landing. MSA enhancements are produced with performance and productivity in mind.

**MSA PRODUCTS**

- 350ME
- EXHAUST GAS EXTRACTORS
- SOFT TOUCH TIRES
- CARGO CARRIER
- LIGHTWEIGHT SEATS
- PASS 21
- HIGH DENSITY INTERIOR
- ZERO FUEL WEIGHT INCREASE
- LOW OIL PRESSURE WARNING KIT
- FAA PART 135 CAPABILITIES

**PARTNER PRODUCTS**

- BLACKHAWK ENGINE UPGRADES
- BUTTERFIELD PRODUCTS
- CENTEX
- HALO 250 CONVERSION
- FINOFF AVIATION – MT PROPELLERS
- LOPRESTI BOOMBEAM HID LIGHTING
- RAISBECK ENGINEERING

**FBO SUPPORT**

MSA is extremely accommodating for FBOs installing or interested in marketing MSA modifications. We offer experienced technical support and encourage marketing with friendly, prompt service and FBO dealer and volume discounts. With specifically tailored FBO service and one-on-one customer relationships, MSA is flexible to FBO customer needs and strives to provide only the best service.
Meta Special Aerospace offers extensive capabilities in Avionics Parts, Upgrades and Maintenance that can reduce operating costs and increase aircraft value. MSA understands the importance of both upgrading and maintaining existing systems to keep them in top working order.

SPECIALITIES

- Glass cockpit upgrade solutions
- FAA certified class I, II, & III avionics repair station
- TCAS, TAWS, CMS, RVSM, SATCOM & EFIS experience
- Engineering and STC development
- Aerial surveillance systems integrations for government & para public organizations
- Cabin entertainment systems
- Quick turn times
- Central U.S. location
INCREASED PAYLOAD, GREATER RANGE

The 350 Operational Gross Weight Increase (GWI) allows operators to use the full capacity of the new 350ME Fuel Tanks plus additional passenger or cargo payload. The 350 GWI provides an overall increase in operating weights for the B300 aircraft. The GWI supports the additional weight of the 350ME Fuel Tanks, but may be purchased as a stand-alone STC, if desired.

GO THE DISTANCE

350ME Fuel Tanks:

• Sleek, aerodynamic design
• Largest fuel capacity on the market
• Increase fuel capacity up to 280 gallons
• Extend flight time to 11.5 hours
• Increase flight range to 2,760 nm
• Consistently outperforms similar platforms
• Available for Serial Numbers FL-1 and above