

### **Aircraft MRO & Upgrading**

Prominent within the Safex global network is a world-leading MRO and aircraft upgrading and modernization unit serving airline and military customers around the globe. The Safex Aircraft MRO-UP carries out comprehensive maintenance, repair and overhaul services for fixed- and rotary-wing aircraft, powerplants and aircraft components, including refurbishment and repair, modifications, upgrades, conversions and development programs, all under one roof with turnaround times unmatched in the aviation industry.

#### **Our main areas of business include:**

- Being a Full Service Provider for complete MRO of Aircraft/Airframes, Powerplants and Platform Components
- Cargo Conversion Programs on a variety of Boeing family aircraft and others
- Military special Mission Programs including remissionizing aircraft as aerial tankers, intelligence, maritime patrol, and C<sup>2</sup>.

Safex Aircraft MRO-UP empowers operators to optimally employ their aviation resources reliably and concentrate on what they do best: providing flying transport service to travelers and cargo handlers. The associate Safex Aircraft MRO-UP is certified by the major civil aviation air regulatory authorities and air forces around the world.





Safex Aircraft MRO-UP extensive facilities covering over 425,000 sq. meters (165,000 sqm. under roof) provide the full spectrum of maintenance and overhaul services, to handle twin-aisle (wide-body) and narrow-body aircraft on annual basis: nearly 200 aircraft— including Boeing, Lockheed, Airbus, and others; in excess of 500 powerplants, including Pratt & Whitney, General Electric, Rolls-Royce, CFMI, and others, from disassembly through inspection and repair to full computerized testing; servicing over 40,000 components and aircraft systems including— hydraulic components, gearboxes, landing gears and avionics equipment, with auxiliary power units (APU's) processed in a focused center of excellence.

With nearly 40 years of experience, a specialty of Safex Aircraft MRO-UP includes being a world leader large-aircraft cargo conversion operation, and military aircraft "remissionizer" through the conversion and retrofit of commercial transports into special mission aircraft. A prime example is the B767 Multi-Mission Tanker Transport program introduced from within the Safex network. Converted and repaired aircraft have already accumulated over 2.5 million flying hours. Safex Aircraft MRO-UP operates within four main operating divisions, with additional facilities and partnerships in countries worldwide, among them facilities in Europe, the Middle East, Asia and South America.

- The **Aircraft and Special Programs** Divisions carry out conversions, modifications, upgrades and comprehensive-maintenance packages on a wide array of commercial and military aircraft.
- The **Engines & Powerplants** Division is a full-service facility for maintenance, repair overhaul, conversion and testing of commercial and military engines and accessories.
- The **Components & Systems** Division engages in the maintenance, overhaul, modification, refurbishment, repair and testing of commercial and military aircraft systems, sub-systems, and components.

**Within the Safex global network is a world-leading conversion capability for military conversions including aerial tankers and special mission configurations:**

- Development of PODS, HDU's, Booms, Advanced Operator Stations and Optronic Looking Systems
- Integration on B707, C-130, IL-78 aircraft and B767
- Tens of conversions to Air-Air Refueling configurations for more than 14 customers worldwide
- Conversion of hundreds of combat aircraft and helicopters as receivers.

**Safex Aircraft MRO-UP should be a natural choice based on:**

- Extensive experience and legacy programs as a Full Service Provider (FSP)
- Complete OEM capabilities under-one-roof: design, engineering, certification & production
- High quality
- Reliability
- Global Customer Support 24/7, 365 days of the year

**Safex Aircraft MRO-UP Programs**

Full spectrum of maintenance, modifications and overhaul services on wide body and narrow body aircraft, including:

- Boeing/(McDonnell Douglas)
- Lockheed
- Airbus
- Business and Executive Jets

4

**Engines & Powerplants**

Complete engine repair from the initial inspection, disassembly through comprehensive repair and overhaul, and if necessary modification, upgrade, conversion and parts refurbishment of civilian and military aircraft engines, including:

- Pratt & Whitney
- GE
- CFMI
- RR
- Honeywell
- PWC
- IAE

**Aircraft Systems & Components**

Maintenance, overhaul and upgrade of 13,000 types of civilian and military aircraft systems and components, encompassing:

- Hydraulic and fuel system components
- Gear boxes
- Landing gear
- Avionics systems and aircraft electrical equipment
- Specific expertise in Auxiliary Power Units - APUs
- Pneumatic & E.C.S components
- CSD/IDG Transmissions & Main and tail rotor blades, transmissions & dynamic component

### **Safex Aircraft MRO-UP Network Advanced Capabilities**

- Heavy maintenance and repair, including "C" and "D" checks in various locations around the world
- Total maintenance support services as a "Full Service Provider"
- Full coverage, on-site line maintenance - 24 hours a day, 7 days a week, 365 days a year
- Aging modification and life extension programs - nacelle strut and wing modifications
- Post-accident damage repairs
- Corrosion prevention
- Full PAX-Full Freighter Cargo conversions
- Interior reconfiguration & refurbishment.
- Special mission aircraft conversions – intelligence and airborne early warning, maritime air patrol, air-to-air tankers, anti-submarine warfare - ELINT/COMINT/Long-Range Observation, etc.
- Cockpit modernizations/system upgrades - avionics, fuel, hydraulics, electrical, system obsolescence.
- Communications/navigation system modernizations.
- Development programs - re-engining, weight reduction, fire protection systems, in-flight automatic storage systems.

### **Safex Aircraft MRO-UP Network Services**

Safex Aircraft MRO-UP transforms aging aircraft into cost-effective, efficient platforms.

Offering services for both individual aircraft and entire fleets, Safex performs complete modification and upgrade programs, including the comprehensive renovation of aircraft interiors, aircraft wire harnesses, avionics and cockpit modernizations, pylon and wing struts structural modifications for 747s and the installation of APU and fire protection systems - all in accordance with strict customer specifications.

Within the MRO network are maintenance centers in multiple locations around the world for easy access, locally - globally.

### **Facilities and Capabilities**

- Total Working Area - 104 acres/422,000 square meters
- Roofed Area - 40.42 acres/164,000 square meters:
  - 7 wide body hangars (5xB747 or A340 or B777+3xB767/MD-11 A/C bays)
  - 5 narrow body hangars (10 A/C bays +supporting shops for C130 or B707 or B737 or B757 or A320, etc.
  - F-100/F-110 accessory facilities
  - CFM56/P&W4000/JT8D/JT9D/T56 facilities
  - Gs/APUs/propellers/hydraulics/pneumatics and avionics components shops
- 10 Engine Test Cells

### **A Center of Excellence for C-130 Transport Aircraft**

Among a variety of military aircraft, Safex is a specialist in the maintenance, repair, overhaul, upgrade, and modification of Lockheed Martin C130 aircraft.

To date, our the Safex Aircraft MRO-UP group has carried out nearly 300 C130 PDM's (Programmed Depot Maintenance), and has upgraded, missionized, and retrofitted tens of C130 aircraft as air-refueling tankers and other special mission platforms. Additionally, as a one-stop shop, we are fully prepared, equipped and certified to carry out the maintenance of the T56 engines, and on board systems, accessories and components (i.e. APU's and others) in conjunction with a PDM or in a separate maintenance schedules for these aircraft systems.





7

Safex Aircraft MRO-UP Group is certified by leading air regulatory authorities worldwide, aircraft OEM's, airlines, and military operators (Air Forces & Naval Air Arms).

## For further information, please contact:

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