MOROCCO

A COMPETITIVE AERONAUTICAL BASE AT EUROPE’S DOOR STEP

Geostrategic positioning: Close to Europe and at the crossroads of the United States and Asia, Morocco is a central base in the world map that includes a know-how, skills and high quality facilities.
Given its geostrategic positioning, Morocco is considered nowadays as the ideal place to host the implementation of aeronautical and aerospace companies operating in Europe and seeking competitive advantages worldwide.

These last years, Morocco has proven to be a destination of choice for global aerospace investors. The Moroccan aeronautical supply chain has attracted, so far, more than a hundred European and American companies, in different business industry, aggregated under GIMAS.

This base enjoy a new boom with the consolidation of the aeronautical culture of the country and the development of ultimate production and training centers to cover the range of activities of this line of business: production and assembly of equipments and systems, wiring, electronics, surface treatments, composite structures, tooling and precision machining, engine and aircraft repair-maintenance, engineering and various services focused on this industry.

Today, the Moroccan aeronautical base, has been confirmed by the implementation of world reference companies such as EADS, Boeing, Snecma, Ratier Figeac, Aircelle, Daher, Souriau, Labinal, Zodiac Aerospace, Safran Engineering, Le Piston Français… and therefore this aeronautical base has stepped into a new stage towards its development with the arrival of new businesses and the integration of new technologies with higher added value.

Moroccan Aerospace Industries Association brings together all the operators of the sector, and plays its lead federative role for its members. It claims to be a privileged partner for the public sector regarding development strategies in aeronautics and the implementation of the National Pact for Industrial Emergence.
The geostrategic position of Morocco has encouraged the development of more than 100 aerospace companies. A leading edge technology and a know-how with more than 8000 employees. Development of industrial Integrated platforms (P2I) with free zone status, one-stop shop services. Government’s involvement to develop the industry with the Pact for industrial Emergence. Development of innovative training programs. A favorable cost base for long term investments. Supports programs for SME. Hassan II Funds to help investments.
A CHOICE DESTINATION FOR AEROSPACE INVESTORS

Site location

100 aerospace companies
8,000 highly qualified employees
25% Growth rate

Key figures
A DIVERSIFIED

- **PRODUCTION OF AUXILIARIES EQUIPMENTS**
  - Steel, aluminum, titanium fixations
  - Mechanical movements
  - Aluminum rivet
  - Fabrication of machines-tools
  - Windows
    - Polymer for inside windows
    - Mineral glass for external windows
  - Laminated glass
  - Hydraulic systems / high pressure tubing

- **METAL UPSTREAM**
  - Aluminum casting
  - Single crystal casting (TI, nickel alloy)
  - Aluminum and titanium plating
  - Aluminum and titanium extrusion

- **METAL WORK**
  - Boiler making industry (folding, drilling, deep drawing)
  - Manufacturing (metal spinning, milling, cutting, coating...)
  - Surface treatment
  - Mechatronics

- **PRODUCTION OF COMPOSITE EQUIPMENTS**
  - Pre-preg fibers and materials
  - Stratifying, honeycomb Composites
  - Autoclave molding, Fatigue strength
  - Carbon Fibre, Composite Design, Composite Sandwich Panels,
    Epoxy Resins & Composites

- **SUB-STRUCTURE ASSEMBLY**
  - Fitting / assembly of composite parts
  - Metallic structures assembly
  - Engine assembly / mecanic equipment
INDUSTRIAL BASE

**ELECTRONICS / AVIONICS**

- Cable production
  - Signal lamp and auditory cables
  - Engine cables
- Aircraft electronics instrument panel, pilot station, navigation systems
- Winding
- PCB assembly
- Connectors
- Computers
- Airborne radars and radios
- Electro-mechanics (Auxiliary Power Unit, Full Authority Digital Engine Control)

**MAINTENANCE / TRANSFORMATION / REPAIRING**

- Engine maintenance, cells and equipments
- Engine repairing, parts and equipments
- Transformation
  - Aircraft retrofit
  - Aircraft disassembly
  - Aircraft cabin customization

**TECHNICAL SUPPORTS / ENGINEERING**

- Development stages / engineering
  - Design (initial architecture of the aircraft, aerodynamics)
  - Architecture, 3D design, 2D computation
  - Prototypes and tests
  - Software development (avionics, engines, simulations)
- Data processing

**OTHER ACTIVITIES**

- Waste treatment (chemicals, metallic ...)
- Metrology and measurement
- Supply Chain Management
History

The history of the Moroccan aeronautical industry has begun in 1957 with the setup of the first public service airline company: the RAM (Royal Air Maroc) with the development of an industrial pole of maintenance in Casablanca. With its three main historical players: RAM, Snecma Morocco (since 1999) and EADS (since 1951), Morocco has shown a technical know-how in civilian and military aeronautical maintenance.

From the beginning of 2000’s many manufacturers and dealers have started to get established in Morocco, the Moroccan aeronautical industry therefore has become a production one. Morocco has very quickly realized the potential of this fledgling industry that is aeronautics identifying it as a top priority strategic sector in its emergence plan. From the beginning all the operators used to communicate among each other; GIMAS was born from these reciprocal transfers.

Committees

Specialized committees consist of delegates from companies’ members. They are considered as a place of expression and sharing of different experiences around mutual thoughts.

Human resources committee
Training committee
Communication and events committee
Industrial synergies Committee
Service Committee
MOROCCAN SPACE AND AERONAUTICAL INDUSTRIES GROUP

- **Missions**

  Consolidate and reinforce the Moroccan aeronautical competitiveness and contribute to its global exposure

  Work on a development strategy of the industry and the implementation of the Industrial Emergence Plan

  Federate, represent and defend Moroccan companies' interests on both, public and private, national and international bodies

  Represent its members in national and international airshows - effective participation of the Gimas at le Bourget, Aeroexpo Marrakech and Farnborough airshow

  Promote the development of aeronautical companies in Morocco and facilitate their planting

  Meet the industry's needs and train working forces with the creation of the 'Institute of Aeronautical Businesses' (IMA)

  Integrate Research & development in the national aeronautical strategy partnership with universities and national and international research centers partnership with international aeronautical groups
The IMA is a training center resulting from an innovative partnership between the public and the private sector. IMA’s mission is to provide companies in the aerospace industry with qualified and well trained operators, technicians and middle-managers. Training costs are free of charge for companies if the National Pact for Industrial Emergence device is used. Courses last from 6 to 10 months accordingly to field of study, and are based on a two-track system: 2 weeks inside the training center and 2 weeks inside the company. Specific classes with adapted programs can be opened for companies with important demand on qualified trainees. The capacity of IMA is 800 operators and technicians per year.

CLASSES STARTED ON APRIL 4th 2011

Have contributed to the success and achievement of IMA
TRAINING PROGRAM

TECHNICIANS AND OPERATORS

- Boiler making industry and surface treatment
- Machining & tooling
- Electrical systems operator
- Manufacturing / digital control
- Composite operators
- Aeronautical maintenance

MIDDLE MANAGEMENT

- Logistics
- Quality
- Purchase management
- Team leadership/ human resources
BECOME A MEMBER

Your company works in the aerospace sector in Morocco and you would like to become a GIMAS member, contact us for further information:

E-mail: contact@gimas.org  Website: www.gimas.org

GUIDE BOOK

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