CREATING HISTORY IN AEROSPACE

KAI’s Path Has Become the History of the Aerospace Industry in Korea

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As a system integrator in Aerospace, KAI has been taking the leading role in the aerospace industry in Korea. KAI has successfully developed the T-50 (Advanced Jet Trainer), KT-1 (Basic Trainer), KUH-1 SURION (Utility Helicopter), and the RQ-101 UAV SONGGOLMAE. The KF-21 (Next-Generation Fighter), LAH (Light Armed Helicopter), and LCH (Light Civil Helicopter) are the growth engines at KAI, currently under development.

As a total solution provider in aerospace, KAI is further exhibiting technical excellence in the development of the Korea Multi-Purpose Satellites (KOMPSAT, ARIRANG), Compact Advanced Satellite 500 (CAS-500), SAR Satellites, and the Korea Space Launch Vehicle (KSLV-II).
After 50 years in the aerospace industry, KAI has grown into Korea’s leading company with global competitiveness; achieved through bold innovations. This growth was made possible by the individuals at KAI, who believed that the passion for challenge would eventually result in world-class qualities. Our challenge to open up a new era of sustained growth will never stop.

**KAI WAY**

The Foundation for New Growth, Mission and Core Values

To become a leading company in the global aerospace industry, while fulfilling social responsibilities and gaining customer's trust backed by top-notch technologies and reliable products.

**Mission**

Trust and Respect for Customers
- Preemptively responding to market and customer needs
- Providing prompt and accurate feedback to customer requests
- Active participation in transparent management and social contribution

Challenges and Innovations in Technology
- Continuously pursuing challenges without fear for failure
- Pursuing continuous innovation in products and technology
- Procure the best expertise with professionalism

Communication and Harmonization for Cooperation
- Communicating on the basis of care and consideration
- Cooperating to achieve common goals
- Working in a proactive and leading position

**Core Values**
Becoming a Trusted Global Company by Establishing a World-class
Ethical Management System

KAI strives to make ethical decisions the highest priority. To ensure that all employees make transparent and ethical decisions, KAI established an ethical management system that meets international standards. In 2018, KAI established a global Anti Bribery System by acquiring ISO 37001 certification, the Anti Bribery Management System of international standards. Through such continuous efforts, the Company will establish a transparent corporate culture and grow into a trusted global aerospace company.
OVERVIEW

Corporate Social Responsibility

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Aviation Camp for Teenagers
An invitation event for ambassadors from 16 countries
Sponsorship of the “Sky Love Choir” singing dreams and hopes with local children.

Corporate Social Responsibility

Fulfilling Our Social Responsibilities to Spread the Joy of Giving & Sharing

In order to realize a sustainable future for common growth, KAI has been implementing customized social contribution activities. KAI is taking the lead in social contribution activities in the aerospace industry while fulfilling corporate responsibilities. Such activities include volunteer activities and donations, in which members participate directly.

2017 KAI Social Service Organization (NANUM) Volunteers Group in the Philippines

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With decades of accumulated experience and expertise in aircraft development, production, and integrated logistics support capabilities, KAI is able to offer products & services that exceed the customers expectations.
KAI has World-class Development Capabilities in All Types of Aircraft, including Fixed Wing, Rotary Wing, UAV and Space Programs
KAI has the Technology and Infrastructure including Composite processing, Structure Manufacturing, Final Assembly, and Painting to Produce Cutting-edge Aircraft
As an Aircraft Exporter, KAI provide the best quality and the best service by Offering On-time Follow-on Support and Management Tools to Maximize the Customer’s Operational Efficiency
The Capability of KAI is Proven by Objective Figures. KAI will be a Reliable Partner of Domestic and Overseas Customers Based on Advanced Technology and Know-how Accumulated over Decades.

Competence in Figures

The Number of Aircraft Produced by KAI

Fixed wing
- KT-1 Derivatives
- T-50 Derivatives
- KC-100 Derivatives
- Corps-level UAV

Rotary wing
- SURION
- SURION Military
- Amphibious Assault
- Medevac
- SURION Parapublic
- Police
- Emergency Medical
- Forest Service
- Coast Guard
- LAH/LCH

Upgrade & Modification
- FLIR (Thermal Imaging Camera)
- Lynx (Maritime Operation Helicopter)
- P-3CK (Maritime Patrol Aircraft)
- C-130H (Transport Aircraft)
- E-737 (Airborne Early Warning & Control Aircraft)
- F-16D (Jet Fighter)

Global Partners

KAI Serves Customers Worldwide, Emerging as a Key Player in the Global Aerospace Industry

The Number of Aircraft Produced by KAI

Fixed wing
- KT-1 Derivatives: 600 units
- T-50 Derivatives: 200 units
- KC-100 Derivatives: 90 units

Rotary wing
- SURION: 600 units
- SURION Military: 200 units
- Amphibious Assault: 90 units

Upgrade & Modification
- FLIR: 600 units
- Lynx: 200 units
- P-3CK: 90 units
- C-130H: 600 units
- E-737: 200 units
- F-16D: 90 units
### Korea Aerospace Industry History

#### Time of New Leaps and Development (1999 - 2010)

- **As a final aircraft system integrator**, KAI developed aircraft for domestic and export markets, expanding its footprint.
- **The Dawn of Korean-Made Aircraft Export**
  - KAI succeeded in mass production of KF-16 Basic Trainer in 1998 and export to South Korea in 2000 and Turkey in 2007.

#### Time of Growth and Leadership (2011 to Present)

- **Leading Development of KF-21·LAH·LCH**
  - KAI is taking another leap forward by developing the LAH (Light Armed Helicopter), LCH (Light Civil Helicopter), and the KF-21 (Next-Generation Fighter).
- **Dream of Developing Domestic Aircraft**
  - KAI commenced KTX-1 Basic Trainer development program in 1998 and KTX-2 Supersonic Trainer development program in 1997.

#### KAI opened up the dawn of Korean aircraft development, starting with the domestic implementation of Depot Maintenance (DM) and carrying the dream of indigenous aircraft development.

- **Established Korea Aerospace Industries Co., Ltd.**
- **Korean Aerospace Industry**
  - The Birth and Early Years (the 1950s to 1999)
    - **The Birth and Early Years**
      - KAI opened up the dawn of Korean aircraft development, starting with the domestic implementation of Depot Maintenance (DM) and carrying the dream of indigenous aircraft development.
      - **Buhwal-ho**, the first aircraft 'We built with our own hands' in 1953, ROKAF deeply realized the need for in-house-built aircraft, and the ROKAF (Republic of Korea Armed Forces) announced the development of Buhwal-ho, task force.
      - **Conveneement of Aviation Maintenance Activities**
        - After the Korean War, ROKAF introduced the F-86, F-5 and F-4 jet fighters. They carried out depot maintenance (DM) without relying on foreign countries.
    - **KF-16 Final Assembly Line**
    - **Early KT-1 production line**
    - **KAI Opening Ceremony**
    - **Indonesian Pilots who boarded KT-1B**

#### History

- **Growth as an International Joint Development Partner**
  - KAI is taking another leap forward by developing the LAH (Light Armed Helicopter), LCH (Light Civil Helicopter), and the KF-21 (Next-Generation Fighter).
  - KAI commenced KTX-1 Basic Trainer development program in 1988 and KTX-2 Supersonic Trainer development program in 1997.
  - Commenced civil aircraft structure design while participating in A350 Wing International Joint Development Project and B787 Development Project.
  - Secured Diverse Helicopter Platforms, Expanding to Military and Parapublic Helicopter Market.
  - From Introduction of Component Assembly Production, to Introduction of Technology Acquisition through Offset Program, KAI became involved in the production of simple parts for Boeing and Airbus. Gradually accumulating technology, KAI developed into a large aerostructure producer.

#### From Satellites to Korea Space Launch Vehicle

- **Korea aerospace industry is attracting attention as a future growth engine for Korea and KAI is laying the foundation for growth as a world-class aerospace company.**
- **Dream of Developing Domestic Aircraft**
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  - The KFX-1 (SDKV), a utility helicopter KAI developed in partnership with Korea Aerospace Industries, is being developed at KAI as a new type of multirole helicopter.

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#### Total Solution Provider in Aerospace

- **Growing as an International Joint Development Partner**
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**MAJOR PROGRAMS**

- **Fixed Wing Programs**
  - KT-1
  - T-50
  - KC-100
  - KF-21

- **Rotary Wing Programs**
  - KUH-1 SURION Military
  - KUH-1 SURION Parapublic
  - LAH
  - LCH

- **Aerostructure (Commercial & Military)**
- **Upgrade & Modification**
- **MRO**
- **Training System**
- **UAV**
- **Space Programs**
Basic Trainer with Excellent Spin Recovery Ability and Fuel Efficiency

The KT-1 export is launched by Indonesia and is expanding to Turkey, Peru, and Senegal. KT-1 is complimented by customers of allied country with its excellent performance, reliability, and operational efficiency.
T-50 Advanced Jet Trainer

The Best Candidate for Next Generation Fighter Training

T-50 is a supersonic trainer for air combat training. With maneuver and flight speed similar to real-combat fighter jets, the T-50 is a trainer that is best-suited to the characteristics of next-generation fighter control. The T-50 was first introduced in the overseas market in 2011. KAI is continuously expanding its market share by boasting the T-50’s multirole capabilities.
The First Internationally Certified General Aviation Aircraft, Utilized for Various Purposes

4-seat general aviation aircraft KC-100 (NARAON) meets the international certification requirements of the US Federal Aviation Administration (FAA) and the Korean Ministry of Land, Infrastructure and Transport. Equipped with complex new material and high-tech electronic integrated equipment, the KC-100 can be used for various business purposes such as air transportation, and leisure sports, as well as forest fire and coastal surveillance, patrol, education, and training. The KC-100 is now being modified for flight introductory training course for the ROKAF.

KC-100 NARAON
- Dimensions: 11.3m × 8.0m × 2.7m
- Power Plant: 315 shp
- Max. Speed: 210 kt
- 4 passengers
Developing the Next Generation Korean Fighter for Future Battlefield

The KF-21 (Next-Generation Fighter) program is a full scale fighter development program, set to introduce an outstanding aircraft for future battlefields. The development program is set to last for a total of 10 years and 6 months, and is designed as an international joint development with Indonesia.
KUH-1 Utility Helicopter SURION
- Dimensions: 3.0m x 19.0m x 5.0m
- Power Plant: 1,855 shp × 2
- Max. Speed: 145 kt
- 18 passengers

Equipped with State-of-the-art Equipment, SURION Carries out the Mission with Various Terrains, Day and Night, and any Adverse Weather Conditions

SURION has excellent performance and hovering abilities, comparable to the world’s best helicopters. With state-of-the-art equipment like the AFCS (Automatic Flight Control System), Navigation System and 3D Map, the SURION allows for stable performance in various terrains (mountain/urban) and harsh conditions both day and night. SURION is currently operated as ROK Army Utility Helicopter and expanding its mission into Amphibious Assault Helicopter for Marine Corps or Medevac Helicopter.
KUH-1 Police Helicopter CHAMSURI
- Dimensions: 3.0m × 19.0m × 5.0m
- Power Plant: 1,855 shp × 2
- Max. Speed: 145 kt
- 16 passengers

MAJOR PROGRAMS

SURION DERIVATIVES EXPANDING DOMESTIC AND INTERNATIONAL CIVIL AND PARAPUBLIC HELICOPTER MARKET

KAI has been expanding its inroads into the public market which used to heavily rely on imports by developing SURION derivatives - based on its excellent performance. The CHAMSURI (a Police Helicopter) and White Eagle (Coast Guard Helicopter) are undergoing its multi-missions such as integrated defense, counter-terrorism, search and rescue (SAR), surveillance and traffic management. In addition, Fire-fighting Helicopter of Jeju Fire Service Headquarters and Forestry Service Helicopter of Korea Forest Service are carrying out their duties for the safety of the people through various missions like search and rescue, patient transportation and fire-fighting.
Contributing to the Enhancement of the Armed Forces by Continuous Technology Development and Thorough Verification

The LAH (Lighted Armed Helicopter) program aims to develop an advanced armed helicopter suitable for modern battlefields. The simultaneous development of the LAH and LCH (Light Civil Helicopter) programs allow for an optimized development cost and stable follow-on support. The LAH prototype was rolled out in December of 2018, equipped with modern avionics, weapons, fire-control systems.
MAJOR PROGRAMS

LCH
Light Civil Helicopter

- Dimensions: 3.5m × 14.3m × 4.4m
- Power Plant: 943 shp × 2
- 15 passengers

KAI Aims to Expand the Civil and Parapublic Market with a Lightweight Platform after Successful Introduction of SURION, Medium/Heavy Helicopter

The LCH (Light Civil Helicopter) program aims to develop a civil helicopter with a gross weight of 10,000 pounds. Development is performed in conjunction with the LAH program for efficient development management and operation. The LCH successfully carried out its first flight in July of 2018. The LCH is an efficient and versatile rotary-wing aircraft providing a wide range of missions including police, firefighting, VIP, passenger transportation and EMS (Emergency Medical Service).
Based on the Commercial Aerostructure Technology and Know-how, KAI will Lay the Foundation for the Development of Commercial Aircraft

KAI is participating in the international co-development project of the Airbus A350XWB as a Tier 1 partner and has been acknowledged in the world by our technological capabilities. KAI is also participating in Boeing’s next generation commercial aircraft projects such as B787 and B777X, as well as Embraer and Bombardier, Bell Helicopter, IAI structure programs. KAI will lay the foundation for the development of commercial aircraft based on the aircraft aerostructure technology and know-how.
Maintaining Customer Confidence with World Class Quality Control

Recognized for world class production technology and quality, KAI produces and delivers the main fuselages for Boeing’s AH-64 Apache, and forward fuselages/main wings of the F-15. Furthermore, KAI manufactures the outer wing of the A-10 and the racked wing tip/empennage of the P-8. KAI - based on experience and expertise - continues to strengthen business capabilities by participating in the design and production of various military aircraft structures.
Realizing the Dream of Flying Longer and Further

Upgrade and Modification programs have the goal of upgrading and improving aircraft currently in operation to better suit their new missions and purposes. KAI has purchased the pre-owned P-3s from the US Navy and implemented lifecycle extension and equipment modernization program to reform it into the P-3CK, a modernized Maritime Patrol Aircraft, for the ROK Navy. Based on the B737 commercial aircraft, we modified the E-737 Airborne Early Warning & Control Aircraft equipped with radar and advanced avionics equipment and delivered it to the ROKAF. Currently, KAI is carrying out the performance improvement program for the C-130H Transport Aircraft of the ROKAF. In the future, the Company will expand Upgrade & Modification Program to incorporate various domestic and international aircraft.

- C-130H : Improved performance of Transport Aircraft operated by ROKAF
- P-3CK : Improved performance of US Navy aging aircraft with the ROK Navy latest Maritime Patrol Aircraft through extension of fuselage life and modernization of mission equipment
- LYNX : Installation of FLIR thermal imaging cameras to improve nighttime operational capability of ROK Navy Maritime Operation Helicopter
- HH-47 : Installation of FLIR thermal imaging cameras to improve nighttime operational capability of ROKAF Search and Rescue Helicopter
- UH-60 : Installation of FLIR thermal imaging cameras to improve nighttime operational capability of ROK Army / Air Force / Navy Utility Helicopter
- E-737 : Renewed / improved aerial surveillance capability by B737 commercial aircraft to ROKAF Airborne Early Warning & Control Aircraft
- F-16D : Improved performance for longer life of ROKAF Jet Fighter
Taking Responsibility for Safety
Based on the Experience of Military MRO

As a final aircraft system integrator, KAI carries out Maintenance, Repair and Overhaul (MRO) programs for aircraft development, production test evaluation and life management. KAI has participated in the US Navy’s H-53 Heavy Transport Helicopter maintenance program and currently maintains the US Air Force’s F-16 Jet Fighter and ROK Navy’s P-3CK Maritime Patrol Aircraft. In particular, KAI has established KAEMS (Korea Aviation Engineering & Maintenance Service) as the first aviation MRO specialized company, and has been supporting the stable operation of domestic and foreign airlines by expanding maintenance services to large commercial aircraft.
Training System

Providing Systematic Training to Maximize Training Efficiency

KAI is developing a training system that allows for systematic training and education throughout the lifecycle of the aircraft system. The training system developed by KAI has been evaluated as an optimized solution due to its high effectiveness; shortened training periods for pilots and maintainers, reduced training costs. KAI will build a comprehensive training center to provide systematic and efficient training services to the customers who operate aircraft supplied by KAI. It will also take the lead in the establishment of a Live-Virtual-Constructive model, which is coming into the spotlight nowadays, for sustainable future growth.
Continuous R&D in Preparation for the Future UAV Era

KAI participated in the development and production of the RQ-101 (SONGGOLMAE) Corps-level Unmanned Aerial Vehicle (UAV), which is being deployed in the ROK Army. KAI is currently participating in the development of the Next Generation Corps-level UAV. KAI is preparing for the future UAV era by securing diverse UAV technologies such as Unmanned Combat Aerial Vehicle (UCAV) and Vertical Take Off and Landing (VTOL) UAV through continuous research.
Space Programs

Leading the Civil Space Industry from Satellites to Launch Vehicle

KAI has been actively participating in the entire fields of satellite development programs and accumulating technical know-how through experiences from KOMPSAT-1 (Korea Multi-Purpose Satellites, ARIRANG) to KOMPSAT-7, CAS-500 (Compact Advanced Satellite) and GEO-KOMPSAT (Geostationary Korea Multi-Purpose Satellite, CHEOLLIAN) series. In addition, KAI is expanding its boundaries of space programs by engaging in various practical satellites and surveillance satellites such as CAS-500 and SAR Satellite development program. In the space launch vehicle sector, KAI is participating in the system integration of KSLV-II (Korea Space Launch Vehicle-II) program and the first stage development of propellant tanks. KAI is taking a step forward into a specialized space company that will lead the industry from satellites to space launch vehicle production and space launching services.
South Korea business sites

Headquarters
78 Gongdan 1-ro, Sanam-myeon, Sacheon, Gyeongsangnam-do

Seoul Office
9th floor, Samsung Cheil Building, 305, Teheran-ro, Gangnam-gu, Seoul

Sancheong Plant
2438, Chinhwangyeong-ro, Sancheong-myeon, Sancheong-gun, Gyeongsangnam-do

Jongpog Plant
194 Jongpogsan-dong, Yonghyeon-myeon, Sacheon-si, Gyeongsangnam-do

Goseong Plant
185, Sadong-gil, Goseong-eup, Goseong-gun, Gyeongsangnam-do

Overseas business sites

Indonesia Office
SKADRON 15 PANGKALAN TNI AU ISWAHJUDI, MACIPRI MAGETAN JAWA TIMUR,
INDONESIA 63392

Turkey Office
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