



# ***KAI Delivers the Sky***

*A world-class State-of-the-Art Aerospace Company Enriches the Future  
by Creating Greater Customer Value*

[www.koreaaero.com](http://www.koreaaero.com)

  
**KAI**  
KOREA AEROSPACE INDUSTRIES, LTD.





## UNLIMITED CHALLENGES...

As Korea's only aircraft system integrator, Korea Aerospace Industries was established in October 1999 through consolidation of Korea's aerospace capabilities; a way to strategically foster the important core defense and advanced technology industry for the future.

From the beginning, KAI has made continuous efforts to lead the development of Korea's aerospace industries through indigenous aircraft development and support of domestic material and components industries. As a result, KAI opened an era of aircraft export with the sale of the first indigenous aircraft, the KT-1, to Indonesia, Turkey and placed Korea as the 12th nation in the world to have indigenous supersonic aircraft with the successful development of the T-50.

In addition to the KT-1 and the T-50, KAI has expanded its business portfolio; the second upgrade program of P-3 Maritime Patrol Aircraft, international joint development programs such as Bell 429 helicopter, A350 and B787. KAI is also contributing to building up the force structure of our nation and laying a mid and long term foundation for growth through Korean Helicopter Program (KHP) and KFX Fighter Program.



### KFP(Korean Fighter Program)

The KFP was a national program aimed at procuring the latest jet fighters in order to bolster ROKAF's defense capabilities. Its domestic production began in 1994 and ended with the delivery of the 120th KF-16 in 2000. KAI was awarded a follow-on order, KFP-II from Korean Government for its outstanding performance in manufacturing and product quality. Additional KF-16s were delivered to the customer in June 2003 and the last in August 2004, totaling 20 aircraft in the program.



### UAV(Night Intruder 300)

Korea's UAV, Night Intruder 300, had been co-developed between KAI and ADD (Agency for Defense Development) from 1991 and was completed in August 2000. Delivery of production UAV to Korean Army and Navy was successfully completed in 2004. As Korea's first reconnaissance tactical unmanned aircraft system, it has been performing its C4I integrated missions such as aerial surveillance, reconnaissance, target acquisition, artillery adjustment, and other critical missions. KAI continues its development program for the future UAV systems.



### 429(Commercial Helicopter)

Succeeding the previous SB427 program, KAI is developing the brand new 429, twin-engine, 9-seat helicopter to secure the light multi-purpose helicopter market in cooperation with Bell Helicopter. Its development will be completed in 2008 and KAI has the sale and production rights for Korea and China markets as well as supplying the cabin and tailboom for production by Bell for other markets. The 429 Helicopter has IFR capability, a larger cabin, and the most advanced cockpit and rotor for better speed, range and comfort than any other competing helicopters.





## T-50 Golden Eagle

The T-50 Golden Eagle of Korea Aerospace Industries, Ltd. (KAI) and Lockheed Martin (LM) is a next generation advanced jet trainer for next generation fighters. The aircraft has modern fighter-like systems and performance such as glass cockpit, fly-by-wire, and high energy feature. Consequently, the aircraft can cover Advanced Jet Training (AJT) and Lead In Fighter Training (LIFT) with one aircraft, and also allow the maximum download of any operational conversion training required for front-line fighters. The T-50 total training package with Ground Based Training System (GBTS) and Enhanced Embedded Training System (EETS) enhances training effectiveness further.

The aircraft can also be used as a fully capable light combat aircraft. The T/A-50 has advanced fire control radar, internal gun and weapons delivery capability. It can accomplish both air-to-air and air-to-surface combat missions. Further more, the F/A-50, a derivative of T/A-50, will have enhanced radar, electronic warfare capability, smart/precision/stand-off air-to-surface attack capability. The T-50 is the only next generation trainer in both production and operation - the total commitment from ROKAF for T-50, T/A-50 and F/A-50 now stands for more than 140 aircraft. World's best leading Air Forces can benefit from these already-developed total training systems with highest training effectiveness and unsurpassed operational economics.

The T-50 is pertinent aircraft to replace many aging trainers and light combat aircraft around the world. KAI and LM Aero are cooperatively marketing the T-50 internationally and expect sales of 800 ~ 1,200 aircraft worldwide.



## KHP (Korean Helicopter Program)

The KHP is an indigenous Korean Utility Helicopter (KUH) development program to replace ROK Army's aging fleet of the 500MD and the UH-1H. This indigenous development program is to begin at 2006 with expected completion of development by 2012.

Along with the Agency for Defense Development and Korea Aerospace Research Institute, KAI has been designated as a leading development institution and develops a new utility helicopter suited for the topographical and military operational requirements of the ROK Army.



## Aircraft Modification & Upgrade

KAI has been successfully implementing the FLIR System Integration, which is integrating advanced FLIR system into military helicopters such as the UH-60, Lynx, and HH-47, currently in operation with ROK Army, Navy, and Air Force.

For the Navy Lynx helicopters, KAI has also upgraded them to the Super Lynx by modifying the cabin and rotor system, and the ESM Integration is entering into production in 2007.

For fixed-wing aircraft, KAI has been implementing the PACAF F-16 Modification program since 2006 in addition to continued upgrade of the KT-1 and T-50 aircraft.





# KT-1 Most Advanced Trainer

The KT-1 serves as a basic training aircraft for the Air Force pilots. KAI and the Agency for Defense Development (ADD) jointly developed Korea's first indigenous aircraft exclusively using domestic technologies in a project. The Aircraft was the first in its class ever to be designed entirely by a computer.

The KT-1, superb training aircraft with wide cockpit visibility, advanced avionics systems, enhanced acrobatic capabilities, meets various requirements of today's training pilots. With its superior performance, low acquisition and operational cost, the superiority of the KT-1 is proven in comparison with any competing aircraft in the market.

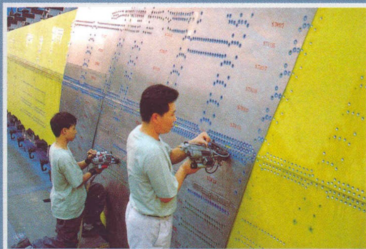
The KA-1, an armed version of the KT-1 for air-to-ground mission & forward airborne control mission, was developed and the first aircraft has been in service since 2005.

KA-1 is equipped with the store management system and enhanced avionics to accommodate external fuel tank and armament capabilities to carry out

close air support mission.

With basic avionics suits available for the KA-1, KAI has developed KT-1C, a multi-role aircraft designed to gain and maintain superiority in training and light attack mission. The KT-1C's superiority is achieved through a combination of excellent aerodynamic characteristics of KT-1, the state-of-the-art avionics & sub-system and diverse weapon delivery capability. KT-1C also brings a full glass cockpit with digitized features and expanded weapon and avionics systems for the incomparable basic training in its class.

KAI exported and delivered KT-1B trainers to Indonesian Air Force until today. Lastly, Turkish Air Force has signed the contract with KAI for KT-1T aircrafts in August 2007. Now, KAI is continuing aggressive marketing activities in Latin American and South-East Asian Countries as the demand of basic trainer and light attack aircraft has been increased for the purpose of coast guard, narco-traffics control and counterinsurgency.



## Aerostructures

KAI has been one of the best suppliers of wing and fuselage structures for commercial airliners including jumbo jetliner B747 and A380, as well as aerostructures for military aircraft such as the F-15K fighter and the AH-64D Apache attack helicopter.

KAI also has plans to participate in the next generation airliner development programs of Boeing and Airbus, which will be developed through cutting-edge technology such as composite material and high-efficient engine.

KAI will expand the aerostructure business by cooperating with world leading partners and further diversifying into maintenance, repair and civil aircraft business areas, as well as participating in the joint development programs.



## Maritime Patrol Aircraft

The Maritime Patrol Aircraft(MPA) Program is the second batch acquisition on ROKN's additional demand of the P-3 Orion maritime patrol aircraft. As a prime contractor of the Lot II MPA Program, KAI will take a major role to introduce the Upgraded P-3 MPAs.

KAI will replace and reinforce the airframe and accomplish a system integration with new mission equipment. After the completion of ground and flight tests, KAI will deliver fully upgraded P-3 MPA to the ROK Navy.

With additional modernized and upgraded aircraft, the program will contribute to the enhancement of ROK Navy's Anti-submarine and Sea surveillance operation capabilities.



## Space Business

As a unique satellite system integration company in Korea, KAI has greatly contributed for more than 70% localization of Korea multipurpose satellite program (KOMPSAT series) being promoted as part of the national space effort. KAI involved in all processes with government funded Korea Aerospace Research Institute (KARI). Based on its experiences, KAI independently developed the micro-satellite for evaluation of launch vehicle. From 2006, KAI is playing a key roll to develop the KOMPSAT-3 and KOMPSAT-5 to found a Korean standard satellite platform.

In addition to the development of bus system, as an exclusive provider for KOMPSAT-1 and KOMPSAT-2 imagery, KAI has distributed KOMPSAT-1 imagery worldwide since 2000 and is now marketing to distribute 1m resolution imagery of KOMPSAT-2.



# *KAI Provides Solutions for pilots training*

*KAI has achieved total system engineering capabilities through several development and production programs by technical and business cooperations with advanced aerospace industries in the world.*

*With these capabilities acquired, KAI is able to produce the best aircraft optimized for excellent performance and stability for training student pilots.*

*Furthermore, KAI can provide integrated logistics support and total training systems to customers as well as aircraft.*



KT-1 (Trainer Version)



KA-1 (Armed Version)



KT-1C (Multi-Role Version)







## *World Best Trainer*

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