

ILYUSHIN TURNS 80

THE WORLD-FAMOUS "ILYUSHIN AVIATION COMPLEX" CELEBRATES EIGHTIETH ANNIVERSARY

During all these years our engineering team has been amassing experience in aircraft designs and expanding intellectual potential. Nowadays, our designers create airplanes meeting most recent and demanding international standards. We believe that a big future lies ahead of us. Our glorious team has proved able to solve most difficult tasks. Right now we are introducing digital technologies into Russian aircraft development and production practices.

The open joint stock company "ILYUSHIN Aviation Complex" (JSC "IL") traces its history back to 1933, when an experimental design bureau was founded by outstanding aircraft designer Sergey Ilyushin. Today, our company is among the leaders of Russian firms specialized in development of modern aircraft.

During the eighty years since foundation, the design house developed over 230 aircraft designs, and saw 120 going into production. Over all these years mass

production plants manufacturing Ilyushin designs assembled more than sixty thousand airplanes. Manufacturing process was streamlined for time-saving and cost effective production. These featured simplicity of design, high reliability, long lifetime, ease of handling and low maintenance.

The Russian air force operated bombers, attack aircraft, air lifters and special purpose aircraft developed by the Ilyushin team.

The legendary Il-2 and Il-10 attack aircraft, along with Il-4 long-range bombers contributed a great deal into the allied victory in the WW2. After the war, the air force received a large number of Il-28 jet bombers.

The Il-78 aerial tanker and Il-38 anti-submarine warfare aircraft have proven irreplaceable tools in the inventory of the Russian armed forces. Since the middle of the seventies, the Il-76 four engined air lifter and its derivatives have been serving

in the role of the major strategic airlift type. Thousands of millions passengers and millions tons of belly cargo were carried aboard Il-12, Il-14, Il-18, Il-62, Il-62M and Il-86 airliners. Today, the Il-114-100, Il-96-300 and Il-96-400T types continue in revenue service and prove successful.

The Il-96-300 in a "command post" version acts as personal transports for the top state officials of the Russian Federation.

For achievements in the course of the indigenous aviation development, the government of the Soviet Union awarded the Ilyushin company the following high decorations: Order of Lenin, Order of Combat Red Star, Order of the Red Banner of Labor and Order of October Revolution.

Today, the line of Ilyushin designs is being extended with addition of newly designed airplanes able to serve in a wide variety of roles. The Il-103 and Il-96T become the first in the Russian aviation



Victor Ivanov

history to win type certificates from both Russian and US civil aviation authorities. Certification of the Il-114-100 and setting up its series production was the next moves on the way to expand international cooperation.

Development of freighters and air lifters are a priority for Ilyushin team. In September 2012 the Il-76MD-90A (project "476") commenced flight-tests. This airplane is the first whose series production is being set up completely in digital 3D computer aided design technologies. Onboard systems and airframe structure have been reworked by 70%, compared to the earlier baseline model.

In December 2012 ILYUSHIN Aviation Complex won the First Prize in the nomination "For achievements in the sphere of military equipment production, introduction of new technologies and innovative solutions". This award came to Ilyushin design team for its success with setting up series production of the new air lifter under project "476".

In 2012 a joint work began on creation of the Multirole Transport Aircraft (MTA), involving the United Aircraft Corporation – Transport Airplanes (UAC-TS) and Hindustan Aeronautics Limited (HAL) of India.

Airplanes developed by Ilyushin design team meet modern international require-

ments set by International Civil Aviation Organization and US Federal Aviation Administration.

Ilyushin's designers cooperate with world's leading vendors and parts suppliers, scientific research institutes and large airlines as they continue to carry out their comprehensive work on development, modernization, flight testing and production preparation of new aircraft, and on support of production activities at manufacturing factories, as well as introduction of modern computer-aided design technologies, keeping earlier produced Ilyushin aircraft up to modern airworthiness requirements.

ILYUSHIN Aviation Complex pays special attention to young specialists and their employment. Together with the ministry for education and the military-industrial commission of the Russian Federation, the company has developed a special program to do with graduation of young people from higher education establishments and their subsequent employment.

Contract on preliminary design phase of the Multirole Transport Aircraft (MTA) was signed by the Indo-Russian joint venture Multirole Transport Aircraft Ltd (MTAL) – acting as the client - and Hindustan Aeronautics Limited (HAL) and the United Aircraft Corporation – Transport Aircraft (UAC-TS) – acting as the contrac-

tors. The signing took place in New Delhi on October 12, 2012. Practical work by Russian and Indian specialists on implementation of this contract has already started, using specifications issued by the Indian and Russian defense ministries. Representatives of these ministries will supervise the process of contract fulfillment, including compliance of the aircraft being developed to the specifications. On behalf of the client, the abovementioned contract was signed by MTAL General Director N.C. Agarwal. Signatures to the contract were also applied by UAC-TS general director Sergey Velmohzkin and by T. Suvarna Raju, Director, Design and Development, HAL. According to the plans of the sides involved, the airplane shall have the following characteristics: payload 15-20 tons, cruise speed 800 km per hour, maximum flight range 2500-2700 km. The airplane shall have modern built-in self-monitoring systems and two engines. The MTA is supposed to be able to perform short takeoffs and landings.

According to the MTA development schedule, an Indian delegation arrived in Moscow on December 3, 2012. Among the group members there are leading HAL specialists. Victor Livanov, General director – General designer at ILYUSHIN Aviation Complex, said: "About 150 designers are working on the MTA draft design. It will be a brand-new airplane. The core of the Russian engineering and design team is formed by employees of ILYUSHIN Aviation Complex. We hope that the aircraft will have its first flight in 2017 and that deliveries will commence in 2018 to the Indian air force and the Russian air force".



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IL-76MD-90A