



ANTONOV COMPANY STARTED FINAL ASSEMBLY OF THE AN-132D AIRCRAFT-DEMONSTRATOR

ANTONOV Company together with King Abdulaziz City for Science and Technology and Taqnia Aeronautics Co. realize programme of the AN-132 light transport. The project involves major international partners, including Pratt&Whitney Canada, General Electric, Honeywell, Liebherr and Hamilton Sundstrand.

The first prototype of this advanced airplane is constructed by ANTONOV Company. On February 8, 2016, assembly of the fuselage of the first AN-132D aircraft-demonstrator was completed. Since that day, works on the aircraft final assembly (joining the main aircraft aggregates – wing, tail union, pylons, engine nacelles) have been in progress at the enterprise.

According to Mykhaylo Gvozdov, President of ANTONOV Company, «the next stage of the first AN-132 construction was performed in accordance with the approved schedule. So, we meet commitments to our partners and keep the fixed terms of the program development».

Completion of the AN-132 construction is scheduled for the end of 2016. After series of the test flights, the partners on the programme will present the aircraft to the potential customers in Kingdom of Saudi Arabia.



CEO of Taqnia Aeronautics Company and President of ANTONOV Company congratulate each other on the occasion of conclusion of Memorandums of Understanding signed in the presence of His Highness, Prince Turki bin Saud Mohammed A. Al-Saud

Photo: ANTONOV Company

The AN-132 will become an optimal replacement for the AN-32, AN-26 and other such type light transports. The new aircraft is intended for carrying various cargoes weighting over 9 t on short- and medium-haul routes. Besides, it will be able to perform aerial delivery of cargoes on parachute platforms and airdropping of paratroopers, to transport personnel as well as to be used under emergency situations to carry

sick and injured persons.

«Our country needs such airplanes, the market has very high potential. Creating the AN-132 we generated a cluster of aerospace industry in one platform. We had a study that forecasts very good number of this aircraft to be utilized in Saudi Arabia», – said Dr. Khaled Abdullah Alhussain, Director of National Aerospace Technology Center, KACST. «In the future we will modernize,

improve the AN-132D providing possibility to compete with any airplane of similar size and similar category. Among the modernized AN-132's advantages will be fuel efficiency, altitude, landing capabilities, price. We are entering the market with coalition of powerful partners to compete with any other similar brand».

The partners will propose various versions of the AN-132 to the customers. In December 2015, ANTONOV Company and Taqnia Aeronautics Co. signed Memorandum of Understanding on joint promotion of four Intelligence Search and Rescue, four Maritime Patrol and four Jamming versions of the AN-132 into the market of the KSA.

The AN-132 promotion into the Middle East market, discussion of the interaction within the programme, development and initiation of the new joint projects are goals of ANTONOV Company participation in AFED-2016 in Ar Riyadh, Kingdom of Saudi Arabia.



The AN-132D fuselage is placed in the final assembly workshop of ANTONOV Company

Photo: VMironyuk/ANTONOV Company

AN-178 TRANSPORT IS TESTED WITH A NEW ENGINE

Photo: Sergey Smolentsev



AN-178 passes the next stage of testing with the new D-436-148FM engine

New AN-178 medium transport is continuing the flight test programme. Till today, the aircraft has performed about 40 flights with total duration of more than 107 hours. In February 2016, the AN-178 performed a series of flights with D-436-148FM engine installed on the port side pylon. This engine was developed by Ivchenko-Progress corporation and Motor Sich SC (Zaporozhye, Ukraine) especially for the AN-178. Before delivery of this engine, the airplane flew powered by D-436-148s installed on the aircraft of the AN-148 and AN-158 family. D-436-148FM differs from its predecessor with a new wide-chord fan, increased thrust, improved noise and emission characteristics. In March the sec-

ond new engine will be installed on the aircraft.

Unique feature of the AN-178 having a payload up to 18 t is ability to carry all the type of the existing packaged freights (containerized and palletized ones) including high-capacity containers 1C (sea containers). Owing to this, the aircraft is an indispensable transport to provide logistic support as well as operations under emergency situations. Keeping the best characteristics of the ANTONOV aircraft, the AN-178 has high reliability and can be operated from/to any runway, including those ones with artificial pavement, unpaved airfields and alpine airdromes.

On December 17, 2015, ANTONOV Company and Taqnia Aeronautics Co., Kingdom

of Saudi Arabia, signed the «Memorandum of Understanding». This document confirms the parties' intension to deliver 30 multipurpose AN-178 aircraft to Royal Saudi Air Force (RSAF).

According to Retired Major General Ali Mohammed Al-Ghamdi, Chief Executive Officer of Taqnia Aeronautics Co., «Signing of this Memorandum is the next significant step in development of our cooperation. We have signed the documents on interaction within the programme of the AN-132 new transport and further promotion of the AN-148 special-purpose versions. We chose the AN-178 taking into account good characteristics of this aircraft. Its price and low operational costs are important advantages of this aircraft in

comparison with other airplanes of this class. Besides, we will realize joint marketing policy on promotion of the AN-178 into the markets of other countries of Middle East. In the future we plan cooperative production of this aircraft».

Oleksandr Kotsiuba, the First Vice President of ANTONOV Company, said: «This event became one more confirmation of mutual aspiration of Ukraine and Saudi Arabia in development of strategic partnership in the field of aircraft industry. Signing of this Memorandum verifies that the AN-178 is a modern, reliable and effective airplane, which is requested by customers. We are obliged to our partners and ready to fulfill our obligations in accordance with the signed agreements».



Photo: Oleg V.Belyakov

In March the second new engine will be installed on the AN-178

THE VERSATILE AN-148 AND AN-158 REGIONAL JET FAMILY



Photo: Vasilii Kobza

AN-158 aircraft operated by «Cubana de Aviacion» mastered domestic and international routes of Latin America

To aircraft operators worldwide, ANTONOV proposes the AN-148 and AN-158 regional jet family. Its base consists of the AN-148-100 and AN-158 with capacities of 68 and 99 passengers that have shown themselves to be efficient in operations under different climatic and weather conditions. At present, they are being used by 9 airlines from four countries, performing different functions, including VIP-passenger transportation. Up-graded with special medical equipment, the AN-148 variants carry sick and injured, fulfilling rescue tasks.

AN-148-100EM aircraft can be effectively used under emergency situations. The layout of the airplane includes: a main passenger compartment, a business-class compartment and ambulance compartment where installation of 2 to 6 specialized medical modules is foreseen. To use the abilities of the airplane more effectively, medical modules



Medicine modules of the AN-148-100EM

Photo: IFC JSC



The AN-148 crews are trained using a complex D level simulator

Photo: ANTONOV Company

and some economy class seats can be transported in the baggage hold allowing for quick reconfiguration. According to operator requirements the AN-148-100EM may be converted into any of 5 versions: Passenger, Command and Control, and three different passenger/ambulance configurations.

In November 2015, in the presence of His Highness, Prince Turki bin Saud Mohammed A. Al-Saud, ANTONOV Company and Taqnia Aeronautics company signed Memorandum of Understanding as for interaction on promotion of four AN-148-100EM medical aircraft into the market of the Kingdom of Saudi Arabia.

Retired Major General Ali Mohammed Al-Ghamdi, Chief Executive Officer of Taqnia Aeronautics company, said: *“Signing of this Memorandum means the next step in our cooperation with ANTONOV. We see the demand for aircraft of the AN-132, AN-148-100EM and AN-178 types in the KSA. These airplanes can be efficiently used in our country and also to be assembled and manufactured for the number of customers. Also we are starting work with ANTONOV Company on the composite and metallic materials to develop technical cooperation”*.

Mr. Gvozdoz, President of ANTONOV Company, noted: *“Cooperation with Kingdom of Saudi Arabia is very important for us. Our experience, which we are gaining together on fitting the AN-132 with Western engines and avionics, should be continued on other modern ANTONOV aircraft including line of AN-148, AN-158 and AN-178”*.



VIP cabin of the AN-148-100EA

Photo: IFC JSC



VIP cabin of the AN-148-100EA

Photo: IFC JSC

THE AN-148-300MP MARITIME PATROL

On the basis of the AN-148-300 long-range aircraft, ANTONOV is developing an advanced AN-148-300MP, which is intended for maritime patrol and resistance to trespassers, electromagnetic radiation and communication facilities intelligence, pollution response role, SAR missions.

To perform these tasks, the AN-148-300MP is fitted with special equipment, providing radar and optoelectronic search of targets on water, as well as blisters on each side of the fuselage for visual search of targets.

While SAR missions, it can paradrop and airdrop special recovery aids in the disaster

zone from pylons under the wing and through the rear side door of the cargo cabin.

To monitor pollution zones, the AN-148-300MP is equipped with SLAR, MWR, IR/UV, LFS.

Owing to its spacious fuselage, in case of necessity, the aircraft can be used for transportation of personnel and cargoes.

Maximum flight duration of

the AN-148-300MP is 10 h. In contrast to other existing patrol aircraft, it can be operated at poorly equipped airfields including unpaved ones. Besides, it can work within a wide range of climate conditions – from the cold of the Arctic to the heat of the tropics.

Such airplanes have to be operated by Navy of Ukraine. Vice Admiral Sergii Gaiduk, commander of Navy of Ukraine, told about that: *“Old anti-ship as well as search and rescue aircraft will be withdrawn from armament. They will be replaced by multifunctional ANTONOV airplanes”.*



Photo: Computer design/ANTONOV Company

AN-148-300MP

ANTONOV RENEWED ITS ANTAEUS



Photo: Oleg V Belyakov

AN-22 Antaeus is in the after almost 7-year break

On February 12, 2016, an important event for aviation of Ukraine was held – AN-22 Antaeus, the world's first wide-body transport, returned into air fleet.

ANTONOV Company performed a lot of works to repair the AN-22 after long staying on

the ground. *“In spite of confident leadership of famous AN-124-100 Ruslan and AN-225 Mriya in the market of air transportation of superheavy and oversized cargo, AN-22 is still in demand. For this reason we took a decision to renew the Antaeus”*— said Oleksandr

Kotsiuba, the First Vice President.

The renewed aircraft constructed in 1974 performed its last flight in March 2009, *“before that, this AN-22 flew round the world excluding USA and New Zealand. Antaeus carried various freights.*

Nowadays it is requested again, and we are sure it is able to continue operation” – noted pilots.

Nowadays ANTONOV Company is painting the AN-22 in colours of “Antonov Airlines” to use the aircraft for new cargo transportations.



Photo: Dmitry Birin



Photo: Dmitry Birin