General information

Dates: July, 20-25

Location: Zhukovsky, Moscow Region, Russia

Organizers

MINPROMTORG RUSSIA
Ministry of Industry and Trade of the Russian Federation

Rostec
Rostec State corporation

Official organizer

AVIASALON

With the support of

Presidential Executive Office of the Russian Federation

Government of the Russian Federation

Government of the Moscow Region

The XV International Aviation and Space Salon MAKS-2021 is held in accordance with Resolution of the Government of the Russian Federation No. 1606-r dated July 19, 2019.
Why participate in MAKS

At a higher level

MAKS is a UNIQUE BUSINESS PLATFORM where leaders in government structures are available for business communication.

MAKS is carried out with support from the Administration of the President and the Government of the Russian Federation. All key players in the Russian aviation industry take part in it. This allows observers to receive information firsthand about the industry’s priorities, prospects and market reach as well as the business possibilities with Russia and other CIS countries.

The highest concentration

MAKS is 150 conferences, roundtable discussions, briefings and seminars and a UNIQUE PLATFORM FOR SCIENTIFIC EXCHANGE that boosts research efficiency in many areas.

MAKS is traditionally held at the prestigious Zhukovsky, the “nurturing mother” of Russian aircraft science. The highest concentration of intellectual potential has made the space a recognized center of international contact on the scientific stage.

Scales and trends

MAKS is also UNIQUE EXPOSITIONS — the newest innovations, including one-of-a-kind weaponry and military equipment that for various reasons cannot be demonstrated abroad.

MAKS provides a complete panorama of Russia’s aviation clusters, as well as the achievements of its aerospace complex with its innovations and new technology, the high-tech Russian digital project Industry 4.0, and a general sense of openness for joint projects.

Beauty on high

MAKS is a UNIQUE FLIGHT PROGRAM — sometimes called the most impressive in the world. Zhukovsky’s premises allow pilots to push the limits of aircraft, which is just what makes the flight demonstrations by the best aerobatic teams of Russia and the world especially exciting. Such a grand display of aircraft technology is not possible at other airshows.

MAKS is 120 aircraft on static display and 100 flight demonstrations.
MAKS Information support

MAKS-2019 was covered by

- 3100 journalists
- 594 Russian and 238 foreign media
- 103 Russian and foreign TV channels

Official accounts of “International Aviation and Space Salon MAKS”

Total coverage: 10 million users
01 Preservation of MAKS as the main platform for demonstration
of achievements in aircraft industry, Ministry of Industry and Trade of the Russian Federation, as well as entire range of challenges and solutions associated with aviation:
- expansion of covered areas and range of exhibitors
- strengthening of cooperation with the Ministry of Transport, the Ministry of Science and Higher Education of the Russian Federation, the Ministry of Education of the Russian Federation, and Russian Federation regions

02 Confirmation of the MAKS' international role as the main national aviation salon
- attraction of projects associated with international cooperation
- involvement of the foreign aircraft teams in the flight program
- ensuring broader international presence due to the flexible forms of participation

MAKS is a traditional site for business and science contracts and a unique exhibition platform for companies operating in the aerospace industry, which remains free from sanction-related risks
Relevant priorities

03 Strengthening of MAKS' role as a leading communication platform
- a dialogue between the aircraft industry and operators of aircraft, federal and regional authorities and business
- a comprehensive discussion of strategies of sectoral, regional and corporate development and opportunities of their synchronization

04 Flight program is the most important component of the Salon

The main element of the business program is to hold on these topics in cooperation with the Ministry of Transport of Russia, Rosaviation and the governments of the subjects of the Russian Federation, a high-level event, such as the International Aviation Congress.
We are going to show full-scale samples, as well as mock-ups and models of airplanes, helicopters and aircraft engines to official delegations. We believe that these items will determine the appearance of domestic aviation in the next 20 years. We are also planning special demonstrations of promising technology at the request of aviation industry enterprises.

The following full-scale samples are declared as the key exhibits of MAKS-2021:

**Scientific demonstrators:**
- Sigma-4, light aircraft with electric propulsion system
- Yak-18T with an engine based on the unified modular platform
- Flying laboratory based on the Yak-40 aircraft with a demonstrator of a hybrid system
- Demonstrator model of a technological complex for a supersonic civilian aircraft "Strizh"

**Full-scale aircraft samples:**
- LMS “Baikal” (light multipurpose aircraft)
- Il-114-300
- Sukhoi Business Jet “Demonstrator”
- MC-21-310 with PD-14 engines
- Su-30SM2 with AL-41F-1S engine
- ANSAT-M
- Ka-226T (assembly of JSC "U-UAZ")
- Ka-32A11M
- Mi-171A3

**Mock-ups and models:**
- TVRS (L-610)
- PD-8
- PD-35
- VK-650V
- VK-1600V

MAKS as the main platform for demonstrating the achievements of the aviation and space industry and discussing the whole range of problems and solutions related to the aerospace industry.
Key Topics

Aircraft construction and astronautics in the new economic realities

New directions of development and economic models in aircraft construction and astronautics, including deepening of the interaction with the air transport system, building new business models in partnership with financial institutions

Topic of the events:

- Stimulating domestic demand for domestically produced aircraft
- Model of rendering complex services
- Development of air mobility in hard-to-reach regions
- State and development prospects of the after-sales service system
**Key Topics**

**New horizons of the Eurasian partnership**

**Partner country:**

The emphasis on developing cooperation with partners in the EAEU is reinforced by the invitation of the Republic of Kazakhstan to participate in MAKS-2021 as a Partner country. We are planning to sign agreements with the Republic of Kazakhstan within this participation.

**Entering new markets and forming new partnerships in aerospace activities, including expanding cooperation within the Eurasian Economic Union (EAEU)**

**Topics of the events:**

- Localization of civilian helicopters production in the Republic of Kazakhstan
- SKD assembly and repair of “Baikal” and TVRS (L-610) aircraft in the Republic of Kazakhstan
- Development of a center for maintenance and repair (CMR) of helicopter equipment in the Republic of Kazakhstan
- Implementation of the Russian-Kazakh project “Baiterek”
- Meeting of the “Eurasia” Coordination Council
- Export of education
Key Topics
Scientific and technical development

Future-oriented technological development of the aerospace industry in the following areas:

- Supersonic civil aviation
- Hybrid aircraft
- Artificial Intelligence
- Electric and hydrogen power systems
- Unmanned air systems and aircraft
- Integration of unmanned aerial vehicles (UAVs) into a single airspace and the development of an air navigation system
- Aviation instrument engineering
- Urban mobility is a hot topic at the junction of UAVs and GA

2021 is declared the Year of Science and Technology in the Russian Federation. The priority direction of state policy is the formation of a constantly updated scientific and technical reserve and offering solutions to achieve world-class aerospace products
Key Topics
Personnel development

Future-oriented personnel development of the aerospace industry in the following spheres:

- New formats of interaction between organizations of the aerospace industry, academic and university sectors on the example of the Sverkhzvuk (“The Supersonic”), the world-class scientific center created within the framework of the National Project “Science”
- New formation personnel training for the aerospace industry
- Building a culture of cybersecurity in civil aviation

Proposed activities:

- Competition of innovative projects (TsAGI)
- Presentation of winning projects of the “Aviation Future 2020” contest (UAC)
- Career guidance and educational activities within the "Student's Day"

For the first time, MAKS-2021 will host Designers and operators of unmanned aircraft systems competitions as part of the all-Russian competition “Digital Industry Personnel”
Flight program
The main component of the salon

A unique unrivalled aerodrome at the Gromov Flight Research Institute:

- The longest air strip in Europe and one-of-a-kind flight monitoring equipment
- An opportunity to demonstrate all types of aircraft with maximum performance by ensuring safety of hundreds of thousands of spectators
- Modern ground infrastructure and technical support, allowing simultaneous parking of a large number of aircraft, maintenance, refueling and preparation for demonstration flights
Key features
Demonstration of opportunities of Russian regions

- **Development**
  of tradition started at MAKS-2017, which involves participation in the Salon of regions having powerful aviation clusters

- **Expansion**
  of exposition themes and range of attracted exhibitors, without being limited to the aircraft industry only

- **Strengthening**
  of regional expositions by attracting the constituent entities of the Russian Federation which actively use aviation for the development of their territories

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A new MAKS topic:

An air transport infrastructure and related sectors as the important element of economics

*Expansion of regional expositions through the presentation of projects jointly implemented by the aviation industry and air transport: the implementation of maintenance and repair centers, distribution of spare parts, and training centers*
Key features
Specialized expositions

Creation of specialized sections and/or expositions with the participation of concerned ministries, authorities and associations to expand the exhibition program

Special sections:
- Unmanned aerial vehicles
- General purpose aviation
- Business aviation and interior design of aircraft
- Engine building

Perspective directions:
- Maintenance and repair of aircraft
- Aerodromes, air traffic control systems, ground airport equipment and technologies, transport infrastructures and equipment
- Flight and service team training equipment
Interaction with scientific and educational institutions is an important prerequisite for the innovative development of the industry.

Expansion of the Future Hub section, which is a key section in this topic, and which was recognized at MAKS-2019 by specialists and audience:

- Partial consolidation of the section with the sectoral science exposition
- Demonstration of all topics which cause interest in young audience, including conceptual vision of prospective aviation and astronautics
- Presentation of implemented and future projects, including with the support of the Ministry of Science and Higher Education of the Russian Federation, the Ministry of Education of the Russian Federation, Demonstration of a broad range of opportunities for professional development and career growth by higher education institutions and industry for young people with a focus on new forms of education
Key features
Space Theme

- Exhibition of samples of the existing and promising Russian rocket and space technologies:
  - Launch Vehicles
  - Engines
  - Spacecrafts
  - Earth Remote Sensing
  - Tool Engineering
  - Ground-Based Space Infrastructure
  - Digital Services
  - Scientific Space (Moon and Mars Exploration Projects)

- Full-scale exhibit models on a static platform
  Demonstration of aviation technologies of the Yu.A. Gagarin Research and Test Cosmonaut Training Center which are used for the special astronaut flight training

- Direct communication sessions with the International Space Station

- Presentations and conferences on relevant topics
  The IV Eurasian Aerospace Congress
  “Strategic Changes in the Global Aerospace Industry: New Management Challenges and Prospects”

The core activities of the Roscosmos up to 2025:
- ExoMars is an international Mars exploration program
- Scientific research programs for exploration of the astrophysical space observatories Spektr-RG and Spektr-UF
- The Lunar exploration program for launch of the unmanned spacecrafts Luna-Glob, Luna-Resurs, Luna-Grunt and others