

ASKM «Progress»



Breakthrough Integrated Modeling Technology influence of external influencing factors for aviation electronic equipment

www.askm-progress.com

2020

What is ASKM «Progress»?

- ASKM "Progress" is a replacement of KAREA electronics testing by computer simulation for external thermal, mechanical, electromagnetic and other influences even before its manufacture. This is a significant savings in money and a reduction in the time for creating equipment, while improving quality and reliability by reducing the number of tests.
- The modeling is carried out on the basis of the Automated System for Assuring the Reliability and Quality of the ASKM "Progress" Equipment (www.askm-progress.com)

What ASKM «Progress» does?

DEVELOPMENT stage

Technology "ASKM" Progress " allows you to solve 3 main problems, existing in the development of modern Aviation radio-electronic equipment (KAREA):

- the problem of preventing possible CAEA failures during operation at the early design stages;
- 2. the problem of reducing the time and costs for designing CAREA;
- the problem of document flow automation and the creation of an electronic model of CAREA within the framework of CALS technologies

OPERATIONAL stage

Technology "ASKM" Progress "allows:

- manage safety risks, including assessing risks and developing measures to reduce them;
- 2. optimize the system for collecting and processing BP data;
- 3. ensure data protection for the power supply;
- 4. analyze data on power supply and identify hazardous factors;
- 5. diagnose damaged equipment

Save your money and a reduction in the time needed to create equipment while improving quality and reliability by reducing the number of tests

ASKM «Progress» components



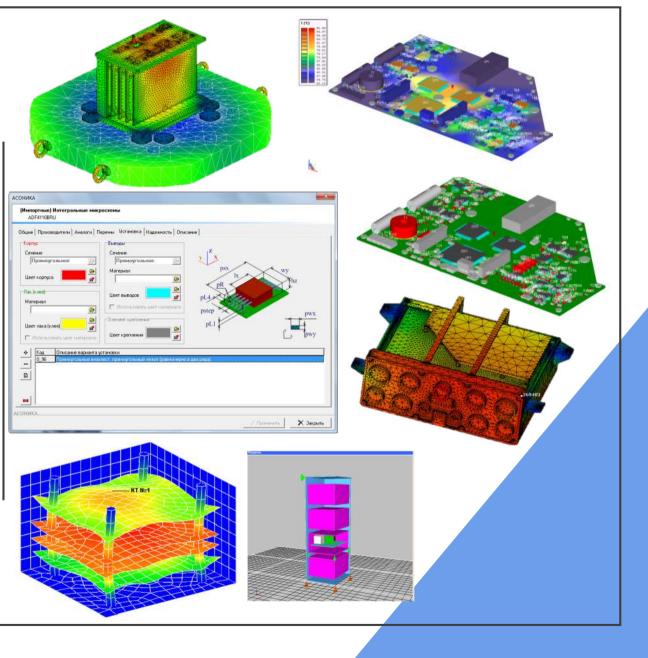
ASKM "Progress" includes:

 1. 13 interconnected subsystems of the ASKM "Progress" system;
2. modeling of mechanical, thermal, electromagnetic processes;

3. reliability calculation;

4. formation of maps of operating modes;

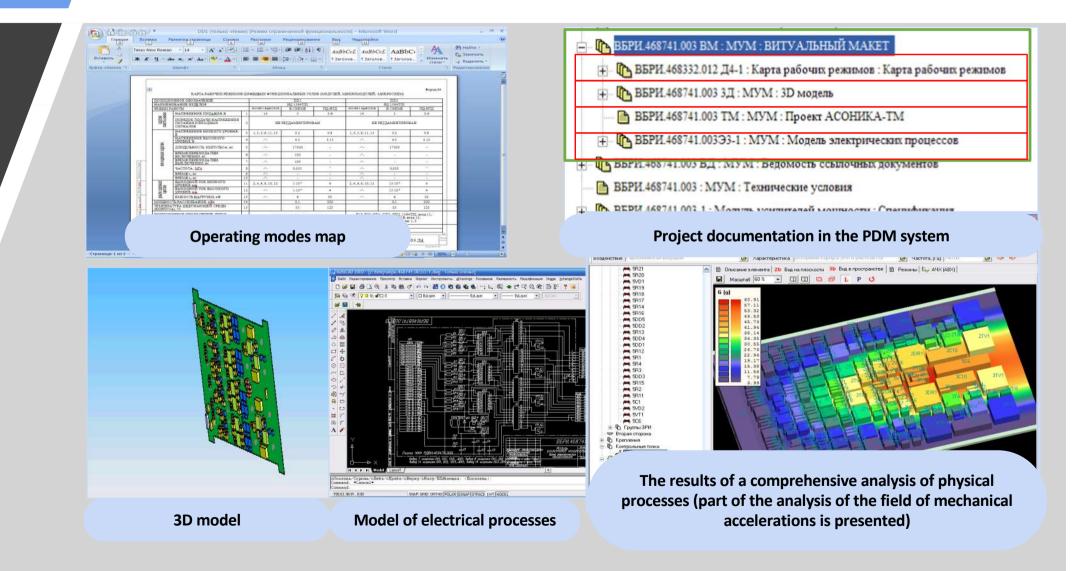
5. database.



Technology "ASKM" Progress" consists of 13 components

- 1. ASKM-T: modeling of thermal characteristics with arbitrary design in SAREE
- 2. ASKM-M: modeling of typical structural blocks with mechanical effects design in SAREE
- 3. ASKM-M-CABINET: modeling of typical cabinets and racks with mechanical effects design in SAREE
- 4. ASKM-M-3D: modeling of arbitrary structures of SAREE and chips, created with ProEngineer, SolidWorks and other CAD-systems with formats of IGES, STEP and SAT, with mechanical and heat transfer designs, including cyclic effect and fatigue strength analysis
- 5. ASKM-ID: identification of physical and mechanical parameters of SAREE models
- 6. ASKM-V: modeling of mechanical characteristics of SAREE with vibration isolators
- 7. ASKM-TM: modeling of printed circuit boards with thermal and mechanical effects design in SAREE
- 8. ASKM-R: automated filling cards of electronic components operating modes
- 9. ASKM-B: analysis of reliability of SAREE based on real modes of electronic components
- **10. ASKM-UST:** analysis of fatigue design of printed circuit boards and electronic components under mechanical effects
- 11. ASKM-EMC: modeling of electromagnetic compatibility in SAREE
- **12. ASKM-DB:** electronic components and materials reference database on the geometrical, physical, mechanical, thermal, electrical, electromagnetic and reliability parameters
- 13. ASKM-UM: modeling management of the design in SAREE

Example of a virtual model





About company

Limited Liability Company "ASKM" Progress "(LLC" ASKM "Progress") was created in 2016 to develop and promote the breakthrough technology "ASKM" Progress ".

LLC "ASKM" Progress "- winner of the competition" Aircraft Builder of the Year " at the end of 2017 in the nomination "For contribution to the development of the regulatory framework in aviation and aircraft construction".

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General director Ilyin Sergey Aleksandrovich



International development

ASKM «Progress» participates in the activities of international consortia:

In 2020, 1. Consortium NTS («National Technological Standards») **«ASKM** President: Ilyin S. A. (Ilyin S.A. is the executive secretary of TC 165 of Rosstandart of the Russian Federation.) «Progress» 2. Consortium ENAT LTD became a International Consortium for Ensuring the Reliability of Aviation Equipment in Civilian Industries supplier in the President: Ilvin S.A. UNITED 3. MNOC KVAZAR **NATIONS** Consortium «International Scientific and Educational Center «KVAZAR» Global President: Vlasova I. N. **Marketplace**

4. International Consortium for the development of robotic systems in civilian industries

President: Ilyin S. A.









How you can get ASKM «Progress»?

- 1. Connect with our representative office in your country and ask your questions
- 2. Choose method of education:

	Method 1	Method 2
Software	software license + key (free)	software license +key (free)
Type of education	online, distance (payed)	in your country, your place (payed)
Time	from 1 day (6-8 hours)	from 1 day (6-8 hours)
Price for 1 person	from 300 \$	from 300\$ (not incl. transfer expenses) + transfer expenses

- 3. Sign the contract with country manager or representative office
- 4. Get your knowledge

Also we can do special course for you!

Want to become our partner?

Open the training center - «International Scientific and Educational Center» or become our representative office in your country

and develop education on breakthrough technology in your region

From our side:

License on software + key Teachers Education process Helping in country strategy and all businessprocess From your side:

Office for training Clients Helping in organization visits of teachers if clients want to receive education on their territory