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## SAMARA SPACE CENTRE (FGUP "GNP RKTS "TSSKB-PROGRESS")

*Samara Space Centre (The state research-and-production space-rocket centre "TsSKB-Progress") is one of the world leaders in the field of development and operation of middle class launch vehicles, Earth observation space complexes and automated space vehicles for specific applications.*

For today there was created 9 modifications of launch vehicles and 26 types of space vehicles of different function in the enterprise.

More than 1740 space vehicles has been put into orbit by launch vehicles made in Samara Space Centre, 980 of them — are own development of the enterprise. "Soyuz-U" and "Soyuz FG" are used for lofting of manned and automated spaceships "Soyuz" and "Progress" for the purpose of trouble-free operation of the International Space Station as well as for injection of automatic space vehicles into low-orbits.

"Soyuz-2" LV is developed on the basis of "Soyuz" series LV and is intended for injecting of space vehicles into low, mean, high, sun synchronous, geo transfer and geostationary orbits. The first qualification launch of "Soyuz-2" was successfully performed from Plesetsk launch range in 2004.

The three-stage LV "Soyuz-2-3" and two-stage LV "Soyuz-1" are perspective developments of Samara Space Centre. The automatic space vehicles designed in interests of national safety, science and national economy allow to provide global terrain monitoring of the Earth with the high resolution to district and prompt data delivery. The space complex "Resurs-DK1" now in operation makes possible to receive high-informative images in various ranges of a visible spectrum with the

resolution up to 1 m and to deliver pictures by means of a radio channel to the Earth. The new spacecraft "Resource-P" is under development. For carrying out of research in the field of materials technology, biology and medicine Samara Space Centre offers automated space vehicles "Foton-M" and "Bion-M", providing optimum conditions for experiments onboard, and also "soft" landing to the Earth of descent vehicle. The largest space agencies of the world take part in carrying out of research programme.

In the international market Samara Space Centre offers launch services

for injection of various payloads. By the moment launches of 44 foreign satellites were carried out successfully. For the purpose of expansion of a spectrum of injected payloads Guiana Space Centre is constructed for launches of "Soyuz-ST" launch vehicle developed on the basis of LV "Soyuz-2". The constructed launch complex «Soyuz in GSC» can provide more than 50 launches in 15 years and will increase competitiveness of the European carrier rockets "Ariane-5", "Soyuz-ST", "Vega".



Alexander N. Kirilin,  
the Director General



Pre-launch processing of "Soyuz-2" launch vehicle with "Fregat" upper-stage and "Metop" spacecraft

