

IAF SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM (D2)
Launch Vehicles in Service or in Development (1)

Author: Mrs. Elena Brandt
Eurockot Launch Services GmbH, Germany

ROCKOT-M: COMPETITIVE LAUNCH SYSTEM FOR SMALL SATELLITES

Abstract

IAC 2021 Dubai, UAE October 2021 ROCKOT-M: COMPETITIVE LAUNCH SYSTEM FOR SMALL SATELLITES E.Brandt EUROCKOT Launch Services GmbH

Abstract

The revival of Rockot Program via upgrade of Rockot launcher, called Rockot-M is described.

Rockot-M as well as the original Rockot is based on the former Russian SS-19 nuclear missile. That is, the first and second stages are the former SS-19. The third or upper stage was developed at the end of 1990-th. The Rockot-M launch vehicle inherited all its systems from Rockot launcher except for the Upper Stage control system. In the Rockot-M LV the control system will be digital and Russian made. The original Rockot performed 31 launches with one failure. This heritage allows Rockot-M a very high degree of the launcher system maturity as well as competitively fair price level.

Rockot-M launch vehicle (LV) will be able to perform single and multiple launches of small and medium satellites and/or satellite constellations weighing up to 1900 kg into polar, sun synchronous (SSO) and some other low earth orbits (LEO).

The Rockot-M launcher is marketed by EUROCKOT as it used to be for Rockot LV. EUROCKOT Launch Services GmbH is a joint venture between ArianeGroup and Khrunichev Space and Research Center of Russia (KSRC). EUROCKOT offers cost effective launch services world-wide.

The first Rockot-M will be ready for launch by the end of 2022.