

INTERNATIONAL LAUNCH SERVICES FACTSHEET

SERVICES

ILS staff has decades of combined expertise in the international launch and satellite business. ILS provides a single source of comprehensive knowledge and support.



- Marketing & Sales (ILS)
- Licensing Support (ILS)
- Mission Management (ILS/KhSC)
- Quality Management (ILS/KhSC)
- Integration (ILS/KhSC)
- Mission Design (KhSC)
- Proton Manufacturing (KhSC)
- Launch Operations (ILS/KhSC)

LAUNCH FACILITIES

- The Proton M Breeze M vehicle launches from the Baikonur Cosmodrome located in Kazakhstan.
- The Angara 1.2 and Angara 5 vehicles launch from the Vostochny Cosmodrome in Russia.
- Commercial launches of the Soyuz 2.1 occur from the Vostochny Cosmodrome located in Russia and the Baikonur Cosmodrome located in Kazakhstan.
- The Soyuz 5 vehicle will launch from the Baikonur Cosmodrome in Kazakhstan.



COMPANY

ILS holds the exclusive rights for worldwide commercial sales and mission management of satellite launches using the Proton M Breeze M, Angara 1.2 and Angara 5 launch vehicles. ILS also markets launch services on the venerable Soyuz 2 and Soyuz 5 launch vehicles. With decades of combined expertise, ILS has launched the entire range of commercial satellite platforms and has worked with all major satellite operators.

Khronichev Space Center (KhSC), of Moscow, manufactures the Proton and Angara launch vehicles.

ILS is headquartered in Reston, Virginia, U.S.A.



OUR MISSION STATEMENT

ILS creates value for its customers by providing dependable access to space through proven and innovative launch solutions.



International Launch Services
FLEXIBILITY | PERFORMANCE | EXPERIENCE | DEDICATION

W2A
3 APRIL 2009



50th ILS Proton Launch

INTELSAT 23
14 OCTOBER 2012



75th ILS Proton Launch

YAMAL-401
15 DECEMBER 2014



400th Proton Launch

9 JULY 2014



1st Angara 1.2 Launch

23 DECEMBER 2014



1st Angara 5 Launch

PROTON HIGHLIGHTS

- Proton M Breeze M: 7.04 metric tons of lift capability to reference Geostationary Transfer Orbit (GTO)
- Proton M Breeze M: 7.30 metric tons of lift capability to reference Supersynchronous Transfer Orbit (SSTO)
- Compatible with all major spacecraft platforms
- Optimized mission design/orbit insertion
- Orbit insertion flexibility
- Schedule assurance with minimal weather constraints
- Capability of launching dedicated single or multiple satellites

PERFORMANCE HIGHLIGHTS

- Heritage vehicle to serve the broader GEO and NGSO market
- Highest launch tempo for heavy-lift vehicle
 - 3 Proton missions in 6 weeks in 2017
 - 5 launches in less than 3 months in 2013
 - 8 ILS Proton launches in 2010 and 2012
- 7 commercial SSTO missions
 - SSTO missions provide increased heavy-lift performance, maximizing the operational lifetime of spacecraft
- 2 shared launches on ILS Proton: SES-3 and Kazsat-2 (2011) and E5WB/MEV-1 (2019)
- Over 400 Proton launches since 1965
- 97 ILS Proton commercial launches



ANGARA HIGHLIGHTS

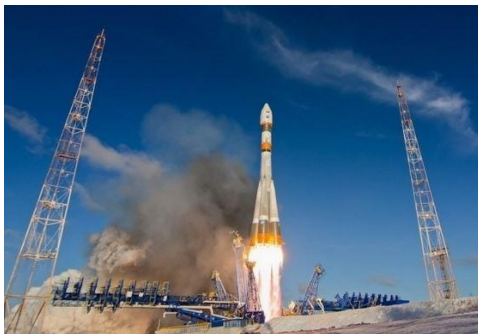
- Angara 1.2: serves the SmallSat LEO market
- 2 successful launches of Angara 1.2 launch vehicle completed
- 3 successful launches of the Angara 5 have been completed
- Angara 1.2 and Angara 5 launch pads located at Vostochny Cosmodrome

PRODUCTION HIGHLIGHTS

- Consolidated supply base
- ISO Class 8 (100,000) cleanroom facilities
- Ability to overlap commercial launch campaigns
- 2 launch pads available for commercial missions

MISSION ASSURANCE HIGHLIGHTS

- Dedicated ILS Mission Assurance focus
- Phase I, II, III and IV upgrades implemented with 100% flight success
- KhSC ISO 9001 Certified Quality Management System
- Quality management and oversight by KhSC and ILS
- Regular reporting of quality metrics to customers and insurance community
- 100% success rate since May 2015
 - 24 consecutive successful launches



PHONE: +1 703 435 5689
 EMAIL: contactus@ilslaunch.com
 12110 SUNSET HILLS ROAD, SUITE 450, RESTON, VA 20190
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