**RUSSIA'S SPACE ROCKET FLEET**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Launcher**  | **Manufacturer index**  | **Base rocket**  | **US DOD designation** | **Sheldon designation**  | **Developer** | **Payloads, notes** |
| Amur-5 | - | - | - | - | GKNPTs Khrunichev | - |
| Angara (1.2/5) | 14A125/14A127 | - | - | - | GKNPTs Khrunichev | - |
| Angara-2 | - | - | - | - | NPO Energia  | - |
| Angara-3 | - | - | - | - | GKNPTs Khrunichev | TKS follow-on  |
| Angara-7 | - | - | - | - | GKNPTs Khrunichev | LOS |
| Angara-100 | - | - | - | - | GKNPTs Khrunichev | - |
| Avrora (see R-7) | - | R-7A | SL-4 | A-2 | RKK Energia  | Soyuz-2 |
| Baikal | - | - | - | - | GKNPTs Khrunichev | - |
| Berkut | - | - | - | - | KB Mashinostroenia  | 1990s project of a light-weight launcher (2.4 tons to LEO) |
| Bulat | - | - | - | - | KB Mashinostroenia  | 1990s project of a light-weight launcher  |
| Burlak | - | - | - | - | MKB Raduga | Air-launched (1.1 tons to LEO) |
| Cosmos (see R-12, R-14) | 63S1 | R-12 | SL-7 | B-1 | OKB-586 | DS |
| Dnepr | - | - | - | - | KB Yuzhnoe  | Small commercial satellites |
| Diana | - | - | - | - | -  | - |
| Dvina | - | - | - | - | -  | - |
| Edinstvo | ULA-42 | - | - | - | GRTs KB Makeeva | 5 tons to LEO  |
| Energia | 11K25 | - | SL-17/18 | K/L | NPO Energia | Polyus, Buran, 166GK |
| Energia-M  | Neitron | - | - | - | NPO Energia | - |
| Energia-2 | - | - | - | - | NPO Energia | - |
| Faeton-2/2T | - | - | - | - | KB Mashinostroenia  | 1990s project of Russian-produced Zenit with 2-6 solid-fuel strap-ons. |
| Fregat complex (see Grom) | - | - | - | - | KB Mashinostroenia  | 1990s project of An-225-launched Grom vehicle; |
| Grom | - | - | - | - | KB Mashinostroenia  | 1990s project of An-225-launched vehicle for Fregat complex; |
| Groza  | RLA-125 | - | - | - | NPO Energia | - |
| Ishim | - | - | - | - | MIT | MIG-31-based launcher |
| Kompas | - | - | - | - | KB Mashinostroenia | - |
| Kvant | - | - | - | - | NPO Energia  | - |
| Luna (see R-7A) | 8K72 | R-7A | SL-3 | A-1 | OKB-1 | E, Vostok |
| Molniya (see R-7A) | 8K78 | R-7A | SL-6 | A-2-e | OKB-1 | Molnia, Mars/Venera, Prognoz, Zond 1-3 |
| N1/L3 | 11A52 | - | SL-15 | G | TsKBM | L-3 |
| Neitron (see Energia-M) | Neitron | - | - | - | NPO Energia | - |
| Neva | - | - | - | - | -  | 5 tons to LEO |
| Priboy | - | - | - | - | KB Mashinostroenia | Sea-launched; 2.4 tons to LEO |
| Prizyv (see UR-100) | 15A35 | UR-100NUTTKh | - | - | NPO Mash | SLA rescue craft |
| R-3 | - | R-3 | - | - | OKB-1 | Project |
| R-7A/Sputnik | 8K71PS | R-7A | SL-1 | - | OKB-1 | Sputnik-1 |
| R-7A/ Luna/Vostok | 8K72 | R-7A | SL-3 | A-1 | OKB-1 | E, Vostok |
| R-7A/Vostok-2 | 8K72V | R-7A | SL-3 | A-1 | OKB-1 | - |
| R-7A/Vostok-2M | 8K72V1 | R-7A | SL-3 | A-1 | OKB-1 | Elektron, Meteor |
| R-7A/Vostok-2M | 8K72V3 | R-7A | SL-3 | A-1 | OKB-1 | Elektron, Meteor |
| R-7A/Vostok-2M | 8K72D | R-7A | SL-3 | A-1 | OKB-1 | Elektron, Meteor |
| R-7A/Vostok-2M | 8K72-2D | R-7A | SL-3 | A-1 | OKB-1 | Elektron, Meteor |
| R-7A/ | 8A92 | R-7A | SL-3 | A-1 | OKB-1 | Zenit-2 |
| R-7A/ | 8A92V3 | R-7A | SL-3 | A-1 | OKB-1 | Zenit-2 |
| R-7A/ | 11A92 | R-7A | SL-3 | A-1 | OKB-1 | Zenit-2 |
| R-7A/Molniya | 8K78 | R-7A | SL-6 | A-2-e | OKB-1 | Molnia, Mars/Venera, Prognoz, Zond 1-3 |
| R-7A/Molniya | 8K78-MV | R-7A | SL-6 | A-2-e | OKB-1 | Mars/Venera, Prognoz, Zond |
| R-7A/Molniya | 8K78-2MV | R-7A | SL-6 | A-2-e | OKB-1 | Mars/Venera, Prognoz, Zond |
| R-7A/Molniya | 8K78-E6 | R-7A | SL-6 | A-2-e | OKB-1 | Luna |
| R-7A/Molniya | 8K78M | R-7A | SL-6 | A-2-e | TsSKB | Mars/Venera, Prognoz, Zond 1-3 |
| R-7A/ | 8A92 | R-7A | SL-5 | - | OKB-1 | IS |
| R-7A/Voskhod | 11A57 | R-7A | SL-4 | A-2 | OKB-1 | Voskhod  |
| R-7A/Voskhod | 11A59 | R-7A | SL-4 | A-2 | OKB-1 | Zenit-2 |
| R-7A/Voskhod | 11A510 | R-7A | SL-4 | A-2 | OKB-1 | Zenit-4 |
| R-7A/Soyuz | 11A511 | R-7A | SL-4 | A-2 | TsSKB | Soyuz |
| R-7A/Soyuz | 11A511M | R-7A | SL-4 | A-2 | TsSKB | Yantar |
| R-7A/Soyuz-U | 11A511-U | R-7A | SL-4 | A-2 | TsSKB | Soyuz-TM |
| R-7A/Soyuz-U2 | 11A511-U | R-7A | SL-4 | A-2 | TsSKB | Progress-M |
| R-7A/Soyuz-U2 | 11A511K | R-7A | SL-4 | A-2 | TsSKB | Resurs |
| R-7A/Soyuz-2 | 14A14 | R-7A | SL-4 | A-2 | TsSKB | commercial/military satellites |
| R-7A/Yamal | - | R-7A | SL-4 | A-2 | RKK Energia  | Enterprise |
| R-7A/Avrora | - | R-7A | SL-4 | A-2 | RKK Energia  | commercial satellites |
| R-7A/Onega | - | R-7A | SL-4 | A-2 | RKK Energia  | Kliper |
| R-7A/Soyuz-2-3 | - | R-7A | SL-4 | A-2 | RKK Energia  | Kliper, cargo containers  |
| R-7A/Soyuz-3 | - | R-7A | SL-4 | A-2 | RKK Energia  | Kliper |
| R-7A/Soyuz-1 | - | R-7A | SL-4 | A-2 | TsSKB Progress | commercial/military satellites |
| R-12/Cosmos | 63S1 | R-12 | SL-7 | B-1 | OKB-586 | DS |
| R-12/Cosmos | 8K63 | R-12 | SL-7 | B, B-1 | OKB-586, OKB-52 | M-12 space plane (1963) |
| R-12/Cosmos | 11K62M | R-12 | SL-7 | B-1 | OKB-586 | DS |
| R-12/Cosmos | 63S1M | R-12 | SL-7 | B-1 | OKB-586 | DS |
| R-12/Cosmos-2 | 11K63 | R-12 | SL-7 | B-1 | OKB-586 | DS |
| R-14/Cosmos-1 | 65S3 | R-14 | SL-8 | C-1 | OKB-586, OKB-10 | DS |
| R-14/Cosmos-3 | 8K65S3 | R-14U | SL-8 | C-1 | OKB-10 |  |
| R-14/Cosmos-3M | 8K65S5 | R-14U | SL-8 | C-1 | OKB-10 | Tsikada, Strela  |
| R-14/Cosmos-U | 11K65M | R-14U | SL-8 | C-1 | OKB-10 | - |
| R-14/Vzlet | 11K65MU | R-14U | SL-8 | C-1 | OKB-10 | - |
| R-16/Tsyklon-1 | 11K64 | R-16 | - | - | KB Yuzhnoe | - |
| R-16-based | 64S2 | R-16 | - | - | KB Yuzhnoe | Proposal |
| R-26-based | 66S4 | R-26 | - | - | KB Yuzhnoe | Proposal |
| OR-36-based | 8K69 | OR-36 | - | F-1-m | OKB-52 | Orbital warheads |
| R-36-based | 67S5 | R-36 | - | - | KB Yuzhnoe | Proposal |
| R-36/Tsyklon-2A | 11K67 | R-36 | SL-11 | F-1-m | KB Yuzhnoe | IS ASAT |
| R-36/Tsyklon-3 (Tsyklon-M) | 11K68 (8K67S5M) | R-36 | SL-14 | F-2 | KB Yuzhnoe | Meteor, Okean |
| R-36/Tsyklon-2 | 11K69 | R-36 | SL-11 | F-1-r | KB Yuzhnoe | US RORSAT |
| R-36/Tsyklon-4 (Mayak)  | - | - | - | - | KB Yuzhnoe | Project |
| R-56/RK-100 | 8K68 | - | - | - | KB Yuzhnoe | - |
| Rif-MA | ? | R-39 | - | - | KB Mashinostroenia | Air-launched 0.95-1.7 tons to LEO |
| Riksha | ? | - | - | - | KB Mashinostroenia | - |
| RLA-120 | - | - | - | - | NPO Energia | A space station; military polar platform; geostationary platform |
| RLA-125 (Groza)  | - | - | - | - | NPO Energia | - |
| RLA-130/130A (Grom) | - | - | - | - | NPO Energia | Lunar spacecraft; The MTKS-1 reusable transport |
| RLA-150  | - | - | - | - | NPO Energia | Glushko's lunar base |
| Rockot | 15A35 | UR-100NUTTKh | - | - | KB Salyut | Radio-ROSTO, Dumsat, Iridium, GRACE |
| Rossiyanka | - | -  | - | - | KB Mashinostroenia | Kliper |
| Rus-M | - | - | - | - | TsSKB | 23 tons to LEO; PPTS spacecraft |
| Shtil-1N | ? | R-29RM  | - | - | KB Mashinostroenia | 125-510 kg to LEO |
| Shtil-2N | ? | SS-N-33 | - | - | KB Mashinostroenia | 270 kg to LEO |
| Shtil-3A | ? | R-29RM | - | - | KB Mashinostroenia | Air-launched 220 kg |
| Shtil-3N | ? | SS-N-33 (RSM-54)  | - | - | KB Mashinostroenia | Ground-launched  |
| Sodruzhestvo | - | - | - | - | RKK Energia/KB Yuzhnoe | First proposed in 1999, revived in 2012 |
| Soyuz (see R-7A) | 11A511 | R-7A | SL-4 | A-2 | TsSKB | Soyuz |
| Space Kliper  | - | - | - | - | KB Yuzhnoe  | 1989-1991 project  |
| Start-1 | - | Topol | - | - | MIT | 550 kg Zeya  |
| Start | - | Topol | - | - | MIT | 1 ton - |
| Surf | ? | SS-N-21 | - | - | KB Mashinostroenia | 2.4 tons to LEO |
| Tsyklon (see R-36) | 11K67 | R-36 | SL-11 | F-1-m | KB Yuzhnoe | IS ASAT |
| Strela | 15A35 | UR-100NUTTKh | - | - | NPO Mash | Condor |
| Ulugbek | ? | - | - | - | KB Mashinostroenia | - |
| UR-200 | 8K81 | UR-200 | - | - | OKB-52 | - |
| UR-200-based | 8K81K | UR-200K | - | - | OKB-52 | - |
| UR-500K Proton | 8K82K | UR-500 | SL-12, 13 | D-1 | TsKBM | Salyut, Mir |
| UR-500K-L1, L1P | 8K82K | UR-500 | SL-12 | D-1-e | TsKBM | L1 |
| UR-500KM | 8K82KM | UR-500 | SL-12 | D-1 | KB Salyut | - |
| UR-700 | 11K87 | - | - | - | OKB-52 | LK-1 |
| UR-700M | - | - | - | - | OKB-52 | MK-700 |
| UR-900 | - | - | - | - | OKB-52 | - |
| UR-1000 | - | - | - | - | OKB-52 | - |
| Viktoria | - | -  | - | - | KB Mashinostroenia | - |
| Volna | ? | R-29RL  | - | - | KB Mashinostroenia | Submarine-launched 120 kg to LEO |
| Voskhod (see R-7A)  | 11A57 | R-7A | SL-4 | A-2 | OKB-1 | Voskhod  |
| Vostok (see R-7A) | 8K72V | R-7A | SL-3 | A-1 | OKB-1 | - |
| Vulkan (see RLA-150) | - | - | - | - | NPO Energia | Lunar excursion module (project) |
| Vysota | ? | R-29D  | - | - | KB Mashinostroenia | 115 kg to LEO |
| Vzlet (see R-14) | 11K65MU | R-14U | SL-8 | C-1 | OKB-10 | - |
| YaKhR-2 | - | R-7 | - | - | OKB-1 | 35-40-ton payload |
| Yamal (see R-7A) | - | R-7A | SL-4 | A-2 | RKK Energia  | Enterprise |
| Yenisei-5 | - | - | - | - | -  | - |
| Zenit light | 11K55 | - | - | - | KB Yuzhnoe | 1970's proposal of a light-weight launcher |
| Zenit heavy | 11K37 | - | - | - | KB Yuzhnoe | 1970's proposal of a heavy-weight launcher |
| Zenit-2  | 11K77 | - | SL-16 | J-1 | KB Yuzhnoe | - |
| Zenit-3SL  | 11K77 | - | SL-16 | - | KB Yuzhnoe | -  |
| Zyb | ? | R-21A  | - | - | KB Mashinostroenia | Sprint, Meduza |