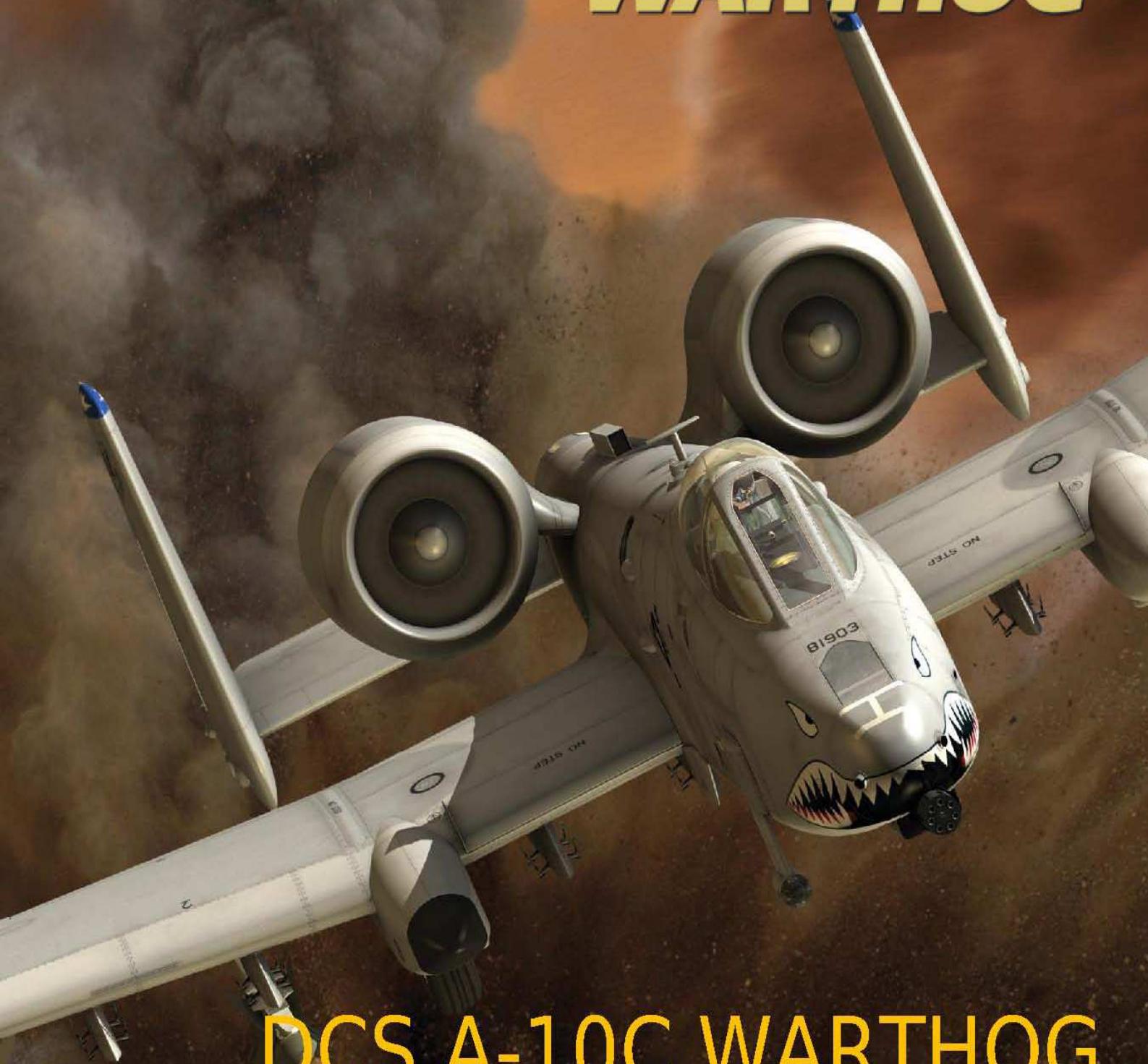




THE FIGHTER COLLECTION Eagle Dynamics



A-10C WARTHOG



DCS A-10C WARTHOG

v 1.1.1.1

Encyclopedia

DyG

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AIRPLANES

Military aircraft insignia			
			
			
			
			
			

A-10A



Name: A-10A "Thunderbolt II"
Type: close air support
Length: 16.26 m
Height: 4.47 m
Wing span: 17.53 m
Maximum Mach at S/L: 0.75
Maximum Mach at height: 0.75
Weight empty: 9389 kg
Normal weight: 11500 kg
Maximum weight: 21081 kg
G limit: 5.9
Maximum fuel: 4853 kg
Range with nominal load: 1500 km
Maximum range: 1500 km
Service ceiling: 10000 m
Take-off speed: 223.2 km/h
Landing speed: 244.8 km/h

Armament:
- GAU-8/A



A-10C



Name: A-10C
Type: Close support bomber
Crew: 1
Length: 16.26 m
Height: 4.47 m
Wing span: 17.53 m
Wing area: 47 m²
Maximum Mach at S/L: 0.75
Maximum Mach at height: 0.75
Weight empty: 9389 kg
Normal weight: 11500 kg
Maximum weight: 21081 kg
G limit: 5.9
Maximum fuel: 4853 kg
Range with nominal load: 1500 km
Maximum range: 1500 km
Service ceiling: 10000 m
Take-off speed: 223.2 km/h
Landing speed: 244.8 km/h

Armament:
- GAU-8/A



The A-10C is an enhanced version of the famous A-10A that served as a major close air support aircraft for the U.S. Air Force, Air National Guard, and Reserves for almost 30 years. A-10C has been upgraded to meet 21st century standards, using systems such as Multi-Function Color Displays (MFCD), GPS-guided weapons, and data-link support. Retaining all the features of older A-10A, the A-10C has turned into a true precision strike fighter with the most modern navigation systems, precision attack weapons (Maverick, JDAM, WCMD, and laser-guided bombs), and an integrated countermeasures system.

The A-10C has participated in operations over Iraq and Afghanistan and proved to be a precise and effective weapon in the "War on Terrorism". Its advanced equipment has greatly reduced the number of "friendly fire" incidents - thanks largely to the Situational Awareness Datalink (SADL) and the ability to better identify targets with using the Litening II AT targeting pod.

The A-10C of course retains its ability to do what it was originally designed to do: kill tanks in a conventional force-on-force battlefield.

Despite the fact that many of the computer and weapon systems are new in the A-10C, most of the remaining systems are retained from the A-10A. Engines, fuel, electrical, hydraulic and emergency systems, communications, and lighting do not differ from those in the latest versions of A-10A/A-10A+. As with previous versions, the A-10C - very easy to fly and is a stable and survivable weapons platform.

A-50



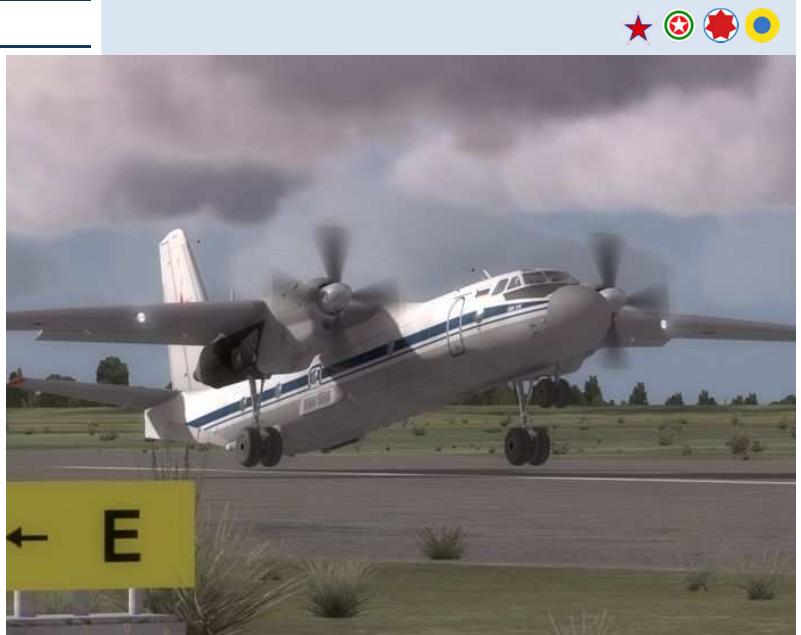
Name: A-50 "Mainstay"
Type: AWACS
Developed: Ilyushin OKB, Russia
Crew: 10
Length: 46.59 m
Height: 14.76 m
Wing span: 50.5 m
Wing area: 300 m²
Maximum Mach at S/L: 0.77
Maximum Mach at height: 0.77
Weight empty: 90000 kg
Normal weight: 160000 kg
Maximum weight: 190000 kg
G limit: 2.5
Maximum fuel: 70000 kg
Range with nominal load: 7300 km
Maximum range: 7300 km
Service ceiling: 12247 m
Take-off speed: 208.8 km/h
Landing speed: 219.6 km/h



An-26B



Name: An-26B "Curl-A"
Type: Medium-range transport
Developed: Antonov OKB, Ukraine
Crew: 5
Length: 23.8 m
Height: 8.575 m
Wing span: 29.2 m
Wing area: 75 m²
Maximum Mach at S/L: 0.55
Maximum Mach at height: 0.55
Weight empty: 15850 kg
Normal weight: 23000 kg
Maximum weight: 24000 kg
G limit: 2.5
Maximum fuel: 5500 kg
Range with nominal load: 2660 km
Maximum range: 2660 km
Service ceiling: 7500 m
Take-off speed: 216 km/h
Landing speed: 190.08 km/h



An-30M



Name: An-30M "Clank"
Type: Weather control aircraft
Developed: Antonov OKB, Ukraine
Crew: 5
Length: 23.8 m
Height: 8.575 m
Wing span: 29.2 m
Wing area: 75 m²
Maximum Mach at S/L: 0.55
Maximum Mach at height: 0.55
Weight empty: 15850 kg
Normal weight: 23000 kg
Maximum weight: 24000 kg
G limit: 2.5
Maximum fuel: 5500 kg
Range with nominal load: 2660 km
Maximum range: 2660 km
Service ceiling: 7500 m
Take-off speed: 216 km/h
Landing speed: 190.08 km/h



B-1B



Name: B-1B
Type: Strategic heavy bomber
Crew: 4
Length: 44.81 m
Height: 10.36 m
Wing span: 41.67 m
Wing area: 181 m²
Maximum Mach at S/L: 1.08
Maximum Mach at height: 1.68
Weight empty: 87090 kg
Normal weight: 140000 kg
Maximum weight: 216360 kg
G limit: 3.5
Maximum fuel: 88450 kg
Range with nominal load: 12000 km
Maximum range: 12000 km
Service ceiling: 12300 m
Take-off speed: 284.4 km/h
Landing speed: 280.8 km/h



B-52H



Name: B-52H
Type: Long-range strategic bomber
Crew: 5
Length: 48.5 m
Height: 12.4 m
Wing span: 56.4 m
Wing area: 370 m²
Airfoil: NACA 63A219.3 mod root, NACA 65A209.5 tip
Empty weight: 83,250 kg
Loaded weight: 120,000 kg
Max takeoff weight: 220,000 kg
Powerplant: 8 x Pratt & Whitney TF33-P-3/103 turbofans, 76 kN each
Fuel capacity: 181,725 L
Zero-lift drag coefficient: 0.0119 (estimated)
Drag area: 4.42 m²
Aspect ratio: 8.56
Maximum speed: 1,000 km/h
Combat radius: 7,210 km
Ferry range: 16,232 km
Service ceiling: 15,000 m
Rate of climb: 31.85 m/s
Wing loading: 595 kg/m²
Thrust/weight: 0.31
Lift-to-drag ratio: 21.5 (estimated)



C-130



Name: C-130H "Hercules"
Type: Tactical transport
Crew: 4-6
Capacity:
- 92 passengers or
- 64 airborne troops or
- 74 litter patients with 2 medical personnel
Payload: 20,000 kg including 2-3 Humvees or
an M113 Armored Personnel Carrier
Length: 29.8 m
Height: 11.6 m
Wing span: 40.4 m
Wing area: 162.1 m²
Empty weight: 38,000 kg
Useful load: 33,000 kg
Max takeoff weight: 70,300 kg
Powerplant: 4 x Allison T56-A-15 turboprops,
3,210 kW each
Maximum speed: 610 km/h
Cruise speed: 540 km/h
Range: 3,800 km
Service ceiling: 10,000 m



C-17A



Name: C-17A
Type: Long-range heavy cargo transport
Crew: 2
Length: 53.04 m
Height: 16.79 m
Wing span: 51.76 m
Wing area: 353 m²
Maximum Mach at S/L: 0.56
Maximum Mach at height: 0.56
Weight empty: 125645 kg
Normal weight: 193000 kg
Maximum weight: 265350 kg
G limit: 2.5
Maximum fuel: 132405 kg
Range with nominal load: 12993 km
Maximum range: 12993 km
Service ceiling: 13715 m
Take-off speed: 216 km/h
Landing speed: 216 km/h



E-2D



Name: E-2D "Advanced Hawkeye"
Type: AWACS Northrop Grumman (Prime),
Westinghouse, USA

Crew: 2+3
Length: 17.54 m
Height: 5.58 m
Wing span: 24.56 m
Wing area: 65.03 m²
Maximum Speed: 300 knots (552 km/h)
Weight empty: 17 850 kg
Normal weight: 20 500 kg
Maximum weight: 23 850 kg
G limit: 2.5
Maximum fuel: 5624 kg
Range with nominal load: 2854 km
Maximum range: 2854 km
Service ceiling: 11 275 m
Take-off speed: 190.8 km/h
Landing speed: 190.8 km/h
Time on station, 175 nautical miles from base:
4 hr. 24 min

Engines: Two Allison T56-A-427 engines;
each has approximately 5,100 horsepower

Weapons: None

Though once considered for replacement by the "Common Support Aircraft", this conception never went into production, and the Hawkeye will continue in its role as the Navy's primary AEW aircraft for years into the future in the E-2D version.

The latest version of the E-2, the E-2D Advanced Hawkeye, is currently under testing. The E-2D features an entirely new avionics suite, including the new APY-9 radar, radio suite, mission computer, integrated satellite communications capability, flight management system, improved turboprop engines, a new "glass cockpit", and the added capability for air-to-air refueling.

The APY-9 radar features an Active Electronically Scanned Array, which adds electronic scanning to the mechanical rotation of the radar in its radome. The E-2D will include provisions for either one of the pilots to act as a Tactical 4th Operator, who will have access to the full range of the mission's acquired data.

The E-2D's first flight occurred on 3 August 2007. The E-2D undergo Initial Operational Test and Evaluation in 2011.



E-3C



Name: E-3C
Type: AWACS
Flight crew: 4
Mission crew: 13-19
Length: 46.61 m
Height: 12.6 m
Wingspan: 44.42 m
Wing area: 283.4 m²
Maximum speed: 855 km/h
Empty weight: 73,480 kg
Loaded weight: 147,400 kg
Max takeoff weight: 156,000 kg
Powerplant: 4 x Pratt and Whitney
TF33-PW-100A turbofan, 93 kN each
Range: 7,400 km (8 hr)
Service ceiling: 9,000 m



F-117A



Name: F-117A
Type: Bomber
Crew: 1
Length: 20.08 m
Height: 3.78 m
Wing span: 13.2 m
Wing area: 105.9 m²
Maximum Mach at S/L: 1.08
Maximum Mach at height: 1.08
Weight empty: 13380 kg
Maximum weight: 23810 kg
Normal weight: 18000 kg
G limit: 4.5
Maximum fuel: 3840 kg
Range with nominal load: 2000 km
Maximum range: 2000 km
Service ceiling: 10000 m
Take-off speed: 306 km/h
Landing speed: 244.8 km/h



F-14A



Name: F-14A
Type: Multi-role fighter
Crew: 2
Length: 19.1 m
Height: 4.88 m
Wing span: 19.54 m
Wing area: 52.5 m²
Maximum Mach at S/L: 1.2
Maximum Mach at height: 2.34
Weight empty: 18951 kg
Normal weight: 29072 kg
Maximum weight: 33724 kg
G limit: 6.5
Maximum fuel: 7348 kg
Range with nominal load: 3200 km
Maximum range: 3200 km
Service ceiling: 16150 m
Take-off speed: 185.04 km/h
Landing speed: 234 km/h



Armament:
- M61A-1 cannon

F-15C



Name: F-15C
Type: Air-superiority fighter
Crew: 1
Length: 19.43 m
Height: 5.63 m
Wing span: 13.05 m
Wing area: 56.5 m²
Maximum Mach at S/L: 1.2
Maximum Mach at height: 2.5
Weight empty: 12790 kg
Normal weight: 19000 kg
Maximum weight: 30845 kg
G limit: 8
Maximum fuel: 6103 kg
Range with nominal load: 2540 km
Maximum range: 2540 km
Service ceiling: 18300 m
Take-off speed: 219.6 km/h
Landing speed: 234 km/h



Armament:
- M61A-1 cannon

F-15E



Name: F-15E
Type: Ground attack strike fighter
Crew: 2
Length: 19.43 m
Height: 5.63 m
Wing span: 13.05 m
Wing area: 56.5 m²
Maximum Mach at S/L: 1.2
Maximum Mach at height: 2.5
Weight empty: 14515 kg
Normal weight: 28440 kg
Maximum weight: 36742 kg
G limit: 8
Maximum fuel: 6103 kg
Range with nominal load: 2540 km
Maximum range: 2222 km
Service ceiling: 18200 m
Take-off speed: 219.6 km/h
Landing speed: 234 km/h



Armament:
- M61A-1 cannon,
- 4x AIM-9M Sidewinder or 4x AIM-120 AMRAAM
- 4x AIM-7M Sparrow or additional 4x AIM-120 AMRAAM
- 6x AGM-65 Maverick
- AGM-130
- AGM-84K SLAM-ER
- AGM-154 JSOW
- AGM-158 JASSM

Two-seat all-weather long-range strike and ground-attack aircraft for the U.S. Air Force. The F-15E's first flight was on 11 December 1986. The first production model of the F-15E was delivered to the U.S. Air Force in April 1988. Production continued through the 1990s until 2001 with 236 total produced for the Air Force.

F-16C

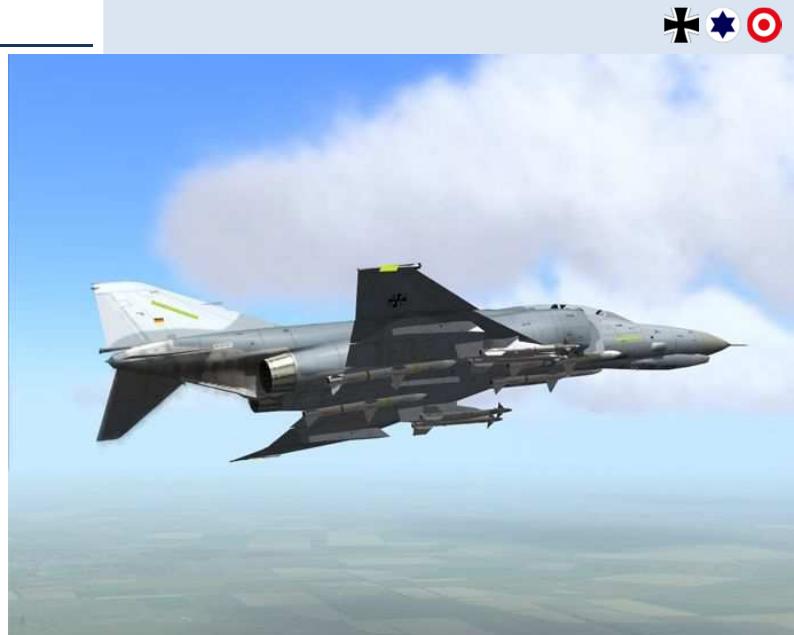
Name: F-16C
Type: Tactical fighter
Crew: 1
Length: 14.52 m
Height: 5.02 m
Wing span: 9.45 m
Wing area: 28 m²
Maximum Mach at S/L: 1.1
Maximum Mach at height: 2
Weight empty: 8853 kg
Maximum weight: 19187 kg
Normal weight: 11000 kg
G limit: 8
Maximum fuel: 3104 kg
Range with nominal load: 1500 km
Maximum range: 1500 km
Service ceiling: 15240 m
Take-off speed: 234 km/h
Landing speed: 244.8 km/h



Armament:
- M61A-1 cannon

F-4E

Name: F-4E
Type: Multi-role fighter
Crew: 2
Length: 19.2 m
Height: 5 m
Wing span: 11.68 m
Wing area: 49.24 m²
Maximum Mach at S/L: 1.09
Maximum Mach at height: 2.17
Weight empty: 14461 kg
Maximum weight: 28055 kg
Normal weight: 24430 kg
G limit: 5.9
Maximum fuel: 4864 kg
Range with nominal load: 2593 km
Maximum range: 2593 km
Service ceiling: 17907 m
Take-off speed: 208.8 km/h
Landing speed: 219.6 km/h



Armament:
- M61A-1 cannon

F-5E



Name: F-5E
Type: Tactical fighter
Crew: 1
Length: 14.68 m
Height: 4.06 m
Wing span: 8.53 m
Wing area: 17.3 m²
Maximum Mach at S/L: 1.1
Maximum Mach at height: 1.61
Weight empty: 4392 kg
Normal weight: 7800 kg
Maximum weight: 11187 kg
G limit: 7.5
Maximum fuel: 2000 kg
Range with nominal load: 2112 km
Maximum range: 2112 km
Service ceiling: 11000 m
Take-off speed: 234 km/h
Landing speed: 244.8 km/h

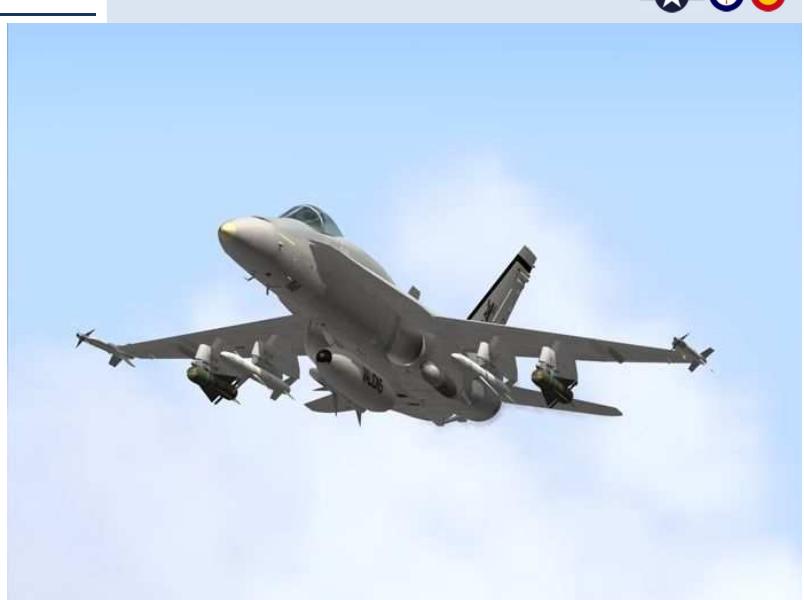


Armament:
- IWKA-Mause

F/A-18C



Name: F/A-18C
Type: Combat/strike aircraft
Crew: 1
Length: 17.07 m
Height: 4.66 m
Wing span: 11.43 m
Wing area: 37 m²
Maximum Mach at S/L: 1.1
Maximum Mach at height: 1.8
Weight empty: 10810 kg
Normal weight: 16651 kg
Maximum weight: 25401 kg
G limit: 7
Maximum fuel: 6531 kg
Range with nominal load: 1520 km
Maximum range: 1520 km
Service ceiling: 15240 m
Take-off speed: 248.4 km/h
Landing speed: 234 km/h



Armament:
- M61A-1 cannon

IL-76MD



Name: IL-76MD "Candid-B"
Type: Long-range transport
Developed: Ilyushin OKB, Russia
Crew: 4
Length: 46.59 m
Height: 14.76 m
Wing span: 50.5 m
Wing area: 300 m²
Maximum Mach at S/L: 0.77
Maximum Mach at height: 0.77
Weight empty: 100000 kg
Normal weight: 150000 kg
Maximum weight: 180000 kg
G limit: 2.5
Maximum fuel: 80000 kg
Range with nominal load: 7300 km
Maximum range: 7300 km
Service ceiling: 12000 m
Take-off speed: 208.8 km/h
Landing speed: 219.6 km/h



IL-78M



Name: IL-78M "Midas"
Type: Flight refueling tanker
Developed: Ilyushin OKB, Russia
Crew: 5
Length: 46.59 m
Height: 14.76 m
Wing span: 50.5 m
Wing area: 300 m²
Maximum Mach at S/L: 0.77
Maximum Mach at height: 0.77
Weight empty: 98000 kg
Normal weight: 150000 kg
Maximum weight: 210000 kg
G limit: 2.5
Maximum fuel: 90000 kg
Range with nominal load: 7300 km
Maximum range: 7300 km
Service ceiling: 12000 m
Take-off speed: 208.8 km/h
Landing speed: 219.6 km/h





Name: KC-135 "Stratotanker"
 Type: Flight refueling tanker
 Crew: 3
 Length: 41.53 m
 Height: 12.70 m
 Wing span: 39.88 m
 Wing area: 226.03 m²
 Maximum Mach at height: 0.78
 Weight empty: 44664 kg
 Normal weight: 136806 kg
 Maximum weight: 143335 kg
 G limit: 2.5
 Maximum fuel: 86050 kg
 Service ceiling: 13715 m
 Maximum range: 14806 km



Like its sibling, the commercial Boeing 707 jetliner, the KC-135 was derived from the Boeing 367-80 jet transport "proof of concept" demonstrator, which was commonly called the "Dash-80". As such the KC-135 is similar, but has a narrower fuselage and is shorter than the 707.

In the 1980s the first modification program re-engined 157 Air Force Reserve (AFRES) and Air National Guard (ANG) tankers with the Pratt & Whitney TF-33-PW-102 engines from 707 airliners retired in the late 1970s and early 1980s. The re-engined tanker, designated the KC-135E, was 14% more fuel efficient than the KC-135A and could offload 20% more fuel on long duration flights. (The difference is that the A-model weighed only 104,000 lb empty, while the E-model weighed 115,000 lb empty. But the maximum takeoff weight was not increased for the E-model. Therefore, the A-model could takeoff with 200,000 lb of fuel, while the E-model could only takeoff with 190,000 lb of fuel.) Only the KC-135E aircraft were equipped with thrust-reversers for takeoff aborts and shorter landing roll-outs. The KC-135E fleet has since either been re-engined into the R-model configuration or placed into long term storage ("XJ"), as Congress has prevented the Air Force from formally retiring them. The final KC-135E, tail number 56-3630, was delivered by the 101st Air Refueling Wing of the Maine ANG to the 309th Aerospace Maintenance and Regeneration Group (AMARG) at Davis-Monthan AFB in September 2009.

The KC-135 was initially purchased to support bombers of the Strategic Air Command, but by the late 1960s, in the Southeast Asia the KC-135 Stratotanker's ability as a force multiplier came to the fore. Midair refueling of F-105 and F-4 fighter-bombers as well as B-52 bombers brought far-flung bombing targets within reach, and allowed fighter missions to spend hours at the front, rather than just a few minutes, due to their limited fuel reserves. KC-135 crews refueled both Air Force and Navy / Marine Corps aircraft, though they would have to change to probe and drogue adapters depending upon the mission. Crews also helped to bring in damaged aircraft which could fly while being fed by fuel to a landing site. KC-135s continued their tactical support role in later conflicts such as Desert Storm and current aerial strategy.



Name: L-39ZA
 Type: Trainer
 Crew: 2
 Length: 12.13
 Height: 4.77 m
 Wing span: 9.46 m
 Wing area: 47,1 m²
 Weight empty: 3455 kg
 Normal weight: 4525 kg
 Maximum weight: 4700 kg
 Maximum fuel: 980 kg
 Range with nominal load: 1650 km

Armament:
 - GSH-23



MQ/RQ-1



Name: MQ/RQ-1 Predator
Type: UAV
Developed: General Atomics, USA
Crew: none
Length: 8.22 m
Height: 2.1 m
Wing span: 14.8 m
Wing area: 11.5 m²
Maximum Speed: 217 km/h
Weight empty: 512 kg
Maximum weight: 1,020 kg
Maximum range: 3704 km
Service ceiling: 7,620 m
Take-off speed: 100 km/h

Armament:
2 x AGM-114 Hellfire (MQ-1)



The General Atomics MQ-1 Predator is an unmanned aerial vehicle (UAV) which the United States Air Force describes as a MALE (medium-altitude, long-endurance) UAV system. It can serve in a reconnaissance role and fire two AGM-114 Hellfire missiles.

The MQ-1 Predator is a system, not just an aircraft. The fully operational system consists of four air vehicles (with sensors), a ground control station (GCS), a Predator primary satellite link communication suite, and 55 people.

The Predator air vehicle and sensors are controlled from the ground station via a C-band line-of-sight data link or a Ku-band satellite data link for beyond-line-of-sight operations. During flight operations the crew in the ground control station is a pilot and two sensor operators. The aircraft is equipped with the AN/AAS-52 Multi-spectral Targeting System, a color nose camera (generally used by the pilot for flight control), a variable aperture day-TV camera, and a variable aperture infrared camera (for low light/night). Previously, Predators were equipped with a synthetic aperture radar for looking through smoke, clouds or haze, but lack of use validated its removal to reduce weight.

All Predators are equipped with a laser designator that allows the pilot to identify targets for other aircraft and even provide the laser-guidance for manned aircraft. This laser is also the designator for the AGM-114 Hellfire that are carried on the MQ-1.

MiG-23MLD



Name: MiG-23MLD "Flogger-K"

Type: Fighter
Developed: Mikoyan-Gurevich OKB, Russia
Crew: 1
Length: 15.7 m
Height: 5.772 m
Wing span: 14 m
Wing area: 37 m²
Maximum Mach at S/L: 1.1
Maximum Mach at height: 2.35
Weight empty: 10550 kg
Normal weight: 14700 kg
Maximum weight: 17800 kg
G limit: 6.5
Maximum fuel: 3800 kg
Range with nominal load: 1950 km
Maximum range: 1950 km
Service ceiling: 18500 m
Take-off speed: 252 km/h
Landing speed: 252 km/h



Armament:
- GSh-23L cannon

MiG-25PD



Name: MiG-25PD "Foxbat-E"
Type: Interceptor
Developed: Mikoyan-Gurevich OKB, Russia
Crew: 1
Length: 23.82 m
Height: 6.1 m
Wing span: 14 m
Wing area: 61 m²
Maximum Mach at S/L: 1.2
Maximum Mach at height: 2.83
Weight empty: 20000 kg
Normal weight: 37500 kg
Maximum weight: 41200 kg
G limit: 4.5
Maximum fuel: 15245 kg
Range with nominal load: 1250 km
Maximum range: 1920 km
Service ceiling: 24200 m
Take-off speed: 270 km/h
Landing speed: 270 km/h



Armament:
- 4xR-40TR/TD missiles

MiG-25RBT



Name: MiG-25RBT "Foxbat-B"
Type: Reconnaissance aircraft
Developed: Mikoyan-Gurevich OKB, Russia
Crew: 1
Length: 23.82 m
Height: 6.1 m
Wing span: 14 m
Wing area: 61 m²
Maximum Mach at S/L: 1.2
Maximum Mach at height: 2.83
Weight empty: 20000 kg
Normal weight: 37500 kg
Maximum weight: 41200 kg
G limit: 4.5
Maximum fuel: 15245 kg
Range with nominal load: 1250 km
Maximum range: 1920 km
Service ceiling: 24200 m
Take-off speed: 270 km/h
Landing speed: 270 km/h



Armament:
- 4xR-60 missiles
- bombs

MiG-27K



Name: MiG-27K "Flogger-D"
Type: Tactical attack fighter
Developed: Mikoyan-Gurevich OKB, Russia
Crew: 1
Length: 16.7 m
Height: 5.64 m
Wing span: 14 m
Wing area: 34 m²
Maximum Mach at S/L: 1.2
Maximum Mach at height: 1.7
Weight empty: 11000 kg
Normal weight: 15200 kg
Maximum weight: 18900 kg
G limit: 5.9
Maximum fuel: 4500 kg
Range with nominal load: 1950 km
Maximum range: 1950 km
Service ceiling: 17000 m
Take-off speed: 302.4 km/h
Landing speed: 288 km/h



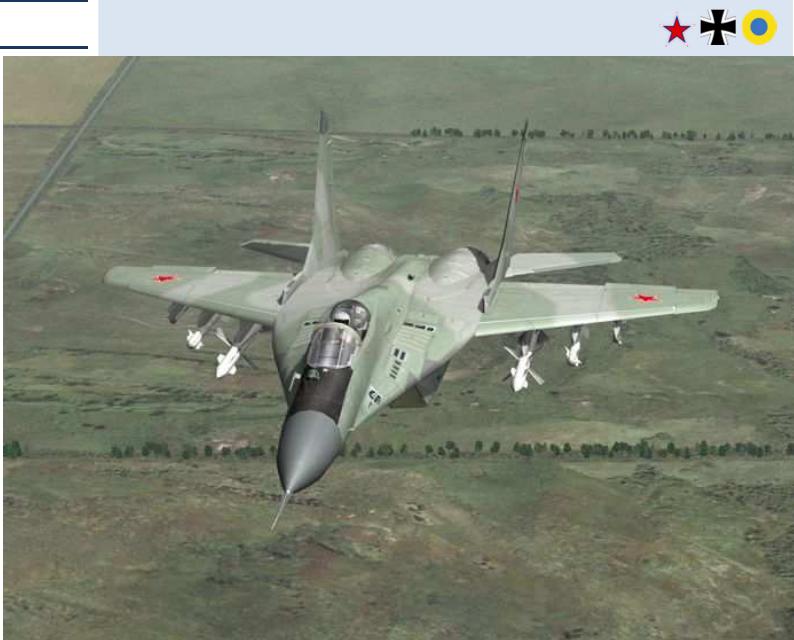
Armament:

- GSh-6-23 cannon

MiG-29A



Name: MiG-29A "Fulcrum-A"
Type: Counter-air fighter
Developed: Mikoyan-Gurevich OKB, Russia
Crew: 1
Length: 17.32 m
Height: 4.73 m
Wing span: 11.36 m
Wing area: 38.1 m²
Maximum Mach at S/L: 1.225
Maximum Mach at height: 2.3
Weight empty: 11200 kg
Normal weight: 13240 kg
Maximum weight: 19700 kg
G limit: 9
Maximum fuel: 3380 kg
Range with nominal load: 1500 km
Maximum range: 1500 km
Service ceiling: 18000 m
Take-off speed: 241.2 km/h
Landing speed: 252 km/h



Armament:

- GSh-301 cannon

MiG-29S



Name: MiG-29S "Fulcrum-C"
Type: Counter-air fighter
Developed: Mikoyan-Gurevich OKB, Russia
Crew: 1
Length: 17.32 m
Height: 4.73 m
Wing span: 11.36 m
Wing area: 38.1 m²
Maximum Mach at S/L: 1.225
Maximum Mach at height: 2.3
Weight empty: 11200 kg
Normal weight: 13240 kg
Maximum weight: 19700 kg
G limit: 9
Maximum fuel: 3500 kg
Range with nominal load: 1500 km
Maximum range: 1500 km
Service ceiling: 18000 m
Take-off speed: 241.2 km/h
Landing speed: 252 km/h



Armament:

- GSh-301 cannon

MiG-31



Name: MiG-31 "Foxhound"
Type: Strategic interceptor
Developed: Mikoyan-Gurevich OKB, Russia
Crew: 2
Length: 22.7 m
Height: 6.15 m
Wing span: 13.46 m
Wing area: 61.6 m²
Maximum Mach at S/L: 1.225
Maximum Mach at height: 2.83
Weight empty: 21820 kg
Normal weight: 35000 kg
Maximum weight: 46200 kg
G limit: 5
Maximum fuel: 15500 kg
Range with nominal load: 2400 km
Maximum range: 2400 km
Service ceiling: 21000 m
Take-off speed: 259.2 km/h
Landing speed: 259.2 km/h



Armament:

- GSh-6-23 cannon
- 4xR-33
- 2xR-40
- 4xR-60

Mirage 2000-5



Name: Mirage 2000-5
Type: Multi-role fighter
Crew: 1
Length: 14.36 m
Height: 5.2 m
Wing span: 9.13 m
Wing area: 41 m²
Maximum Mach at S/L: 1.2
Maximum Mach at height: 2.2
Weight empty: 7500 kg
Normal weight: 9525 kg
Maximum weight: 17000 kg
G limit: 9
Maximum fuel: 3160 kg
Range with nominal load: 1852 km
Maximum range: 1852 km
Service ceiling: 16460 m
Take-off speed: 230.4 km/h
Landing speed: 230.4 km/h



Armament:
- 2x30mm DEFA-554 guns

S-3B



Name: S-3B "Viking"
Type: Carrier based patrol/attack aircraft
Crew: 4
Length: 16.26 m
Height: 6.93 m
Wing span: 20.93 m
Wing area: 55.55 m²
Maximum Mach at S/L: 0.682
Maximum Mach at height: 0.682
Weight empty: 12088 kg
Normal weight: 19278 kg
Maximum weight: 23831 kg
G limit: 2.5
Maximum fuel: 5500 kg
Range with nominal load: 3701 km
Maximum range: 3701 km
Service ceiling: 7500 m
Take-off speed: 216 km/h
Landing speed: 190.08 km/h



Armament:
- AGM-84 Harpoon
- AGM-65 Maverick
- AGM-84 SLAM
- missiles
- torpedoes
- rockets
- bombs.

Su-17M4



Name: Su-17M4 "Fitter-D"
Type: Close support aircraft
Developed: Sukhoi OKB, Russia
Crew: 1
Length: 19.26 m
Height: 5.129 m
Wing span: 13.68 m
Wing area: 38.5 m²
Maximum Mach at S/L: 1.1
Maximum Mach at height: 1.7
Weight empty: 10670 kg
Normal weight: 15230 kg
Maximum weight: 19430 kg
G limit: 5.9
Maximum fuel: 3770 kg
Range with nominal load: 1760 km
Maximum range: 2300 km
Service ceiling: 15200 m
Take-off speed: 360 km/h
Landing speed: 284.4 km/h



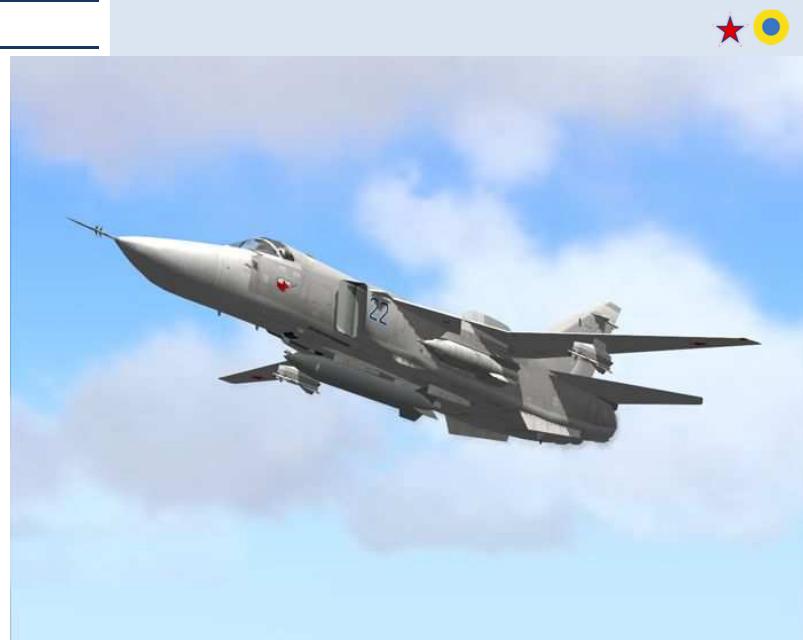
Armament:

- GSh-301 cannon

Su-24M



Name: Su-24 "Fencer-D"
Type: Bomber
Developed: Sukhoi OKB, Russia
Crew: 2
Length: 24.53 m
Height: 4.97 m
Wing span: 17.64 m
Wing area: 55.17 m²
Maximum Mach at S/L: 1.08
Maximum Mach at height: 1.35
Weight empty: 22300 kg
Normal weight: 33325 kg
Maximum weight: 39700 kg
G limit: 5.9
Maximum fuel: 11700 kg
Range with nominal load: 1200 km
Maximum range: 1200 km
Service ceiling: 17500 m
Take-off speed: 280.8 km/h
Landing speed: 270 km/h



Armament:

- A-A, A-S missiles
- GBU's, CBU's
- iron bombs
- GSh-6-23M cannon

Su-24MR



Name: Su-24MR "Fencer"
Type: Reconnaissance aircraft
Developed: Sukhoi OKB, Russia
Crew: 2
Length: 24.53 m
Height: 4.97 m
Wing span: 17.64 m
Wing area: 55.17 m²
Maximum Mach at S/L: 1.08
Maximum Mach at height: 1.35
Weight empty: 22300 kg
Normal weight: 33325 kg
Maximum weight: 39700 kg
G limit: 5.9
Maximum fuel: 11700 kg
Range with nominal load: 1200 km
Maximum range: 1200 km
Service ceiling: 17500 m
Take-off speed: 280.8 km/h
Landing speed: 270 km/h



Armament:
- GSh-6-23M cannon

Su-25



Name: Su-25 "Frogfoot"
Type: Close support aircraft
Developed: Sukhoi OKB, Russia
Crew: 1
Length: 15.36 m
Height: 4.8 m
Wing span: 14.35 m
Wing area: 30.1 m²
Maximum Mach at S/L: 0.77
Maximum Mach at height: 0.8
Weight empty: 9500 kg
Normal weight: 12750 kg
Maximum weight: 17600 kg
G limit: 5.9
Maximum fuel: 3000 kg
Range with nominal load: 1250 km
Maximum range: 1250 km
Service ceiling: 7000 m
Take-off speed: 259.2 km/h
Landing speed: 244.8 km/h



Armament:
- GSh-2-30 cannon

Su-25T



Name: Su-25T
Type: Antitank aircraft
Developed: Sukhoi OKB, Russia
Crew: 1
Length: 15.33 m
Height: 5.2 m
Wing span: 14.52 m
Wing area: 30.1 m²
Maximum Mach at S/L: 0.77
Maximum Mach at height: 0.8
Weight empty: 11300 kg
Normal weight: 16500 kg
Maximum weight: 19500 kg
G limit: 6.5
Maximum fuel: 3840 kg
Range with nominal load: 700 km
Maximum range: 2500 km
Service ceiling: 10000 m
Take-off speed: 260 km/h
Landing speed: 250 km/h



Armament:

- antitank missiles – Vikhr
- antiradiation missiles - Kh-58, Kh-25MPU
- guided missiles - Kh-29L, Kh-29T, Kh-25ML, S-25L,
- guided bombs - KAB-500Kr
- bombs
- rockets
- GSh-2-30 cannon.

Su-25TM



Name: Su-25TM (Su-39) "Frogfoot"
Type: Close support aircraft
Developed: Sukhoi OKB, Russia
Crew: 1
Length: 15.35 m
Height: 5.2 m
Wing span: 14.36 m
Wing area: 30.1 m²
Maximum Mach at S/L: 0.77
Maximum Mach at height: 0.82
Weight empty: 10600 kg
Normal weight: 12750 kg
Maximum weight: 19500 kg
G limit: 5.9
Maximum fuel: 3840 kg
Range with nominal load: 2250 km
Maximum range: 2250 km
Service ceiling: 10000 m
Take-off speed: 259.2 km/h
Landing speed: 244.8 km/h



Armament:

- Missiles AG: Kh-29L/T, Kh-25ML, S-25L, Vikhr
- Missiles AS: Kh-31A, Kh-35
- Missiles AR: Kh-31P, Kh-58, Kh-25MPU
- Bombs guided: KAB-500kr, KAB-500L
- Unguided bombs
- Rockets: S-25
- Gun internal: GSh-2-30
- Gun external: SPPU-22
- Radar: NIIR-N027 "Kopyo-25"

Su-27



Name: Su-27 "Flanker-B"
Type: Air-superiority fighter
Developed: Sukhoi OKB, Russia
Crew: 1
Length: 22 m
Height: 5.93 m
Wing span: 14.7 m
Wing area: 65 m²
Maximum Mach at S/L: 1.14
Maximum Mach at height: 2.35
Weight empty: 16000 kg
Normal weight: 20000 kg
Maximum weight: 30000 kg
G limit: 9
Maximum fuel: 9400 kg
Range with nominal load: 3740 km
Maximum range: 3740 km
Service ceiling: 18500 m
Take-off speed: 270 km/h
Landing speed: 234 km/h



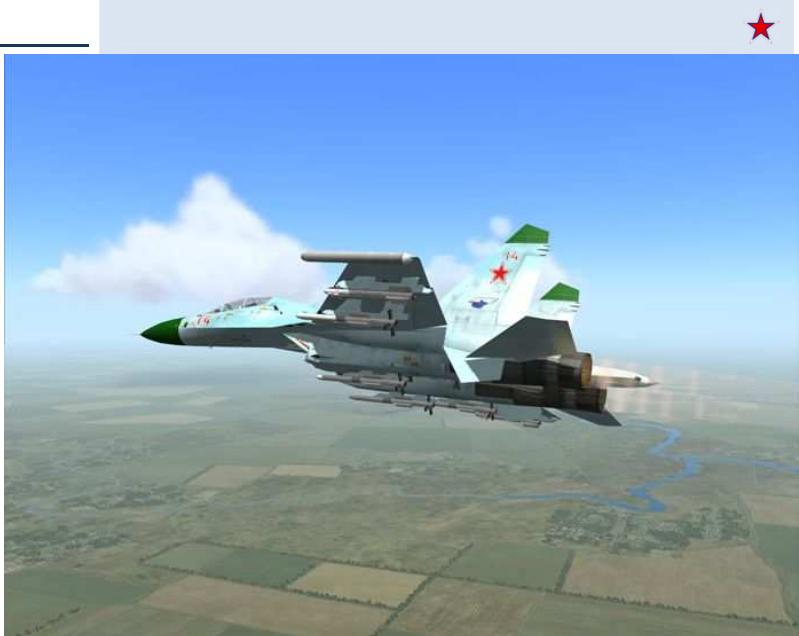
Armament:

- GSh-301 cannon

Su-30



Name: Su-30 "Flanker-C"
Type: Combat aircraft
Developed: Sukhoi OKB, Russia
Crew: 2
Length: 22 m
Height: 6.35 m
Wing span: 14.7 m
Wing area: 62 m²
Maximum Mach at S/L: 1.14
Maximum Mach at height: 2.35
Weight empty: 17700 kg
Normal weight: 22000 kg
Maximum weight: 30500 kg
G limit: 9
Maximum fuel: 9400 kg
Range with nominal load: 3000 km
Maximum range: 3000 km
Service ceiling: 17250 m
Take-off speed: 270 km/h
Landing speed: 234 km/h



Armament:

- GSh-301 cannon

Su-33



Name: Su-33 "Flanker-D"
Type: Ship-based air defence fighter
Developed: Sukhoi OKB, Russia
Crew: 1
Length: 21.2 m
Height: 5.9 m
Wing span: 14.7 m
Wing area: 65 m²
Maximum Mach at S/L: 1.14
Maximum Mach at height: 2.165
Weight empty: 18500 kg
Normal weight: 20000 kg
Maximum weight: 33000 kg
G limit: 9
Maximum fuel: 8500 kg
Range with nominal load: 3000 km
Maximum range: 3000 km
Service ceiling: 18500 m
Take-off speed: 270 km/h
Landing speed: 234 km/h

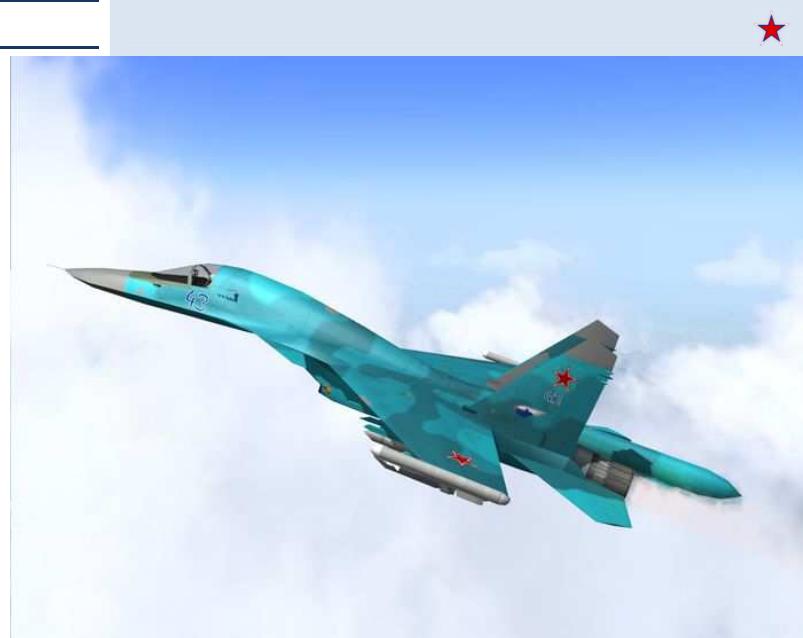


Armament:
- GSh-301 cannon

Su-34



Name: Su-34 "Fullback"
Type: Long-range bomber
Developed: Sukhoi OKB, Russia
Crew: 2
Length: 23.3 m
Height: 6 m
Wing span: 14.7 m
Wing area: 62 m²
Maximum Mach at S/L: 1.14
Maximum Mach at height: 1.8
Weight empty: 22300 kg
Normal weight: 33325 kg
Maximum weight: 45000 kg
G limit: 7
Maximum fuel: 9800 kg
Range with nominal load: 4000 km
Maximum range: 4000 km
Service ceiling: 15000 m
Take-off speed: 270 km/h
Landing speed: 234 km/h



Armament:
- GSh-301 cannon

Tornado



Name: Tornado F.2 IDS GR.1A
Type: Multi-role combat aircraft
Crew: 2
Length: 16.7 m
Height: 5.7 m
Wing span: 13.91 m
Wing area: 26.6 m²
Maximum Mach at S/L: 1.2
Maximum Mach at height: 2.2
Weight empty: 14090 kg
Normal weight: 20000 kg
Maximum weight: 26490 kg
G limit: 7.5
Maximum fuel: 4663 kg
Range with nominal load: 2780 km
Maximum range: 2780 km
Service ceiling: 15200 m
Take-off speed: 212.4 km/h
Landing speed: 212.4 km/h



Armament:
- IWKA-Mauser

Tu-142M



Name: Tu-142M "Bear-F"
Type: Long-range bomber
Developed: Tupolev OKB, Russia
Crew: 10
Length: 49.13 m
Height: 13.3 m
Wing span: 50.04 m
Wing area: 295 m²
Maximum Mach at S/L: 0.53
Maximum Mach at height: 0.83
Weight empty: 96000 kg
Normal weight: 150000 kg
Maximum weight: 185000 kg
G limit: 2.5
Maximum fuel: 87000 kg
Range with nominal load: 6400 km
Maximum range: 6400 km
Service ceiling: 12000 m
Take-off speed: 288 km/h
Landing speed: 270 km/h



Armament:
- bombs
- torpedos
- GSh-23L cannon

Tu-160



Name: Tu-160 "Blackjack"
Type: Long-range strategic bomber
Developed: Tupolev OKB, Russia
Crew: 4
Length: 54.1 m
Height: 13.25 m
Wing span: 55.7 m
Wing area: 360 m²
Maximum Mach at S/L: 1.06
Maximum Mach at height: 2.05
Weight empty: 117000 kg
Normal weight: 200000 kg
Maximum weight: 275000 kg
G limit: 3.5
Maximum fuel: 157000 kg
Range with nominal load: 12300 km
Maximum range: 12300 km
Service ceiling: 15000 m
Take-off speed: 284.4 km/h
Landing speed: 280.8 km/h



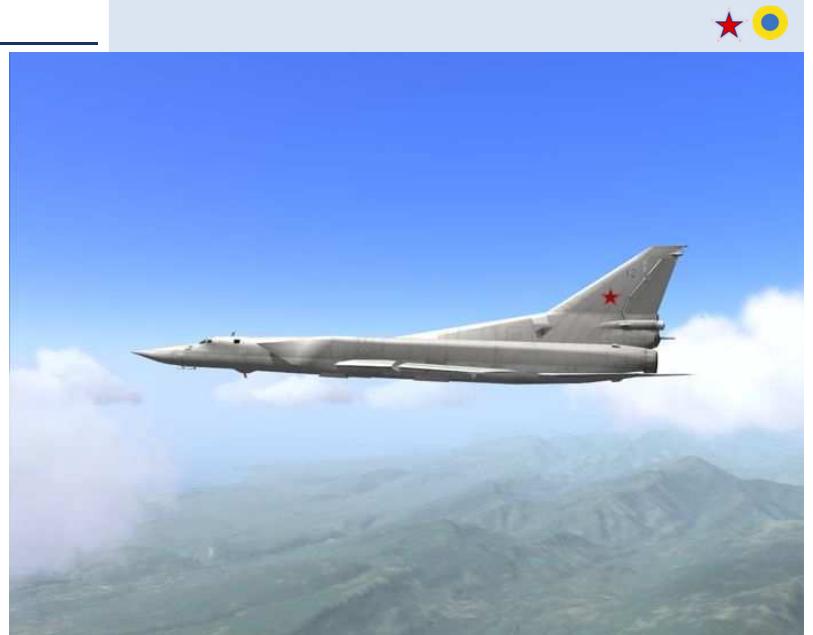
Armament:

- missiles Kh-15
- cruise missiles Kh-55, Kh-65
- bombs

Tu-22M3



Name: Tu-22M3 "Backfire-C"
Type: Medium bomber
Developed: Tupolev OKB, Russia
Crew: 4
Length: 46.12 m
Height: 11.05 m
Wing span: 34.28 m
Wing area: 183 m²
Maximum Mach at S/L: 0.86
Maximum Mach at height: 1.88
Weight empty: 50000 kg
Normal weight: 88000 kg
Maximum weight: 124000 kg
G limit: 3.5
Maximum fuel: 50000 kg
Range with nominal load: 2410 km
Maximum range: 2410 km
Service ceiling: 13500 m
Take-off speed: 284.4 km/h
Landing speed: 280.8 km/h



Armament:

- Kh-22 antiship missiles
- bombs
- GSh-23L cannon

Tu-95



Name: Tu-95 "Bear"
Type: Long-range bomber
Developed: Tupolev OKB, Russia
Crew: 10
Length: 49.13 m
Height: 13.3 m
Wing span: 50.04 m
Wing area: 295 m²
Maximum Mach at S/L: 0.53
Maximum Mach at height: 0.83
Weight empty: 96000 kg
Normal weight: 150000 kg
Maximum weight: 185000 kg
G limit: 2.5
Maximum fuel: 87000 kg
Range with nominal load: 6400 km
Maximum range: 6400 km
Service ceiling: 12000 m
Take-off speed: 288 km/h
Landing speed: 270 km/h



Armament:

- GSh-23L cannon

Yak-40



Name: Yak-40 "Codling"
Type: regional jet transport
Developed: Yakovlev OKB, USSR
First flight: October 21, 1966
Crew: 2-3
Length: 20.36 m
Height: 6.5 m
Wing span: 25.0 m
Wing area: 70.0 m²
Cruise speed, km/h: 500
Maximum speed, km/h: 600
Weight empty: 9 400 kg
Normal weight: 14 850 kg
Maximum weight: 17 200 kg
G limit: -1.7...3.5
Maximum fuel, kg: 3000
Commercial range, km, 1350
Maximum range, km: 2500
Service ceiling, m: 12 300
Take-off speed: 185 km/h
Landing speed: 165 km/h
Engines: 3*Ivchenko AI-25 turbofans,
14.7 kN (3,300 lbf) each



The Yakovlev Yak-40 is a small, three-engined airliner that is often called the first regional jet transport aircraft. It was introduced in September 1968 with Aeroflot.

Built to replace the Ilyushin Il-12/14, its main design feature was ease of operation outside major airport service areas. It was equipped with a built-in airstair and capable of STOL operations. It also featured a unique S-duct central engine.

Since the demise of the old Aeroflot, many have been converted from passenger service layout to more luxurious corporate layouts and are in use as corporate and private aircraft.

Most of the Yak-40s in active service fly in the former Soviet Union and other countries.

HELICOPTERS

Military aircraft insignia			
 Abkhazia	 Belgium	 Canada	 Denmark
 France	 Georgia	 Germany	 Israel
 Netherlands	 Norway	 Russia	 South Ossetia
 Spain	 Turkey	 Ukraine	 United Kingdom
 United States			

AH-1W



Name: AH-1W
Type: Close support/attack helicopter
Crew: 2
Main rotor diameter: 15 m
Weight empty: 4634 kg
Normal weight: 6352 kg
Maximum weight: 6690 kg
Maximum fuel: 946.4 kg
Service ceiling: 1.470 m
Maximum speed: 352 km/h
Maximum range: 595 km

Armament:
- A/A49E-7(V4) 20mm gun



AH-64A



Name: AH-64A
Type: Attack helicopter
Crew: 2
Main rotor diameter: 14.72 m
Weight empty: 4881 kg
Normal weight: 6552 kg
Maximum weight: 9225 kg
Maximum fuel: 1157 kg
Service ceiling: 4570 m
Maximum speed: 365 km/h
Maximum range: 480 km

Armament:
- M230 30mm automatic gun



AH-64D



Name: AH-64D
Type: Attack helicopter
Crew: 2
Main rotor diameter: 14.72 m
Weight empty: 4881 kg
Normal weight: 7480 kg
Maximum weight: 10107 kg
Maximum fuel: 1157 kg
Service ceiling: 4115 m
Maximum speed: 365 km/h
Maximum range: 407 km

Armament:
- M230 30mm automatic gun



CH-47D



Name: CH-47D
Type: Transport helicopter
Crew: 2
Main rotor diameter: 17.8 m
Weight empty: 10615 kg
Normal weight: 17460 kg
Maximum weight: 22680 kg
Maximum fuel: 3120 kg
Service ceiling: 2675 m
Maximum speed: 315 km/h
Maximum range: 615 km



CH-53E



Name: CH-53E
Type: Heavy transport helicopter
Crew: 3
Main rotor diameter: 24.07 m
Weight empty: 16480 kg
Normal weight: 25400 kg
Maximum weight: 31630 kg
Maximum fuel: 1908 kg
Service ceiling: 3520 m
Maximum speed: 315 km/h
Range with nominal load: 536 km
Maximum range: 536 km



Ka-27



Name: Ka-27 "Helix"
Type: Multipurpose military helicopter
Developed: Kamov OKB, Russia
Crew: 3
Main rotor diameter: 15.9 m
Weight empty: 6800 kg
Normal weight: 11000 kg
Maximum weight: 13000 kg
Maximum fuel: 1450 kg
Service ceiling: 3000 m
Maximum speed: 270 km/h
Maximum range: 800 km



Ka-50



Name: Ka-50 "Hokum-A"
Type: Close support helicopter
Developed: Kamov OKB, Russia
Crew: 1
Main rotor diameter: 14.45 m
Weight empty: 7700 kg
Normal weight: 9800 kg
Maximum weight: 10800 kg
G limit: 3.5
Maximum fuel: 2400 kg
Service ceiling: 5070 m
Maximum speed: 350 km/h
Maximum range: 450 km

Armament:
- 2A42 cannon



Mi-24



Name: Mi-24 "Hind"
Type: Gunship helicopter
Developed: Mil OKB, Russia
Crew: 2
Main rotor diameter: 17.28 m
Weight empty: 8200 kg
Normal weight: 11200 kg
Maximum weight: 11500 kg
Maximum fuel: 1192 kg
Service ceiling: 2500 m
Maximum speed: 330 km/h
Maximum range: 500 km

Armament:
- Yak-B 12.7mm machine gun
- 9K114 Shturm complex
- UB-32 S-5 rocket launchers
- S-24 240 mm rocket
- B-8V20 a lightweight long tubed helicopter version
of the S-8 rocket launcher
- Bombs within weight range (presumably ZAB, FAB, RBK, ODAB etc.), Up to 500 kg.
- MBD multiple ejector racks (presumably MBD-4 with 4xFAB-100)



Mi-26



Name: Mi-26 "Halo"
Type: Heavy transport helicopter
Developed: Mil OKB, Russia
Crew: 2
Main rotor diameter: 31.6 m
Weight empty: 28200 kg
Normal weight: 49600 kg
Maximum weight: 56000 kg
Maximum fuel: 9600 kg
Service ceiling: 1800 m
Maximum speed: 295 km/h
Maximum range: 670 km



Mi-28



Name: Mi-28 "Havoc"
Type: Attack helicopter
Developed: Mil OKB, Russia
Crew: 2
Main rotor diameter: 17.2 m
Weight empty: 8500 kg
Normal weight: 1000 kg
Maximum weight: 12000 kg
Maximum fuel: 1500 kg
Service ceiling: 5070 m
Maximum speed: 300 km/h
Maximum range: 530 km



Mi-8MT



Name: Mi-8MT "Hip"
Type: Medium transport helicopter
Developed: Mil OKB, Russia
Crew: 2
Main rotor diameter: 21.4 m
Weight empty: 6800 kg
Normal weight: 11100 kg
Maximum weight: 13000 kg
Maximum fuel: 2296 kg
Service ceiling: 1800 m
Maximum speed: 250 km/h
Maximum range: 580 km



OH-58D



Name: OH-58D
Type: Infantry squad transport helicopter
Crew: 1
Main rotor diameter: 10.67 m
Weight empty: 1490 kg
Normal weight: 1900 kg
Maximum weight: 2495 kg
Maximum fuel: 454 kg
Service ceiling: 6250 m
Maximum speed: 222 km/h
Maximum range: 556 km



SH-60B



Name: SH-60B
Type: Anti-ship helicopter
Crew: 2
Main rotor diameter: 14.712 m
Weight empty: 6190 kg
Normal weight: 9180 kg
Maximum weight: 9925 kg
Maximum fuel: 1157 kg
Service ceiling: 4510 m
Maximum speed: 293 km/h
Maximum range: 480 km



UH-1H



Name: UH-1H
Type: Multipurpose utility helicopter
Crew: 2
Passengers: 12-14
Main rotor diameter: 14,63 m
Equipped weight: 2520 kg
Maximum weight: 4310 kg
Service ceiling: 6250 m
Maximum speed: 204 km/h



UH-60A



Name: UH-60A
Type: Infantry squad transport helicopter
Crew: 2
Main rotor diameter: 14.712 m
Weight empty: 5735 kg
Normal weight: 9260 kg
Maximum weight: 9980 kg
Maximum fuel: 1157 kg
Service ceiling: 4170 m
Maximum speed: 293 km/h
Maximum range: 600 km



SHIPS

Military aircraft insignia			
 Abkhazia	 Belgium	 Canada	 Denmark
 France	 Georgia	 Germany	 Israel
 Netherlands	 Norway	 Russia	 South Ossetia
 Spain	 Turkey	 Ukraine	 United Kingdom
 United States			



CG 1164 Moscva



Type: Cruiser
Complement: 476
Displacement, tons: 9800 standard 11300 full load
Dimensions, m: 186x20,8x8,3
Speed, knots: 32
Range, miles: 2500 at 30 kts, 6800 at 18 kts

Armament:

- 16 SSM Bazalt
- 8x8 SAM Fort
- 2x2 SAM Osa
- 1x2 AK-130 gun
- 6x6-30mm AK-630 gun
- 1 Ka-27 Helix



CG-60 Normandy (Ticonderoga)



Type: Cruiser
Complement: 390
Displacement, tons: 7650 standard 9900 full load
Dimensions, m: 172,8x16,8x9,5
Speed, knots: 34
Range, miles: 3000 at 32 kts, 9000 at 15 kts

Armament:

- SLCM/SSM Tomahawk
- 2x4 SSM Harpoon
- SAM Standard
- A/S ASROC
- 2x127 FMC 5 gun
- 2x6-20mm Vulcan Phalanx gun
- 2 SH-60B





Type: Cruiser
 Complement: 635
 Displacement, tons: 23750 standard 25860 full load
 Dimensions, m: 251.1 x 59 x 28.5
 Speed, knots: 32
 Range, miles: unlimited



The ship is armed with the Granit (Nato designation SS-N-19 Shipwreck) long-range anti-ship missile system. 20 Granit missiles are installed under the upper deck, mounted at a 60° elevation. The version of Granit on the Kirov is not controlled after launch. In ripple-fire mode, the lead missile follows a high flight trajectory, while the other missiles follow a low-level flight path. If the lead missile is intercepted then one of the other missiles automatically takes on the lead role.

An S-300F air defence missile complex is installed on the ship, with 12 launchers and 96 vertical-launch air defence missiles. The Osa-MA air defence missile system is supplied by the Znamya Truda Plant based at Saratov. The ship has two double launchers and 40 missiles. The system can operate autonomously or it can be integrated into the ship's combat systems and download target data from the ship's sensors. Osa-MA has a range of 1.2 to 10km at an altitude between 25m and 5,000m.

The ship is equipped with a Kashstan air-defence missile / gun system, supplied by the Instrument Design Bureau of Tula. The system provides defence against a range of precision weapons including anti-ship and anti-radar missiles and air bombs, aircraft, and small naval ships. Two command modules and six combat modules are installed on the ship. The command module provides autonomous operation by detecting the threats, distributing the threat data and designating the targets to the combat modules. The combat module automatically tracks the target with radar and television, calculates firing data and engages the target with missiles and guns.

The missile range is 8km and the gun range is 1.5km for altitudes up to 4,000m. The system can engage up to six targets simultaneously, one for each combat module. The guns can fire at a rate of 1,000 rounds a minute.

The Kirov is fitted with a 130mm AK-130 multipurpose twin-barrel gun supplied by the Ametist Design Bureau, Izumrud JSC and the Tula Engineering Plant. The main components of the artillery system are a computer-based control system with a multi-band radar, television and optical target sighting, and a gun mount with a turret-mounted Kondensor optical sighting unit.

The gun can be operated under fully automatic remote control interfaced to the radar control system, under autonomous control from the sighting unit or can be laid manually. Range is over 22km and maximum rate of fire is 35 rounds/min. The ship also has a 30mm AK-630 artillery system.

The ship has ten torpedo tubes for 20 Vodopad-NK anti-submarine missiles or torpedoes. The ship has two anti-submarine and anti-torpedo rocket systems, the Udav-1 with 40 anti-submarine rockets and the RBU-1000. The ship has two RBU-1000 six-tube launchers, with 102 rockets.

"Kirov is fitted with a 130mm AK-130 multipurpose twin-barrel gun."

The ship accommodates three Kamov Ka-27PL or Ka-25RT helicopters. The Kamov-27 (Nato codename Helix) is equipped for anti-submarine warfare with surface search radar, sonobuoys, dipping sonar, and magnetic anomaly detectors. The Ka-27 can be armed with torpedoes, bombs, mines and rockets. The Ka-25RT (Hormone) helicopter is the predecessor of the Ka-27.

CV 1143.5 Admiral Kuznetsov



Type: Aircraft carrier
 Complement: 2590
 Displacement, tons: 55000 standard 67500 full
 Dimensions, m: 305 x 66 x 72
 Speed, knots: 30
 Range, miles: 3850 at 29 kts, 8500 at 18 kts



Armament:

- 12 SSM Granit
- 4x6 SAM Kynshal
- 8 SAM Kashtan
- 6x6-30mm AK-630 gun
- 36 Su-33
- 16 Ka-27

CVN-70 Carl Vinson



Type: Aircraft carrier
Complement: 3184
Displacement, tons: 72916 full load
Dimensions, m: 332,9x76,8x11,5
Speed, knots: 30
Range, miles: 3850 at 29 kts, 8500 at 18 kts

Armament:
- 3 SAM Mk 29 Sea Sparrow
- 4x6-20mm Vulcan Phalanx gun
- 20 F-14
- 36 F/A-18
- 4 EA-6B
- 4 E-2C
- 8 S-3A/B



Dry cargo ship Ivanov



Type: dry-cargo ship
Complement: 15
Displacement, tons: 3536
Dimensions, m: 85x15x2.4
Speed, knots: 13
Range, miles: 1500 at 12 kts

Armament: None



Dry cargo ship Yakushev



Type: dry-cargo ship
Complement: 15
Displacement, tons: 3650
Dimensions, m: 85x15x2.4
Speed, knots: 13
Range, miles: 1500 at 12 kts

Armament: None



Elnya 160 tanker



Type: Replenishment tanker
Complement: 40
Displacement, tons: 5500 standard 7300 full load
Dimensions, m: 106,2x15,4x6,75
Speed, knots: 14
Range, miles: 8600 at 12 kts

Armament: none



FF 1135M Rezky (Krivak-2)



Type: Frigate
Complement: 180
Displacement, tons: 2735 standard 3190 full load
Dimensions, m: 123,1x14,2x7,2
Speed, knots: 32
Range, miles: 1240 at 32 kts, 5125 at 14 kts

Armament:
- 2x4 A/S Rastrub
- 2x2 SAM Osa
- 2x1 AK-100 gun

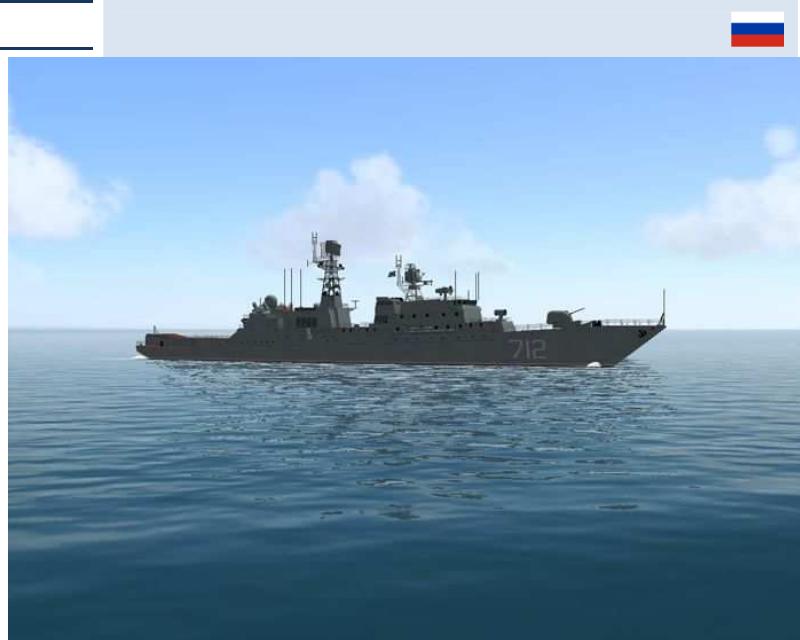


FFG 11540 Neustrashimy



Name: Neustrashimy
Type: Frigate
Developed: Russia
Crew: 210
Displacement, tons: 4250 full, 3450 standard
Dimensions, m: 129.6 x 15.5 x 4.62
Speed, knots: 32
Range, miles: 4500 at 16 knots

Armament:
- 4x8 SAM Kynshal
- 6 533mm torpedoes
- 2 mortars RBU-6000
- 1 Ka-27 Helix
- 1 100mm AK-100
- 2x6 30mm AK-630
- 12 A/S SAM Kashtan,



Type: Frigate

Complement: 206

Displacement, tons: 2750 standard 4100 full load

Dimensions, m: 138,1x13,7x7,5

Speed, knots: 29

Range, miles: 4500 at 20 kts

Armament:

- 2x4 SSM Harpoon
- SAM Standard
- 1x76 OTO Melara gun
- 1x6-20mm Vulcan Phalanx gun
- 2 SH-60B

**FFL 1124.4 Grisha-5 (Albatros)**

Type: Frigate

Complement: 79

Displacement, tons: 954 standard 1070 full load

Dimensions, m: 71,2x10,15x3,72

Speed, knots: 32

Range, miles: 950 at 27 kts, 2700 at 14 kts

Armament:

- 1x2 SAM Osa
- 1x2 AK-176 gun
- 1x6-30mm
- AK-630 gun

**FSG 1241.1MP Molniya (Tarantul-3)**

Type: Corvette

Complement: 44

Displacement, tons: 398 standard 469 full load

Dimensions, m: 56,1x10,2x2,65

Speed, knots: 42

Range, miles: 450 at 36 kts, 2400 at 13 kts

Armament:

- 2x2 SSM Mosquit
- 1x2 SAM Strela-3
- 1x2 AK-176 gun
- 2x6-30mm AK-630 gun



SSK 641B Tango (Som)



Type: Patrol submarine
Complement: 78
Displacement, tons: 2750 standard 3546 full load
Dimensions, m: 90,2x8,6x5,9
Speed, knots: 13/16
Range, miles: 450 at 2 kts dived, 6000 at 7 kts

Armament:
- 6 -21in tubes



SSK 877 Kilo



Type: Patrol submarine
Complement: 53
Displacement, tons: 2325 standard 3076 full load
Dimensions, m: 72,6x9,9x6,6
Speed, knots: 12/18
Range, miles: 400 at 10 kts dived, 6000 at 7 kts

Armament:
- 8 SAM Igla-1
- 6 -21in tubes



Zwezdny



Type: Civilian boat
Complement: 14+200
Displacement, tons: 75 standard 95 full load
Dimensions, m: 33,5x5,3x1,6
Speed, knots: 14.2
Range, miles: 120 at 12 kts, 350 at 8 kts

Armament: None



VEHICLES

Military aircraft insignia			
			
Abkhazia	Belgium	Canada	Denmark
			
France	Georgia	Germany	Israel
			
Netherlands	Norway	Russia	South Ossetia
			
Spain	Turkey	Ukraine	United Kingdom
			
United States			

AAA	- Anti-Aircraft Artillery
AMG	- Antenna Mast Group
APC	- Armored Personnel Carrier
ARV	- Armored Recovery Vehicle
ATGM	- Anti-Tank Guided Missile
CP	- Command Post
CRG	- Communications Relay Group
ECS	- Engagement Control Station
EPP	- Electric Power Plant
EWR	- Early Warning Radar
FST	- Fuel Servicing Truck
GCS	- Ground Control Station
GPU	- Ground Power Unit
HEMTT	- Heavy Expanded Mobility Tactical Truck
HFR	- Height Finder Radar
HMMWV	- High Mobility Multipurpose Wheeled Vehicle
HPI	- High Power Illuminator
ICC	- Information Coordination Central
ICV	- Infantry Carrier Vehicle
IFV	- Infantry Fighting Vehicle
LM	- Launcher Station
MBT	- Main Battle Tank
MLRS	- Multiple Launch Rocket System
PAR	- Precision Approach Radar
RPG	- Rocket-Propelled Grenade
SAM	- Surface-to-Air Missile
SPAAA	- Self-Propelled Anti-Aircraft Artillery
SPG	- Self-Propelled Gun
SPH	- Self-Propelled Howitzer
SR	- Search Radar
STR	- Search/Track Radar
TAR	- Target Acquisition Radar
TOW	- Tube-launched, Optically tracked, Wire-guided Missile
TR	- Track Radar
TFFT	- Tactical Fire Fighting Truck

APC BTR-80

Type: Armored Personnel Carrier

Crew: 2+9

Length: 7.6 m

Width: 2.9 m

Height: 2.3 m

Combat weight: 13 600 kg

Engine: V-8 260 hp

Wheel formula: 8x8

Max road speed: 80 km/h

Max water speed: 10 km/h

Operating range: 700 km

Armament:

- 14.5 mm KPVT machine gun

- 7.62 mm PKT machine gun



APC LVTP-7



Type: Amphibious Assault Vehicle

Crew: 3+25

Length: 7.943 m

Width: 3.27 m

Height: 3.263 m

Combat weight: 22838 kg

Ground pressure: 0.57 kg/sq.cm

Ground clearance: 0.406 m

Power-to-weight ratio: 17.51 hp/t

Engine: 8V-53T V-8 diesel 400 hp

Max road speed: 64 km/h

Max water speed: 13.5 km/h

Armor:

- 12-45 mm

Armament:

- 12.7 mm M2 machine gun



APC M1025 HMMWV



Type: M1025 High Mobility Multipurpose Wheeled Vehicle

(HMMWV or Humvee)

Crew: 2-4

Length: 4.72 m

Width: 2.18 m

Height: 1.83 m

Empty weight : 2855 kg

Max vehicle load: 1135 kg

Max towed load: 1542 kg

Ground clearance: 0.41 m

Engine: GM V-8 diesel 150 hp

Wheel Configuration: 4x4

Max road speed: 113 km/h

Operational range (road): 482 km



APC M1043 HMMWV



Type: M1043 Armament Carrier HMMWV

Crew: 2-4

Length: 4.72 m

Width: 2.18 m

Height: 1.83 m

Empty weight : 2855 kg

Max vehicle load: 1135 kg

Max towed load: 1542 kg

Ground clearance: 0.41 m

Engine: GM V-8 diesel 150 hp

Wheel Configuration: 4x4

Max road speed: 113 km/h

Operational range (road): 482 km

Armament:

- 12.7 mm M2 machine gun



APC M1126 Stryker ICV



Type: Infantry Carrier Vehicle

Crew: 2+9

Length: 6.985 m

Width: 2.717 m

Height: 2.641 m

Combat weight: 17 234 kg

Engine: diesel 350 hp

Wheel formula: 8x8

Max road speed: 96 km/h

Fuel distance: 531 km

Armament:

- 12.7 mm M2 machine gun



APC M113



Type: Armored Personnel Carrier

Crew: 2+11

Length: 4.863 m

Width: 2.686 m

Height: 2.52 m

Combat weight: 11253 kg

Ground pressure: 0.55 kg/sq.cm

Ground clearance: 0.43 m

Power-to-weight ratio: 18.51 hp/t

Engine: 6V-53 V-6 diesel 212 hp

Max road speed: 60.7 km/h

Max water speed: 5.8 km/h

Armor

- 12-44 mm

Armament:

- 12.7 mm M2 machine gun



APC MTLB



Multi-purpose fully-amphibious armored personnel carrier



APC TPZ



Type: Armored Personnel Carrier
Crew: 2+10
Length: 6.83 m
Width: 2.98 m
Height: 2.3 m
Combat weight: 19000 kg
Ground clearance: 0.406 m
Power-to-weight ratio: 16.84 hp/t
Engine: Mercedes-Benz Model OM 402A
V8 Diesel 320 hp
Wheel formula: 6x6
Max road speed: 105 km/h
Max water speed: 10.5 km/h
Operational range: 800 km



ARV BRDM-2



Type: Amphibious Scout Car
Crew: 4
Length: 5.75 m
Width: 2.35 m
Height: 2.31 m
Combat weight: 7000 kg
Ground clearance: 0.43 m
Power-to-weight ratio: 20 hp/t
Engine: GAZ-41 V-8 140 hp
Wheel formula: 4x4
Max road speed: 100 km/h
Max water speed: 10 km/h
Operating range: 750 km

Armor

- Hull: (max) 14 mm
- Turret: (max) 7 mm

Armament:

- 14.5 mm KPVT machine gun
- 7.62 mm PKT machine gun



Name: BTR-RD "Robot"
Type: Airborn armored personnel carrier
Crew: 1+12
Length: 5.884 m
Width: 2.94
Height: 1.66 m
Combat weight: 8000 kg
Engine: diesel 240 hp
Max road speed: 61 km/h
Operating range: 500 km

Armament:
- various configurations are available
capable of launching AT-4 and AT-5 ATGMs

**ARV MT-LBu BOMAN**

Type: Armored Transporter
Crew: 2 (+6 passengers)
Length: 7.21 m
Width: 2.85 m
Height: 1.91 m
Combat weight: 15500 kg
Ground clearance: 0.40 m
Power-to-weight ratio: 19.35 hp/t
Engine: YaMZ-238N, V-8 diesel 300 hp at 2,100 rpm
Max road speed: 61 km/h
Max water speed: 6 km/h
Operating range: 500 km

Armor
- welded aluminum bullet proof

Armament:
- 7.62mm machine gun

**ATGM M1045 HMMWV TOW**

Type: M1045 HMMWV TOW Missile Launcher
Crew: 2-4
Length: 4.72 m
Width: 2.18 m
Height: 1.83 m
Empty weight : 2855 kg
Max vehicle load: 1135 kg
Max towed load: 1542 kg
Ground clearance: 0.41 m
Engine: GM V-8 diesel 150 hp
Wheel Configuration: 4x4
Max road speed: 113 km/h
Operational range (road): 482 km

Armament:
- TOW ATGM launcher



ATGM M1134 Stryker



Type: Anti-Tank Guided Missile System

Crew: 3

Length: 6.985 m

Width: 2.717 m

Height: 2.641

Combat weight: 17 237 kg

Engine: diesel 350 hp

Wheel formula: 8x8

Max road speed: 96 km/h

Operational range: 531 km

Armament:

- ATGM TOW 2-tube launcher

- 12.7mm machine gun



CP Predator GCS



Type: Ground Control Station



CP Predator TrojanSpirit



Type: Communications Central



CP SKP-11

Type: Mobile Command Post SKP-11
Chassis: ZiL-131



CP Ural-375 PBU

Type: Combat Control Unit
Chassis: URAL-375



FST ATMZ-5

Type: Fuel and lubrication oil supply truck
Chassis: URAL-375

Capacity: 4500 liters



FST ATZ-10

Type: Fuel truck
Chassis: URAL-375

Capacity: 10000 liters



FST ATZ-60

Type: Fuel truck
Chassis: MAZ-543M

Capacity: 60000 liters



FST HEMTT M-978



Type: Tanker
Heavy Expanded Mobility Tactical Truck



Type: Mobile Ground Power Unit

Chassis: Ural-375

This vehicle is serves as electrical generator for powering aircraft onboard systems and starting up engines. It can supply the following voltages: 208V and 36V AC three-phase AC, 120V one-phase AC and 28.5V DC.



Type: Ground Power Unit

Chassis: ZiL-131



IFV BMD-1



Type: Airborne Infantry Combat Vehicle

Crew: 3+4

Length: 5.4 m

Width: 2.63 m

Height: 1.62-1.97 m

Combat weight: 7,500 kg

Ground pressure: 0.57 kg/sq.cm

Ground clearance: 0.1-0.45 m

Power-to-weight ratio: 32 hp/t

Engine: 5D-20 V-6 diesel 240 hp

Max road speed: 70 km/h

Max water speed: 10 km/h

Fuel distance: 320 km

Armor

- Hull: (max) 15 mm

- Turret: (max) 23 mm

Armament:

- 73mm low pressure smoothbore short-recoil semi-automatic gun

- 7.62 mm PKT coaxial machine gun

- 9S428 ATGM launcher capable of firing

- AT-3A Sagger A and AT-3B Sagger B

- (coaxial) 1x7.62 mm PKT MG

- (forward firing) 2 single 7.62 mm PKT MGs

- (other) 1 launcher rail for 'Sagger' ATGW or ATGM

Ammunition:

- (main) 40

- (coaxial) 2,000



IFV BMP-1



Type: Infantry Combat Vehicle

Crew: 3+8

Length: 6.74 m

Width: 2.94 m

Height: 2.15 m

Combat weight: 13,500 kg

Ground pressure: 0.6 kg/sq.cm

Ground clearance: 0.39 m

Power-to-weight ratio: 22.22 hp/t

Engine: UTD-20 V-6 diesel 300 hp

Max road speed: 65 km/h

Max water speed: 7 km/h

Operational range: 550-600 km

Armament:

- 73mm low pressure smoothbore short-recoil semi-automatic gun

- 7.62 mm PKT coaxial machine gun

- 9S428 ATGM launcher capable of firing AT-3A Sagger A and AT-3B Sagger B



IFV BMP-2



Type: Infantry Combat Vehicle
Crew: 3+7
Length: 6.735 m
Width: 3.15m
Height: 2.45 m
Combat weight: 14300 kg
Ground pressure: 0.64 kg/sq.cm
Ground clearance: 0.42 m
Power-to-weight ratio: 20.3 hp/t
Engine: UTD-20 V-6 diesel 300 hp
Max road speed: 65 km/h
Max water speed: 7 km/h
Operating range: 550-600 km

Armament:
- 1x30 mm 2A42 cannon
- 7.62 PKT coaxial machinegun
- AT-5 Konkurs ATGM



IFV BMP-3



Name: BMP-3
Type: Infantry Combat Vehicle
Max road speed: 70 km/h
Operating range: 600 km

Armament:
- 100 mm 2A70 gun
 capable of firing tube-launched AT-10 ATGM
- 30 mm 2A72 cannon
- 7.62 mm PKT MG



IFV LAV-25



Type: Light Armored Vehicle
Crew: 3+6
Length: 6.393 m
Width: 2.499 m
Height: 2.692 m
Combat weight: 12792 kg
Power-to-weight ratio: 21.49 hp/t
Engine: 6V-53T V-6 diesel 275 hp
Wheel formula: 8x8
Max road speed: 100 km/h
Max water speed: 9.6 km/h
Operational range: 668 km

Armament:
- 25 mm M242 cannon
- 7.62 mm M240 machine gun



IFV M2A2 Bradley



Type: Infantry Fighting Vehicle

Name: M2A2

Crew: 9

Weight: 21300 kg

Max road speed: 66 km/h

Operational range: 490 km

Armament:

- 25 mm M242 cannon

- 2-tube TOW ATGM launcher

- 7.62 mm M240C coaxial machine gun



IFV Marder

Type: Infantry Fighting Vehicle

Crew: 9

Length: 6.79 m

Width: 3.24 m

Height: 2.985 m

Combat weight: 29,207 kg

Ground pressure: 0.83 kg/sq.cm

Ground clearance: 0.44 m

Power-to-weight ratio: 20.54 hp/t

Engine: MTU MB 833 Ea-500 V-6 diesel 600 hp

Max road speed: 75 km/h

Operational range (road): 520 km

Armament:

- 20 mm MK 20 Rh 202 cannon

- 7.62 mm MG3 coaxial machine gun



IFV MCV-80 Warrior

Type: Infantry Fighting Vehicle

Name: MCV-80 Warrior

Type: Infantry Fighting Vehicle

Crew: 10

Weight: 23500 kg

Max road speed: 75 km/h

Operational range (road): 500 km

Armament:

- 30 mm L21A1 cannon

- 7.62 mm L94A1 machine gun



MBT Challenger II



Type: Main Battle Tank
Name: FV 4034 Challenger 2
Crew: 4 (commander, gunner, loader/operator, driver)
Length: 8.30 m (11.50 m with gun forward)
Width: 3.5 m
Height: 2.5 m
Combat weight: 62.5 tones
Ground clearance: 0.5 m
Power-to-weight ratio: 19.2 hp/t
Engine: Perkins CV-12 V12 Diesel 26 litre 1200 hp
Max road speed: 56 km/h
Fuel range: (road) 450 km

Armor:
- Chobham/Dorchester Level 2 (classified)

Armament:
- (main) 1xL30A1 120 mm rifled gun with 52 rounds
- (coaxial) 1x7.62 mm L94A1 EX-34 (chain gun)



MBT Leclerc



Type: Main Battle Tank (France)
Crew: 3
Length: 9.87 m
Width: 3.6 m
Height: 2.5 m
Combat weight: 56 tones
Power-to-weight ratio: 27 hp/t
Engine: 8-cylinder diesel Wartsila, 1.500 hp
Max road speed: 72 km/h
Fuel range: (road) 550 km

Armament:
- (main) 1x120 mm gun
- (coaxial) 1x12.7 mm M2HB MG

Ammunition:
- (main) 40
- (MG) 1.100



MBT Leopard 1A3



Type: Main Battle Tank (Germany)
Crew: 4
Length: 9.54 m
Width: 3.37 m
Height: 2.39 m
Combat weight: 42 200 kg
Ground clearance: 0.487 m
Power-to-weight ratio: 19.6 hp/t
Engine: MTU MB 838 CaM 500 10-cylinder 830 hp
Max road speed: 65 km/h
Operational range (road): 600 km

Armor:
- RHA, 70 mm (maximum), 10mm (minimum)

Armament:
- 105 mm Royal Ordnance L7A3 L/52 rifled gun
 13 round in turret, 42 round in chassis
- 7.62 mm MG3 coaxial machine gun
- 7.62 mm MG3 anti-aircraft machine gun
 5500 rounds



The Leopard 1 is a tank designed and produced in Germany that first entered service in 1965. It was used as the main battle tank by over a dozen countries worldwide.

It is a fairly conventional tank, armed with a German-built version of the British L7 105-mm gun. The Leopard is known for its good cross-country speed.

Leopard 1A3

Tanks were fitted with a new welded turret incorporating spaced armor and a wedge-shaped gun mantlet, creating the Leopard 1A3. Although the level of armor area density was equivalent to the A2's new welded version, the internal volume was increased by 1.2 m³ and the effective protection level was increased by half. The improved TRP 2A independent sight was installed for the commander. Upgrades were identical to the 1A2 models, the Leopard 1A3A1 with the night sights, Leopard 1A3A2 with the new radios, and the Leopard 1A3A3 with both.

MBT Leopard-2



Type: Main Battle Tank (Germany)
Crew: 4
Length: 9.668 m
Width: 3.7 m
Height: 2.48 m
Combat weight: 55150 kg
Ground pressure: 0.83 kg/sq.cm
Ground clearance: 0.487 m
Power-to-weight ratio: 27.0 hp/t
Engine: MTU MB 873 Ka-501 V-12 diesel 1500 hp
Max road speed: 72 km/h
Operational range (road): 550 km

Armament:
- 120 mm cannon
- 7.62 mm MG3 coaxial machine gun
- 7.62 mm MG3 anti-aircraft machine gun



MBT M1A2 Abrams



Type: Main Battle Tank
Crew: 4
Length: 9.828 m
Width: 3.657 m
Height: 2.438 m
Combat weight: 57154 kg
Ground pressure: 0.96 kg/sq.cm
Ground clearance: 0.432 m
Power-to-weight ratio: 26.24 hp/t
Engine: AGT 1500 gas turbine 1500 hp
Max road speed: 66.7 km/h
Operational range: (road) 465 km

Armament:
- 120 mm main gun
- 7.62 mm coaxial machine gun
- 12.7 mm machine gun (anti-aircraft, commander)
- 7.62 mm MG (anti-aircraft, loader)



MBT M60A3 Patton



Type: Main Battle Tank
Crew: 4
Length: 6.95 m (9.31 m with gun forward)
Width: 3.63 m
Height: 2.21 m
Combat weight: 52 tones
Ground clearance: 0.46 m
Power-to-weight ratio: 15.08 bhp/t
Engine: Continental AVDS-1790-2 V12, 750 bhp
air-cooled Twin-turbo diesel engine
Max road speed: 48 km/h
Fuel range: (road) 500 km

Armor:
- 155.6 mm

Armament:
- (main) 1x105 mm M68 gun
- 1x12.7 mm M85
- 7.62 mm M73 machine gun



MBT T-55



Type: Main Battle Tank
Crew: 4
Length: 9.0 m
Width: 3.14 m
Height: 2.20 m
Combat weight: 36.6 tones
Engine: V-55 Diesel (520hp)
Max road speed: 50 km/h
Fuel range: (road) 500 km

Armament:
- 100 mm D-10T series rifled gun
- 7.62 mm SGMT coaxial machine gun
- 12.7 mm DShK anti-aircraft machine gun



MBT T-72B



Type: Main Battle Tank
Crew: 3
Ground pressure: 0.9 kg/sq.cm
Ground clearance: 0.470 m
Engine: diesel 840 hp
Max road speed: 60 km/h
Operational range: (road) 500 km

Armament:
- 125 mm 2A46M gun
- 7.62 mm PKT coaxial machine gun
- 12.7 mm NSVT anti-aircraft machine gun



MBT T-80U



Type: Main Battle Tank
Crew: 3
Length: 9.656 m
Width: 3.589 m
Height: 2.202 m
Combat weight: 46000 kg
Ground pressure: 0.93 kg/sq.cm
Ground clearance: 0.446 m
Power-to-weight ratio: 23.9 hp/t
Engine: 1,250 hp GTD-1250 gas-turbine engine
Max road speed: 70 km/h
Operational range: 335 km without external fuel

Armament:
- 125 mm gun
Rate of fire: 7-9 rounds/min

Ammunition Types:
- APFSDS, HEAT, HEF
- 7.62 mm PKT coaxial machine gun



MLRS 9A52 Smerch



Type: Multiple Rocket System 9A52
Crew: 4
Length: 12.1 m
Width: 3.05 m
Height: 3.05 m
Combat weight: 43700 kg
Ground clearance: 0.44 m
Engine: V-12 diesel 518 hp
Wheel formula: 8x8
Max road speed: 60 km/h
Operational range (road): 850 km

Armament:
- 9M55K solid propellant rocket
Caliber: 300 mm
Rate of fire: 12 rds/38-40 s
Launcher traverse: 30° left and right
Elevation: 0-55°
Number of tubes: 12
Deployment time: 3 min



MLRS BM-21 Grad

Type: Multiple Rocket System

Chassis: URAL-375

Combat weight: 13700 kg

Crew: 6

Armament:

- 9M21OF solid propellant rocket

Caliber: 122.4 mm

Rate of fire: 40 rds/20 s

Traverse: 120° left, 60° right

Elevation: 0-55°

Number of tubes: 40

Time into action: 2.5 min

Time out of action: 0.5 min

Reload time: 8 min



MLRS M270



Type: Multiple launch rocket system

Crew: 3

Engine Cummins Diesel, 400 HP

Max road speed: 64 km/h

Operational range: 483 km

Armament:

- M26 Rocket specifications:

Length: 3.94 m (12.93 ft)

Weight: 306 kg (675 lb)

Warhead: 644 M77 DPICM submunitions

Caliber: 227 mm (8.94 in)

Motor: Solid-fuel rocket

Maximum range: 32 km (20 miles)

Reload time: 8 minutes



Mortar

2B11 Sani



Type: Mortar

Crew: 5

Weight 210 kg

Carriage: 2F510 2x1 wheeled transport chassis,

GAZ-66 4x4 truck (prime mover)

Caliber: 120 mm

Elevation: 45°-80°

Traverse: ±5°

Rate of fire: 15 rpm

Minimum Effective range: 0.46 km

Maximum Effective range: 7.18 km



SPG M1128 Stryker MGS



Type: Mobile Gun System

Crew: 3

Length: 6.985 m

Width: 2.717 m

Height: 2.641 m

Combat weight: 18 594 kg

Engine: diesel 350 hp

Wheel formula: 8x8

Max road speed: 96 km/h

Operational range: 531 km

Armament:

- M68A1 105mm gun

- 7.62mm machine gun



SPH M109 Paladin



Type: Self-propelled Howitzer

Crew: 6

Length: 9.12 m

Width: 3.15 m

Height: 2.8 m

Combat weight: 24948 kg

Ground clearance: 0.46 m

Power-to-weight ratio: 16.23 hp/t

Engine: 8V-71T V-8 diesel 405 hp

Max road speed: 56.3 km/h

Operational range (road): 349 km

Armament:

- 155 mm M185 howitzer

Gun elevation/depression: +75°/-3°

Turret traverse: 360°

- 1x12.7 mm machine gun



SPH SAO 2S9 "Nona"



Type: Self-propelled Howitzer/Mortar

Crew: 4

Length: 6.02 m

Width: 2.63 m

Height: 2.3 m

Combat weight: 8,700 kg

Ground pressure: 0.5 kg/sq.cm

Ground clearance: 0.1-0.45 m

Power-to-weight ratio: 27.58 hp/t

Engine: 5D-20 V-6 diesel 240 hp

Max road speed: 60 km/h

Max water speed: 9 km/h

Operational range:

- Road 500 km

- Water 75-90 km

Armament:

- 120 mm 2A60 mortar

Turret traverse: 35° left/ 35° right

Gun elevation/depression: +80°/-4°



SPH SAU 2S1 "Gvozdika"



Type: Self-propelled howitzer

Crew: 4

Combat weight: 15700 kg

Engine: YaMZ-238 diesel 285 hp

Max road speed: 60 km/h

Operational range: 500 km

Armament:

- 122 mm D-32 gun



SPH SAU 2S19 "Msta"



Type: Self-propelled Artillery System

Crew: 5

Length: 11.917 m

Width: 3.584 m

Height: 2.985 m

Ground clearance: 0.435 m

Power-to-weight ratio: 20.0 hp/t

Engine: V-84A V-12 diesel 840 hp

Max road speed: 60 km/h

Operational range: 500 km

Armament:

- 152 mm 2A64 gun

Turret traverse: 360°

Gun elevation/depression: +68°/-4°

- 12.7 mm NSVT anti-aircraft machine gun



Type: Self-propelled Gun-Howitzer

Crew: 4+2 in ammunition carrier

Length: 8.4 m

Width: 3.25 m

Height: 3.05 m

Combat weight: 27500 kg

Ground pressure: 0.59 kg/sq.cm

Ground clearance: 0.45 m

Power-to-weight ratio: 17.33 hp/t

Engine: V-59 V-12 diesel 520 hp

Max road speed: 60 km/h

Operational range:

- Road 500 km

- Cross-country 270 km

Armor:

- Hull: (max) 15 mm

- Turret: (max) 20 mm

Armament:

- 152 mm 2A33 gun

Turret traverse: 360°

Gun elevation/depression: +60°/-4°

Rate of fire: (max) 4 rds/min

- 7.62 mm PKT anti-aircraft machine gun

**TFFT ATsP-6**

Type: Fire truck

Chassis: Ural 557-10

Length: 8.00 m

Weight: 16650 kg

Wheel formula: 6x6

Length of water jet: 55 m

Type: Fire Engine

Chassis: Урал 5557-1152-10

Length of foam jet: 25-55 m



Type: Tactical Fire Fighting Truck
Heavy Expanded Mobility Tactical Truck

**Transport GAZ-3307**

Type: Truck
Combined weight: 17,306 lbs
Payload: 8,820 lbs
Engine: ZMZ-5311 type, V8 gasoline (carburetor)
Output: 125 hp @ 3,200 rpm. Torque 217 ft.-lb
Suspension: dependent, with leaf springs
Brakes: drum type, with hydraulic control
Axles: front beam axle, rear solid axle
Fuel tank capacity: 27.7 gal

**Transport GAZ-3308**

Type: Military truck
Combined weight: 13118 (13889) lbs
Payload 4409 lbs
Engine: Hino (Belorussian D-245.7, with intercooler)
6 cylinder turbo-diesel
Power output: 140 (122) hp @ 3200 (2400) rpm
Torque 258 (313) ft.-lb. @ 1800 (1300) rpm
Maximum speed - 56 mph
Gearbox: 5 speed
Fuel economy: 13.8 mpg (at 19 mph)



Transport GAZ-66



Type: Off-road military truck GAZ-66
Engine: ZMZ-66; 115hp/3200rpm, V8-cyl, 4254cc
Fuel capacity: 2x105 L
Fuel consumption: 24 L/100km under 30-40 km/h
Maximal speed: 90 km/h



Transport IKARUS-280



Type: Bus
Chassis: IKARUS-260
Passenger capacity: 120
Length: 16.5 m
Height: 3.00 m
Width: 2.00 m
Weight : 20,630 kg
Max road speed: 80 km/h
Operational range: 500 km



Transport KAMAZ-41101



Type: Cargo truck
Cab seating: 1+2
Length: 7.895 m
Width: 2.5 m
Height: 3.2 m
Empty weight: 8745 kg
Ground clearance: 0.365 m
Max cargo weight: 6000 kg
Engine: KAMAZ-740 V-8 220 hp
Wheel configuration: 6x6
Max road speed: 85 km/h
Operational Range: 600 km



Transport LAZ-695

Type: Bus
Chassis: ZIL-4331
Passenger capacity: 67
Length: 9.19 m
Width: 2.00 m
Height: 3.00 m
Combined Weight : 11,630 kg
Engine: ZIL-508.10
Max road speed: 80 km/h
Operational range (road): 570 km



Transport M818

Name: M818
Type: Tractor
Cab seating: 1+2
Length: 6.71 m
Width: 2.464 m
Height: 2.946 m
Weight : (empty) 9202 kg
Towed load (road): 24943 kg
Towed load (cross-country): 17007 kg
Ground clearance: 0.295 m
Engine: NHC-250 V-6 240 hp
Wheel formula: 6x6
Max road speed: 84 km/h
Operational range (road): 563 km



Transport MAZ-6303

Type: Truck
Box length: 7.7m
Box capacity: 45.5 cubic meters
Engine horsepower: 330 hp
Max speed: 110 km/h at 9-th gear
Fuel tank: 500 liters
Fuel consumption: 34 l/100 km



Transport UAZ-469



Type: Light vehicle

Cab seating: 1+6

Length: 4.025 m

Width: 1.785 m

Height: 2.015 m

Max load: 695 kg

Weight:

- (empty) 1490 kg

- (loaded) 2290 kg

Towed load:

- (unbraked) 600 kg

- (braked) 2000 kg

Ground clearance: 0.22 m

Engine: ZIL-451 V-4 75 hp

Wheel formula: 4x4

Max road speed: 100 km/h

Operational range (road): 620 km



Transport Ural-375



Type: Cargo truck

Cab seating: 1+2

Length: 7.35 m

Width: 2.69 m

Height: 2.68 m

Max load: 4800 kg

Weight : (empty) 8400 kg

Towed load:

- (road) 10000 kg

- (cross-country) 5000 kg

Ground clearance: 0.4 m

Engine: ZIL-375 V-8 180 hp

Wheel formula: 6x6

Operational range (road): 570 km

Max road speed: 80 km/h



Transport Ural-4320-09-31



Type: Armored Cargo Truck

Cab seating: 1+2

Wheel formula: 6x6



Transport Ural-4320T



Type: Cargo truck
Cab seating: 1+2
Length: 7.35 m
Width: 2.69 m
Height: 2.68 m
Max load: 4800 kg
Weight : (empty) 8400 kg
Towed load:
- (road) 10000 kg
- (cross-country) 5000 kg
Ground clearance: 0.4 m
Engine: ZIL-375 V-8 180 hp
Wheel formula: 6x6
Operational range (road): 570 km
Max road speed: 80 km/h



Transport VAZ-2109



Type: Civil car
Passengers: 5
Length: 3.5 m
Width: 1.75 m
Height: 1.50 m
Weight: 900 kg
Engine: 1.3-1.5 liters gasoline
Max road speed: 150 km/h
Operational range (road): 600 km



Transport ZiL-4334



Type: Truck
Total weight: 5400 kg
Engine output: 136 (185) kWt (hp)
Wheel formula: 4x2
Max. speed: 95 km/h



Transport ZIU-9

Type: Trolley bus
Passengers: 110
Length: 12.62 m
Width: 2.51 m
Height: 3.00 m
Weight : 10050 kg
Max road speed: 65 km/h



Transport ZiL-131 KUNG

Type: Truck with command office
Chassis: ZiL-131



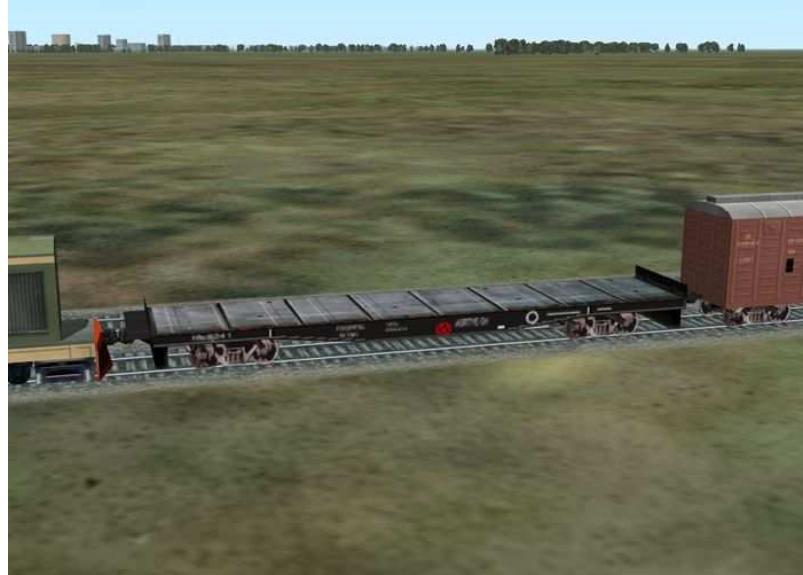
Coach cargo

Coach cargo open it is intended for transportation of loose cargoes.



Coach cargo open

A flatcar for loads that are too large or cumbersome to load in enclosed cars.



Coach passenger

Passenger coach.



Coach tank

Tank car, used to carry various liquid commodities.



Electric locomotive

Electric locomotive.



Locomotive

Diesel locomotive.



AIR DEFENSE



AAA	- Anti-Aircraft Artillery
AMG	- Antenna Mast Group
APC	- Armored Personnel Carrier
ARV	- Armored Recovery Vehicle
ATGM	- Anti-Tank Guided Missile
CP	- Command Post
CRG	- Communications Relay Group
ECS	- Engagement Control Station
EPP	- Electric Power Plant
EWR	- Early Warning Radar
FST	- Fuel Servicing Truck
GCS	- Ground Control Station
GPU	- Ground Power Unit
HEMTT	- Heavy Expanded Mobility Tactical Truck
HFR	- Height Finder Radar
HMMWV	- High Mobility Multipurpose Wheeled Vehicle
HPI	- High Power Illuminator
ICC	- Information Coordination Central
ICV	- Infantry Carrier Vehicle
IFV	- Infantry Fighting Vehicle
LM	- Launcher Station
MBT	- Main Battle Tank
MLRS	- Multiple Launch Rocket System
PAR	- Precision Approach Radar
RPG	- Rocket-Propelled Grenade
SAM	- Surface-to-Air Missile
SPAAA	- Self-Propelled Anti-Aircraft Artillery
SPG	- Self-Propelled Gun
SPH	- Self-Propelled Howitzer
SR	- Search Radar
STR	- Search/Track Radar
TAR	- Target Acquisition Radar
TOW	- Tube-launched, Optically tracked, Wire-guided Missile
TR	- Track Radar
TFFT	- Tactical Fire Fighting Truck

Name: M-163 Vulcan
 Type: Self-propelled Anti-aircraft Gun System
 Crew: 4
 Length: 4.86 m
 Width: 2.85 m
 Height: 2.736 m
 Ground pressure: 0.61 kg/sq.cm
 Combat weight: 12310 kg
 Ground clearance: 0.406 m
 Power-to-weight ratio: 17.46 hp/t
 Engine: 6V-53 V-6 diesel 215 hp
 Max road speed: 67.6 km/h
 Max water speed: 5.6 km/h
 Operational range: 483 km

Armor:
 - 12-38 mm

Armament:
 - 1x6 barrel 20 mm cannon
 Max rate of power traverse: 60°/s
 Max rate power elevation: 45°/s
 Gun elevation/depression: +80°/-5°
 Turret traverse: 360°
 Max effective range: 2600 m
 Ammunition: 2280 rounds



Name: ZU-23
 Type: Short-Range Air Defense Cannon

Armament:
 - 2 x 2A14 Afanasyev-Yakushev
 (23x115mm) autocannons
 Effective range: 2 - 2.5 km
 Effective altitude: 1,5 - 2 km



Name: ZU-23

Type: Short-Range Air Defense Cannon

Armament:

- 2 x 2A14 Afanasyev-Yakushev
(23x115mm) autocannons

Effective range: 2 - 2.5 km

Effective altitude: 1,5 - 2 km



Name: ZU-23

Type: Short-Range Air Defense Cannon

Engine: Ural-4320

Wheel formula: 6x6

Max road speed: 80 km/h

Operational range (road): 570 km

Armament:

- 2 x 2A14 Afanasyev-Yakushev
(23x115mm) autocannons

Effective range: 2 - 2.5 km

Effective altitude: 1,5 - 2 km



Type: Self-Propelled Command Post



CP Patriot ECS AN/MSQ-104 CP

Type: Medium-to-High Altitude Air Defense
System: AN/MSQ-104 Engagement Control Station
Length: 6.7 m
Height: 2.1 m
Width: 2.6 m
Combat weight: 17 000 kg



CP Patriot ICC

Type: Information and Coordination Central



CP PPRU-1M Sborka (9S80M1)

Name: Sborka 9S80M1
Type: mobile command center
Crew: 3

Tracking range: 35 km
Detection range: 80 km

PPRU-1M command post, equipped with the X-band acquisition radar. This 2D air search radar was developed from the "Scrum Half" guidance radar of the SA-15 "Gauntlet" SAM. It replaced the earlier "Whiff", "Fire Can", and "Fire Wheel" radars. Much more versatile than those systems, it is mounted atop a tracked carrier and can transition from travel to operating mode in three or four minutes. The vehicle also contains the Sborka comms system which allows it to give guidance to dispersed AA guns.



CP S-300PS 54K6 CP



Name: S-300PS 54K6 (SA-10)
Type: Low-to High-Altitude SAM
Command Post Vehicle
Chassis: MAZ-7910 (8x8)
Length: 14.2 m
Width: 3.15 m
Height: 3.8 m
Combat weight: 39-900 kg
Engine: D12A-525 V-12 diesel 525 hp
Max road speed: 60 km/h
Fuel distance: 650 km

Armament:
- 4x 5V55 missiles
Max number of target tracks handed over by
TAR vehicle: 100
Time into action/time to close down: 5 min



CRG Patriot AMG AN/MRC-137



Type: Communications Relay Group
Antenna Mast Group, Truck mounted.
Height: 30.76 m

Frequency: UHF
Power: 4 kW

The AMG serves as the UHF antenna for the Engagement Control Station (ECS), The Information Coordination Central (ICC) and the Communications Relay Group (CRG)



EWR Radar 1L13 EWR station



Type: Long-range mobile air surveillance radar
Length: 18.86 m
Width: 2.7 m
Height: 7.8 m
Antenna: Flat array 16x3.24 m

Frequency range: VHF band (30 to 300 MHz)
Range: 500 km azimuth; 40 km altitude
Detection range on a fighter: 230/300 km at
10/27 km altitude respectively
Accuracy: 400 m range; 0.7° azimuth
Antenna rotation speed: 10/20 rpm
Switching on time: 3 min
Setting up/closing down time: 45 min max



EWR**Radar 55G6 EWR station**

Type: Long-range mobile air detection radar

Operations staff: 4

Length: 18.36 m

Width: 24.57 m

Height: 35.8 m

Frequency range: VHF band (30 to 300 MHz)

Antenna: Flat array 16x3.24 m

Range: 500 km azimuth; 40 km altitude

Detection range on a fighter: 300/400 km at

10/20 km altitude respectively

Accuracy: 400 m range; 0.5° azimuth; 750 m height

Switching on time: 3 min max

Setting up/closing down time: 22 h max

**EWR****Radar P-37**

Type: E/F-band (2 to 4 GHz) mobile early warning and Ground Control Interception (GCI) radar

Frequency: E/F-band (2 to 4 GHz)

Antenna dimensions: 11x3.5 m

System rotation: 3 and 6 rpm

Effective range: 390 km

Peak power: 650 kW per beam

Beamwidth: 0.7°

PRF: 375 pps

Range accuracy: 900 m

Azimuth accuracy: 0.5°

IFF system: D-band (1-2 GHz)

**EWR****Roland EWR**

Type: Early Warning Radar

Chassis: Marder-1

Frequency: E-band (2 to 3 GHz)

Range: 30 km



Type: Electric Power Plant

EPP Engine: 2x150 kW diesel engine

Generator: 400Hz, 3-phase

Fuel capacity: 2x280 L for each EPP

Operating time: 8 hours



Type: E-band (2 to 3 GHz) transportable height-finder radar (aircraft altitude measuring device)

Van dimensions: 2.97x3.78x2.42 m

Antenna dimensions: 7.7x3 m

Frequency: E-band (2 to 3 GHz)

Range: 180 km

Altitude: 30 km

Nodding rate: 5-30 cps



Type: I/J-band (8 to 20 GHz) military PAR

Chassis: URAL-375

Frequency: I/J-band (8 to 20 GHz)

Range: 35 km (15 km in rain)

Coverage: 1-8° (elevation); 20° (azimuth)

Accuracy: 0.35° (elevation); 0.5° (azimuth)

Range accuracy: approx 60 m

Resolution: 200 m (range); 1.2° (angular)



SAM**Buk 9A310M1 LN**

Name: 9A310M1 "Buk" (SA-11)

Type: Low-to High-Altitude SAM

Reaction time: 26 s

Combat weight: 32340 kg

Armament:

- 4x SA-11 (9M38M1) missiles

**SAM****Hawk M192 LN**

Type: Low-to-Medium Altitude Air Defense System

Armament:

- 3 x SAMs

Launch weight: 584 kg

Warhead: 54 kg HE

Max speed: Mach 2.7

Max effective altitude: 13700 m

Min effective altitude: 60 m

Max effective range: 32000 m

Min effective range: 2000 m

**SAM****Igla-S**

Name: Igla (SA-18)

Type: Low-Altitude SAM System

Overall dimensions: 1.1x0.4x0.2 m

Launcher tube length: 1.876 m

Warhead weight: 3.5 kg

Weight (in firing position): 19.5 kg

Fuze type: impact/proximity

Max target engagement speed:

- approaching: 340 m/s

- receding: 290 m/s

Min effective target altitude: 10 m

Max effective target altitude: 3000 m



SAM Kub 2P25 LN



Name: Kub 2P25 In (SA-6)
Type: Low-to Medium-Altitude
Crew: 3
Length: 7.389 m
Width: 3.18 m
Height: 3.45 m
Combat weight: 14-000 kg
Ground pressure: 0.48 kg/sq.cm
Ground clearance: 0.4 m
Power-to-weight ratio: 17.14 hp/t
Engine: V-6R V-6 diesel 240 hp
Max road speed: 44 km/h
Operational range: 260 km

Armament:

- 3 SA-6 (3M9M) missile
- Launch weight: 599 kg
- Warhead: 59 kg HE
- Max speed: Mach 2,8
- Min effective range: 4000 m
- Max effective altitude: 14-000 m
- Max effective range: 24-000 m
- Min effective altitude:
 - (optical mode) 25 m
 - (radar mode) 100 m
- Max target speed:
 - (approaching) 600 m/s
 - (receding) 300 m/s
- Reload time (SPU): 10 min



SAM M1097 Avenger PMS



Type: Low Level Air Defense System.

Chassis: Hummer
Length: 4.953 m
Width: 2.184 m
Height: 2.59 m
Combat weight: 3900 kg
Ground clearance: 0.406 m
Wheel formula: 4x4
Crew: 2
Operational range: 563 km

Sensors:

- Forward Looking Infrared (FLIR)
- Laser rangefinder
- Optical sight

Armament:

- 2x4 Stinger SAMs
- 12.7 mm M2 machine gun
- Gun elevation/depression: +70°/-10°
- Turret traverse: 360°
- Launch max speed: Mach 2.2
- Max effective range: 7000 m
- Min effective range: 300 m



SAM**M48 Chaparral**

Type: Forward Area Air-Defense System
Base: M-730A2

Armament:

- MIM-72G missile
- Length (missile): 2.91 m
- Max altitude: 2500 m
- Max speed: Mach 2.5
- Wingspan: 0.64 m
- Launch Weight: 84 kg
- Warhead weight: 12.7 kg
- Min effective range: 400 m
- Max range: 4800 m

**SAM****M6 Linebacker**

Type: Bradley Stinger Fighting Vehicle
Chassis: M2A2
Crew: 3+6
Length: 6.5 m
Width: 3.6 m
Height: 2.6 m
Combat weight: 29 900 kg
Engine: VTA-903T diesel V-8 600 hp
Max road speed: 66 km/h
Operational range: 550 km

Armament:

- M242 Bushmaster 25mm cannon
- 4-tube Stinger launcher (TOW)
- Coaxial M240C MG
- Turret traverse: 360°
- Gun elevation/depression: +70°/-10°
- Launch max speed: Mach 2.2

**SAM****Osa 9A33 LN**

Name: 9A33 "Osa" (SA-8)
Type: Low-Altitude SAM System Launcher
Crew: 5
Length: 9.14 m
Width: 2.8 m
Height: 4.2 m
Combat weight: 17500 kg
Ground clearance: 0.4 m
Engine: D20B-200 diesel 200 hp
Max road speed: 80 km/h
Max water speed: 8 km/h
Operational range (road): 500 km

Armament:

- 6 SA-8 (9M33) missile
- Min altitude: 100 m
- Launch weight: 126 kg
- Reload time (SPU): 10 min



SAM Patriot LN M901



Type: Medium-to-High Altitude Air Defense
System M901 Launcher Station

Armament:

- 4x MIM-104 SAMs
- Warhead: 73 kg HE
- Launch weight: 700 kg
- Max speed: Mach 5
- Min effective range: 3000 m
- Max effective range: 160 000 m
- Min effective altitude: 60 m
- Max effective altitude: 24 240 m
- Turret traverse: -110° to +110°



SAM Roland ADS



Type: Low Altitude SAM System
Chassis: Marder-1
Crew: 3
Length: 6.915 m
Width: 3.24 m
Height: 2.92 m
Combat weight: 32-500 kg
Ground pressure: 0.93 kg/sq.cm
Ground clearance: 0.44 m
Power-to-weight ratio: 18.5 hp/t
Max road speed: 70 km/h
Fuel distance: 520 km

Armament:

- 2 Roland-2 SAMs
- Launch weight: 66.5 kg
- Warhead: 6.5 kg HE
- Max speed: 500 m/s
- Max effective range: 6300 m
- Min effective range: 500 m
- Max effective altitude: 5500 m
- Min effective altitude: 10 m
- Reload time (from magazines): 6 s



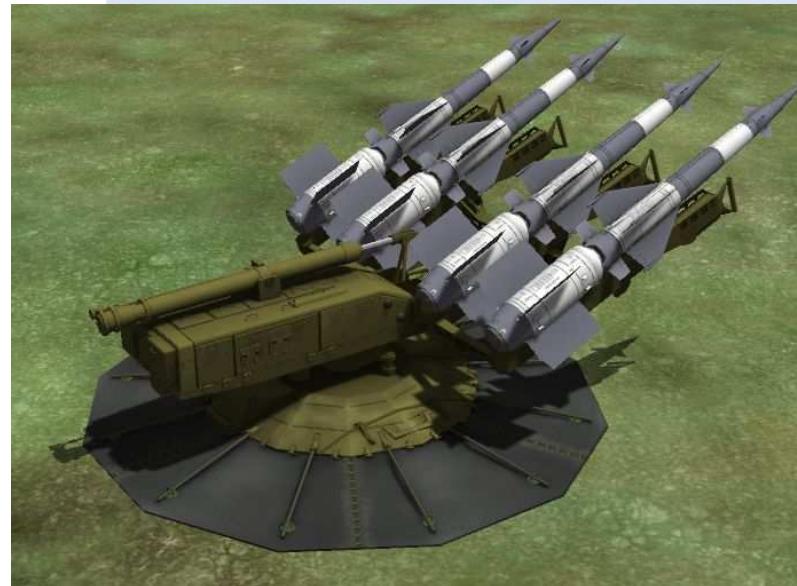
SAM S-125 5P73 LN



Type: Surface-to-Air Missile
Launcher: 5P73 four rail

Armament:

- 4x V24 SA-3 Goa (V-600) missiles
- Weight: 953 kg
- Warhead weight: 60kg
- Length: 6.09 m
- Wingspan: 2.2 m
- Body diameter: 0.38 m
- Target acquire range: 3,5km-20km
- Launch range: 3,5km-11km
- Launch altitude: 60m-18.000m
- Max. target speed: 700m/s (1.8M)
- Kill distance: 14m



SAM**S-300PS 5P85C LN**

Name: S-300PS 5P85C (SA-10)
Type: Low-to High-Altitude SAM
Missile Launcher Vehicle
Chassis: MAZ-7910 (8x8)
Crew: 4
Length: 9.4 m
Width: 3.1 m
Height: 3.7 m
Combat weight: 20 000 kg
Engine: D12A-525 V-12 diesel 525 hp
Max road speed: 60 km/h
Fuel distance: 650 km

Armament:

- 4x SA-10 (5V55 or 48N6E) missile
- Launch weight: 1,480 kg
- Warhead: 100 kg HE
- Max speed: Mach6
- Max effective range:
 - (target altitude 2000 m plus) 47 000 m
 - (target altitude 25 m and below) 25 000 m
- Min effective range: n/avail
- Max effective altitude: 30 000 m
- Min effective altitude: 25 m
- Max target speed: 1167 m/s
- Rate of fire: 1 missile/3 s

**SAM****S-300PS 5P85D LN**

Name: S-300PS 5P85D (SA-10)
Type: Low-to High-Altitude SAM
Additional Missile Launcher Vehicle
Chassis: MAZ-7910 (8x8)
Crew: 4
Length: 9.4 m
Width: 3.1 m
Height: 3.7 m
Combat weight: 20 000 kg
Engine: D12A-525 V-12 diesel 525 hp
Max road speed: 60 km/h
Operational range: 650 km

Armament:

- 4 SA-10 (5V55 or 48N6E) missile
- Max speed: Mach 6
- Rate of fire: 1 missile/3 s.
- Min effective range: not available
- Max effective range:
 - (target altitude 2000 m plus) 47 000 m
 - (target altitude 25 m and below) 25 000 m
- Min effective altitude: 25 m
- Max effective altitude: 30 000 m
- Warhead: 100 kg HE
- Launch weight: 1,480 kg
- Max target speed: 1167 m/s



SAM**Stinger (MANPADS)**

Type: Low-Altitude SAM System
 Length (missile): 1.52 m
 Wingspan: 0.091 m
 Weight (launcher complete): 15.7 kg
 Warhead weight: 3.0 kg
 Diameter (missile): 0.07 m
 Max range: 8000 m
 Min effective range: 200 m
 Max effective range:
 - (FIM-92A) greater than 4000 m
 - (FIM-92B/C) greater than 4500 m
 Min altitude: effectively ground level
 Max altitude:
 - (FIM-92A) 3500 m
 - (FIM-92B/C) 3800 m
 Max speed: Mach 2.2

**SAM****Strela-1 9P31**

Name: 9P31 "Strela-1" (SA-9)
 Type: Low-Altitude SAM System
 Crew: 3
 Length: 5.8 m
 Width: 2.4 m
 Height: 2.3 m
 Combat weight: 7000 kg
 Ground clearance: 0.43 m
 Power-to-weight ratio: 20 hp/t
 Engine: GAZ-41 V-8 140 hp
 Wheel formula: 4x4
 Max road speed: 100 km/h
 Max water speed: 10 km/h
 Operational range: 750 km

Armor:
 - 5-14 mm

Armament:
 - 4 x 9M31(SA-9) missile
 Launch weight: 32 kg
 Warhead: 2.6 kg HE
 Min effective range: 800 m
 Max effective range: 4200 m
 Min effective altitude: 30 m
 Max effective altitude: 3500 m
 Max target speed: 300m/s
 Max speed: Mach 1,8
 Tracking rate: 15-20°/s
 Traverse: 360°
 Elevation: +20° to +80°

SAM**Strela-10M3 9A35M3**

Name: 9A35M3 "Strela-10M3" (SA-13)

Type: Low-Altitude SAM System

Crew: 3

Length: 6.6 m

Width: 2.85 m

Height: 3.8 m

Combat weight: 12-300 kg

Engine: YaMZ-238V diesel 240 hp

Max road speed: 61.5 km/h

Max water speed: 6 km/h

Operational range: 500 km

Armament:

- 4 x 9M333 (SA-13) missiles

- Unit of fire: 8 missiles

- Warhead: 4 kg HE

- Max speed: Mach 2

- Min effective range: 200 m

- Max effective range: 5000 m

- Min effective altitude: 10 m

- Max effective altitude: 3500 m

- Elevation/depression: +80°/-5°

- Max target speed: 420 m/s

- Turret traverse: 360°

- Launch weight: 42 kg

Tracking rates:

- (elevation) 0.3-50°/s

- (azimuth) 0.3-100°/s

**SAM****Tor 9A331**

Name: 9A331 "Tor" (SA-15)

Type: Low-to Medium-Altitude SAM System

Crew: 3

Length: 7.5 m

Width: 3.3 m

Height: 4.1 m

Engine: V-64-4 V-12 diesel 740 hp

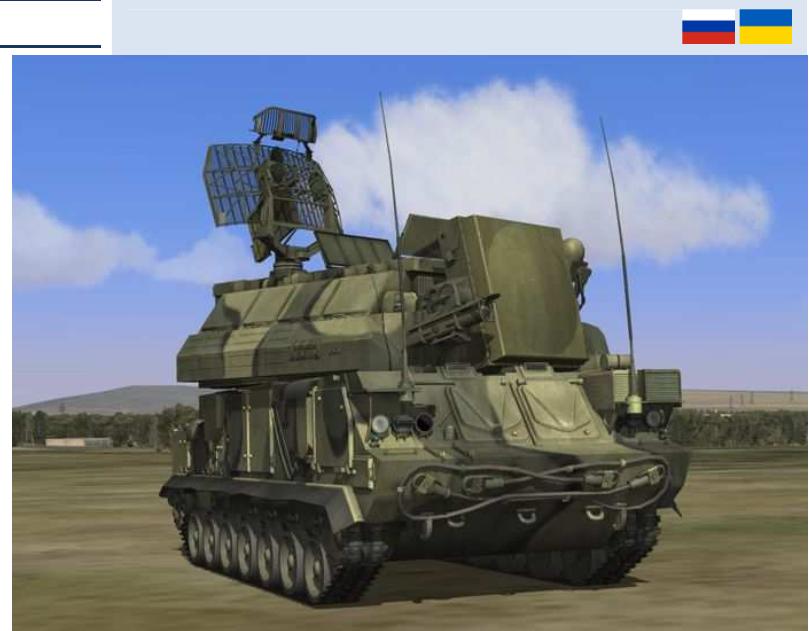
Max road speed: 60 km/h

Fuel distance: 500 km

Armament:

- 2x4 SA-15 (9M330) missiles

- Turret traverse: 360°



SAM Tunguska 2C6M



Name: 2C6M "Tunguska" (SA-19)
Type: Self-propelled Air Defense System
Crew: 4
Length: 7.93 m
Width: 3.236 m
Height: 4.021 m
Combat weight: 34-000 kg
Power-to-weight ratio: 21.7 hp/t
Engine: V-64-4 V-12 diesel 740 hp
Max road speed: 65 km/h
Operational range: 500 km

Armament:

- 2x30 mm 2A38M cannon
- 2x4 SA-19 SAM (9M311)
 - Gun elevation/depression: +80°/-6°
 - Launch weight: 165 kg
 - Warhead: 15 kg HE
 - Max speed: 850 m/s
 - Min effective range: 1500 m
 - Max effective range: 12000 m
 - Min effective altitude: 10 m
 - Max effective altitude: 6000 m
 - Max target speed: 700m/s
 - Turret traverse: 360°

Ammunition:

- gun 1,904
- missile 8



SPAAA Gepard

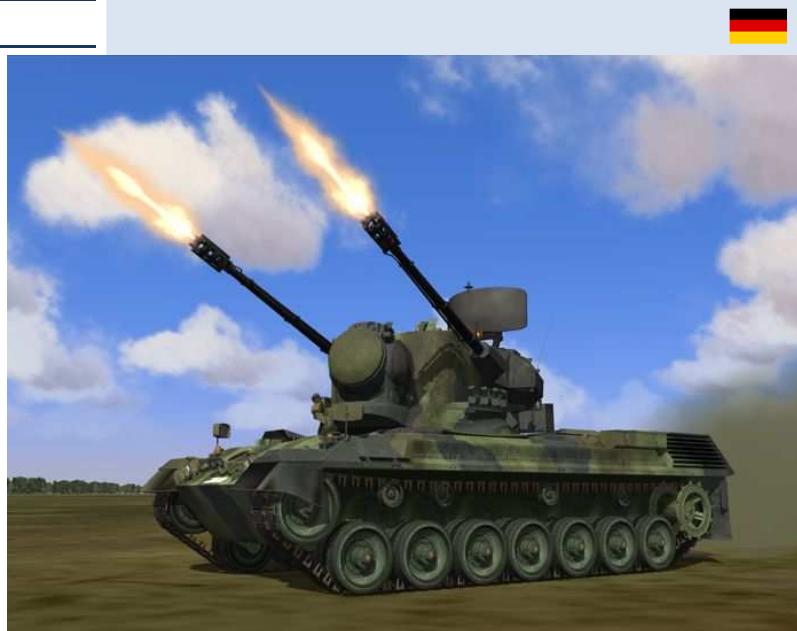


Type: Self-propelled Anti-aircraft Gun System
Crew: 3
Length: 7.73 m
Width: 3.37 m
Height: 4.03 m
Combat weight: 47300 kg
Ground pressure: 0.95 kg/sq.cm
Ground clearance: 0.44 m
Power-to-weight ratio: 17.54 hp/t
Engine: MTU MB 838 Ca M500 V-10 diesel 830 hp
Max road speed: 65 km/h
Operational range:

- road 550 km
- cross-country 400 km

Armament:

- 35 mm KDA cannons
 - Max effective range: 3000 m
 - Max speed of traverse: 90°/s
 - Max speed of elevation: 45°/s
 - Gun elevation/depression: +85°/-10°
 - Turret traverse: 360°
- Ammunition: 620 rounds



Name: ZSU-23-4 "Shilka"

Type: Self-propelled Anti-aircraft Gun System

Crew: 4

Length: 6.54 m

Width: 2.95 m

Height: 3.8 m

Combat weight: 20-500 kg

Ground pressure: 0.69 kg/sq.cm

Ground clearance: 0.4 m

Power-to-weight ratio: 20.0 hp/t

Engine: V-6R V-6 diesel 280 hp

Max road speed: 44 km/h

Fuel distance: 450 km



Armament:

- 4x23 mm AZP-23M cannon

- Gun elevation/depression: +85°/-4°

- Turret traverse: 360°

- Max effective range: 2500 m

- Ammunition: 2000 rounds

SR Buk TAR 9S18M1 SR Kupol

Type: Self-propelled 3D target acquisition radar

(TAR) 9S18M1 "Kupol"

Crew, ppl. 3

Weight, t. 34

Maximum ground speed, km/h. 65



Performance characteristics:

Coverage zone:

- azimuth, deg. 360

- elevation, deg. 0-40

- instrumented range, km 10-160

Scan time, sec. 4.5; 6; 12; 60

Resolution:

- in range, m 400

- in azimuth, deg. 3-4.5

- in elevation, deg. 3-4.5

Maximum non-stop operational time, hrs. 48

Time to/from combat readiness, min. 5

The system is designed to provide radar data to air defense forces command posts, army air defense units and air defense command and control centers of motorized rifle and tank divisions armed with the "Buk-M1-2" and "Tor-M1" SAM systems.

The radar is equipped with digital processing units for automatic and semi-automatic coordinate determination and non-cooperative target recognition (NCTR) capability. All of the system functions are highly automated by use of high-speed central processor units. The system utilizes advanced electronic counter-counter measures (ECCM) devices and techniques to maintain capability in a complex ECM environment.

The radar is installed on a tracked chassis offering high off-road capability. It is equipped with independent power generation equipment, navigation systems, radio datalink and communications systems. It is also equipped with an extensive Built-In-Test (BIT) system, as well as Training modes to enable realistic crew training. Automated set-up and recover equipment and functionality is used to prepare the system to and from combat readiness state.

The radar can be utilized in difficult climate conditions, transit on and off roads and transported by all standard transportation modes, including aircraft.

SR Hawk AN/MPQ-50 SR



Type: Low-to-Medium Altitude Air Defense System
AN/MPQ-50 Improved Pulse Acquisition radar

Frequency: C-band



SR S-125 P-19 SR



Type: Search Radar

Frequency: UHF
Azimuth: 360°
Power: 900 kW
Search range: 1,5km-80km
Search altitude: 20m-20.000m



SR S-300PS 5N66M SR



Name: S-300PS 5N66M (SA-10)
Type: Low-to High-Altitude SAM Surveillance Radar
Chassis: MAZ-7910 (8x8)
Length: 20.3 m
Width: 18.2 m
Height: 42.3 m
Engine: D12A-525 V-12 diesel 525 hp

Radar detection range:

- (max range (target at 500 m) 90 km
- (max range (target at 1000 m) 120 km

Max number of target tracks: 180

Radar accuracy:

- (range) 250m
- (azimuth/elevation) 0.3°
- (velocity) 2.4 m/s

Time into action/time to close down: 120 min



SR S-300PS 64H6E SR



Name: S-300PS 64H6E (SA-10)
Type: Low-to High-Altitude SAM
Long-range surveillance radar
Chassis: MAZ-7410 (8x8)
Length: 20.2 m
Width: 5.75 m
Height: 8.68 m
Engine: D12A-525 V-12 diesel 525 hp
Max road speed: 60 km/h
Fuel distance: 650 km

Detection range: 300 km
Max number of target tracks: 100
Tracking rate: 5 rpm
Time into action/time to close down: 5 min



STR Kub-M1 1S91 STR



Name: 1S91 "Kub" (SA-6)
Type: Low-to Medium-Altitude SAM System Search/Track Radar
Length: 7.38 m
Width: 3.73 m
Height: 5.88 m
Ground clearance: 0.4 m
Engine: V-6R V-6 diesel 240 hp
Max road speed: 44 km/h
Operational range: 260 km

Detection range: 75 km azimuth; 10 km altitude
Tracking range: 28 km



STR Patriot STR AN/MPQ-53



Type: Medium-to-High Altitude Air Defense
System: AN/MPQ-53 Multifunction Phased-Array Radar
Length: 15.0 m
Width: 2.9 m
Height: 3.6 m
Combat weight: 29 000 kg

Radar detection range: 3-170 km
Search sector:
- azimuth 120°
- elevation 90°
Tracking sector: 110°



TR Hawk AN/MPQ-46 TR



Type: Low-to-Medium Altitude Air Defense System
HPI radar system



TR S-125 SNR TR



Type: Tracking Radar

Range finding range: 1,5km-100km
Range finding altitude: 20m-20.000m
Intercept range: 4km-50km
Intercept altitude: 20-12.000m



TR S-300PS 30N6 TR



Name: S-300PS 30N6 (SA-10)
Type: Low-to High-Altitude SAM Multifunction radar
Chassis: MAZ-7910 (8x8)
Length: 20.3 m
Width: 18.2 m
Height: 27.7 m
Engine: D12A-525 V-12 diesel 525 hp

Time into action/time to close down: 60 min



INFANTRY

Military aircraft insignia



Russia



United States

Infantry M249



Type: Infantry Soldier

Armament:

- 5.56 mm Light Machine Gun M249



Infantry M4



Type: Infantry Soldier

Armament:

- 5.56 mm Assault Rifle M4A1



Infantry Soldier



Type: Infantry Soldier

Armament:

- 7.62 mm Assault Rifle AKS-47



Paratrooper AKS



Type: Infantry Soldier

Armament:

- 7.62 mm Assault Rifle AKS-47



Paratrooper RPG-16



Type: Infantry Soldier

Armament:

- Rocket-Propelled Grenade Launcher RPG-16

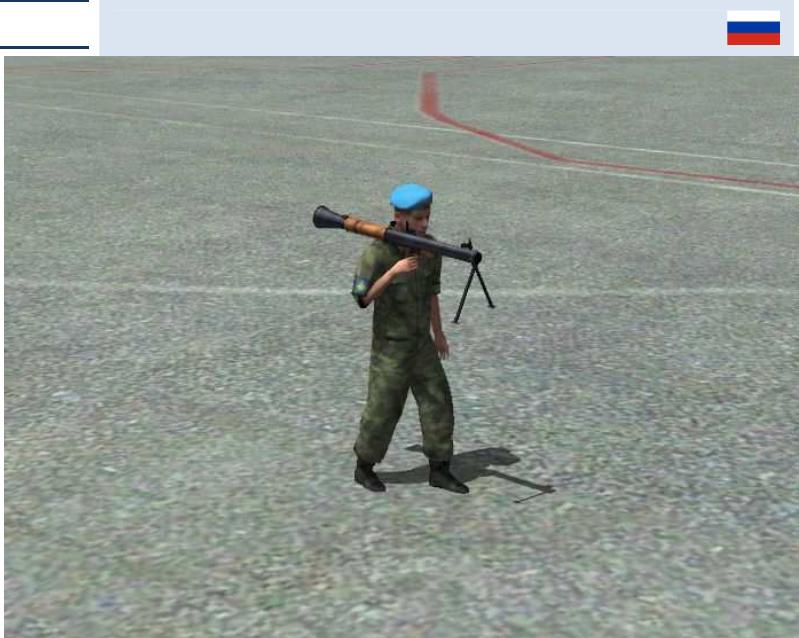
Cartridge: 58.3 mm Warhead

Rate of fire: 4-6 rpm

Initial Muzzle Velocity: 130 m/s

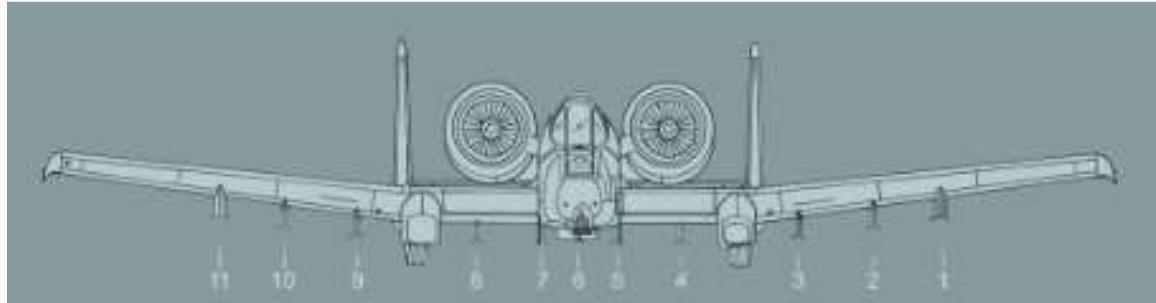
Maximum Muzzle Velocity: 350 m/s

Maximum range: 500-800 m



WEAPONS

A-A	- Air to Air
A-G	- Air to Ground
AIM	- Air Intercept Missiles
AGM	- Air-to-Ground Missiles
BDU	- Bomb Dummy Unit
BGM	- Ballistic Guided Missile
BRU	- Bomb Release Unit
CATM	- Captive Air Training Round
CBU	- Cluster Bomb Units
DRA	- Dual Rail Adapter
ECM	- Electronic CounterMeasures
FAB (ФАБ)	- Фугасная Авиационная Бомба (Aerial general purpose bomb)
FT	- Fuel Tank
GBU	- Guided Bomb Units
HEAT	- High-Explosive Anti-Tank warhead
ITER	- Improved Triple Ejector Rack
LAU	- Launch Adapter Unit
LSS	- Laser Spot Search
LST	- Laser Spot Track
MLU	- Mid-Life Upgrade
MTBF	- Mean Time Between Failures
MTTR	- Mean Time To Recovery
SER	- Single Ejector Rack
SPI	- Sensor Point of Interest
SUU	- Suspension Underwing Unit
TER	- Triple Ejector Rack
TGM	- Television Guided Missile
USAF	- United States Air Force



Class	Station 1 and 11	Station 2 and 10	Station 3 and 9	Station 4 and 8	Station 5 and 7	Station 6
BOMB			BDU-33	BDU-33	BDU-33	
	BDU-50HD	BDU-50HD	BDU-50HD	BDU-50HD	BDU-50HD	
	BDU-50LD	BDU-50LD	BDU-50LD	BDU-50LD	BDU-50LD	
	BDU-50LGB	BDU-50LGB	BDU-50LGB	BDU-50LGB	BDU-50LGB	
	MK-82	MK-82	MK-82	MK-82	MK-82	
	MK-82AIR	MK-82AIR	MK-82AIR	MK-82AIR	MK-82AIR	
			MK-84	MK-84	MK-84	
CBU	CBU-87	CBU-87	CBU-87	CBU-87	CBU-87	
	CBU-97	CBU-97	CBU-97	CBU-97	CBU-97	
			CBU-103	CBU-103	CBU-103	
			CBU-105	CBU-105	CBU-105	
GBU			GBU-10	GBU-10	GBU-10	
	GBU-12	GBU-12	GBU-12	GBU-12	GBU-12	
			GBU-31	GBU-31	GBU-31	
			GBU-38	GBU-38	GBU-38	
ROCKET		M-151	M-151	M-151		
		M-156	M-156	M-156		
		M-257	M-257	M-257		
		M-274	M-274	M-274		
		Mk-1	Mk-1	Mk-1		
		Mk-5	Mk-5	Mk-5		
		Mk-61	Mk-61	Mk-61		
FLARE		WTU-1/B	WTU-1/B	WTU-1/B		
MISSILE	AIM-9M					
	CATM-9M					
		AGM-65D				
		AGM-65G				
		AGM-65H				
		AGM-65K				
		CATM-65K				
		TGM-65D				
		TGM-65G				
POD		TGM-65H				
	AN/AAQ-28 Litening AT					
RACK	AN/ALQ-131					
		BRU-42LS	BRU-42LS	BRU-42LS		
	LAU-105					
		LAU-117				
	LAU-131	LAU-131	LAU-131			
	LAU-68	LAU-68	LAU-68			
MISC		LAU-88				
	SUU-25	SUU-25		TK600		TK600

Name: AIM-9M
Type: Short-range, infrared, air-to-air missile
Developed: USA
TNT equivalent, kg: 11
Guidance: infrared
Weight, kg: 85.5
G limit: 22
Length, m: 2.83
Body diameter, m: 0.127
Range Max, km: 18
Maximum Mach number: 2.5



Name: CATM-9M Sidewinder
Type: Short-range, infrared, air-to-air missile, training (non-launching) version of AIM-9M
Developed: USA
Guidance: infrared
Weight, kg: 85.5
Length, m: 2.83
Body diameter, m: 0.127



Name: BDU-33D/B
Type: Miniaturized training bomb that mimics the ballistics of larger general purpose bombs. (500 lb. MK 82 and 2000 lb. MK 84 general purpose, non-guided bombs in a low drag configuration.)
Developed: USA
Guidance: Ballistic
Length, m: 0.582
Diameter, m: 0.102
Weight, kg: 11.34 (25.00 lbs.)



Bombs**BDU-50HD**

(1) |11|10|9|8|7| |5|4|3|2|1|

Name: BDU-50HD
Type: High drag training version of the Mk-82AIR
Developed: USA
Payload: Inert
Weight, kg: 241
Length, m: 2.21
Body diameter, m: 0.273

**Bombs****BDU-50LD**

(1) |11|10|9|8|7| |5|4|3|2|1|

Name: BDU-50LD
Type: Low drag (slick) training version of the Mk-82
Developed: USA
Payload: Inert
Weight, kg: 241
Length, m: 2.21
Body diameter, m: 0.273

**Bombs****BDU-50LGB**

(1) |11|10|9|8|7| |5|4|3|2|1|

Name: BDU-50LD
Type: Training version of the GBU-12
Developed: USA
Payload: Inert
Guidance: Laser-command
Weight, kg: 225
Length, m: 3.33
Body diameter, m: 0.273



Bombs**CBU-103**

SUU-65

(1)

|9|8|7| |5|4|3|

Name: CBU-103 Wind Corrected Munition Dispenser
Dispenser: SUU-65
Type: Combined Effects Munitions
Developed: USA
Weight, kg: 430
Length, m: 2.34
Body diameter, m: 0.406

The Wind Corrected Munitions Dispenser (WCMD) is an expensive tail kit that turns existing unguided cluster munitions dispensers into all-weather precision guided weapons. It corrects for launch transients, ballistic errors, and winds aloft even released from high altitude or weather condition.

The WCMD use inertial guidance only (no GPS).

CBU-103 is the same CBU-87 with inertial guidance kit.

**Bombs****CBU-105**

SUU-66

(1)

|9|8|7| |5|4|3|

Name: CBU-105 Wind Corrected Munition Dispenser
Dispenser: SUU-66
Type: Sensor Fused Weapon
Developed: USA
Weight, kg: 415
Length, m: 2.34
Body diameter, m: 0.406

The Wind Corrected Munitions Dispenser (WCMD) is an expensive tail kit that turns existing unguided cluster munitions dispensers into all-weather precision guided weapons. It corrects for launch transients, ballistic errors, and winds aloft even released from high altitude or weather condition.

The WCMD use inertial guidance only (no GPS).

CBU-105 is the same CBU-97 with inertial guidance kit.

**Bombs****CBU-87**

(1) |11|10|9|8|7| |5|4|3|2|1|

Name: CBU-87
Dispenser: SUU-65
Type: Combined Effects Munitions
Developed: USA
Weight, kg: 430
Length, m: 2.34
Body diameter, m: 0.406

The CBU-87 Combined Effects Munitions (CEM) weighs 950 lbs and is an all-purpose cluster bomb. The SW-65 Tactical Munitions Dispenser contains 202 BLU-97/B Combined Effects Bomblets (CEB) and they are effective against unarmored targets. The general bomblet footprint coverage is 200 by 400 meters.



Bombs**CBU-97**

(1) |11|10|9|8|7| |5|4|3|2|1|

Name: CBU-97
Dispenser: SUU-66
Type: Sensor Fused Weapon
Developed: USA
TNT equivalent, kg: 42
Weight, kg: 415
Length, m: 2.34
Body diameter, m: 0.406

The CBU-97 is a 1,000-pound class weapon containing sensor-fused sub-munitions for specifically attacking armor. This Sensor Fused Weapon (SF) contains 10 BLU-108/B sub-munitions.

A BLU-108/B unit carries four independent Skeet anti-tank submunitions. After release from the dispenser, each BLU-108/B descends under a parachute to a pre-set altitude. Then a small rocket sends the BLU-108/B upwards and into a rapid spin, so that the Skeet warheads are released outwards. Each Skeet falls independently, scanning the ground with its IR sensor for the signature of a tank. When a target is detected, the Skeet detonates, firing an EFP (Explosively Formed Penetrator) directly downward, and a ring of fragments outwards (against soft targets in the vicinity). If no target is detected, the Skeet explodes immediately above the ground.

**Bombs****GBU-10**

(1) |9|8|7| |5|4|3|

Name: GBU-10
Type: Laser-guided bomb
Developed: USA
TNT equivalent, kg: 428
Guidance: Laser-command
Weight, kg: 900
Length, m: 4.32
Body diameter, m: 0.46

**Bombs****GBU-12**(1) |11|10|9|8|7| |5|4|3|2|1|
(3) |9|8| |4|3|

Name: GBU-12
Type: Laser-guided bomb
Developed: USA
TNT equivalent, kg: 89
Guidance: Laser-command
Weight, kg: 225
Length, m: 3.33
Body diameter, m: 0.273



Bombs**GBU-31**

(1) |9|8|7| |5|4|3|

Name: GBU-31
Type: Inertially Aided Munitions
Developed: USA
TNT equivalent, kg: 428
Guidance: Global Positioning System (GPS) guided and Inertial-guided system (INS) guided
Weight, kg: 900
Length, m: 3.8
Wingspan, m: 0.63

The Joint Direct Attack Munition (JDAM) is a guidance kit that converts unguided bombs, or "dumb bombs" into all-weather "smart" munitions. JDAM-equipped bombs are guided by an integrated inertial guidance system coupled to a Global Positioning System (GPS) receiver, giving them a published range of up to 15 nautical miles (28 km). The guidance system was developed by the United States Air Force and United States Navy, hence the "joint" in JDAM. The JDAM was meant to improve upon laser-guided bomb and imaging infrared technology, which can be hindered by bad ground and weather conditions. Laser designators are now being fitted to some JDAMs.

The GBU-31 is a standard Mk-84 general purpose bomb fitted with a JDAM guidance kit. The GBU-31 has the strakes along the sides of the bomb to improve flight characteristics.

**Bombs****GBU-38**

(1) |9|8|7| |5|4|3|

Name: GBU-38
Type: Inertially Aided Munitions
Developed: USA
Explosive Weight, kg: 87
Guidance: Global Positioning System (GPS) guided and Inertial-guided system (INS) guided
Weight, kg: 252
Length, m: 2.35
Glide Range, km: 15
Impact Accuracy: Within 33 feet

The Joint Direct Attack Munition (JDAM) is a guidance kit that converts unguided bombs, or "dumb bombs" into all-weather "smart" munitions. JDAM-equipped bombs are guided by an integrated inertial guidance system coupled to a Global Positioning System (GPS) receiver, giving them a published range of up to 15 nautical miles (28 km). The guidance system was developed by the United States Air Force and United States Navy, hence the "joint" in JDAM. The JDAM was meant to improve upon laser-guided bomb and imaging infrared technology, which can be hindered by bad ground and weather conditions.

The GBU-38 is a standard Mk-82 general purpose bomb fitted with a GPS guidance kit. This kit, referred to as the Joint Directed Attack Munition (JDAM) kit, turns an ordinary Mk-82 into a precision guided munition with a significant stand-off glide range. The kit consists of the GPS antenna on the rear of the bomb, actuated tail surfaces to steer it, and strakes along the body of some JDAM versions (not so with the GBU-38). As long as the bomb can be provided adequate GPS signal, it can strike within 33 feet of inputted target coordinates day or night and in most any weather. This ability to strike targets through clouds and weather gives it a significant advantage of laser-guided bombs.



Bombs	LUU-2	SUU-25 (8) 3x SUU-25 (3x 8)	10 9 3 2 9 3
-------	-------	--------------------------------	-----------------------

Name: LUU-2B/B
Type: Visible-spectrum illumination
Developed: USA
Payload: Magnesium
Length, m: 0.913
Diameter, m: 0.124
Weight, kg: 13.6
Illumination power: 1.6-1.8 million candela
Illumination durance, s: 240-300
Descent rate, m/s: 2.5
Flares in pod: 8

The A-10C can drop illumination flares to illuminate a battlefield area for ground forces without benefit of night vision devices. After ejection, a programmable timer deploys a parachute and ignites the flare candle. In regards to the LUU-2, the flare burns magnesium and provides illumination over a 500 meter circular area when the flare is at 1,000 feet. The flare will burn for approximately 5 minutes.



Bombs	Mk-82
-------	-------

(1) |11|10|9|8|7| |5|4|3|2|1|
(3) |9|8|7| |5|4|3|

Name: Mk 82
Type: General purpose bomb
Developed: USA
TNT equivalent, kg: 89
Weight, kg: 241
Length, m: 2.21
Body diameter, m: 0.273



Bombs	Mk-82AIR
-------	----------

(1) |11|10|9|8|7| |5|4|3|2|1|
(3) |9|8|7| |5|4|3|

Name: Mk-82AIR
Type: General purpose bomb
Developed: USA
Explosive Weight, kg: 87
Weight, kg: 241
Length, m: 2.21
Body diameter, m: 0.273

This version of the Mk-82 adds the BSU-49/B high drag tail assembly, also called the "ballute". This allows the bomb to rapidly slow down after release. By slowing down, pilot can release such a retarded weapon at low altitude and not be caught in the blast effect of the weapon. Pilot can choose to release the Mk-82AIR in either retarded or "slick" (no ballute deployed) modes.



Bombs**Mk-84**

(1) |9|8|7| |5|4|3|

Name: Mk 84
Type: General purpose bomb
Developed: USA
TNT equivalent, kg: 428
Weight, kg: 894
Length, m: 3.84
Body diameter, m: 0.46

**Fuel Tanks****TK600**

(1) |8| |6| |4|

Name: TK600
Type: External Fuel Tank
Capacity, l: 2271 (600 gallons, ca. 1850 kg, 4025 lbs.)

The fuel tank is unarmored and has no self-sealing capability. As such, this fuel tank is only carried during ferry missions and is never flown with in combat.

**Missiles****AGM-65D**LAU-117 (1) |9| |3|
LAU-88 (1/2/3) |9| |3|

Name: AGM-65D
Type: Medium-range, infrared, air-to-surface missile
Developed: USA
TNT equivalent, kg: 57
Guidance: imaging infrared
Weight, kg: 220
G limit: 16
Length, m: 2.49
Body diameter, m: 0.305
Range, km: 27 effective 8-16
Maximum Mach number: 0.85



Missiles**AGM-65G**

LAU-117

(1)

|9| |3|

Name: AGM-65G

Type: precision-guided, stand-off air-to-ground missile

Developed: USA

Warhead: 136 kg, penetrator fragmentation

Guidance: imaging infrared

Weight, kg: 304

Length, m: 2.49

Body diameter, m: 0.305

Max range, km: 27, effective 5-12

**Missiles****AGM-65H**

LAU-117

(1)

|9| |3|

LAU-88

(1/2/3)

|9| |3|

Name: AGM-65H

Type: precision-guided, stand-off air-to-ground missile

Developed: USA

Warhead: 56 kg, shaped charge

Guidance: electro-optical television guidance system

Weight, kg: 304

Length, m: 2.49

Body diameter, m: 0.305

Max range, km: 27, effective 5-12

**Missiles****AGM-65K**

LAU-117

(1)

|9| |3|

Name: AGM-65K

Type: Short-range, TV-guided, air-to-surface missile

Developed: USA

TNT equivalent, kg: 57

Guidance: TV

Weight, kg: 210

G limit: 16

Length, m: 2.49

Body diameter, m: 0.305

Range, km: 27 effective 5-10

Maximum Mach number: 0.85



Missiles**CATM-65K**

LAU-117

(1)

|9| |3|

Name: CATM-65K
Type: Training version of AGM-65K
Developed: USA
Payload: Inert
Guidance: TV
G limit: 16
Weight, kg: 210
Length, m: 2.49
Body diameter, m: 0.305
Maximum Mach number: 0.85

**Missiles****TGM-65D**

LAU-117

(1)

|9| |3|

Name: TGM-65D
Type: Training version of AGM-65D
Developed: USA
Payload: Inert
Guidance: imaging infrared
G limit: 16
Weight, kg: 220
Length, m: 2.49
Body diameter, m: 0.305
Maximum Mach number: 0.85

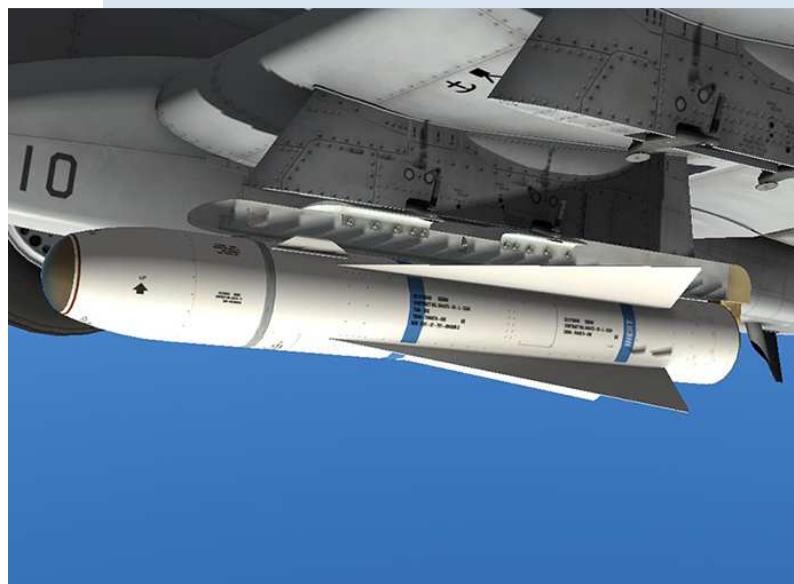
**Missiles****TGM-65G**

LAU-117

(1)

|9| |3|

Name: TGM-65G
Type: Training version of AGM-65G
Developed: USA
Payload: Inert
Guidance: imaging infrared
Weight, kg: 304
Length, m: 2.49
Body diameter, m: 0.305
Max range, km: 27, effective 5-12



Name: TGM-65H
 Type: Training version of AGM-65H
 Developed: USA
 Payload: Inert
 Guidance: electro-optical television guidance system
 Weight, kg: 304
 Length, m: 2.49
 Body diameter, m: 0.305
 Max range, km: 27, effective 5-12



Pods AN/AAQ-28 Litening

(1) | 10 | 2 |

Name: AN/AAQ-28 Litening AT
 Type: Navigation and infrared/electro-optical targeting pod
 Developed: USA, Israel
 Length, m: 2.20
 Diameter, m: 0.406
 Weight, kg: 200
 Sensors: Infrared detector, CCD-TV camera, laser rangefinder and laser designator

The Litening AT targeting pod incorporates both a day-time Charged Coupled Device (CCD) TV camera and a Forward Looking Infrared (FLIR) camera that are used to acquire and track targets day and night. Also built into the pod is a laser designation and ranging system and an infrared pointing device (IR Pointer). The pod can also detect laser illumination and track it in the Laser Spot Search and Laser Spot Track (LSS/LST) modes.

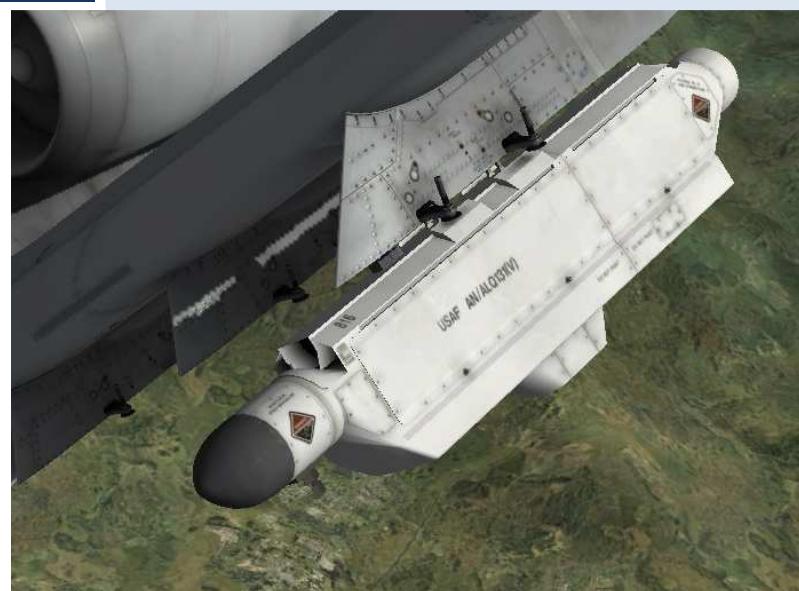


Pods AN/ALQ-131

(1) | 1 |

Name: AN/ALQ-131 (V)
 Type: Self Protection Jammer Pod
 Developed: USA
 Length, m: 3.05
 Width, m: 0.30
 Height, m: 0.53
 Weight, kg: 260.36
 Power: 400 Hz, 115 V, 3 phase, 5.6 kW
 Frequency range, GHz: 2-20
 MTBF, h: > 150
 MTTR, h: < 15,5

The ALQ-131 pod contributes to full-dimensional protection by improving individual aircraft probability of survival. The ALQ-131 Block V is an upgraded version of a pod configured ECM system. The pod provides self-protection jamming for USAF tactical fighter aircraft and is designed to operate in a dense, hostile environment of radar directed (RF) threats that require high duty cycle (pulse doppler) or CW jamming techniques.



Pods BRU-42LS

(1) |9|8|7| |5|4|3|

Name: BRU-42LS
Type: Improved Triple Ejector Rack (ITER) pod
Cartridges: 3
Length, m: 1.702
Width, m: 0.406
Height, m: 0.457
Weight, kg: 50.80



Pods LAU-105

(1) |11| |1|

Name: LAU-105
Type: Dual Rail Adapter (DRA) for Sidewinder air-to-air missiles
Rails: 2
Length, m: 1.448
Width, m: 0.363
Height, m: 0.178
Weight, kg: 25.85



Pods LAU-117

Name: LAU-117
Type: Single rail Maverick-guided missile launcher
Developed: USA
Rails: 1
Length, m: 2.286
Width, m: 0.279
Height, m: 0.254
Weight, kg: 61.23



Pods LAU-131

Type: Hydra-70 rockets launcher
Weight, kg: 44.0
Length, m: 1.557
Body diameter, m: 0.249
Rocket diameter, m: 0.070 (2.75 inch)
Tubes: 7



Pods LAU-68

Type: Hydra-70 rockets launcher, thermally coated
Weight, kg: 39.0
Length, m: 1.557
Body diameter, m: 0.249
Rocket diameter, m: 0.070 (2.75 inch)
Tubes: 7



Pods LAU-88

Name: LAU-88
Type: Triple rail Maverick-guided missile launcher
Developed: USA
Rails: 3
Length, m: 2.373
Width, m: 0.706
Height, m: 0.446
Weight, kg: 212.73



Pods MXU-648 Travel Pod

(1) |9|8|7| |5|4|3|

Name: MXU-648
Type: Travel Pod
Length, m: 4.648
Diameter, m: 0.673
Carry weight, kg: 106.14

Although this container has seen a broad range of uses over the years over a wide range of aircraft, for the A-10C it acts as a travel pod when the aircraft is deployed. The pod generally contains such items as intake covers, wheel chocks, and pin flags. This pod would never be carried in a combat mission.



Pods Smoke Generator

(1) |11| |1|

Name: R-73 Smoke Generator
Type: Air show smoke generator
Available colors: blue, green, orange, red, white, yellow



Pods SUU-25

Name: SUU-25
Type: Flare dispenser, can be loaded on both SER and TER racks
Developed: USA
Flares: 8
Length, m: 2.438
Diameter, m: 0.356
Weight (Empty), kg: 117.93
Weight (Loaded), kg: 226.73



Rockets	M151 (HE)	LAU-131 LAU-68 3x LAU-131 3x LAU-68	(7) (3x 7)	10 9 8 4 3 2 (3x 7) 9 8 4 3
<p>Name: M151 High-Explosive</p> <p>Type: Anti-personnel fragmentation warhead, Hydra-70 family of rockets</p> <p>Developed: USA</p> <p>Payload: 2.3 pounds (1.0 kg) Comp B-4 HE</p> <p>Guidance: none</p> <p>Weight, kg: 10.4 (Warhead: 4.2)</p> <p>Length, m: 1.382 (Warhead: 0.412)</p> <p>Body diameter, m: 0.070 (2.75 inch)</p> <p>Effective range, km: 0.5-8.0</p> <p>Maximum range: 10.5</p> <p>Fuze type: M423, M429, M433</p> <p>Motor: Mk 66</p> <p>Motor burn range, m: 400</p> <p>Motor burn time, s: 1.05-1.10</p> <p>Speed, km/h: 2660</p> <p>Spin rate, rps: 35</p>				

Rockets	M156 (WP)	LAU-131 LAU-68 3x LAU-131 3x LAU-68	(7) (3x 7)	10 9 8 4 3 2 (3x 7) 9 8 4 3
<p>Name: M156 White Phosphorus</p> <p>Type White phosphorus smoke warhead, Hydra-70 family of rockets</p> <p>Developed: USA</p> <p>Payload: 2.2 pounds (1.00 kg) WP</p> <p>Guidance: none</p> <p>Weight, kg: 10.58 (Warhead: 4.38)</p> <p>Length, m: 1.400 (Warhead: 0.412)</p> <p>Body diameter, m: 0.070 (2.75 inch)</p> <p>Effective range, km: 0.5-8.0</p> <p>Maximum range: 10.5</p> <p>Fuze type: M423, M429</p> <p>Motor: Mk 66</p> <p>Motor burn range, m: 400</p> <p>Motor burn time, s: 1.05-1.10</p> <p>Speed, km/h: 2660</p> <p>Spin rate, rps: 35</p>				

Rockets	M257 (PI)	LAU-131 LAU-68 3x LAU-131 3x LAU-68	(7) (3x 7)	10 9 8 4 3 2 (3x 7) 9 8 4 3
<p>Name: M257 Parachute Illumination</p> <p>Type Parachute-retarded illumination flare, Hydra-70 family of rockets</p> <p>Developed: USA</p> <p>Payload: One M257 Candle (Flare)</p> <p>Illumination power: 1 million candela</p> <p>Illumination duration, s: 100</p> <p>Guidance: none</p> <p>Weight, kg: 11.20 (Warhead: 5.00)</p> <p>Length, m: 1.861 (Warhead: 0.739)</p> <p>Body diameter, m: 0.070 (2.75 inch)</p> <p>Range, km: 3.5</p> <p>Fuze type: M442</p> <p>Motor: Mk 66</p> <p>Motor burn range, m: 400</p> <p>Motor burn time, s: 1.05-1.10</p> <p>Speed, km/h: 2660</p> <p>Spin rate, rps: 35</p>				

Rockets**M274 (PS)**

LAU-131 | LAU-68 (7) | 10|9|8| |4|3|2|
3x LAU-131 | 3x LAU-68 (3x 7) | 9|8| |4|3|

Name: M274 Practice Smoke
Type: Training smoke marker, Practice warhead for M151, Hydra-70 family of rockets
Developed: USA
Payload: 2 ounces (57 g) of potassium perchlorate and aluminum powder
Guidance: none
Weight, kg: 10.4 (Warhead: 4.2)
Length, m: 1.382 (Warhead: 0.412)
Body diameter, m: 0.070 (2.75 inch)
Effective range, km: 0.5-8.0
Maximum range: 10.5
Fuze type: M423
Motor: Mk 66
Motor burn range, m: 400
Motor burn time, s: 1.05-1.10
Speed, km/h: 2660
Spin rate, rps: 35

**Rockets****Mk 1 (Practice)**

LAU-131 | LAU-68 (7) | 10|9|8| |4|3|2|
3x LAU-131 | 3x LAU-68 (3x 7) | 9|8| |4|3|

Name: Mk 1 Practice
Type: Inert warhead practice rocket, Hydra-70 family of rockets
Developed: USA
Payload: Inert
Guidance: none
Weight, kg: 9.1 (Warhead: 2.9)
Length, m: 1.382 (Warhead: 0.412)
Body diameter, m: 0.070 (2.75 inch)
Effective range, km: 0.5-8.0
Maximum range: 10.5
Fuze type: Mk 178 and Mk 181 dummy fuzes
Motor: Mk 66
Motor burn range, m: 400
Motor burn time, s: 1.05-1.10
Speed, km/h: 2660
Spin rate, rps: 35

**Rockets****Mk 5 (HE)**

LAU-131 | LAU-68 (7) | 10|9|8| |4|3|2|
3x LAU-131 | 3x LAU-68 (3x 7) | 9|8| |4|3|

Name: Mk 5 High-Explosive
Type: HEAT - High explosive anti-tank warhead, Hydra-70 family of rockets
Developed: USA
Guidance: none
Body diameter, m: 0.070 (2.75 inch)
Effective range, km: 0.5-8.0
Maximum range: 10.5
Fuze type: M423
Motor: Mk 66
Motor burn range, m: 400
Motor burn time, s: 1.05-1.10
Speed, km/h: 2660
Spin rate, rps: 35



Rockets	Mk 61 (Practice)	LAU-131 LAU-68 3x LAU-131 3x LAU-68	(7) (3x 7)	10 9 8 4 3 2 (3x 7) 9 8 4 3
<p>Name: Mk 61 Practice</p> <p>Type: Inert warhead practice rocket, Hydra-70 family of rockets</p> <p>Developed: USA</p> <p>Payload: Inert</p> <p>Guidance: none</p> <p>Weight, kg: 9.1 (Warhead: 2.9)</p> <p>Length, m: 1.382 (Warhead: 0.412)</p> <p>Body diameter, m: 0.070 (2.75 inch)</p> <p>Effective range, km: 0.5-8.0</p> <p>Maximum range: 10.5</p> <p>Fuze type: Mk 178 and Mk 181 dummy fuzes</p> <p>Motor: Mk 66</p> <p>Motor burn range, m: 400</p> <p>Motor burn time, s: 1.05-1.10</p> <p>Speed, km/h: 2660</p> <p>Spin rate, rps: 35</p>				

Rockets	WTU-1/B (Practice)	LAU-131 LAU-68 3x LAU-131 3x LAU-68	(7) (3x 7)	10 9 8 4 3 2 (3x 7) 9 8 4 3
<p>Name: WTU-1/B Practice</p> <p>Type: Inert warhead practice rocket, Hydra-70 family of rockets</p> <p>Developed: USA</p> <p>Payload: Inert</p> <p>Guidance: none</p> <p>Weight, kg: 10.4 (Warhead: 4.2)</p> <p>Length, m: 1.404 (Warhead: 0.412)</p> <p>Body diameter, m: 0.070 (2.75 inch)</p> <p>Effective range, km: 0.5-8.0</p> <p>Maximum range: 10.5</p> <p>Fuze type: M423 or M427 dummy fuze</p> <p>Motor: Mk 66</p> <p>Motor burn range, m: 400</p> <p>Motor burn time, s: 1.05-1.10</p> <p>Speed, km/h: 2660</p> <p>Spin rate, rps: 35</p>				

3M9M				
<p>Name: 3M9M</p> <p>Type: Medium-range, radio command guidance + SARH, surface-to-air-missile for KUB</p> <p>Developed: Russia</p> <p>TNT equivalent, kg: 59</p> <p>Guidance: Semi-active radar</p> <p>Weight, kg: 600</p> <p>G limit: 16</p> <p>Length, m: 5.8</p> <p>Body diameter, m: 0.335</p> <p>Range, km: 16</p> <p>Maximum Mach number: 2.8</p>				

48H6E2

Name: 48H6E2
Type: Long-range, radio command guidance + TVM,
surface-to-air-missile for S-300PS
Developed: Russia
TNT equivalent, kg: 100
Guidance: Semi-active radar
Weight, kg: 1900
G limit: 27
Length, m: 7.0
Body diameter, m: 0.519
Range, km: 90
Maximum Mach number: 6.6



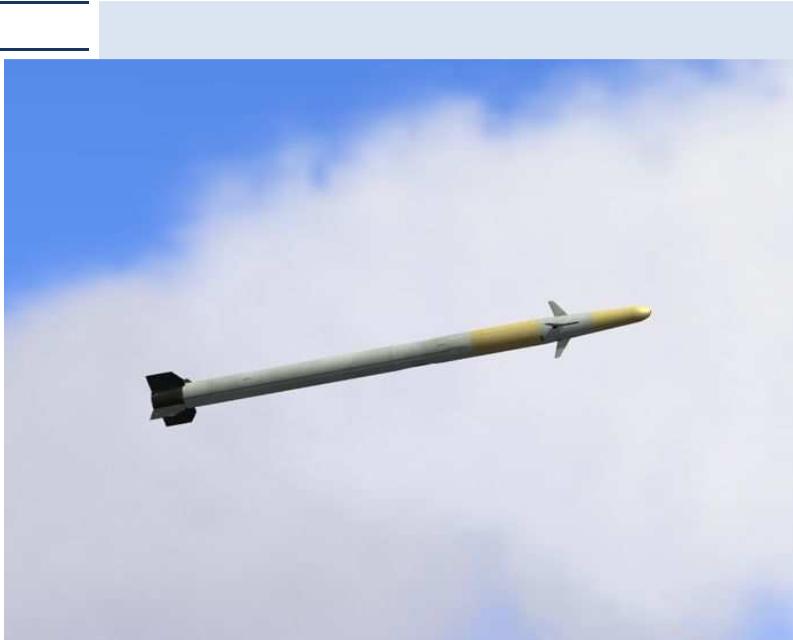
5V55

Name: 5V55
Type: Long-range, radio command guidance + TVM,
surface-to-air-missile for S-300PS
Developed: Russia
TNT equivalent, kg: 100
Guidance: Semi-active radar
Weight, kg: 1480
G limit: 27
Length, m: 7.0
Body diameter, m: 0.508
Range, km: 45
Maximum Mach number: 6.25



9A4172

Name: 9A4172 "Vikhr" (AT-16)
Type: Medium-range, anti-tank, laser-guided,
air-to-surface missile
Developed: Shipunov OKB, Russia
Guidance: semi-active laser
Weight, kg: 45
G limit: 20
Length, m: 2.80
Body diameter, m: 0.1308
Range, km: 10
Maximum Mach number: 1.8



9M113

Name: 9M113 Konkurs (AT-5 Spandrel)
Type: Short-range, laser-guided, anti-tank guided missile
Developed: Russia
TNT equivalent, kg: 32
Guidance: Laser
Weight, kg: 40
G limit: 16
Length, m: 1.3
Body diameter, m: 0.15
Range, km: 4
Maximum Mach number: 0.6



9M114

Name: 9M114 Shturm-V(AT-6)
Type: Short-range, radio command-guided, air-to-surface missile
Developed: Kolomna NPO, Russia
TNT equivalent, kg: 7.4
Guidance: radio-command
Weight, kg: 40
G limit: 20
Length, m: 1.83
Body diameter, m: 0.130
Range, km: 8
Maximum Mach number: 1.8



9M117

Name: 9M117 Bastion (AT-10 Stabber)
Type: Short-range, laser-guided, anti-tank guided missile
Developed: Russia
TNT equivalent, kg: 32
Guidance: Laser
Weight, kg: 40
G limit: 16
Length, m: 1.1
Body diameter, m: 0.1
Range, km: 4
Maximum Mach number: 0.6



9M133

Name: 9M133 "Kornet" (AT-14 "Spriggan")
Type: Short-range, laser-guided, air-to-surface missile
Developed: KBP Instrument Design Bureau, Tula, Russia
TNT equivalent, kg: 10
Guidance: laser-guided
Weight, kg: 27 (29 with launch tube)
Range, km: 5.5



The 9M133 missile together with its 9P163-1 tripod launcher and 1PN79-1 thermal sight forms the 9K123 missile system, the 9K123 can be carried and operated by a two infantry crew. In addition to an infantry portable version the 9K133 the system has been integrated into a variety of other vehicles and weapons systems as either an upgrade package or new weapon system. The 9K133 has been fitted into a BMP-3 to form the 9P163M-1 tank destroyer and is similar in function to the Khrizantema missile system. The 9P163M-1 carries two 9M133 missiles on launch rails which are extended from a stowed position during transit. Missiles are re-loaded automatically by the tank destroyer from an internal magazine with 16 rounds (missiles are stored and transported in sealed canisters). NBC protection is provided for the two crew (gunner and driver) of each 9P163M-1 in addition to full armor protection equivalent to the standard BMP-3 chassis. The guidance system of the 9P163M-1 allows two missiles to be fired at once, the missiles operating on different guidance (laser) channels.

During the 2003 invasion of Iraq, Kornets were rumored to have been used by Iraqi forces to attack American M1 Abrams tanks.

According to GlobalSecurity.org, at least two M1 Abrams tanks and one M2 Bradley infantry fighting vehicle were disabled by Kornets.

The first verified episode of Kornet ATGM in combat use occurred during the 2006 Lebanon War, where the missiles, reportedly supplied by Syria, were successfully used by Hezbollah fighters to destroy and damage Israeli Merkava tanks. One of the first detailed accounts of IDF's successful capture of Kornet ATGMs on Hezbollah positions in the village of Ghadouriyeh appeared in the Daily Telegraph article, which also reported that the boxes were marked with "Customer: Ministry of Defense of Syria. Supplier: KBP, Tula, Russia." Several months after the cease-fire, reports have provided sufficient photographic evidence that Kornet ATGMs were indeed both in possession of, and used by, Hezbollah in this area.

9M14

Name: 9M14 "Malyutka" (AT-3 "Sagger")
Type: Short-range, wire-guided, air-to-surface missile
Developed: Kolomna NPO, Russia
TNT equivalent, kg: 2.5
Guidance: wire-guided
Weight, kg: 11.30
G limit: 16
Length, m: 0.86
Body diameter, m: 0.125
Range, km: 3
Maximum Mach number: 0.34



9M22U

Name: 9M22U solid propellant rocket
Type: rocket for MLRS BM-21 Grad
Developed: Russia
TNT equivalent, kg: 15.6
Weight, kg: 70
Length, m: 5.1
Body diameter, m: 0.122
Range, km: 20.5
Speed, km/h: 1620



9M31

Name: 9M31
Type: Short-range, optical guidance,
surface-to-air-missile for Strela-1
Developed: Russia
TNT equivalent, kg: 2.6
Guidance: Infrared seeker
Weight, kg: 32
G limit: 20
Length, m: 1.8
Body diameter, m: 0.12
Range, km: 4.2
Maximum Mach number: 1.8



9M311

Name: 9M311
Type: Short-range, radio command guidance,
surface-to-air-missile for Tunguska
Developed: Russia
TNT equivalent, kg: 9
Guidance: Semi-active radar
Weight, kg: 57
G limit: 18
Length, m: 2.56
Body diameter, m: 0.175
Range, km: 8
Maximum Mach number: 2.82



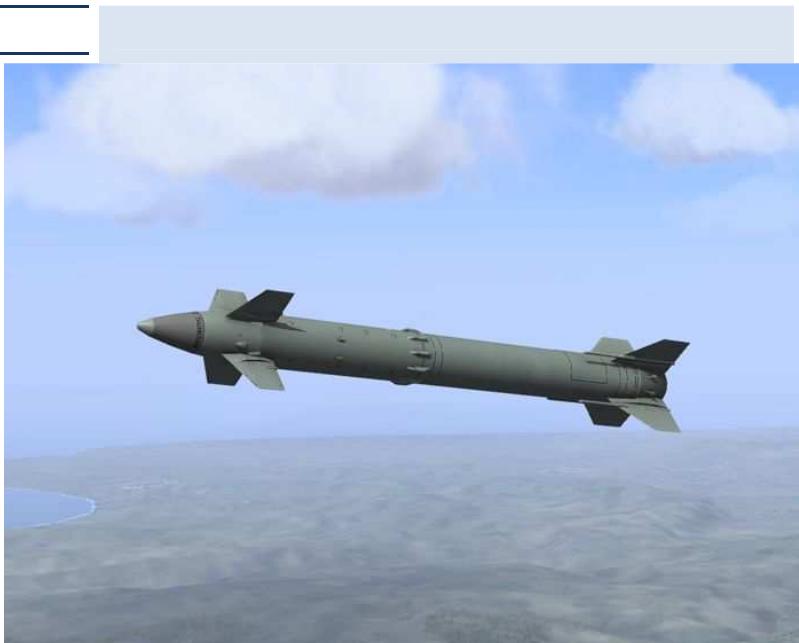
9M33

Name: 9M33
Type: Short-range, radio command guidance, surface-to-air-missile for OSA
Developed: Russia
TNT equivalent, kg: 20
Guidance: Semi-active radar
Weight, kg: 126.3
G limit: 18
Length, m: 3.1
Body diameter, m: 0.21
Range, km: 7
Maximum Mach number: 2.4



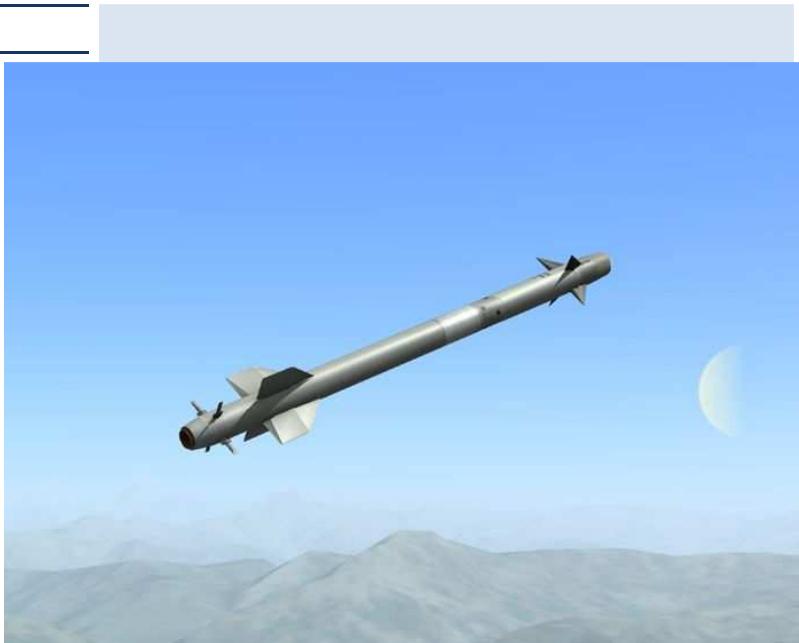
9M330

Name: 9M330
Type: Short-range, radio command guidance, surface-to-air-missile for TOR
Developed: Russia
TNT equivalent, kg: 14.5
Guidance: Semi-active radar
Weight, kg: 165
G limit: 20
Length, m: 3.5
Body diameter, m: 0.22
Range, km: 12
Maximum Mach number: 2.7



9M333

Name: 9M333
Type: Short-range, infrared guidance, surface-to-air-missile for Strela-10
Developed: Russia
TNT equivalent, kg: 4
Guidance: Infrared seeker
Weight, kg: 42
G limit: 16
Length, m: 2.2
Body diameter, m: 0.12
Range, km: 5
Maximum Mach number: 2



9M38M1

Name: 9M38M1
Type: Medium-range, SARH,
surface-to-air-missile for BUK
Developed: Russia
TNT equivalent, kg: 70
Guidance: Semi-active radar
Weight, kg: 685
G limit: 16
Length, m: 5.55
Body diameter, m: 0.4
Range, km: 3-32
Maximum Mach number: 3



9M39 Igla

Name: Igla
Type: Short-range, infrared-guided,
surface-to-air-missile, man-portable
Developed: Russia
TNT equivalent, kg: 1.2
Guidance: Infrared seeker
Weight, kg: 10.8
G limit: 20
Length, m: 1.55
Body diameter, m: 0.072
Range, km: 4.5
Maximum Mach number: 2.8



9M55K

Name: 9M55K solid propellant rocket
Type: Smerch-launched rocket
Developed: Russia
TNT equivalent, kg: 55.8
Weight, kg: 800
Length, m: 5.5
Body diameter, m: 0.3
Range, km: 70
Speed, km/h: 2988



AGM-114C

Name: AGM-114C
Type: Short-range, laser-guided, air-to-surface missile
Developed: USA
TNT equivalent, kg: 8
Guidance: semi-active laser
Weight, kg: 45.7
G limit: 20
Length, m: 1.63
Body diameter, m: 0.178
Range, km: 9
Maximum Mach number: 1.8



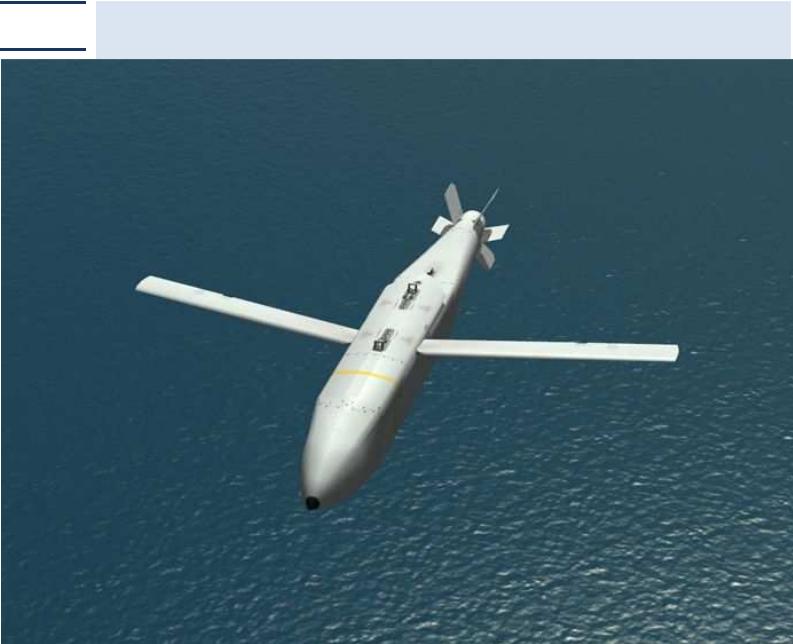
AGM-119A

Name: AGM-119A
Type: Medium-range, infrared guided, air-to-surface missile
Developed: Norway
TNT equivalent, kg: 140
Guidance: inertial and passive infrared
Weight, kg: 370
G limit: 16
Length, m: 3.18
Body diameter, m: 0.280
Range, km: 55
Maximum Mach number: 2.1



AGM-154

Name: AGM-154
Type: Tactical cruise missile
Developed: USA
TNT equivalent, kg: 42
Weight, kg: 484
Length, m: 4.26
Body diameter, m: 0.53 X 0.6



AGM-45

Name: AGM-45
Type: Medium-range, anti-radar, air-to-surface missile
Developed: USA
TNT equivalent, kg: 66
Guidance: passive radar
Weight, kg: 177
G limit: 16
Length, m: 3.05
Body diameter, m: 0.203
Range, km: 12
Maximum Mach number: 2



AGM-62

Name: AGM-62
Type: TV-guided bomb
Developed: USA
TNT equivalent, kg: 424
Guidance: TV-command
Weight, kg: 1088
Length, m: 4.05
Body diameter, m: 0.457



AGM-65E

Name: AGM-65E
Type: Medium-range, laser-guided, air-to-surface missile
Developed: USA
TNT equivalent, kg: 136
Guidance: semi-active laser
Weight, kg: 293
G limit: 16
Length, m: 2.49
Body diameter, m: 0.305
Range, km: 20
Maximum Mach number: 0.85



AGM-84A

Name: AGM-84A
Type: Long-range, radar-guided, air-to-surface missile
Developed: USA
TNT equivalent, kg: 222
Guidance: inertial with active radar
Weight, kg: 661.5 (sea-launched)
Weight, kg: 515 (air-launched)
G limit: 14
Length, m: 4.50
Body diameter, m: 0.343
Range, km: 120



AGM-84D

Name: AGM-84D
Developed: USA
TNT equivalent, kg: 225
Guidance: Autopilot
Weight, kg: 661.5
G limit: 14
Length, m: 3.8
Body diameter, m: 0.343
Range, km: 95
Maximum Mach number: 0.9



AGM-86

Name: AGM-86 ALCM
Type: Long-range, inertial-guided, cruise missile
Developed: USA
TNT equivalent: 200 kT nuclear
Guidance: inertial with Tercom
Weight, kg: 1458
G limit: 16
Length, m: 6.32
Body diameter, m: 0.693
Range, km: 2500
Maximum Mach number: 0.85



AGM-88

Name: AGM-88
Type: antiradiation, air-to-surface missile
Developed: USA
TNT equivalent, kg: 66
Guidance: passive radar
Weight, kg: 361
G limit: 16
Length, m: 4.17
Body diameter, m: 0.254
Range, km: 148
Maximum Mach number: 3.0



AIM-120B

Name: AIM-120B AMRAAM
Type: Medium-range, radar-guided, air-to-air missile
Developed: USA
TNT equivalent, kg: 22
Guidance: inertial and active radar
Weight, kg: 150
G limit: 22
Length, m: 3.65
Body diameter, m: 0.178
Range, km: 55
Maximum Mach number: 4

The AIM-120B missile was the result of the two Enhancement Programs. The B-model incorporates a new digital processor, erasable programmable read only memory, and five major electronic unit hardware chassis upgrades.



AIM-120C

Name: AIM-120C AMRAAM
Type: Medium-range, radar-guided, air-to-air missile
Developed: USA
TNT equivalent, kg: 22
Guidance: inertial and active radar
Weight, kg: 150
G limit: 22
Length, m: 3.65
Body diameter, m: 0.178
Range, km: 55
Maximum Mach number: 4

The AIM-120C will include a redesigned warhead and improvements to the rocket motor, fusing logic, guidance algorithms, and ECCM logic.

Modified for internal carriage on the F-22, the AIM-120C will have "clipped wings" to reduce its box size from 17.4 to 12.5 inches.



AIM-54C

Name: AIM-54C
Type: Long-range, radar-guided, air-to-air missile
Developed: USA
TNT equivalent, kg: 60.0
Guidance: semi-active, update, inertial and active radar
Weight, kg: 463
G limit: 16
Length, m: 3.96
Body diameter, m: 0.380
Range, km: 150
Maximum Mach number: 3



AIM-7M

Name: AIM-7M
Type: Medium-range, radar-guided, air-to-air missile
Developed: USA
TNT equivalent, kg: 39
Guidance: semi-active radar
Weight, kg: 230
G limit: 20
Length, m: 3.66
Body diameter, m: 0.203
Range, km: 45
Maximum Mach number: 3



AIM-9P

Name: AIM-9P Sidewinder
Type: Short-range, infrared, rear-aspect air-to-air missile
Developed: USA
TNT equivalent, kg: 11
Guidance: infrared
Weight, kg: 85.5
G limit: 22
Length, m: 2.83
Body diameter, m: 0.127
Range Max, km: 11
Maximum Mach number: 2.0



ALARM

Name: ALARM
Type: Medium-range, anti-radar, air-to-surface missile
Developed: UK
TNT equivalent, kg: 66
Guidance: Passive radar
Weight, kg: 268
G limit: 16
Length, m: 4.30
Body diameter, m: 0.224
Range, km: 45
Maximum Mach number: 2.1

Launch Weight: 268 kg
Length: 4.24 m
Diameter: 23 cm
Wing Span: 73 cm
Range: 1.9 - 46.3km
Speed: 2455 km/h (supersonic)

Date Deployed: 1990
User: UK
Primary Function: Suppression of Enemy Air Defence
Contractor: BAE Systems
Warhead: Proximity fuzed high-explosive seeker
Power Plant: Bayern Chemie two stage solid
propellant rocket motors
Unit Cost: undisclosed
Fuzes: Laser Proximity



AS 34

Name: AS 34 "Kormoran"
Type: Medium-range, radar-guided,
air-to-surface missile
Developed: Germany and France
TNT equivalent, kg: 165
Guidance: inertial and active radar
Weight, kg: 600
G limit: 16
Body diameter, m: 0.345
Length, m: 4.40
Range, km: 30
Maximum Mach number: 0.85



BGM-109B

Name: BGM-109B
Type: Long-range anti-ship cruise missile
Developed: USA
TNT equivalent, kg: 454
Guidance: Autopilot
Weight, kg: 1225
G limit: 17
Length, m: 6.2
Body diameter, m: 0.83
Range, km: 460
Maximum Mach number: 0.7



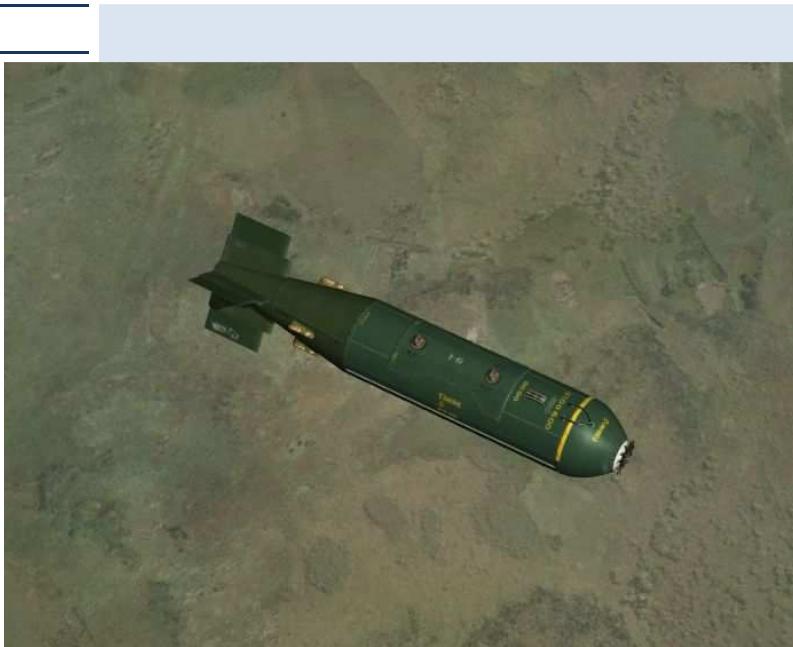
BGM-71D

Name: BGM-71D Tow
Type: Short-range, wire-guided, anti-tank missile
Developed: USA
TNT equivalent, kg: 4
Guidance: wire-guided
Weight, kg: 19
G limit: 16
Length, m: 1.45
Body diameter, m: 0.150
Range, km: 4
Maximum Mach number: 0.6



BL755

Name: BL755
Type: Cluster Bomb
Developed: UK
TNT equivalent, kg: 240
Weight, kg: 500
Length, m: 2.5
Body diameter, m: 0.4



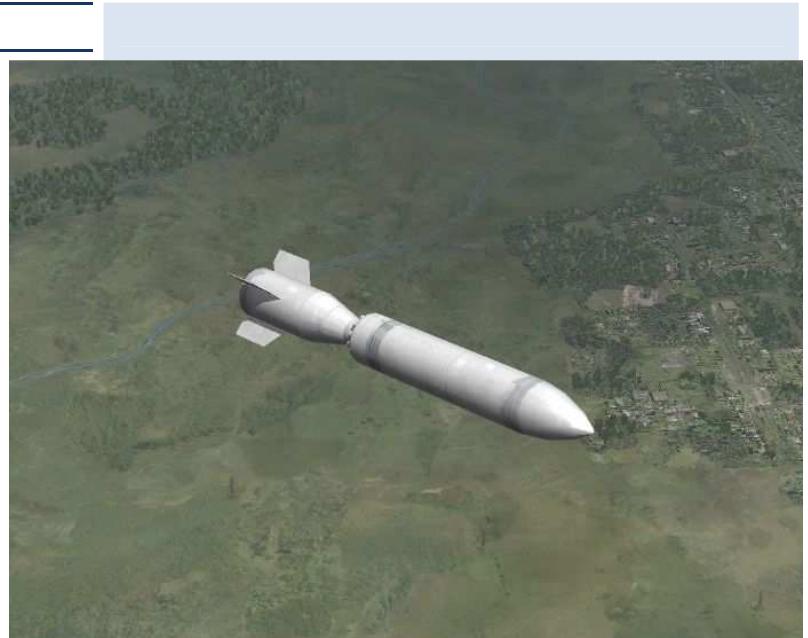
BetAB-500

Name: BetAB-500
Type: Penetration bomb with retarded system
Developed: Russia
TNT equivalent, kg: 75.8
Weight, kg: 478
Length, m: 2.2
Body diameter, m: 0.35



BetAB-500shp

Name: BetAB-500shp
Type: Penetration bomb with retarded system
Developed: Russia
TNT equivalent, kg: 77
Weight, kg: 380
Length, m: 2.51
Body diameter, m: 0.325



FAB-100

Name: FAB-100 (M62)
Type: General purpose bomb
Developed: Russia
TNT equivalent, kg: 44.9
Weight, kg: 99.8
Length, m: 1.69
Body diameter, m: 0.216



FAB-1500

Name: FAB-1500
Type: General purpose bomb
Developed: Russia
TNT equivalent, kg: 1100
Weight, kg: 1500
Length, m: 2.8
Body diameter, m: 0.622



FAB-250

Name: FAB-250
Type: General purpose bomb
Developed: Russia
TNT equivalent, kg: 120
Weight, kg: 249
Length, m: 2.16
Body diameter, m: 0.32



FAB-500

Name: FAB-500
Type: General purpose bomb
Developed: Russia
TNT equivalent, kg: 240
Weight, kg: 506
Length, m: 2.41
Body diameter, m: 0.447



FIM-92C

Name: FIM-92C
Type: Short-range, infrared, surface-to-air missile
Developed: USA
TNT equivalent, kg: 3
Guidance: infrared
Weight, kg: 16
G limit: 18
Length, m: 1.52
Body diameter, m: 0.070
Range, km: 3
Maximum Mach number: 2.2



GBU-16

Name: GBU-16
Type: Laser-guided bomb
Developed: USA
TNT equivalent, kg: 202
Guidance: Laser-command
Weight, kg: 454
Length, m: 3.68
Body diameter, m: 0.35



GBU-27

Name: GBU-27
Type: Laser-guided penetration bomb
Developed: USA
TNT equivalent, kg: 240
Guidance: Laser-command
Weight, kg: 984
Length, m: 4.24
Body diameter, m: 0.37



Hydra 70

Name: Hydra 70
Type: 70 mm unguided aircraft rockets
Developed: USA
TNT equivalent, kg: 2.4
Weight, kg: 6.2 (without warhead)
Length, m: 1.06
Body diameter, m: 0.070
Range, km: 8.8
Speed, km/h: 4388



KAB-1500L-Pr

Name: KAB-1500L-Pr
Type: Laser-guided bomb
Developed: GNPP (State Research Production Association), Russia
TNT equivalent, kg: 1100
Guidance: Laser-command
Weight, kg: 1500
Length, m: 4.6
Body diameter, m: 0.58



KAB-500Kr

Name: KAB-500Kr
Type: TV-guided bomb
Developed: GNPP (State Research Production Association), Russia
TNT equivalent, kg: 195
Guidance: TV-command
Weight, kg: 560
Length, m: 3.05
Body diameter, m: 0.35



KAB-500L

Name: KAB-500L
Type: Laser-guided bomb
Developed: GNPP (State Research Production Association), Russia
TNT equivalent, kg: 195
Guidance: Laser-command
Weight, kg: 534
Length, m: 3.05
Body diameter, m: 0.4



KMG-2F2B

Name: KMG-2F/2B
Type: Aircraft submunition dispenser
Developed: Russia
TNT equivalent, kg: 240
Weight, kg: 525
Length, m: 3.7
Body diameter, m: 0.46



Kh-22

Name: Kh-22 (AS-4 'Kitchen')
Type: Long-range, radar-guided, air-to-surface missile
Developed: OKB-155, Russia
TNT equivalent: 350 kT nuclear or 1000 kg
Guidance: inertial with active or passive radar
Weight, kg: 6800
G limit: 16
Length, m: 11.67
Body diameter, m: 1.00
Range, km: 400
Maximum Mach number: 4.6



Kh-25ML

Name: Kh-25ML (AS-10 'Karen')
Type: Short-range, laser-guided, air-to-surface missile
Developed: Zvezda-Strela, Russia
TNT equivalent, kg: 90
Guidance: semi-active laser
Weight, kg: 300
G limit: 20
Length, m: 3.71
Body diameter, m: 0.275
Range, km: 20
Maximum Mach number: 0.72



Kh-25MPU

Name: Kh-25MPU (AS-12 'Kegler')
Type: Medium-range, anti-radar, air-to-surface missile
Developed: Zvezda-Strela, Russia
TNT equivalent, kg: 90
Guidance: inertial and passive radar
Weight, kg: 320
G limit: 20
Length, m: 4.19
Body diameter, m: 0.275
Range, km: 25
Maximum Mach number: 0.76



Kh-25MR

Name: Kh-25MR (AS-10 'Karen')
Type: Short-range, radio command, air-to-surface missile
Developed: Zvezda-Strela, Russia
TNT equivalent, kg: 90
Guidance: radio-command
Weight, kg: 300
G limit: 20
Length, m: 3.69
Body diameter, m: 0.275
Range, km: 10
Maximum Mach number: 0.72



Kh-29L

Name: Kh-29L (AS-14 'Kedge')
Type: Medium-range, laser-guided, air-to-surface missile
Developed: Spetstekhnika Vympel NPO, Russia
TNT equivalent, kg: 317
Guidance: semi-active laser
Weight, kg: 657
G limit: 24
Length, m: 3.87
Body diameter, m: 0.380
Range, km: 10
Maximum Mach number: 2.5



Kh-29T

Name: Kh-29T (AS-14 'Kedge')
Type: Medium-range, TV-guided, air-to-surface missile
Developed: Spetstekhnika Vympel NPO, Russia
TNT equivalent, kg: 317
Guidance: TV-command
Weight, kg: 670
G limit: 24
Length, m: 3.87
Body diameter, m: 0.380
Range, km: 12
Maximum Mach number: 2.5



Kh-31A

Name: Kh-31A (AS-17 'Krypton')
Type: Medium-range, radar-guided, air-to-surface missile
Developed: Zvezda-Strela, Russia
TNT equivalent, kg: 90
Guidance: inertial with active radar
Weight, kg: 600
G limit: 20
Length, m: 4.70
Body diameter, m: 0.360
Range, km: 50
Maximum Mach number: 3.04



Kh-31P

Name: Kh-31P (AS-17 'Krypton')
Type: Medium-range, radar-guided, air-to-surface missile
Developed: Zvezda-Strela, Russia
TNT equivalent, kg: 90
Guidance: inertial with passive radar
Weight, kg: 600
G limit: 16
Length, m: 4.70
Body diameter, m: 0.360
Range, km: 150
Maximum Mach number: 3.04



Kh-35

Name: Kh-35 (AS-20 'Kayak')
Type: Long-range, radar-guided, air-to-surface missile
Developed: Zvezda-Strela, Russia
TNT equivalent, kg: 145
Guidance: inertial with active radar
Weight, kg: 480
G limit: 20
Length, m: 3.75
Body diameter, m: 0.420
Maximum Mach number: 0.9158



Kh-41

Name: Kh-41 (3M80 "Sunburn")
Type: Long-range, inertial- and radar-guided, air-to-surface missile
Developed: Raduga NPO, Russia
TNT equivalent, kg: 320
Guidance: inertial with active/passive radar
Weight, kg: 4.500
G limit: 17
Length, m: 9.74
Body diameter, m: 0.760
Range, km: 250
Maximum Mach number: 2.5



Kh-58U

Name: Kh-58 (AS-11 'Kilter')
Type: Medium-range, anti-radar, air-to-surface missile
Developed: Raduga NPO, Russia
TNT equivalent, kg: 150
Guidance: inertial and passive radar
Weight, kg: 640
G limit: 16
Length, m: 4.80
Body diameter, m: 0.380
Range, km: 70
Maximum Mach number: 4



Kh-59M

Name: Kh-59M (AS-18 'Kazoo')
Type: Long-range, TV command-guided, air-to-surface missile
Developed: Raduga NPO, Russia
TNT equivalent, kg: 320
Guidance: inertial and TV-command
Weight, kg: 930
G limit: 16
Length, m: 5.37
Body diameter, m: 0.38
Range, km: 115
Maximum Mach number: 0.85



Kh-65

Name: Kh-65 (AS-15B 'Kent')
Type: Long-range, inertial-guided, nuclear cruise missile
Developed: Raduga NPO, Russia
TNT equivalent, kT: 200
Guidance: inertial and terrain comparison
Weight, kg: 1700
G limit: 16
Length, m: 6.04
Body diameter, m: 0.770
Range, km: 3.000
Maximum Mach number: 0.77



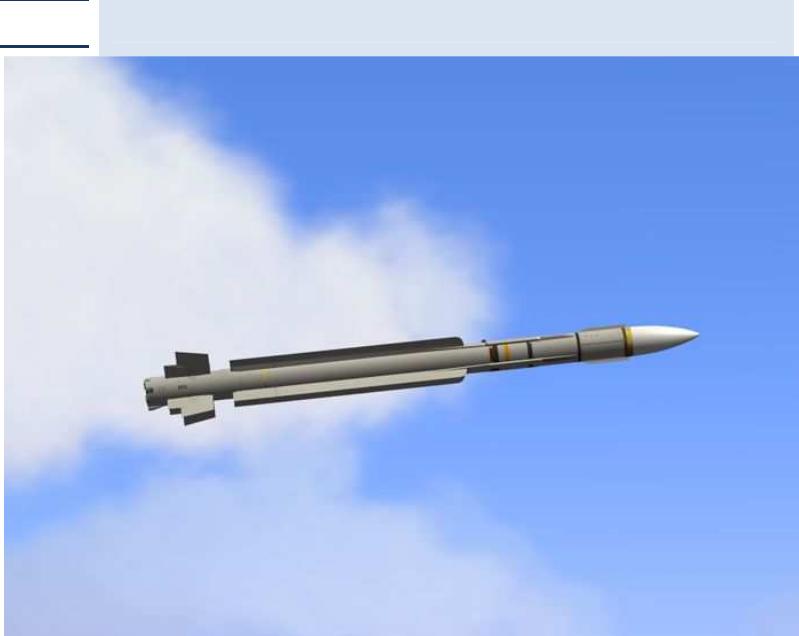
M26

Name: M26
Type: MLRS-launched rocket
Developed: USA
TNT equivalent, kg: 60
Weight, kg: 306
Length, m: 3.9
Body diameter, m: 0.24
Range, km: 31.8
Speed, km/h: 2124



MICA-EM

Name: MICA-EM
Type: Medium-range radar-guided air-to-air missile
Developed: France and UK
TNT equivalent, kg: 12
Guidance: active radar
Weight, kg: 110
G limit: 18
Length, m: 3.1
Body diameter, m: 0.165
Range, km: 50
Maximum Mach number: 2.5



MICA-IR

Name: MICA
Type: Medium-range infrared air-to-air missile
Developed: France and UK
TNT equivalent, kg: 12
Guidance: infrared
Weight, kg: 110
G limit: 18
Length, m: 3.1
Body diameter, m: 0.165
Range, km: 50
Maximum Mach number: 2.5



MIM-104

Name: MIM-104
Type: Long-range, radio command guidance + TVM,
surface-to-air-missile for Patriot
Developed: USA
TNT equivalent, kg: 73
Guidance: Semi-active radar
Weight, kg: 912
G limit: 30
Length, m: 5.3
Body diameter, m: 0.41
Range, km: 90
Maximum Mach number: 5



MIM-115 Roland

Name: MIM-115 Roland
Type: Short-range, radio command guidance,
surface-to-air-missile for Roland
Developed: France
TNT equivalent, kg: 9.2
Guidance: Semi-active radar
Weight, kg: 75
G limit: 14
Length, m: 2.4
Body diameter, m: 0.15
Range, km: 6
Maximum Mach number: 1.6



MIM-23B

Name: MIM-23B
Type: Medium-range, SARH,
surface-to-air-missile for HAWK
Developed: USA
TNT equivalent, kg: 70
Guidance: Semi-active radar
Weight, kg: 630
G limit: 16
Length, m: 5
Body diameter, m: 0.37
Range, km: 16
Maximum Mach number: 2.7



MIM-72G

Name: Forward Area Air-Defense System M48
Type: Short-range, infrared-guided, surface-to-air-missile
Developed: USA
Warhead: 12.6 kg M250 blast-fragmentation
Launch Weight: 84 kg
Length (missile): 2.91 m
Diameter (missile): 0.127 m
Wingspan: 0.64 m
Max altitude: 3000 m
Min effective range: 400 m
Max range: 8500 m
Max speed: Mach 2.5



P-500

Name: P-500 (SS-N-12) "Sandbox"
Type: Long-range anti-ship cruise missile
Developed: Russia
TNT equivalent, kg: 1000
Guidance: Autopilot
Weight, kg: 4800
G limit: 17
Length, m: 11.7
Body diameter, m: 0.95
Range, km: 550
Maximum Mach number: 2.5



P-700

Name: P-700 (SS-N-19)
Type: Long-range anti-ship cruise missile
Developed: Russia
TNT equivalent, kg: 750
Guidance: Autopilot
Weight, kg: 7000
G limit: 16
Length, m: 10.0
Body diameter, m: 0.85
Range, km: 550
Maximum Mach number: 2.5



R-24R

Name: R-24R (AA-7 'Apex')
Type: Medium-range, radar-guided, air-to-air missile
Developed: Vympel OKB, Russia
TNT equivalent, kg: 30
Guidance: command and semi-active radar
Weight, kg: 235
G limit: 18
Length, m: 4.46
Body diameter, m: 0.2
Range, km: 20
Maximum Mach number: 3



R-24T

Name: R-24T (AA-7 'Apex')
Type: Medium-range, infrared, air-to-air missile
Developed: Vympel OKB, Russia
TNT equivalent, kg: 30
Guidance: command and infrared
Weight, kg: 215
G limit: 18
Length, m: 4.16
Body diameter, m: 0.2
Range, km: 20
Maximum Mach number: 3



R-27ER

Name: R-27ER (AA-10 'Alamo')
Type: Medium-range, radar-guided, air-to-air missile
Developed: SpetsTekhnika Vympel NPO, Russia
TNT equivalent, kg: 39
Guidance: inertial, command and semi-active radar
Weight, kg: 350
G limit: 18
Length, m: 4.70
Body diameter, m: 0.26
Range, km: 70
Maximum Mach number: 3



R-27ET

Name: R-27ET (AA-10 'Alamo')
Type: Long-range, infrared, air-to-air missile
Developed: Spetstekhnika Vympel NPO, Russia
TNT equivalent, kg: 39
Guidance: inertial, command and infrared
Weight, kg: 343
G limit: 18
Length, m: 4.50
Body diameter, m: 0.26
Range, km: 70
Maximum Mach number: 3



R-27R

Name: R-27R (AA-10 'Alamo')
Type: Medium-range, radar-guided, air-to-air missile
Developed: Spetstekhnika Vympel NPO, Russia
TNT equivalent, kg: 39
Guidance: inertial, command and semi-active radar
Weight, kg: 253
G limit: 18
Length, m: 4.00
Body diameter, m: 0.23
Range, km: 50
Maximum Mach number: 3



R-27T

Name: R-27T (AA-10 'Alamo')
Type: Medium-range, infrared, air-to-air missile
Developed: Spetstekhnika Vympel NPO, Russia
TNT equivalent, kg: 39
Guidance: inertial, command and infrared
Weight, kg: 254
G limit: 18
Length, m: 3.70
Body diameter, m: 0.23
Range, km: 40
Maximum Mach number: 3



R-33

Name: R-33 (AA-9 'Amos')
Type: Long-range, radar-guided, air-to-air missile
Developed: Spetsztekhnika Vympel NPO, Russia
TNT equivalent, kg: 47
Guidance: inertial, command updates and semi-active radar
Weight, kg: 490
G limit: 16
Length, m: 4.15
Body diameter, m: 0.38
Range, km: 100
Maximum Mach number: 3.5



R-40R

Name: R-40R (AA-6 'Acrid')
Type: Medium-range, radar-guided, air-to-air missile
Developed: Russia
TNT equivalent, kg: 70
Guidance: command, inertial and semi-active radar
Weight, kg: 475
G limit: 18
Length, m: 6.2
Body diameter, m: 0.355
Range, km: 30
Maximum Mach number: 3



R-40T

Name: R-40T (AA-6 'Acrid')
Type: Medium-range, infrared, air-to-air missile
Developed: Russia
TNT equivalent, kg: 70
Guidance: command, inertial and infrared
Weight, kg: 475
G limit: 18
Length, m: 6.2
Body diameter, m: 0.355
Range, km: 30
Maximum Mach number: 3



R-60

Name: R-60 (AA-8 'Aphid')
Type: Short-range, infrared, air-to-air missile
Developed: Molniya OKB, Russia
TNT equivalent, kg: 6.0
Guidance: infrared
Weight, kg: 65
G limit: 18
Length, m: 2.08
Body diameter, m: 0.13
Range, km: 5.0
Maximum Mach number: 2



R-73

Name: R-73 (AA-11 'Archer')
Type: Medium-range, infrared, air-to-air missile
Developed: Molniya OKB, Russia
TNT equivalent, kg: 7.4
Guidance: inertial and infrared
Weight, kg: 110
G limit: 30
Length, m: 2.90
Body diameter, m: 0.17
Range, km: 15
Maximum Mach number: 2.5



R-77

Name: R-77 (AA-12 'Adder')
Type: Medium-range, radar-guided, air-to-air missile
Developed: Spetstekhnika Vympel NPO, Russia
TNT equivalent, kg: 30
Guidance: inertial, command and active radar
Weight, kg: 175
G limit: 30
Length, m: 3.60
Body diameter, m: 0.200
Range, km: 50
Maximum Mach number: 3



R550 Magic 2

Name: R550 Magic 2
Type: Short-range, infrared, air-to-air missile
Developed: France
TNT equivalent, kg: 13
Guidance: Infrared seeker
Weight, kg: 90
G limit: 18
Length, m: 2.75
Body diameter, m: 0.157
Range, km: 5
Maximum Mach number: 2



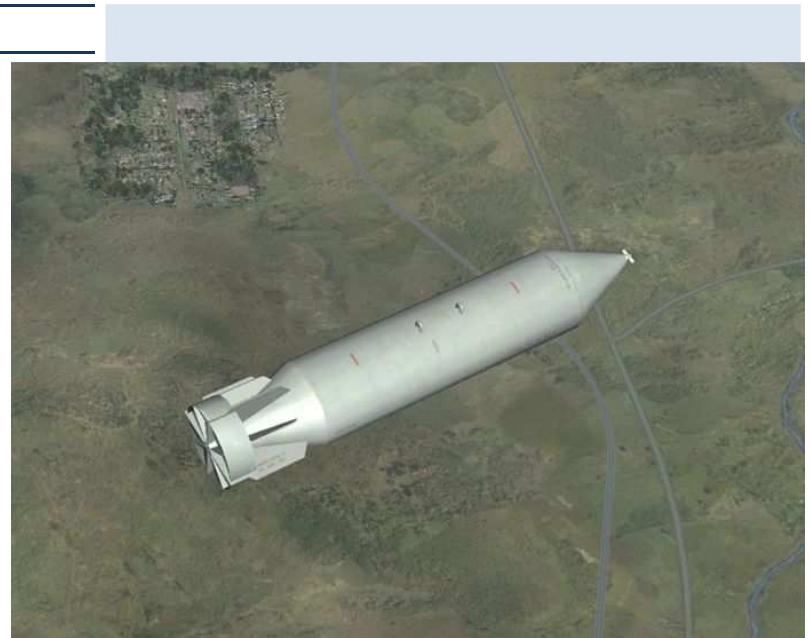
RBK-250

Name: RBK-250
Type: Multipurpose cluster bomb
Developed: Russia
TNT equivalent, kg: 94
Weight, kg: 275
Length, m: 2.12
Body diameter, m: 0.325



RBK-500AO

Name: RBK-500AO
Type: Anti-personnel/anti-material cluster bomb
Developed: Russia
Filling, bomblet: 108
Weight, kg: 504
Length, m: 2.5
Body diameter, m: 0.45



Rockeye

Name: Rockeye Mk-20
Type: Multipurpose cluster bomb
Developed: USA
TNT equivalent, kg: 50
Weight, kg: 222
Length, m: 2.34
Body diameter, m: 0.335



S-13

Name: S-13
Type: 122 mm unguided aircraft rockets
Developed: Spetstekhnika Vympel NPO, Russia
TNT equivalent, kg: 32.5
Weight, kg: 68
Length, m: 1.80
Body diameter, m: 0.122
Range, km: 2.5
Speed, km/h: 2700



S-24

Name: S-24
Type: 240 mm unguided aircraft rockets
Developed: Spetstekhnika Vympel NPO, Russia
TNT equivalent, kg: 123
Weight, kg: 235
Length, m: 2.33
Body diameter, m: 0.24
Range, km: 2
Speed, km/h: 2520



S-25

Name: S-25
Type: 340 mm unguided aircraft rocket
Developed: Russia
TNT equivalent, kg: 190
Weight, kg: 480
Length, m: 3.31
Body diameter, m: 0.34
Range, km: 3
Speed, km/h: 2520



S-25L

Name: S-25L
Type: 340 mm laser guided aircraft rocket
Developed: Russia
TNT equivalent, kg: 190
Weight, kg: 480
Length, m: 3.31
Body diameter, m: 0.34
Range, km: 3
Speed, km/h: 2520



S-5

Name: S-5
Type: 57 mm unguided aircraft rockets
Developed: Spetztekhnika Vympel NPO, Russia
TNT equivalent, kg: 1.05
Weight, kg: 3.86
Length, m: 0.88
Body diameter, m: 0.052
Range, km: 3
Speed, km/h: 2422.8



S-8KOM

Name: S-8KOM
Type: 80 mm unguided aircraft rocket
Developed: Spetstekhnika Vympel NPO, Russia
Caliber, mm: 80
Warhead weight, kg: 3.6
Warhead type: shaped-charge fragmentation
Firing range, m: 1300 - 4000
Armor penetration, mm: 400
Weight, kg: 11.3
Length, m: 1.57
Speed, km/h: 2196

This rocket is intended to engage modern tanks, lightly armored and soft-skinned combat materiel. Owing to the fragmentation effect, the rocket also inflicts damage on manpower.



S-8OFP2

Name: S-8OFP2
Type: 80 mm unguided aircraft rocket
Developed: RUSSIAN FEDERAL STATE UNITARY ENTERPRISE "SPLAV STATE RESEARCH and PRODUCTION ASSOCIATION", Russia
Caliber, mm: 80
Warhead weight, kg: 9.2
Warhead type: high explosive fragmentation
Firing range, m: 1300 - 4000
Weight, kg: 16.7
Length, m: 1.476

This rocket is designed to engage personnel, soft and lightly armored targets.



S-8OM

Name: S-8OM
Type: 80 mm unguided aircraft rocket
Developed: Spetstekhnika Vympel NPO, Russia
Caliber, mm: 80
Warhead weight, kg: 4.3
Warhead type: illuminating compound
Firing range, m: 6000 - 7000
Illumination duration, s: 35
Weight, kg: 12.1
Length, m: 1.632

This rocket is intended for terrain illumination at night. It is an auxiliary purpose rocket.



S-8TsM

Name: S-8TsM
Type: 80 mm unguided aircraft rocket
Developed: Spetstekhnika Vympel NPO, Russia
Caliber, mm: 80
Warhead weight, kg: 3.6
Warhead type: marker
Firing range, m: 1300 - 3000
Weight, kg: 11.1
Length, m: 1.605

This rocket is intended to mark ground targets, routes of movement and landing areas in daytime.



SAB-100

Name: SAB-250
Type: Illumination bomb
Developed: Russia
Release altitude: 1000...3000 m

Contain 8 illumination flares. Each flare burn during 2 minutes.



SM-2

Name: SM-2 (RIM-66)
Type: Long-range, radio command guidance + SARH, naval surface-to-air-missile
Developed: USA
TNT equivalent, kg: 98
Guidance: Semi-active radar
Weight, kg: 615
G limit: 16
Length, m: 4.4
Body diameter, m: 0.34
Range, km: 35
Maximum Mach number: 2.7



SPPU-22

Name: SPPU-22
Type: Flexible cannon pod
Developed: Russia
Gun type: GSh-23L
Number of barrels: 2
Barrel deflection angle, deg: 0-30
Caliber: 23mm
Deflection method: manual or laser lock
Firing rate, rounds/minute: 2800-3000
Muzzle velocity, m/s: 690-890
Range, km: 3
Ammunition storage, rounds: 260
Weight, kg: 320



Sea Eagle

Name: Sea Eagle
Type: Long-range, radar-guided, antiship missile
Developed: UK
TNT equivalent, kg: 230
Guidance: inertial and active radar
Weight, kg: 600
G limit: 20
Length, m: 4.14
Body diameter, m: 0.400
Range, km: 110
Maximum Mach number: 0.85



Super 530D

Name: Super 530D
Type: Medium-range, radar-guided, air-to-air missile
Developed: France
TNT equivalent, kg: 30
Guidance: Semi-active radar
Weight, kg: 245
G limit: 18
Length, m: 3.54
Body diameter, m: 0.263
Range, km: 25
Maximum Mach number: 5



Zuni

Name: Zuni
Type: 127 mm unguided aircraft rockets
Developed: USA
TNT equivalent, kg: 26
Weight, kg: 56.3
Length, m: 2.93
Body diameter, m: 0.127
Range, km: 4
Speed, km/h: 2520



Ammunition depot



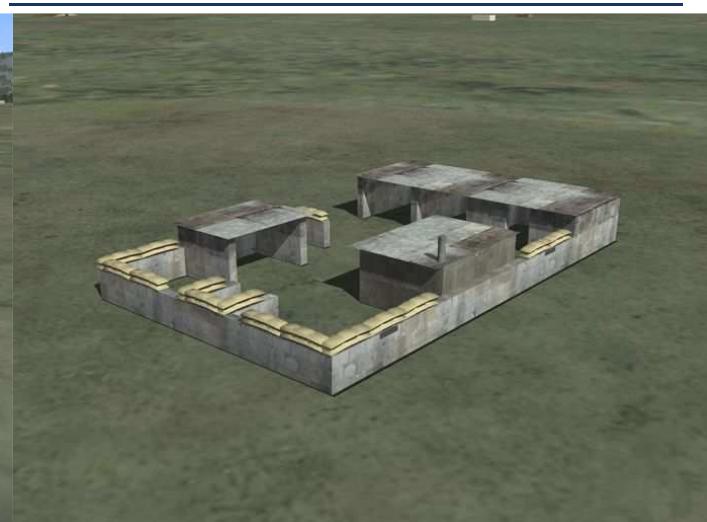
Barracks 1



Barracks 2



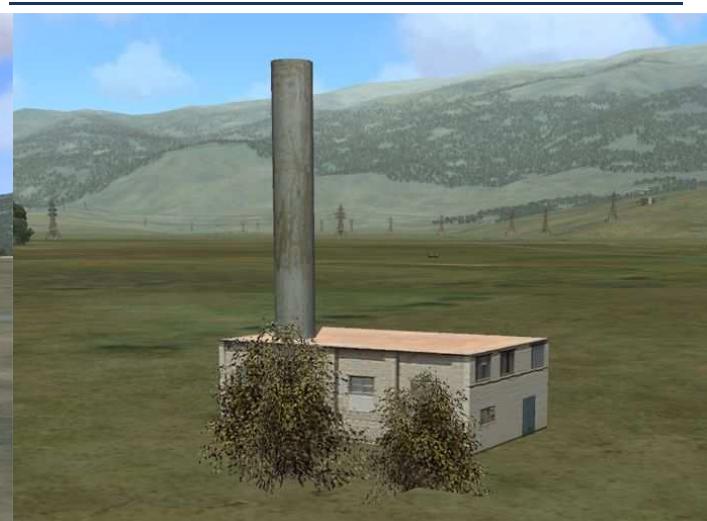
Block



Block on road



Boiler-house A



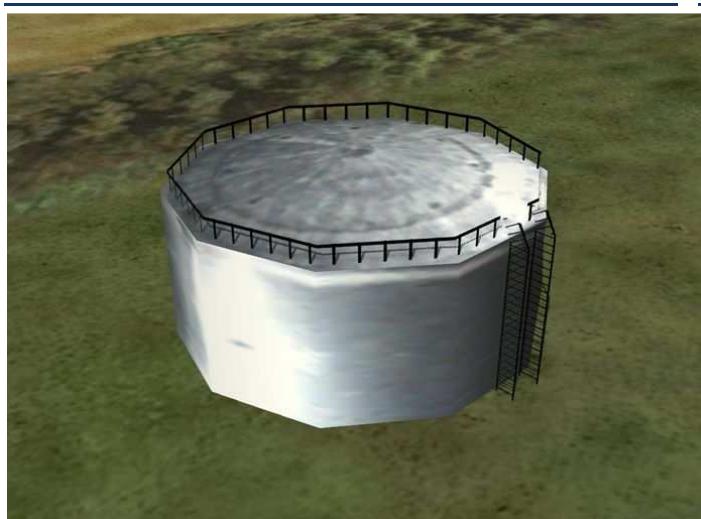
Bunker



Cafe



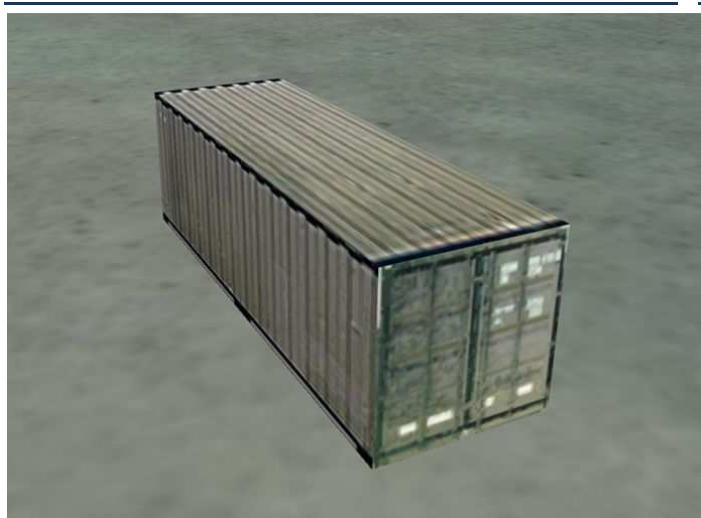
Chemical tank A



Command Center



Container brown



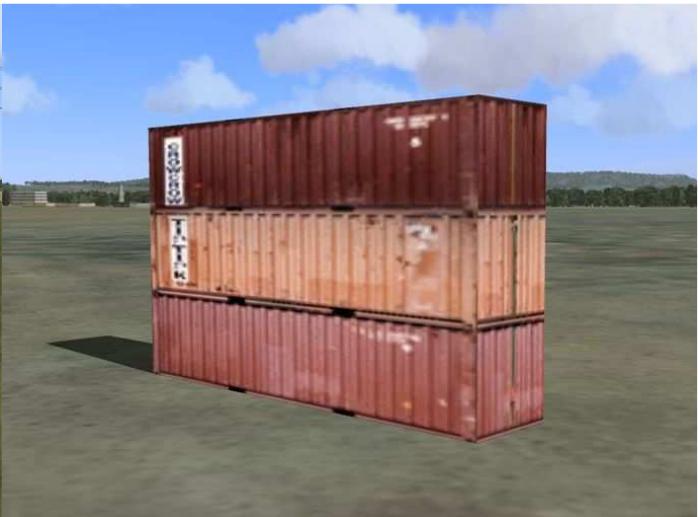
Container red 1



Container red 2



Container red 3



Container white



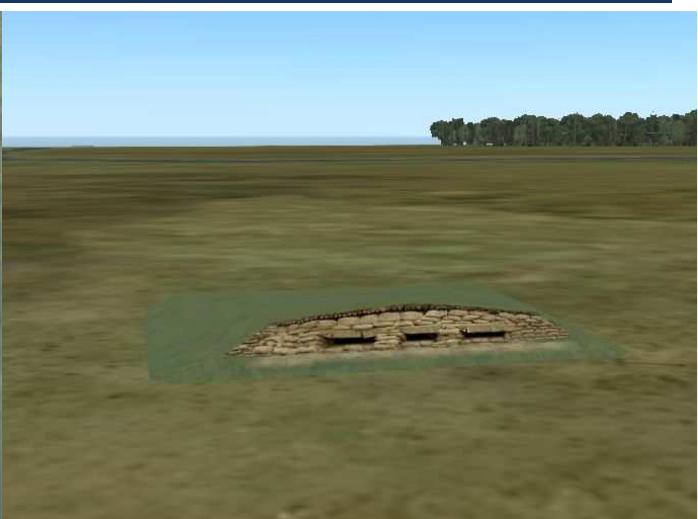
Electric power box



FARP Ammo Storage



FARP Command Post



FARP Fuel Depot



FARP Tent



Farm A



Farm B



Fuel tank



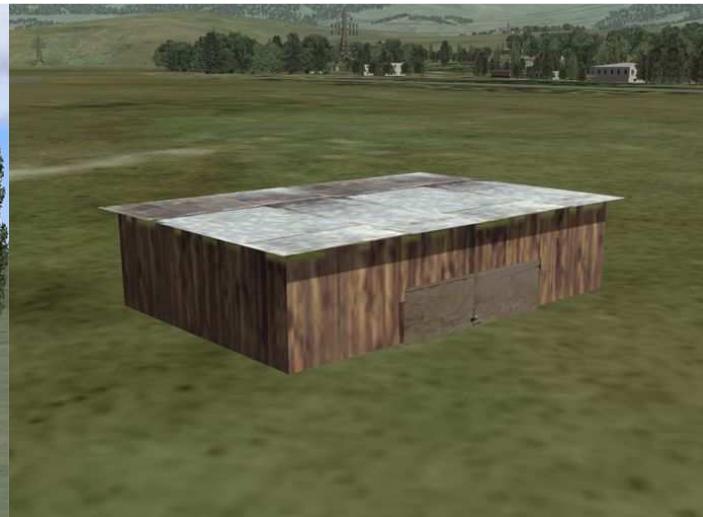
Garage A



Garage B



Garage small A



Garage small B



Hangar A



Hangar B



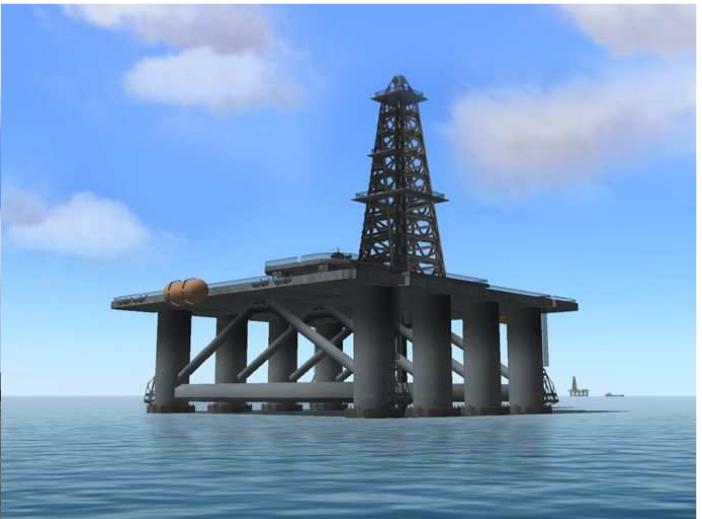
Military staff



Oil derrick



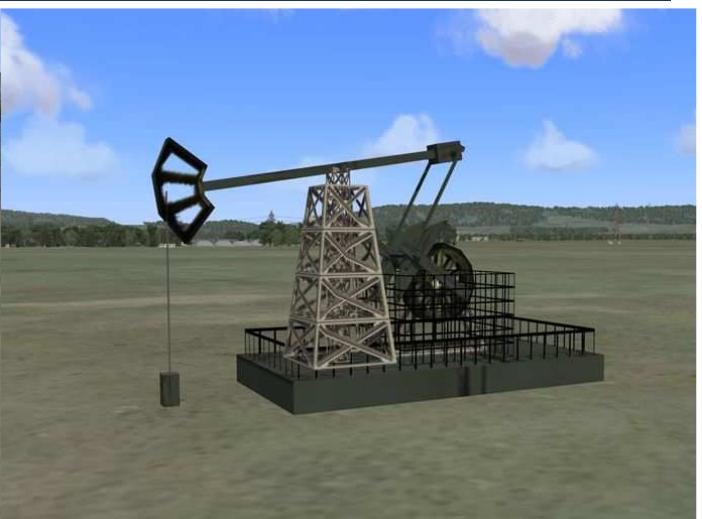
Oil platform



Pill-box



Pump station



Railway crossing B



Railway station



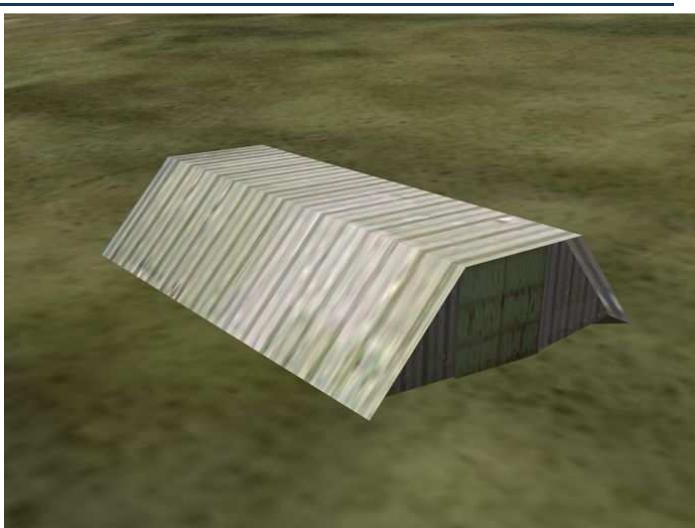
Repair workshop



Restaurant 1



Shelter A



Shelter B



Shop



Small house 1A



Small house 1A area



Small house 1B



Small house 1B area



Small house 1C area



Small house 2C



Small warehouse 1



Small warehouse 2



Small warehouse 3



Small warehouse 4



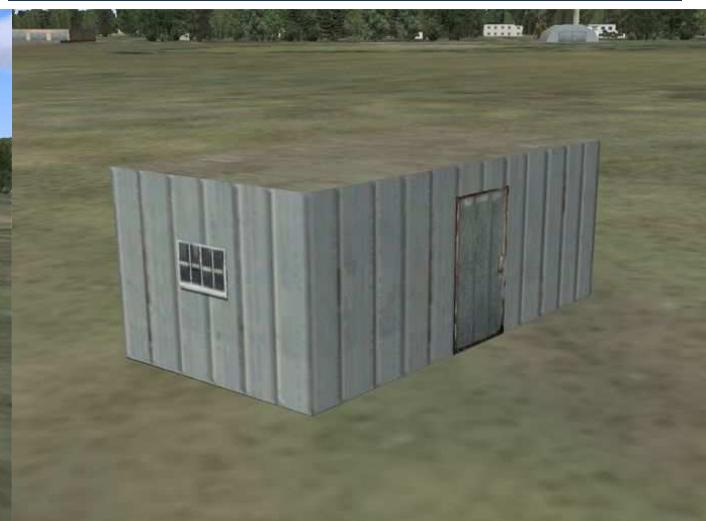
Subsidiary structure 1



Subsidiary structure 2



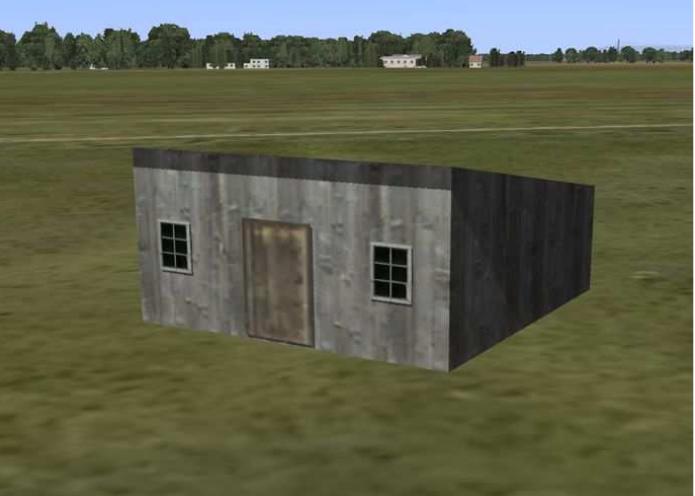
Subsidiary structure 3



Subsidiary structure A



Subsidiary structure B



Subsidiary structure C



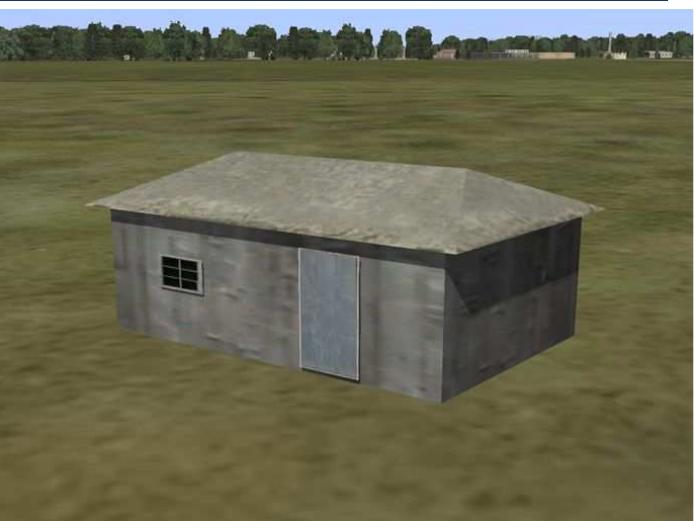
Subsidiary structure D



Subsidiary structure E



Subsidiary structure F



Subsidiary structure G



Supermarket A



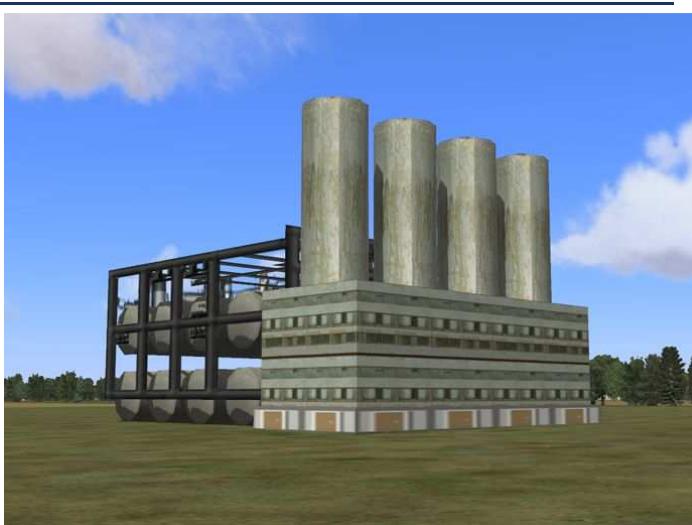
TV tower



Tank



Tech combine



Tech hangar A



WC



Warehouse



Watchtower



Water tower A



Workshop A

