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A subsidiary of a state company "Ukrspецexport"

search

[Home](#)
[About](#)
[Products](#)
[Services](#)
[Perspective implementations](#)
[Press-center](#)
[Contacts](#)
[Main](#) > [Products](#) > [Aerospace equipment](#) >

Aerospace equipment

[Air defense technique](#)[RLS](#)[Armoured Vehicles](#)[Naval technique](#)[Defensive Systems](#)[Arms and ammunition](#)[Non-lethal weapons](#)[Communication, ACS](#)

## Su-25



Su-25 is designed for direct aviation support of the Army, destruction of small-size moving and fixed objects under conditions of visibility at the forefront in tactical and nearest operative depth.

### Main performances

Modification	Su-25
Wingspan, m	14.36
Aircraft length, m	15.36
Aircraft height, m	4.80
Wing area, m <sup>2</sup>	33.70
Weight, kg	
Empty aircraft	9500
Normal takeoff	14600
Maximum takeoff	17600
Fuel:	
Internal fuel, kg	5000
Suspended fuel tanks	2
Type of engine	2 TRD R-195 (R95Sh)
Traction, kN	2 x 44.13 (40.20)
Maximum speed, km/h:	
Ground-level	975
At high level	M=0.82
Practical range, km	1850
Combat radius capability, km:	
At high level	1250
Ground-level	750
Practical ceiling, m	7000-10000
Max combat height	5000
Max operating overload	6,5
Ground-level	975
Crew, persons	1
Armament:	one 30-mm double-barrelled gun GSh-30-2 in lower nose part with 250 rounds. Combat load - 4340 kg on 8(10) hanger units, normal load - 1340 kg Bomb load: up to 8-10 x 500-250-kg avia bombs, 32 x 100-kg bombs

### More

[Microsatellite MS-2-8](#)[Spacecrafts SICH-2](#)[Launch vehicle ZENIT-2SLB](#)[Launch vehicle ZENIT-3SL](#)[Launch vehicle ZENIT-3SLB](#)[Launch vehicle DNEPR](#)[TB3-117VMA-SBM1V-03](#)[SU-24 \(SU-24M\) Front-line bomber](#)[MiG-29 Front-line fighter](#)[MiG-23M \(ML, MLD\) Front-line fighters](#)[Two-seat training aircraft L-39C](#)[Mi-24V](#)[Mi-8T](#)[Military-transport helicopter Mi-8MT \(Mi17\)](#)[Repair and modernization of helicopters Mi-24, Mi-25 and Mi-35](#)[Upgrading of Mi-8T \(MT\) Helicopters](#)[Services on Repair and Updating of Light Front-Line Fighter MIG-29](#)[Services on overhaul and upgrade of Su-25 ground-attack aircraft](#)[AN-32 AIRCRAFT OVERHAUL AND REFURBISHMENT](#)[MI-24 Simulator](#)["GURT-M" system](#)

Two interchangeable non-afterburning turbo-jet engines R-95Sh with non-adjustable nozzle with downstream gearbox, with autonomous electric startup will be installed.

### Sighting equipment:

- Modernized sight ASP-17BTs-8M2 provides sighting while shooting, bombing and missiles launch at day time and at night time at visible ground and air targets;
- Laser station of illumination and range-metering (Klen-PS) provides measuring of slant range to target when solving the sighting tasks and its sending to the sight, as well as to aim the guided missile with laser seeker;
- System of audio-visual registration SAVR-25 (instead of SSh-45).

### Flight and navigation equipment

The navigation system KN-23-1 is the key of flight and navigation equipment. It provides:

- Non-stop automatic aircraft coordinates reading by autonomous means data;
- Flight by route, entry the given target zone, return to landing airdrome, decrease by height of pre-landing maneuver, repeated approach;
- Determination and display of main navigation and flight parameters.

### Navigation system consists of:

- IKV-1 inertial attitude and heading reference system;
- DISS-7 Doppler ground velocity and drift angle meter;
- Automatic radio compass providing the aircraft piloting by compass locators and broadcasting radio stations, as well as the landing under conditions of on-board system failure;
- Air signals system displaying the real air velocity, absolute and relative barometrical height and number M of the flight to users and on indicators;
- Radio altimeter of low heights;
- Marker radio receiver determining the moment of aircraft flying over the marker beacon;
- Satellite navigation system (GPS) CH-330Z;
- Course-93M on-board integrated navigation and landing equipment (provides flights using the radio beacons VOR, allows to approach by signals of radio beacon system ILS);
- Small-size airborne range finder MSD-2000 (to measure and indicate the slant range to ground-based beacons DME).

### Radio technical equipment

Provides radio communication with ground objects and aircrafts in the whole altitude and range envelope.

Radio technical equipment consists of:

- R-862 communication radio station upgraded to use the comm. channels with step 8.33kHz is designed for telephone radio communication in meter and decimetre wave range between the aircrafts and ground objects;
- Radio station for communication with the army with frequency spectrum stipulated by the customer that provides radio telephone communication with control points and separate moving objects of the army;
- A-511 airborne transponder instead of SO-69 designed for operation with secondary radar systems ATS RBS in modes A and AC according to ICAO requirements.

Aircraft defence means warn the pilot about aircraft exposure to radiation from ground radars of AAMs and enemy's fighters, radar bearing under different modes of irradiation, active jamming of weapon control radars, infrared jamming of missiles with heat-emitting homing heads.

Also during the overhaul, the BUR-4-1-10 digital flight data registration system will be installed instead of Tester-UZ.