

# RADIOJAMMER WITH ARTILLERY SHELLS P-032ST



Creates active barrier jamming in tactical and operative control units of the enemy

## 1. ARTILLERY SHELLS

The P-032ST radiojammers can reach the target as a component part of the rounds, with the help of the following artillery systems:

- 1.1. 152 mm artillery system D-20, ML-20 and self-propelled howitzer 2C3;
- 1.2. 122 mm artillery system D-30, M-30 and self-propelled howitzer 2C1;
- 1.3. 122 mm BM-21 rocket system;
- 1.4. 155 mm artillery systems.

## 2. OPERATIONAL CHARACTERISTICS

2.1.	Weight of the transmitter (reference) .....	3,7 kg
2.2.	Dimensions:	
	- Length, mm .....	Not more than 505
	- Diameter, mm .....	Not more than 88
2.3.	Frequency range:	
2.3.1.	Frequency limits, MHz .....	from 1,5 till 120 (up to 530*)
2.3.2.	Sub-frequencies, pcs .....	8 (16*)

**REMARK** \*) These sub-frequencies are provided only upon special request by the client!

2.4.	Activation time after hitting the ground, sec.	120 ± 15
2.5.	Length of non-stop operation, min.	60 + 5
2.6.	Operating temperature range, °C	from 40 till + 50
2.7.	Operational range of the radiojammer, (reference) m	> 700
2.8.	Probability for failure free operation complete with the round in the manufacture's packing till the end of the specified non-stop operation time	Not less than 0.85
2.9.	Transportation complete with the round	By all kinds of transport
2.10.	Shell life complete with the round, years	≥10

## 3. PRINCIPLE OF ACTION

The shell (propellent) is shot. At a preliminary specified spot on the trajectory of the shell (propellent), over the target, the ejection system is activated and its is separated from the shell (propellent). Its stabilization system opens and ensures its proper landing.

When the radiojammer plunges into the ground, the automatic control system is turned on.

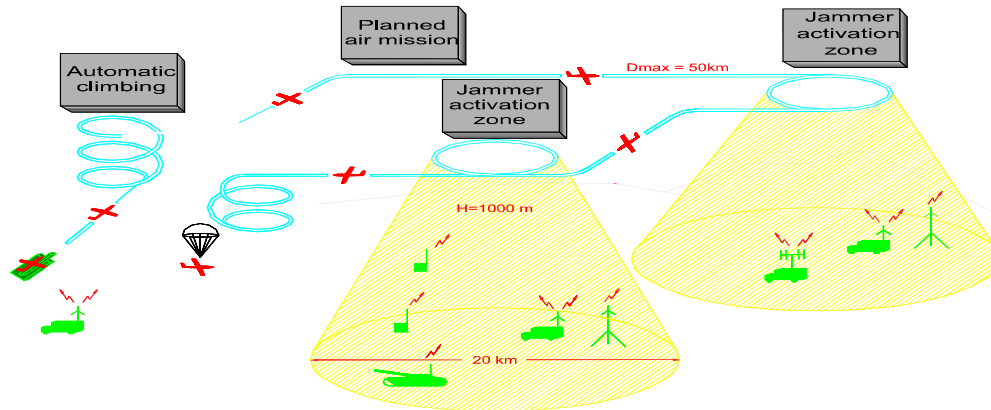
It activates a sequence of command signals the antenna to be drawn out, the radiojammer to be put in a broadcasting mode and afterwards its operation to be stopped in 60 minutes.

## RAVEN

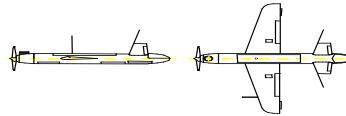
### ELECTRONIC WARFARE DRONE SYSTEM

The Electronic Warfare Drone System **RAVEN** comprises a small, hardly detectable aircraft that can carry means for electronic warfare at a distance of more than 50 km from the place of its launching. In flight above 1000 m it effectively suppresses radio links to a range of 10 km in a wide frequency range 20 – 530 MHz or (3000) MHz. When penetrating above the enemy and in the barraging zone it flies in a completely autonomous mode.

#### Tactical Use



**RAVEN** - unmanned air vehicle



Unmanned air vehicles (**UAV**) **RAVEN** is all-composites cantilever monoplane conventional configuration with piston engine (23 hp). The guidance and control systems comprise ground control station and the board control system (autopilot, GPS-receiver, transmitter for teleinformation, receiver for telecontrol, primary information unit, piloted sensors). Remotely piloting system provides direct remote piloting by an operator and programmed autonomous flight.

Wing span	3.52 m	Range of operation above	50 km
Length overall	2.85 m	Durance of flight	1h 30 min
Max. take-off weight	76 kg	Speed range	130-180km/h
Launching	with rocket accelerator	Cruising speed	160 km/h
Recovery	parachute	Operating heights	300 ... 2000 m
UAV resource	20 flights	Service temperature	-20°C ÷ +50°C

#### AJ airborne jammer

**AJ** jammer is a dedicated device for suppression of tactical and airborne radio communication links as well as communication links for aviation command and guidance in 20 – 3 000 MHz frequency range. It is used for locking of speech and digital radio communications in the range mentioned above. **AJ** creates intensive wideband noise jamming of dedicated spectrum which saturates practically the whole frequency range radius. The jamming transmitted suppresses the operation of hostile technical reconnaissance devices located in jammer's area of operation.

Subband number	≤ 6	Mode of jamming	wideband
Power of each subband	≥ 50 W	Type of jamming	Fast random scanning
Total Power	≥ 300 W	Jamming range	TETRA, GSM 1, GSM 2, 3G, satellite, GPS