SCIENTIFIC AND INDUSTRIAL CORPORATION “BPS UKRAINE” SPECIALIZING IN UNMANNED SYSTEMS PRODUCTION

SECURITY AND DEFENSE SOLUTIONS

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Our advantages

Experience and Awards

R&D for the Armed Forces of Ukraine since 2014. Awards from the Command

Own Technologies

Complex software and hardware solutions on a modern element base

Combat Use

Validation of technologies and products in significant strategic missions

Comprehensive Expertise

Uniting teams with deep a specialisation in areas

Modularity

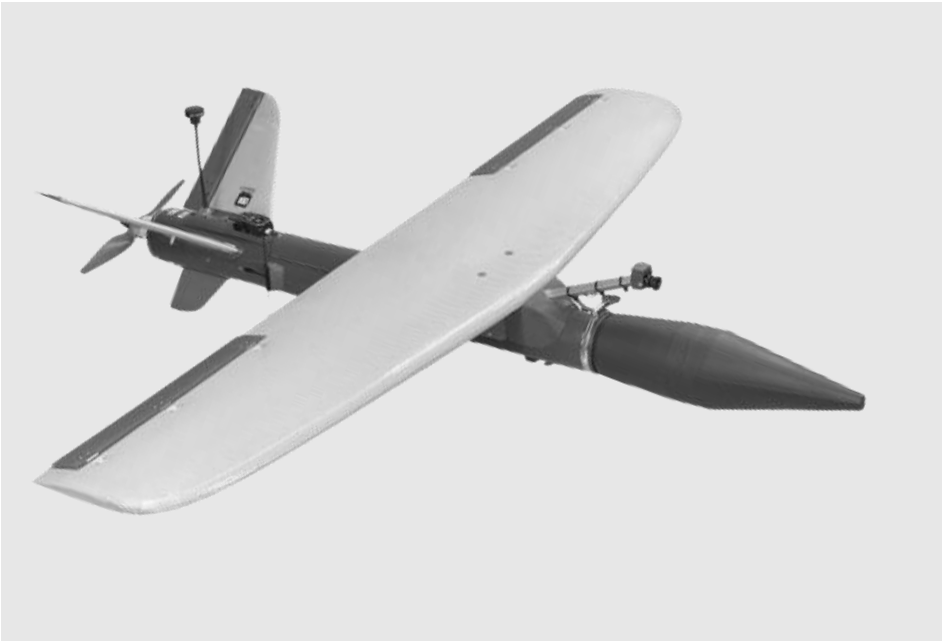
Easy and rational layout for various combat missions

Scalability

Independence from imported modules, control of technology development

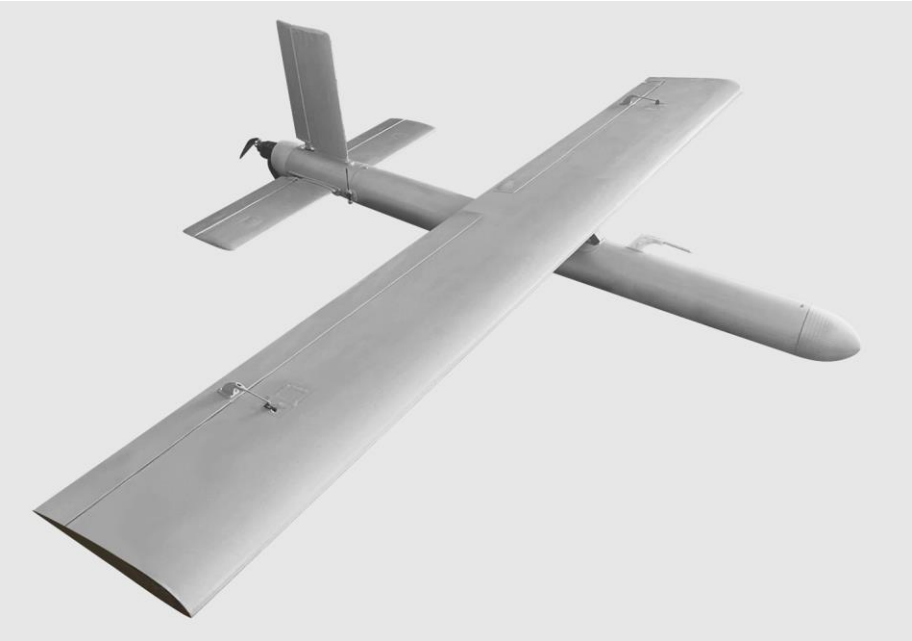
UAV

OSA-M (kamikaze)



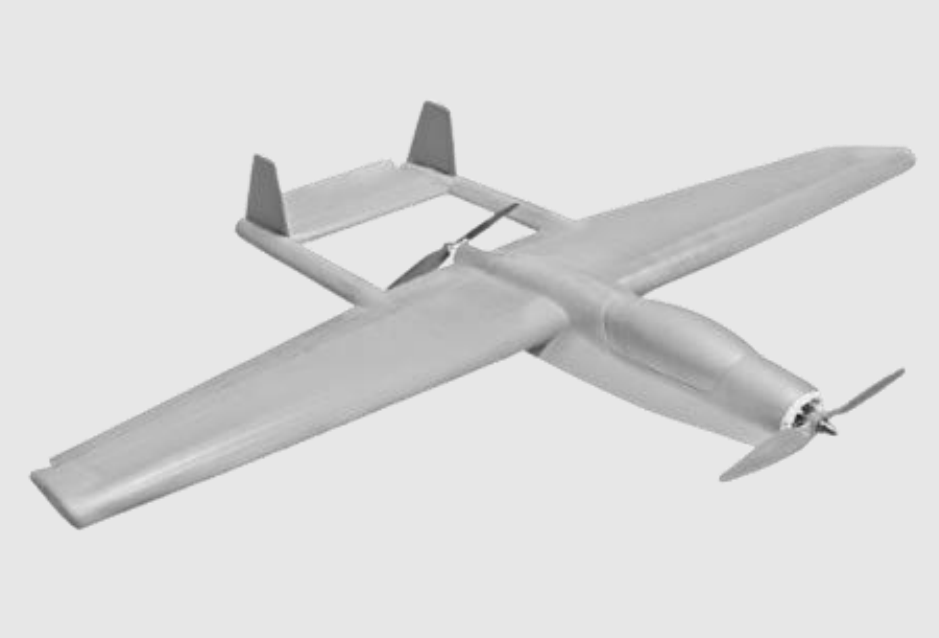
Class	**Tactical & operational**
Range, km	<60
Payload, kg	<2.5
Cruise speed km/h	~90
Max speed km/h	170
Wingspan, m	1.22
Max height, m	2500
Engine	Electrical

BPS DLK (B,R) - 150 (kamikaze, scout, repeater)



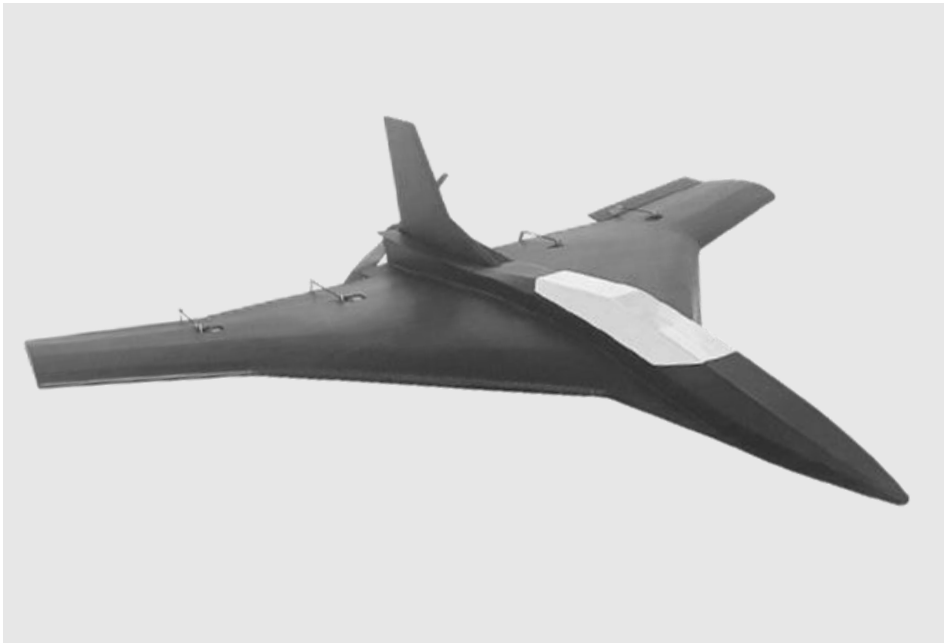
Class	**Tactic-operational**
Range, km	<150
Payload, kg	<5
Cruise speed, km/h	100-120
Max speed, km/h	160
Wingspan, m	1.8
Altitude, m	3000
Engine	Electric

BPS DLB (R) - 500 (bomber, scout)



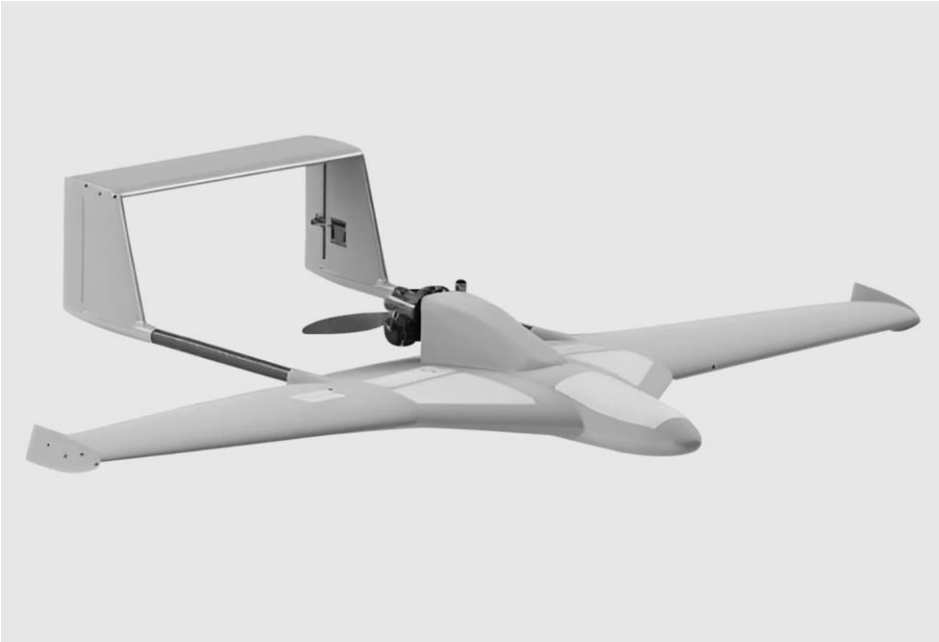
Class	**Operational-tactical**
Range, km	<500
Payload, kg	<20
Cruise speed, km/h	160
Max speed, km/h	200
Wingspan, m	3
Altitude, m	3000
Engine	Combustion

BPS DLK (P) - 500 (kamikaze, interceptor)



Class	**Operational-tactical**
Range, km	<500
Payload, kg	<15
Cruise speed, km/h	170
Max speed, km/h	200
Wingspan, m	3
Altitude, m	3000
Engine	Combustion

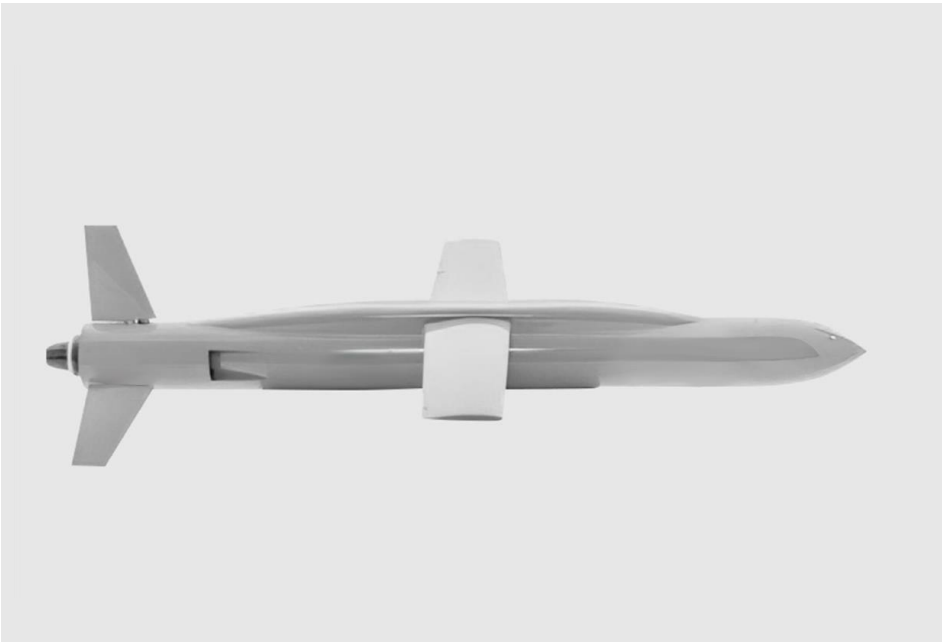
BPS DLB - 500



Class	**Operational-tactical**
Range, km	up to 500
Payload, kg	<15
Cruise speed, km/h	155
Max speed, km/h	200
Wingspan, m	3
Altitude, m	3000
Engine	Combustion

Model Range of UAV

BPS DLK - 300



Class	**Operational-tactical**
Range, km	<300
Payload, kg	<22
Cruise speed, km/h	~450
Max speed, km/h	700
Wingspan, m	1.6
Altitude, m	3000
Engine	Jet

Model Range of UAV

BPS DLK- 2000

Class	**Strategic**
Range, km	<1500
Payload, kg	<40
Cruise speed, km/h	~130
Max speed, km/h	160
Wingspan, m	2.4
Altitude, m	3000
Engine	Combustion

Model Range of UAV

FPV (kamikaze)

Frame, inches	7	8	10	13	15
Payload	1.5 - 2 kg	2 .5 - 3 kg	3 - 4 kg	6 - 8 kg	7 - 10 kg
Flight time	12 - 20 min	12 - 30 min	8 - 30 min	7 - 18 min	7 - 18 min
Battery	5600 - 8000 mAh	8000 mAh	8000 - 10000 mAh	8000 - 12000 mAh	16000 mAh
Range	5 - 25 km	5 - 30 km	6 - 30 km	5 - 20 km	5 - 20 km
Max speed	120 km/h	120 km/h	120 km/h	120 km/h	120 km/h

UGV AND LOGISTICS SOLUTIONS

Multipurpose lightweight ground robotic systems

“HEDGEHOG”

“HEDGEHOG-M”

To perform combat, humanitarian and engineering tasks in off-road conditions and under the influence of electronic warfare.

ADDITIONAL FEATURES

- Installation of a day/night photo/video recording camera.
- Kamikaze, reconnaissance, search, mining, demining functions.
- Installation of a combat module, repeater.

Technical specifications

Size, mm/ weight, kg	967x784x962 / 54
Load capacity, kg	55
Power supply	Li-ion battery 36V 65Ah
Operating time, hours	< 5
Range, km	30
Total power, W	2000
Max. speed, km/h	210
Suspension travel/ground clearance,mm	105 / 210
Video	Analogue or digital. Optional 360° view
Connection	MIILELRS (SF10/SF9) or optic fibre
Range (with repeater), km	<20

CENTAUR - robotic logistics system with electric actuators

For transportation of cargo on any terrain while maintaining full combat capability and mobility on the battlefield.

ADDITIONAL FEATURES

- A set of mounts for transportation of mortars of various calibers and their ammunition.
- A set of mounts for transportation of machine guns and their ammunition.
- Additional equipment for transportation of wounded in the prone position.
- Additional equipment to increase the load capacity to 250 kg.

Technical specifications

Size, mm/ weight, kg	1005x688x1600/ 15
Load capacity, kg	150
Power supply	LiFePo4 battery 36V 20Ah
Charging time	2 hours 30 min.
Range, km	15
Total power, W	1000
Max. speed, km/h	10
Frame material	Steel
Wheels	13” Pneumatic with anti-puncture fluid (airless optional)

UAV ENGINES

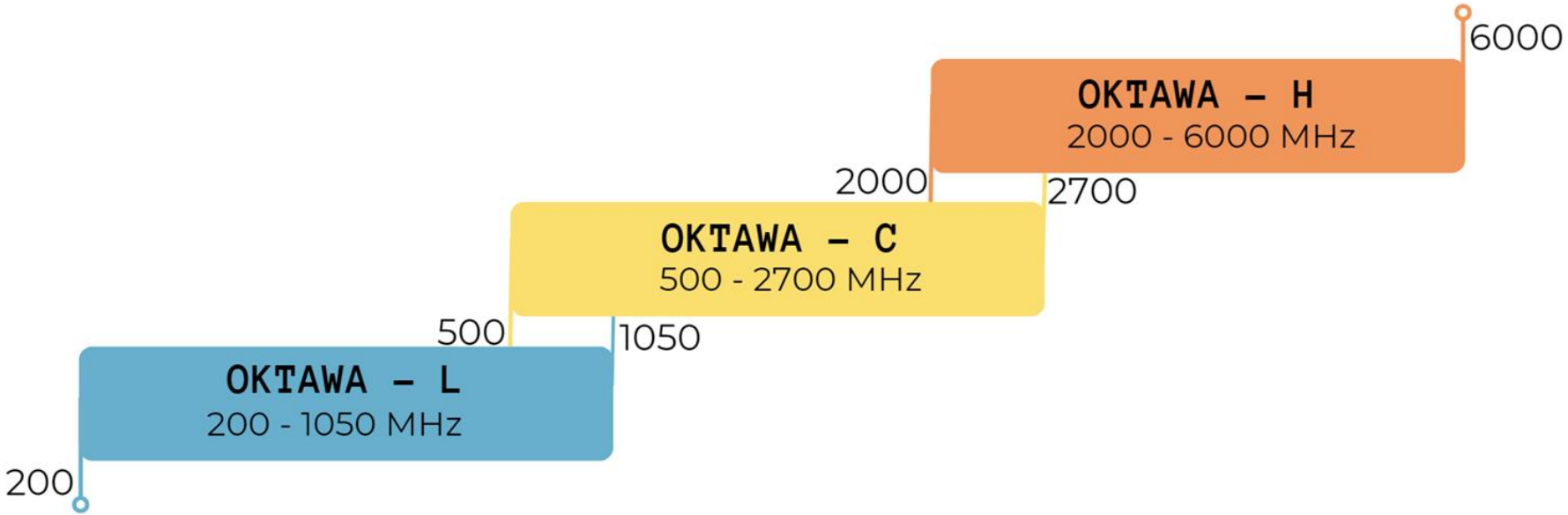
RS engines

Technical specifications

	RS26*	RS8815-40	RS8815L-40	RS8815-50	RS60
Strokes	2	2	2	2	2
Cylinder volume, cm3	26	40	40	50	60
Bench horsepower	2,5	4	4,5	5	6,5
Bench thrust, kg	5,8	8	9	11	15
Max. fuel consumption, kg/h	0,75	1,2	1,35	1,5	1,95
Max.operating speeds, rpm	10500	10500	10500	10500	10500
Recommended propeller	16x8 17x8 18x6	19x8 19x10 20x8 20x10	19x8 19x10 20x8 20x10	23x8, 23x10	22x8 22x10 23x8 23x10
Power system	carburetor	carburetor	carburetor	carburetor	carburetor
Fuse	CDI	CDI	CDI with automatic ignition advance	CDI	CDI
Weight, kg	1,3	1,6	1,5	1,85	2,45

EW (electronic warfare) and SIGINT (signals intelligence systems)

EW Complex “OKTAWA”



OKTAWA L

OKTAWA C

OKTAWA H

Technical specifications

- Software adjustment of the central frequency of the jamming signal
- Software setting of the bandwidth of the radio interference signal
- Software adjustment of the type of radio interference signal
- Remote or local software update
- Remote or local control of the complex

Working temperature	From -20 to +40 ℃
Dust and moisture protection class	IP55
Power supply	220W, 50Hz alternating current 28W direct current
Operating time from independent DC source	1h at -20℃ 3h at +40℃
Weight (without autonomous power supplies)	Up to 36 kg

“OKTAWA” COMPLEX CAPABILITIES

- Generation of radio interference signals adapted to the protocols used in the receiving paths of unmanned systems
- Generation of four independent software-controlled LFM radio jamming signals that can be simultaneously emitted within a frequency bandwidth of 490 MHz
- Generation of Gaussian noise
- Low-level mixing of signals from software-controlled radio interference signal generators
- Possibility to generate radio interference signals from the built-in carrier
- Ability to download additional (new) types of radio interference signals
- Create and save custom settings
- SDR performance monitoring

“RUPOR” STATION CAPABILITIES

- AUTOMATIC ANALYSIS, DIRECTION FINDING AND REGISTRATION OF RADAR SIGNALS
- AUTOMATIC IDENTIFICATION OF RADAR SIGNALS TYPE
- AUTOMATIC AZIMUTH DETECTION ON RADAR
- COMBINING STATIONS INTO A SINGLE INTELLIGENCE SYSTEM
- AUTOMATED DETERMINATION OF RADAR COORDINATES BY TRIANGULATION METHOD (WHILE WORKING IN A GROUP)
- LOCAL AND REMOTE CONTROL

“RUPOR” STATION CAPABILITIES

AUTOMATIC SEARCH AND RADAR DETECTION

- ARTILLERY RECONNAISSANCE AND COUNTER-BATTERY WARFARE
- ANTI-AIRCRAFT MISSILE COMPLEXES AND SYSTEMS
- UAV RECONNAISSANCE
- OBSERVATION AIRFIELDS
- AIRCRAFT