



BSAB

BRAHMASHIRA ASTRA BHARAT

DIVERSIFYING STRATEGIC TECHNOLOGIES

AUTONOMOUS DRONES ADVANCED SOLUTIONS

**Design
Develop
Manufacture**

UAVs for Special Missions

About BSA BHARAT

BSA Bharat is a cutting-edge Indian high-tech defence & aerospace company. The company also specializes in designing, developing and manufacturing autonomous cutting-edge BVLOS UAV applications and solutions.







BSA Bharat works closely with the world's leading integrators, HLS providers, military and aerospace industries, local and governmental authorities and strategic-infrastructure operators (electricity, oil and gas).

BSA Bharat is an authorized vendor to the Indian MOD and provides the Indian Defense Forces tactical, inspection and multi-rotor capabilities.








The unique combination of BSA Bharat's R&D ingenuity, technical skills and creative integration solutions allow us to offer our customers the perfect solution for their specific needs.

Our open framework (hardware and software) enables at least 30% longer flying time with more payload than any other commercial drone currently available.

Our Drones

Spec		ERE75 OZ	ERE95 Mini LR	ERE95 Mini Pro	ERE95 Pro Hybrid	ERE1000 HL Hybrid	ERE95 Pro	ERE1000 HL	ERE1000 Pro-Max	ERE1000 XL
										
MTOW		4 kg	10.5 kg	13.5 kg	21 kg	26.5 kg	21 kg	30 kg	30 kg	46 kg
Weight		2 kg	4.4 kg	4.4 kg	13.5 kg	16.2 kg	6.2 kg	8.8 kg	9.2 kg	14.2 kg
Prop		15"	30"	28"	28"	30"	28"	30"	30"	30"
Battery Li-Ion or Li-Po		3P6S (9 A) 2P6S (9.9A)	1P12S 22 A\30A	1P12S 22 A\30A	Generator 2.4 KW	Generator 3 KW	1P12S 22 A\30A	1P12S 22 A\30A	1P12S or 2P12S 22 A\30 A	2/3 P12S (22 A\30 A)
Dimensions	Ø Open	690 mm	125 mm	117 mm	1580 mm	1690 mm	1580 mm	1690 mm	1690 mm	1780 mm
	Ø Folded	190 mm	420 mm	420 mm	580 mm	855 mm	605 mm	855 mm	855 mm	570 mm
	Height	401 mm	550 mm	490 mm	740 mm	870 mm	606 mm	740 mm	740 mm	810 mm
Max Speed		20 m/s	25 m/s	25 m/s	15 m/s	15 m/s	20 m/s	20 m/s	15 m/s	15 m/s

Performance (flight minutes)

Model	Payload kg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	MTOW	Weight		
ERE75 OZ		40 min	36	25																			4 kg	2 kg		
ERE95 Mini LR		10 min	92	82																			10.5 kg	4.4 kg		
ERE95 Mini Pro		87 min	83	79	60	53	47																	13.5 kg	4.4 kg	
ERE95 Pro Hybrid		320 min	280	210	200	130	120	80	50	40														21 kg	13.5 kg	
ERE1000 HL Hybrid		325 min	285	235	197	159	126	75	84	65	35														26.5 kg	16.2 kg
ERE95 Pro		78 min	75	72	63	57	55	45	37	33	30	26												21 kg	6.2 kg	
ERE1000 HL		76 min	74	63	57	52	47	40	38	36	35	34	32	30	28										30 kg	8.8 kg
ERE1000 Pro-Max		86 min	78	72	68	65	64	62	56	54	52	51	32	30	28	25	22								30 kg	9.2 kg
ERE1000 XL						52	49	48	47	42	40	39	38	37	35	33	31	25	23	22	21	20			46 kg	14.2 kg

We don't just provide drones with the world's best performance. We provide the world's best solutions.

Our cutting-edge platforms leverage drone technology to solve the most daunting business challenges - from A to Z.

Through our advanced drone technology, BSA Bharat delivers comprehensive turnkey solutions for the most pressing challenges.

We design, manufacture, test and integrate cutting-edge technologies to provide our customers a complete answer to their most challenging demands- which is why we are world's leader in providing fully autonomous BVLOS UAV platforms and capabilities.

Camera



DRAGONEYE2	X80	NIGHTHAWK2	NIGHTHAWK2-V	NIGHTHAWK-2 UZ	RAPTOR
Weight: 115 g	Weight: 140 g	Weight: 250 g	Weight: 320 g	Weight: 350 g	Weight: 640 g
Zoom: X40	Zoom: X80	Zoom: X40	Zoom: X40	Zoom: X40	Zoom: X80
IR: 640 x 480	IR: Day Only	IR: 640 x 480	IR: 640 x 480	IR: 1280 x 720	IR: 1280 x 720

GCS

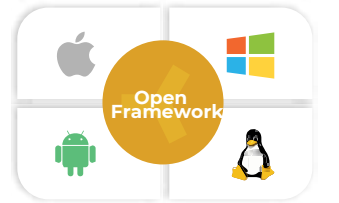


Communication



Custom Drones

- Able to integrate with any 3rd-party hardware or software based on our open framework
- Custom hardware and software development
- Custom development of mechanical devices



Accessories

- RTK - centimeter accuracy in GPS positioning accuracy
- 360-degree obstacle avoidance
- Lidar collision avoidance
- Remote ID and ADSB
- Companion air unit (Linux \ Windows OS)
- Parachute safety system
- Dead reckoning position calculation



NON-GPS Navigation

- BSAB offers unique solutions for GPS-denied environments, enabling operation in all conditions, day or night, indoors or outdoors, on the ground, or over bodies of water.
- DR (dead reckoning) for accurate positioning using the drone's internal IMU
- Relative position based on vision (SLAM and optical flow) or radar estimation
- Absolute position based on pre-loaded imagery



The BSA Bharat Edge

Team

- R&D
- Engineering
- Manufacturing
- Training

CPX

- Open Framework
(Hardware and software)



Manufacture & Aerial Services

- Licensed drone operator
- up to 2000 kg
- Licensed manufacturer
- Licensed pilots and UAV's
- Licensing services

WE MAKE THE IMPOSSIBLE POSSIBLE

The BSA BHARAT Mission-Critical Platform

Deep-Tech Capabilities Open-Platform Flexible Scalable Adaptable

Hardware and Software

- Ground station
- Docking station
- Drone

Ground Control Software

- Advanced mission-planner
deployment

Cloud Software

- Command center
- 3rd party
- Fleet management