



AERIAL



NAVAL



LAND

EMPOWERING DEFENDERS

GLOBAL INDUSTRIAL & DEFENCE SOLUTIONS



GIDS

EMPOWERING DEFENDERS

About Global Industrial & Defence Solutions

Global Industrial & Defence Solutions (GIDS) is Pakistan's premier state-owned Defence conglomerate, which represents Pakistan's largest Defence manufacturing units and hub of core R&D activities by offering products for multifaceted military applications. During the past **19 years**, GIDS has been recognized as a global brand of Pakistan-made defence products with a customer base of more than 18+ Armed Forces across the globe and active engagement in **24+ countries**.

By means of offering high-tech defence systems to the international clients, GIDS has emerged as a reliable defence supplier in an ever-changing competitive industry. We have a wide-ranging product portfolio for current & future defence requirements of our clients. Technology and innovation are the keystones of GIDS success and competitive edge. GIDS companies invest a huge amount in R&D activities, making us the leading Pakistani investor in hi-tech sectors. We lay great emphasis on training and development of our human resource. Our strength is our ability to offer quality with reliable and long-term relationship to our clients.



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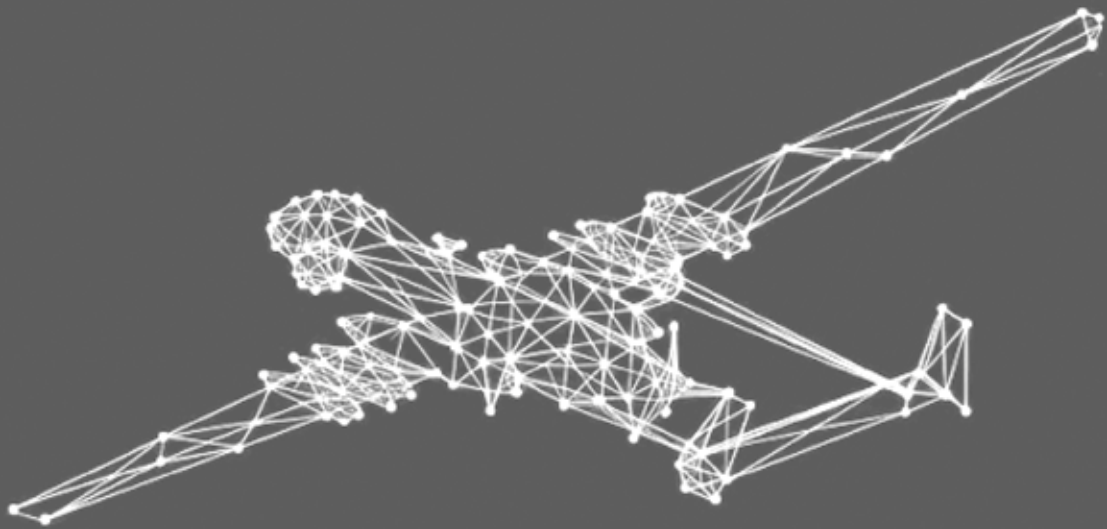
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UNMANNED

AERIAL SYSTEMS



SHAHPAR III – GROUP 4+ MALE

UCAV

The Shahpar-III is a Medium Altitude Long Endurance (MALE) Unmanned Combat Aerial Vehicle (UCAV) designed to deliver superior performance in surveillance, reconnaissance, and combat missions. Shahpar-III is a testament to GIDS' commitment to innovation and excellence in defence technology. Its combination of advanced features, robust design, and versatile capabilities makes it an indispensable tool for modern military operations.

Features

- Multi-role Intelligence, Surveillance, Reconnaissance (ISR), Target Acquisition and Target Engagement (Armed) capability
- Equipped with ISR Payloads: EO / IR, SAR & SIGINT (COMINT / ELINT)
- Multiple redundant Data - links with 02 x comm links in LOS while 01x comm links in BLOS
- Equipped with ATC Transponder, Identification Friend or Foe (IFF) & Automatic Identification System (AIS)
- Indigenous system software, autopilot, dual redundant Avionics system, flight sensor suite (Dual redundant flight control computer, power management system, engine control computer, payload management computer, data links, control servos).
- Image based GEO referencing
- Live and post flight video processing for AI-based target detection and identification
- Molded high strength Composite Airframe structure with all retractable landing gears
- Internal pilot option
- Ground Control System with consoles for Mission Commander, Pilot and EO/IR Payload Operator with capability of flying two UAVs simultaneously
- Ground Data Terminal with multiple communication / antenna equipment redundancy

Specifications

- | | |
|------------------------------|--|
| • Datalink Range | 250 km (LOS), 2500 km (BLOS) depends upon the availability of satellite footprints |
| • Endurance | 30+ Hrs (ISR), 16+ Hrs (Armed) |
| • Ceiling | 30,000 ft (ISR), 28,000 ft (Armed) |
| • Wingspan | 64 ft |
| • Internal Payloads Capacity | 165 Kgs (ISR), 75 Kgs (Armed) |
| • External Payloads Capacity | 400 Kgs (06 + 01x Hard points) |
| • Engine | 170 Hp (Heavy Fuel Engine) |



SHAHPAR-III ROLES

ELECTRONIC WARFARE (EW)

Elint POD

Range = 70 dB

Weight = < 50 kg

Comint POD

Range = Freq Range (Recon and DF) 20–8000 MHz (Recon) / 20–6000 MHz (DF)

Weight = < 70 Kg approx

MARITIME

Ultra Light weight Torpedo / Eghraaq

Range = >1000 m

Weight = 165 ± 10 kg (Combat Variant)
130 ± 10 kg (Exercise Variant)

Sonobuoy Dispensing Pod

Frequency Range = 5 Hz to 2400 Hz

Synthetic Aperture Radar (SAR)

Range = upto 60 km

Weight = < 35 kg

DEEP STRIKE

Yalghar 100 (Loitering Munition)

Range = 100 km

Weight = 55 ~ 60 kg

Yalghar 500 (Loitering Munition)

Range = 500 km

Weight = 82 kg

Rasoob (Cruise Missile)

Range = ~350 km

Weight = ~650 kg (with Booster)

FULL COMBAT

LASER GUIDED WEAPONS

Burq 25g

Range = 3 -12 km

Weight = ≤25 kg

Burq 50p

Range = 2.5 – 12 km

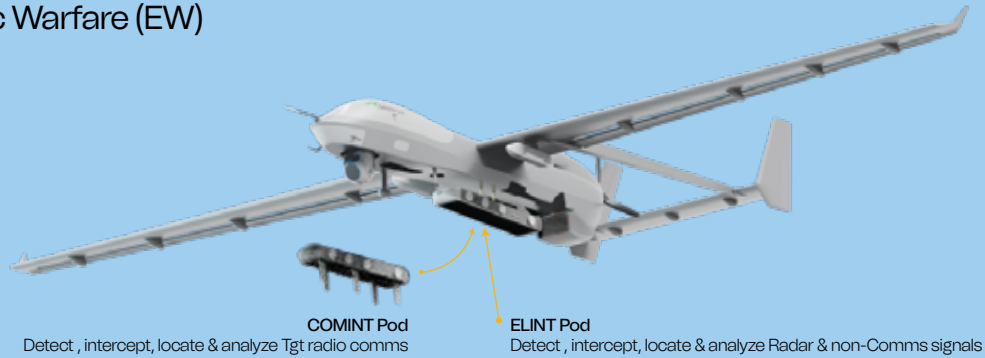
Weight = ≤50 kg

Albattar

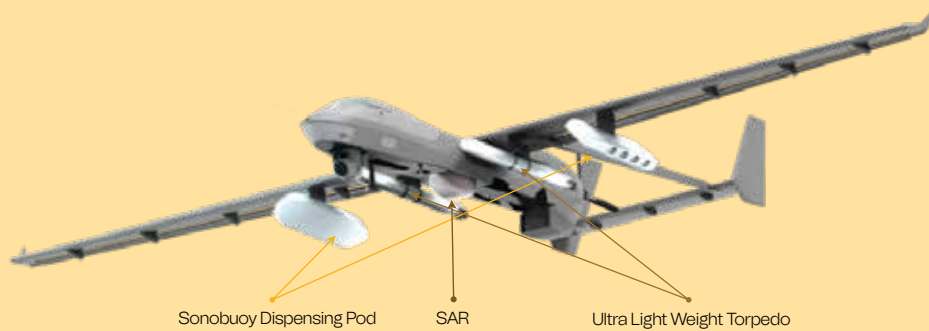
Range = 8 nm

SHAHPAR-III ROLES

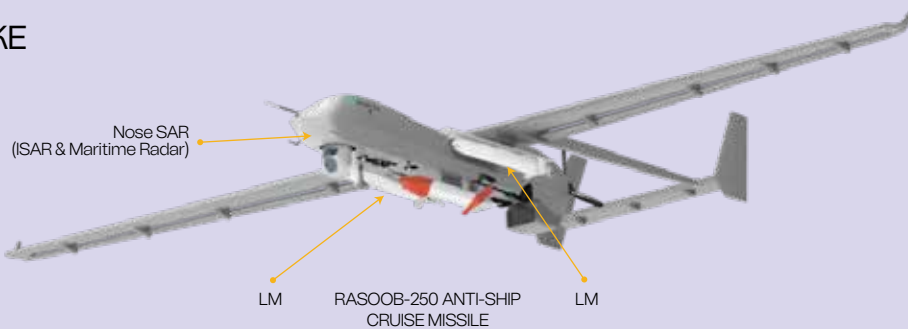
Electronic Warfare (EW)



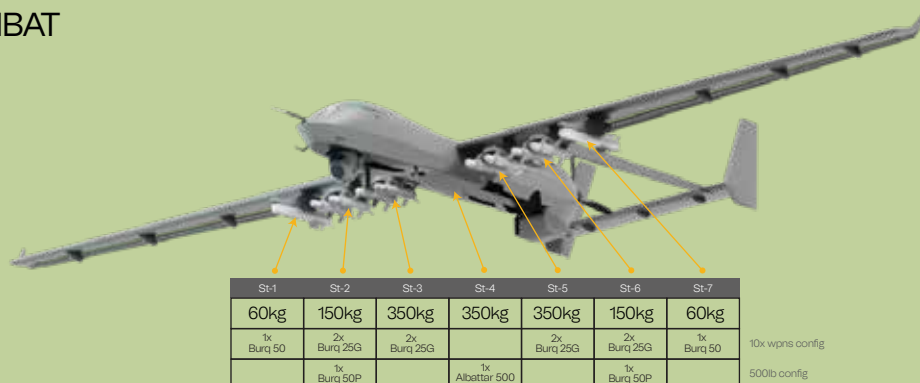
MARITIME



DEEP STRIKE



FULL COMBAT



SHAHPAR-II BLOCK II

BATTLE TESTED - UCAV

Shahpar-II Block-II is a Medium-Altitude, Long-Endurance unmanned aircraft with armed capability. It has a modular airframe structural design comprising of advanced composite and metallic hybrid structure. Salient features include autonomous take-off and landing, robust autopilot scheme, user-friendly and comprehensive mission planning and management software suite in Ground Control Station, multiple redundant data links, and capability of integrating various types of payloads and weapons.

Features

- Multi-role Intelligence, Surveillance, Reconnaissance (ISR), Target Acquisition and Target Engagement (Armed) capability
- Equipped with ISR payloads EO/IR
- Multiple redundant data links with 02 x comm links in LOS while 01 x comm link in BLOS
- Equipped with ATC transponder, Identification Friend or Foe (IFF)
- Indigenous system software, autopilot, dual redundant avionics system, flight sensor suite (Dual redundant flight control computer, power management system, engine control computer, payload management computer, data links, control servos)
- Image based Geo Referencing, Geo Pointing
- Live and post flight video processing
- Molded high strength Composite Airframe Structure with all retractable landing gears
- Internal pilot option
- Ground Control System with consoles for Mission Commander, Pilot and Payload operator with capability of flying two UAVs simultaneously
- Ground Data Terminal with multiple communication / antenna equipment redundancy

Specifications

- | | |
|-----------------------------|---|
| • Datalink Range | LoS-250 Kms & BLOS - 1500 Kms (Depends on the available satellite footprints) |
| • Endurance | 20+ Hrs (ISR), 12+ Hrs (Armed) |
| • Ceiling | 25,000+ Ft (ISR), 22,000+ Ft (Armed) |
| • Wingspan | 35 Ft |
| • Weapons | 120 Kg (04 x wing hard points) |
| • External Payload Capacity | 120 Kg (04 x Wing Hard points) |
| • Internal Payload Capacity | 50 Kg EO/IR ZUMR II HD payload
(SAR of 45 kgs in Lieu of EO/IR) |
| • Engine | 140 HP Turbo-Charged Engine |



SUPER RANGER

V150 HYBRID VTOL STRIKE UAV

Designed for flexibility and rapid deployment, the Super Ranger System features a modular and portable configuration with Vertical Take-off and Landing (VTOL) capability, enabling operations from confined spaces with a minimal ground footprint. Fully autonomous mission execution and an intuitive, user-friendly software interface allow operators to plan, launch, and manage missions with ease. With a deployment time of just 20 minutes using a crew of four personnel, the platform ensures swift operational readiness.

Its indigenously developed autopilot and ground controller software provide unmatched ease of optimization and customization, empowering users with a reliable, scalable, and mission-ready solution for modern operational environments.

Specifications

• Speed	80~130 km/h
• Range	200 km
• Endurance	10-12 hrs
• MTOW	< 160 kg
• Wind Resistance Fixed Wing	Level 7
• Wind Resistance VTOL	Level 6
• Service Ceiling	5000 AMSL
• Max Take-off / Landing Alt	3500 AMSL
• Navigation	Multi GNSS
• Engine	Gasoline
EO / IR Payload (Gyro Stabilized)	
• EO	30X Optical Zoom, 1080p FHD
• Cooled IR	20X Optical Zoom, 1280x720 HD
• Laser Designator	80 mJ
• Bombs / Mortars options	4 x 60 mm Mortar 2x 81 mm Mortar



RANGER

V50H HYBRID VTOL STRIKE UAV

Designed for expeditionary Land and Sea operations, the RANGER V50-H delivers runway independence, endurance, modularity, and flexible payload options. Ideal for ISTAR, AFC, and combat missions.

Features

- Vertical Take-off & Landing
- Reduced Operational Footprint and transportation loadout
- Covert Missions (low visual & acoustic signature)
- Autonomous Missions
- AI Cameras with detection & tracking
- Digital Datalink
- Fault-Tolerant Flight Control System with redundant IMUs
- Auto Return to Base / land in case of low battery or link failure
- Open System Architecture for customer defined payloads
- Rapid deployment with 4-men crew
- Small portable ground station

Specifications

- | | |
|--------------------|---------------------|
| • Speed | 80–130 km/hr |
| • Endurance | 6–7 hrs |
| • MTOW | 65~70 kg |
| • Wingspan | 4.8 m |
| • Length | 2.58 m |
| • Control Radius | 100–150 km |
| • Max Altitude | 4500 m AMSL |
| • Wind Resistance | Level 7 |
| • Operational Temp | -10° to +55 °C |
| • Powerplant | 2-Stroke EFI Engine |

EO/IR Payload

- | | |
|------------------|---------------------------------|
| • EO | 30X Optical Zoom, 1080p FHD |
| • Cooled IR | 5xOptical Zoom, 640×512 LRF:8km |
| • Strike Payload | 2x60mm / 1x81mm Mortar RF:8km |



SCOUT

V30-ELECTRIC VTOL

Compact electric VTOL drone for ISTAR & AFC roles. It offers exceptional flight time, AI-powered cameras, and stealthy operations.

Features

- Vertical Take-off & Landing
- 3.5 Hours Endurance
- Fully Autonomous Missions
- AI Cameras with Auto Detection & Tracking
- HD Digital Datalink
- Low Acoustic & Visual Signature
- Quick Deployment with 2–3 men crew

Specifications

- | | |
|-------------------|--------------------------|
| • Cruise Speed | 65–80 km/hr |
| • Endurance | Up to 3.5 hrs |
| • MTOW | 17 kg |
| • Wingspan | 3 m |
| • Length | 1.8 m |
| • Control Radius | 50 Km |
| • Cruise Altitude | 1000–1500 m AGL |
| • Wind Resistance | Level 6 (22 ~ 27 Knots) |

EO / IR Payload

- | | |
|-----------------------------|---|
| • EO | 30x Optical Zoom, 1080p FHD |
| • IR | 640x512, 50mm lens, 12µm pixel pitch |
| • LRF | Up to 2.5 km |
| • Artillery Fire Correction | 10-15m using AI based Geo Ref Algorithm |



SUPER BEETLE

MORTAR CARRIER HEXACOPTER

A robust hexacopter mortar carrier designed for ISR and tactical operations with enhanced payload capacity.

Features

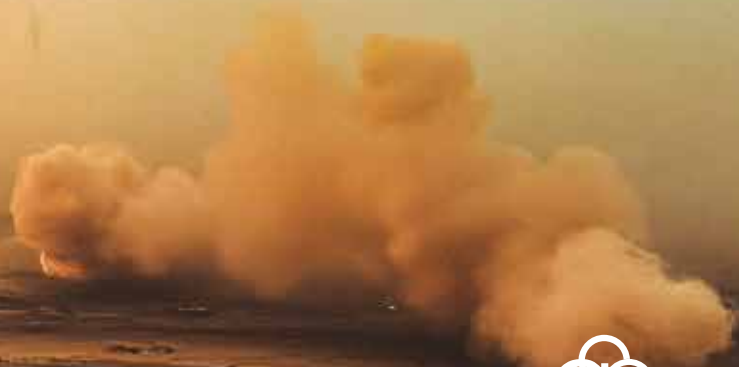
- Carries Multiple Mortars
- Day/Night ISR Missions
- Autonomous with Pilot Override Option
- Handheld GCS Consoles
- Modular, Man-portable
- Fast Turnover & Deployment

Specifications

- Range 5–8 km
- Endurance 60 mins ISR / 40 mins Payload
- MTOW 28 kg
- Payload 4 x 60 mm Mortar
- Dimensions 1650x1650x750 mm
- Wind Resistance 12 m/s
- Airframe Hexacopter Configuration,
Carbon Fiber Structure, Man Portable

Camera

- EO 30x zoom, 1080p, 30 FPS, FHD
- TI Dual lens (13+52), 640 x 512, 25 Hz
- LRF 1 km
- Hit Accuracy (Avg) 10 m
- Max Service Ceiling 3500 m AMSL
- Navigation Multi GNSS
(GPS + GLONASS + BeiDou + Galileo)
- Telemetry Flt Modes, Voltage indicator, Signal strength,
Flt Altitude / Attitude / Distance & Speed
- Failsafe Auto Return to Base / Land
(in case of low battery & link failure)



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BEETLE

MORTAR CARRIER QUADCOPTER

A versatile mortar carrier quadcopter engineered for ISR and precise engagement missions with modular payload capacity.

Features

- Multiple Mortar Payload Dropping Capability
- Complete Autonomous Operations with Pilot Override Option
- Day/Night ISR Missions
- Handheld GCS for AV and Payload operator
- Man-Portable Design
- Fast Redeployment

Specifications

- Range 5–8 km
- Endurance 60 mins ISR / 40 mins Payload
- MTOW 18 kg
- Payload Capability 2 x 60 mm Mortar
- Max Ceiling 3500 m amsl
- Wind Resistance 12 m/s
- Hit Accuracy (Avg) 10 m
- Dimensions 550x550x445 (without props)

Camera

- EO 10 x zoom, 1080p, 30 fps
- TI 19 mm, 640×512, 25 Hz
- LRF 1 km (optional)
- Navigation Multi GNSS
(GPS + GLONASS + BeiDou + Galileo)
- Telemetry Flt Modes, Voltage indicator, Signal strength,
Flt Altitude / Attitude / Distance & Speed
- Failsafe Auto Return to Base / Land
(in case of low battery & link failure)



SCOUT

MINI QUADCOPTER

Scout ISR-I is a Quadcopter UAV system for ISR Mission. The system can be effectively used for Surveillance, Search and Rescue and Battle Damage Assessment. Scout comes with following basic flight modes: Semi-Autonomous, Guided (Fly to Coordinates based on loaded Map) and Autonomous with way point navigation.

Specifications

• Airframe	Quad Rotor Configuration, Carbon Fiber Structure, Man Portable
• Range	5 - 8 km
• Endurance	55 mins
• Max Op Ceiling	500m AGL and above
Sensor	
• Day	10x Optical Zoom, FHD, 25 fps
• Night	IR, Thermal Imager (19mm), 640 x 512
• Max Take-off Weight	6 kg
• RTL	In case of Low Bty, Radio Fail-Safe
• Navigation	Multi GNSS (GPS+GLONASS+BeiDou+Galileo)
• Dimensions	600x600x400 mm
• Battery	Li-ion, 1 x 22 Ah
• Telemetry Data	Flight Modes, Voltage indicator, Signal strength, Flight Altitude/Attitude / Distance & Speed
• Wind Resistance	Up to 20 knots
• Ops Temperature	-10°C to +55°C
• Horizontal Speed	15 m/s (50 km/h)



ZAP

FPV AVIATOR

A high-speed FPV drone with surveillance and attack capabilities including bomb drops and self-hit modes.

Features

- Surveillance + Attack Modest
- Auto Lock & Track
- Supports Mortars & RPG Payloads
- Fiber Optic Spool for Jam-Proof Ops
- AI-Enhanced Target Tracking

Specifications

- | | |
|-----------------------------------|---|
| • Speed | 120–150 km/hr |
| • Range | 5–8 km |
| • Endurance | 15–30 mins depending on payload |
| • Payload | Up to 4 kg |
| • Surveillance | 35 min |
| • Payload (2 kg) | 25 min |
| • Payload (Max Payload) | 15 min |
| • Ceiling | 4000 ASML |
| • Propeller Size | 16 in |
| • Flt Modes | Surveillance + Attack (Payload Drop / Self-Hit) |
| • Auto Lock & Track (Attack Mode) | Yes (with Tgt Selection) |

Camera

- | | |
|-----------|--|
| • Analog | 1200 TVL, Optional IR |
| • Digital | 3-axis Gyro Stabilized, 5x EO, 19 mm TI, AI (Humans + Vehs) |
| • Payload | 60 mm Mor (1.3 kg), 81 mm Mor (3 kg),
RPG (2 kg) Blast Frag + Shape Charge (2 kg) |



YALGHAR SERIES

LOITERING MUNITIONS & KAMIKAZE DRONES

Yalghar Loitering Munitions (LMs) is redefining modern warfare by seamlessly integrating advanced drone technology with precision strike capabilities. Yalghar 100 introduces an electric powered cruciform wing and tail configuration, offering precise engagement. At the top of the range in its category, the Yalghar 500 delivers enhanced range and payload capabilities, enabling sustained performance across complex and demanding mission environments.

This versatility enables military forces to tailor their usage based on mission requirements. Additionally, these AI-enabled LMs offer a cost-effective alternative to traditional munitions, reducing collateral damage and enhancing operational efficiency.

Features

- Anti-jamming & anti-spoofing GNSS technology
- Visual base navigation in GNSS denial environment
- Support multiple types of warheads for different roles
- Precision targeting capabilities with AI
- Advanced sensor for real-time surveillance, identification, and targeting
- Extended flight endurance and range
- Secure communication links for data transmission and control
- Compact design for ease of transport and deployment

Loitering Munition

YALGHAR 100

Parameter	Specification / Value
Max Range	100 km
Endurance	90 min
Launch	Canister
Weight	55~60 kg
Warhead	10/20 kg
Warhead Type / Targets	Pre Fragmentation Lethality: 30 m
Propulsion	Electric

YALGHAR 500

Parameter	Specification / Value
Max Range	500 km
Endurance	>150 mins
Launch	Canister
Weight	82 kg
Warhead	30 kg
Warhead Type / Targets	PF/Static Targets (Bases, Radar, Storage Sites, Depots etc.)
Propulsion	Gasoline



SARFAROSH

HIGH SPEED LOITERING MUNITION (TURBO JET)

SARFAROSH is an advanced Kamikaze Drone, equipped with canister launch technology, offering exceptional performance and versatility. Its 700 Km range enables long-distance strikes against high-value targets, while its significant speed ensures rapid deployment and engagement.

The drone's payload capacity enables it to carry a variety of warheads, from conventional explosives to specialized munitions tailored for specific targets. The canister launch system provides a compact and efficient means of deployment, making it suitable for various platforms, including ground vehicles and ships. With its combination of range, speed, payload capacity, and canister launch capability, this kamikaze drone is a formidable weapon system for modern warfare.

Features

- User-friendly operation
- Very long-range enabling launch from a safe region
- Support multiple types of warheads for different roles
- Precision targeting capabilities
- Compact design for ease of transport
- Quick canister launch and ready for operation

Specifications

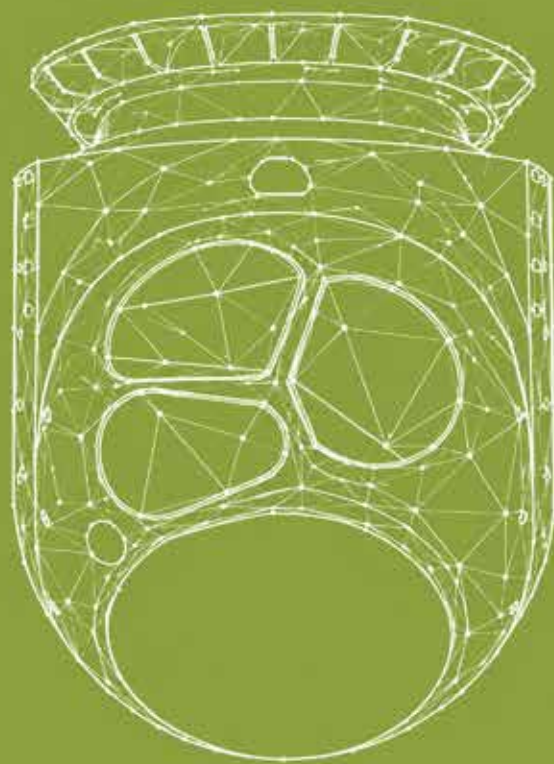
- | | |
|--------------------------|---|
| • Cruise Speed | < 5000 m |
| • Max Range | 700 km |
| • Endurance | Up-to 110 mins |
| • Launch | Ground Launched Pad with Rocket Booster |
| • Weight | 160 kg |
| • Warhead | 30 kg |
| • Warhead Type / Targets | Blast-Frag ~ Special Effects (Anti Personnel, Anti, Radars, Buildings etc.) |
| • Propulsion | Turbojet |



SARFAROSH

UNMANNED SYSTEMS

WEAPONS & PAYLOADS



ZUMR – III LONG RANGE HD

ELECTRO OPTICAL PAYLOAD

ZUMR – III is a high-performance, high-definition Multispectral Imaging (Vis/NIR, SWIR, MWIR) payload with 24/7 Mission Capability with Enhanced Image stabilization. It supports INS, GMTI, and geo- referencing, ensuring 24/7 mission capability for Shahpar III and other platforms, enabling precise munitions delivery, battlefield damage assessment, and search/rescue operations.

Features

- High Definition Long Range Surveillance and Targeting
- HD Thermal Imager, HD Day Imager, HD SWIR, Eye-safe LRF
- 4-axes Gyro Stabilized
- 24/7 Mission Capability
- Active Target Designation
- Advanced Target Tracking
- Highly Stabilized Imagery
- Single LRU

Specifications

HD Day Imager

- Resolution 1920 x 1080
- Field of View 33.0° to 0.7°

HD Thermal Imager

- Resolution 1280 x 1024
- Field of View 30.0° to 0.72°

HD SWIR Imager

- Resolution 1280 x 1024
- Field of View 0.5°

Laser Target/Designator & Rangefinder

- Range 30 km
- Energy 160/80 mj
- Code NATO, Custom
- Laser Pointer 700 mW
- Illuminator NVG Compatible
- Coverage Az: 360°; El:140°
- Dia 19.5 in
- Weight 70 kg
- Power Requirement 300 W (400W max)



ZUMR – II (HD)

ELECTRO OPTICAL PAYLOAD

ZUMR - II (HD) is a high definition, high-performance Multispectral Imaging payload with 24/7 Mission Capability with Enhanced Imagers. It is highly stabilized system with 2 LRUs (Line Replaceable Units). The multi-sensor Optronical Payloads can provide geo-referenced Day, Near Infrared and Infra-red imagery to battlefield commanders for reconnaissance and designation purposes. The Electro-Optical Payloads can be integrated on Fixed-Wing manned and unmanned aerial platforms as well as on helicopters.

Features

- High Definition Surveillance and Targeting System
- HD Thermal Imager, HD Day Imager, HD Low Light
- 4-axes Gyro Stabilized
- 24/7 Mission Capability
- Active Target Designation
- Advance Target Tracker
- Highly Stabilized Imagery

Specifications

HD Day Imager

- Resolution 1920 x 1080
- Field of View 36.0° to 0.7°

HD Thermal Imager

- Resolution 1280 x 720
- Field of View 30.25° to 0.76°

Laser Target/Designator & Rangefinder

- Range 20 km
- Energy 100 mj
- Code NATO, Custom
- Laser Pointer 700 mW / 200 mW
- Illuminator NVG Compatible
- Coverage Az: 360°; El:120°
- Dia 17.7 in
- Weight 48kg
- Power Requirement 200W (300W max)



BURQ-25 AGM

AIR TO GROUND MISSILE

BURQ-25 is a state-of-the-art laser guided glide weapon with high precision and hit accuracy. It can be launched from smaller UAVs with lower payload capacity. It has the capability to hit static and moving targets. Laser designation can be done from onboard EO payload or ground designator. It supports both lock-on before launch (LOBL) and lock-on after launch (LOAL) modes of operation.

BURQ-50 AGM

AIR TO GROUND MISSILE

BURQ-50 is an enhanced lethality state-of-the-art laser guided propelled weapon with high precision and hit accuracy. It has the capability to hit static and moving targets. Different types of warheads can be integrated with this weapon as per target type and operational requirements. It can be fired from combat helicopters and UAVs. Laser designation can be done from onboard EO payload or ground designator. It supports both lock-on before launch (LOBL) and lock-on after launch (LOAL) modes of operation.

BURQ-25

Parameter	Specification / Value
Range	3 – 12.0 km
Diameter	160 mm
Wing Span	480 mm
Length	1000 mm
Weight	≤ 25 kg
Warhead Mass	~ 10 kg
Warhead Type	Blast Fragmentation
Warhead Fuse	Electro-mechanical
Guidance System	Semi-active Laser homing guidance + GNSS (Optional)

BURQ-50

Parameter	Specification / Value
Range	2.5 – 12.0 km
Diameter	180 mm
Wing Span	380 mm
Length	1450 mm
Weight	≤ 50 kg
Warhead Mass	~ 20 kg
Warhead Type	a. Blast Fragmentation b. Blast Penetration
Warhead Fuse	Electro-mechanical
Guidance System	Semi-active Laser homing guidance + GNSS (Optional)



LOW SWAP COMINT PAYLOAD for S-II

Low SWAP COMINT Payload is a modular solution for UAV-borne spectrum scanning, analysis, direction finding, and localization of stationary ground targets. It uses a calibrated, distributed blade antenna array for direction finding with the CIDF method.

Specifications

• Frequency Range	20 mhz – 3 ghz (Extended to 6 ghz)
• Inst. Bandwidth	40 MHz
• DF Accuracy	5° rms
• DF Technique	CIDF
• FH Detection	500 Hops / sec
• Analysis	FF and FH Analysis
• Modulation Schemes	All Analog & Digital
• Mission Recording Capability	0.5 tb
• Weight	<22 kg (with antennas)
• Power Requirement	300 w



COMINT POD for S-III

COMINT POD is a complete COMINT solution in an encapsulated form factor, enabling UAVs to fly in a multi-role configuration. COMINT POD performs UAV-borne spectrum scanning, analysis, direction finding and localization of stationary ground targets.

Specifications

• Freq Range (Recon and DF)	20–8000 MHz (Recon) / 20–6000 MHz (DF)
• Recon Range	Upto 100 Km (LOS, Tx Power >10W @ 15dB SNR)
• DF Range	Upto 45 Km (LOS, Tx Power >10W @ 15dB SNR)
• Location Accuracy	≤ 8% R (20–500 MHz) approx ≤ 6% R (500–6000 MHz) approx
• Inst. Processing Bandwidth	Upto 400 MHz approx
• Signal Analysis	FF & FH signals (SNR ≥ 15 dB)
• Signal Param Extraction FF	Frequency, Power and Modulation
• Signal Param Extraction FH	Hop rate (Upto 2000 Hops / sec), Dwell time and Hop list
• Signal Param Extraction FF	Frequency, Power and Modulation
• Modulation classification	FM, AM, BPSK, QPSK, FSK-2 and QAM (SNR ≥ 15 dB)
• Voice Extraction of single FF target	Available (Non encrypted FM)
• Comm Protocols b/w POD GCS	RS 232 / RS 422 / UDP
• Weight	< 70 Kg approx
• Power Consumption	< 500 Watt at 28 V DC



POD BASED ELINT SYSTEM FOR UAV's

ELINT system housed in a pod detects and identifies multiple Radars simultaneously with a High Probability of Intercept. With the Capability to process Radar signals at a very high level of accuracy, it extracts target geo-location and graphically displays the Electronic Order of Battle in real time.

Parameters

Values

• Frequency Coverage	2 – 18 GHz (0.5 - 2 Ghz Optional)
• Receiver type	Narrow-band Super-het and Wide Band IFM Receiver
• Dynamic Range	70 dB
• Modulations	Inter and Intra-Pulse Modulations
• Weight	≤50 kg
• Power Requirements	≤ 380 w

Features

Following are the main features of the LRU-based ELINT System for Air platforms:

- Interception of known/unknown radar emitters
- High probability of Intercept
- Wide Frequency and DF coverage
- High DF and Frequency accuracies
- High system Sensitivity and Dynamic Range
- Multiple Instantaneous Bandwidth (Both Wide and Narrow bands)
- Capable to handle complex and dense EM environments with high parameter extraction accuracies
- Geo-Location and Data Recording Capability
- Mission Specific Threat Library
- Low SWaP Modular Architecture

Additional Deliverables

- Operator Training
- Maintenance Training
- Operator Documentation
- Maintenance Documentation
- Spares Support
- Integrated Logistic Support (ILS)
- Facilitate onboard installation/interfacing



LRU BASED ELINT SYSTEM

FOR AIR PLATFORM

ELINT system is based on low SWaP hybrid architecture. It detects and identifies multiple Radars simultaneously with High Probability of Intercept. With the capability to process Radar signals at a very high level of accuracy, it extracts target geo-location and graphically displays the Electronic Order of battle in real time.

Parameters

Values

• Frequency Coverage	2 – 18 GHz (0.5 - 2 GHz Optional)
• Receiver type	Narrow-band Super-het and Wide Band IFM Receiver
• Dynamic Range	70 dB
• Modulations	Inter and Intra-Pulse Modulations
• Weight	Approx. 30kg
• Power Requirements	≤ 380 w

Features

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- High probability of Intercept
- Wide Frequency and DF coverage
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- Facilitate onboard installation/interfaces



SAR PAYLOAD (KPM-6030)

A Synthetic Aperture Radar (SAR) payload on a UAV is a compact radar imaging system integrated into an unmanned aerial vehicle to capture high-resolution images of the ground using microwave signals. The payload typically includes a radar transmitter, receiver, antenna, and onboard processing electronics. During flight, the system emits microwave pulses toward the surface and records the reflected echoes. As the UAV moves along its path, signals collected from multiple positions are combined through signal processing to create a synthetic aperture, allowing the system to generate detailed radar images. Because SAR uses microwave radiation, it can operate in day or night and in various weather conditions such as clouds, fog, or rain, making it useful for tasks like terrain mapping, environmental monitoring, and surface observation.

Parameters

- Resolution
- Image Swath
- Processing
- Slant Range
- Imaging Modes
- Total Weight

Specifications

0.3 m ~ 5 m Controllable
1~20 km
On-board / Real-Time
Up to 60 km
Strip-map, Spotlight, GMTI, MMI, ACD, CD, ISAR, AMMOD
≤ 35 kg



EGHRAAQ

UAV BORNE ULTRA LIGHT WEIGHT TORPEDO

In the evolving landscape of naval warfare, our cutting-edge Ultra- edge ULWT represents a paradigm shift in ASW capabilities. Designed for seamless integration with vehicles (UAVs) while reconfigurable to launch from other aerial and surface platforms, this state of art system combines optimum form factor, intelligent processing and lethal efficiency to dominate the underwater battlespace.

Parameters

- Length
- Diameter
- Weight
- Maximum run speed
- Detection Range
- Operating depth (approx.)
- Target Acquisition

Specifications

2.90 m (approx.)
 254 mm
 165 ± 10 kg (Combat Variant)
 130 ± 10 kg (Exercise Variant)
 40 knots
 >1000 m
 Upto 400 m
 >90%

Features

Redefine ASW doctrine

- Persistent wide area surveillance with on demand engagements
- Rapid response to time critical underwater threats.
- Reduce risk to manned platform in high threat environment
- Comprehensive mission planning and analysis software suite

Unparalleled Operational Flexibility

- UAV centric design: Optimized for deployment from a wide range of UAV platform, enhancing reach and surprise factor in ASW operations
- Extended Operational Range: Leveraging UAV range to strike far beyond conventional ASW perimeters

Next Gen Sonar Array Processor

- Digital beamforming for pin point accuracy
- Advanced target recognition & classifications
- Real time environmental adaption for optimal performance
- Autonomous decision-making capabilities
- Offer a mission with smart planning across all phases from search to acquisition
- Stealth Electric Propulsion
- Ultra quiet operation for undetectable approach
- Multi-speed capability (45 ~ 40 Knots) for tactical flexibility
- Advanced Power Management System



PASSIVE DIFAR SONOBUOY (G-SIZE)

Modern submarines are getting quieter and more efficient, requiring an agile response from maritime forces in terms of Anti-Submarine Warfare (ASW) operations. Sonobuoy is used for underwater target detection & classification. Sonobuoys can be deployed quickly and over a wide area while providing varied data that can be used to develop an accurate picture of the undersea acoustic environment.

Parameter

Mechanical Characteristics

- A size Length
- Diameter
- Mass
- Power Source

Deployment

- Max platform speed
- Max Platform Altitude
- Operating Depth

- Operating Life

- Operating Life

- RF Channel

- VHF Radiated RF Power
- Acoustic Frequency Range

Additional Deliverables

- Operator Training
- Maintenance Training
- Operator Documentation
- Maintenance Documentation
- Spares Support
- Integrated Logistic Support (ILS)
- Facilitate onboard installation/interfacing

Missions

- 20 inches
- 4.875 inches
- 6 kg
- Sea-Water activated battery
- 370 kts
- 30,000 ft
- EFS Programmable Depth Settings: 30m, 150m
- EFS programmable 0.5, 1, 2, 4, 6 hours Scuttle at selected life setting
- EFS programmable 0.5, 1, 2, 4, 8 hours Scuttle at selected life setting
- EFS Programmable 40 Channels selectable in VHF Band 158 MHz to 173. 125 MHz, 375 KHz spacing
- Up to 1 Watt
- 5 Hz to 2400 Hz

Features

- Passive detection
- Frequency analysis
- Direction of target



PASSIVE DIFAR SONOBUOY

Modern submarines are getting quieter and more efficient, requiring an agile response from maritime forces in terms of Anti-Submarine Warfare (ASW) operations. Sonobuoy is used for underwater target detection & classification. Sonobuoys can be deployed quickly and over a wide area while providing varied data that can be used to develop an accurate picture of the undersea acoustic environment

Parameter

Mechanical Characteristics

- A size Length
- Diameter
- Mass
- Power Source

Deployment

- Max platform speed
- Max Platform Altitude
- Operating Depth

- Operating Life
- Operating Life

- RF Channel

- VHF Radiated RF Power
- Acoustic Frequency Range

Additional Deliverables

- Operator Training
- Maintenance Training
- Operator Documentation
- Maintenance Documentation
- Spares Support
- Integrated Logistic Support (ILS)
- Facilitate onboard installation/interfaces

Missions

- 36 inches
- 4.875 inches
- 9.4 kg
- Sea-Water activated battery

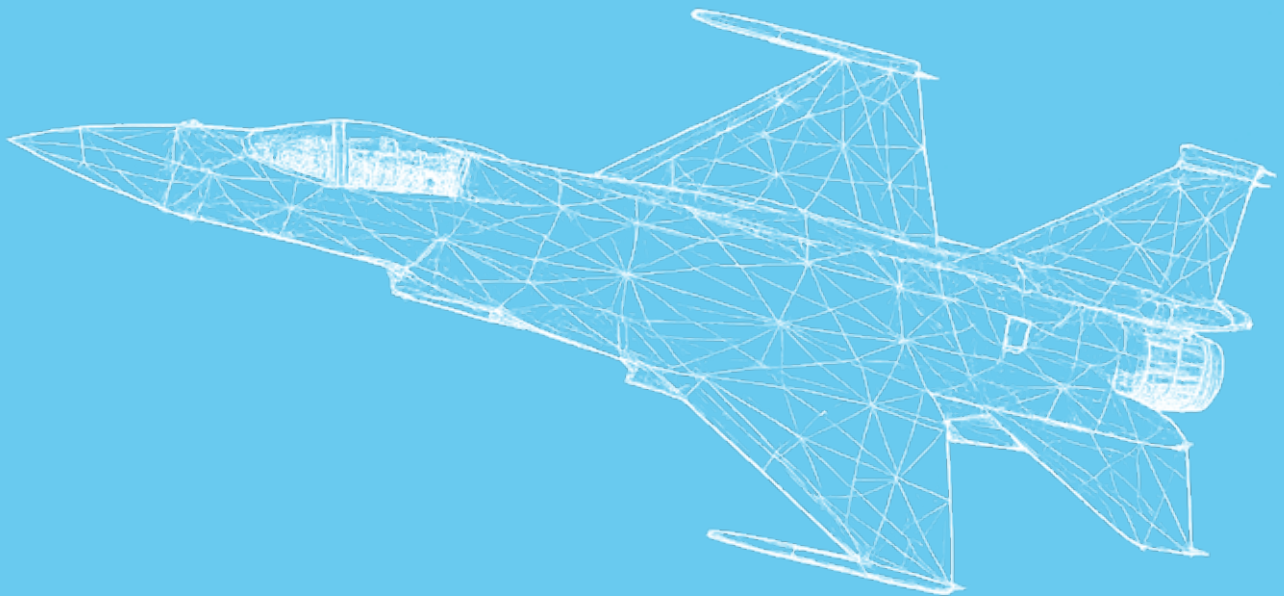
- 370 kts
- 30,000 ft
- EFS Programmable Depth Settings: 30m, 120m, 300m
- EFS programmable 0.5, 1, 2, 4, 8 hours Scuttle at selected life setting
- EFS programmable 0.5, 1, 2, 4, 8 hours Scuttle at selected life setting
- EFS Programmable 40 Channels selectable in VHF Band 158 MHz to 173. 125 MHz, 375 KHz spacing
- Up to 1 Watt
- 5 Hz to 2400 Hz

Features

- Passive detection
- Frequency analysis
- Direction of target



AIR SYSTEMS



GP SERIES BOMBS

GP Series Bombs are the standard air-delivered ordnance, deployable on NATO and Warsaw standard aircraft. These bombs (PK-81, PK- 82, PK-83, PK-84) are available in Steel, Pre-fragmented versions with standard explosive, plastic bounded explosive and thermobaric explosive. The bombs produce blast, fragmentation, and crater effects. Main function depends on the fuze used.

General Purpose Steel Bombs

- NATO/Warsaw Standards
- High & Low Drag Configurations
- Qualified on NATO standard's aircraft
- Supplied to PAF as well as many other countries

Pre-Fragmented Bombs

- External profile like GP Steel Bombs
- 6 times more lethal
- Thousands of uniformly shaped steel balls eject in all directions
- Anti-personnel and anti-armor role
- Burst at 2–12 m from ground, giving optimal lethality

Thermobaric Bombs

- Characterized by large blast and high thermal energy
- More lethal for confined places





BUNKER BUSTER BOMBS

Bunker Buster Bombs are hard-nosed penetrators housed within the MK-82 & MK 83 Form Factor. The Bombs are highly effective against hardened bunkers, bridges and Aircraft pens. Penetration is maximized through kinetic energy gained by the bomb as it follows its ballistics. These bombs have a dramatically stable explosive specifically required for penetrators.

Features

- Penetrates four double-reinforced concrete walls / floors 200mm thick each
- Penetrates 1.5m in 35 MPa Reinforced Concrete Target
- Can be used as effective stand-off weapon with Range Extension Kit
- Compatible with All Guidance Systems
- Qualified to MIL-STD 810

Specifications

- | | |
|------------------------------------|--|
| • Penetration in 5000 psi | 1-1.5 m Endurance reinforced concrete target |
| • Max Fragment Lethal Range | > 250 m |
| • Explosive Dynamic Shock Capacity | Mach 3 impact |
| • Average Fragments Density | 3.1 Fragments /m ² |



AB SERIES FUZES

Electronic Impact & Proximity Fuzes

Fuzes play a key role in optimizing the performance of air and ground burst bombs. GIDS is one of the few companies in the world that has complete command over technology for electronic fuzes. GIDS has successfully developed the following fuzes:

Fuzes:

1. Impact Fuzes

AB-100 – for Low Drag Bombs

AB-105 – for High Drag Bombs

- Provide instantaneous firing pulse on impact, thus ensuring true surface detonation
- High performance electronic Fuze replacement for M-904 fuze

2. Proximity Fuzes

AB-103 – For Low Drag Bombs

AB-104 – For Low/High Drag Bombs

- Optimize performance of air-burst bombs
- Allow 2-12 meters above the surface level burst of all the bomb for all types of targets, approach angles and closing velocities
- Have an Impact Detonation Backup System
- Smoke or dust on the terrain does not interfere with proximity function



AZB-83

Precision Guided Munition

REK converts the General Purpose Steel Bombs to guided weapons by simply integrating the Range Extension Kit. The kit includes a Tail Unit integrated with the bomb body that provides both guidance and navigation to the target, and an additional Wing Unit (with deployable wings) for extending the range.

Features

- Autonomous guidance by onboard AHRS aided by GPS processor
- All weather weapon
- Capable to accept precise targeting information in WGS-84 coordinates (mission planning or in-flight)
- Environmental standards: MIL STD 810F
- Specification practices: MIL STD 490A
- EMI control: MIL STD 461D

Specifications

- | | |
|---------------------------|-----------------------|
| • Range | 100 km |
| • Launch Speed (Mach) | < 0.85 Mach |
| • Launch Altitude (m) | ≤ 38000 ft |
| • Weight Class | 600 ± 25 Kg |
| • Interface (with GPS) | RS 422 / Mil-Std-1760 |
| • Accuracy (with GPS+INS) | ≤ 10 m CEP |
| • Flight Time | ≤ 10 min |



TAIMOOR

CRUISE MISSILE WEAPON SYSTEM

Taimoor is a long range Air Launched Cruise Missile (ALCM) that can be deployed in Air-to-Ground and Anti-Ship roles. It is able to carry conventional warheads for land and marine attack. Taimoor is equipped with IIR seeker head for precise land and marine attack missions. The weapon can fly very low over ground or sea at a programmable height thus reducing the detection probability. It is equipped with warheads designed for lethality against specific targets.

Features

- Long Range
- Highly Precise
- All weather Operation
- High Hit Probability
- Smart Size and Weight
- Fire & Forget
- High Survivability
- Lethal Destructive Power of Warhead

Specifications

- | | |
|---------------------|--------------------------------------|
| • Range | 290 km |
| • CEP | < 5m with seeker
< 15m w/o seeker |
| • Warhead Type | Blast Fragmentation |
| • Navigation System | INS / GNSS |
| • Prolusion System | Turbojet |
| • Length | 4.38 m |
| • Weight | 1100 kg |
| • Wing Span | 3.20 m |



AL BATTAAAR

LASER GUIDED BOMB KIT

Al Battaar is a laser guidance bomb kit attached to the nose and tail of the GP (General Purpose) Bombs. It can be carried and launched from all NATO aircraft and is designed for use when attacking soft, hard, slow moving, and stationary targets. The weapon will deploy from a variety of different launch scenarios (high/low level, dive/loft deliveries). Al Battaar is capable of a single or multiple carriage on host aircraft. Guidance is provided by laser energy reflected from the illuminated target, illuminated by the delivery aircraft, another aircraft, or a ground designator. Flight can be divided into three phases: Ballistic, Acquisition, and Terminal Guidance.

Performance Characteristics

- Impact Accuracy / CEP
- Max Release Altitude
- Range
- Guidance
- Employment Mode
- Laser Designated Compatibility
- LSHA FOV
- Field of Regard
- Laser Code
- Missing Pulse Logic
- Field Replaceable Electronic Tray
- Carriage Vibration
- Carriage speed limit
- Release speed limit
- Acquisition Range (Nominal)
- Canard Travel
- Laser Coding
- Maneuverability (500 KTAS, SL)

Specifications

< 10 meter
25,000 ft
8 nm
Laser
Single
Yes
±12°
±18°
Yes
Yes
Yes
6.3 g
1.4 M
1.2 M
12,000 ft
±10.5°
PRF Selection Enabled
2.8 g



GIDS
EMPOWERING DEFENDERS

DETONICS / CARTRIDGES

GIDS has comprehensive and established facilities for the designing, development, and production of different detonics, boosters, impulse cartridges, delay cartridges, and munitions for different types of fuzes and conventional weapons.

- **Impulse Cartridge I-28**

It is used to Fire EOD Kits like D-armer, recoilless water disruptor and rocket wrench Sensor

- **Electric Detonator TO-10M**

It is an electrically initiated explosive device which produces required shock waves to initiate secondary detonator

- **Explosive Bolt Assembly**

It is a force generating explosive device used to shear the metallic pin to unlock wings / different mechanisms.

- **Pyro Cartridges**

These cartridges are well suited for jettisoning and release of stores from the ejector release units of Mirage and F-7 aircraft. Cartridges are qualified as per international Standards.

- **PPLT Cartridge**

PPLT Cartridge is used to release the external stores from different release units and pylons of MiG –series aircraft.

- **PR-19PK Cartridge**

PR-19PK Cartridge is used for jettisoning and release of stores from F-7 and JF-17 Series Aircraft.

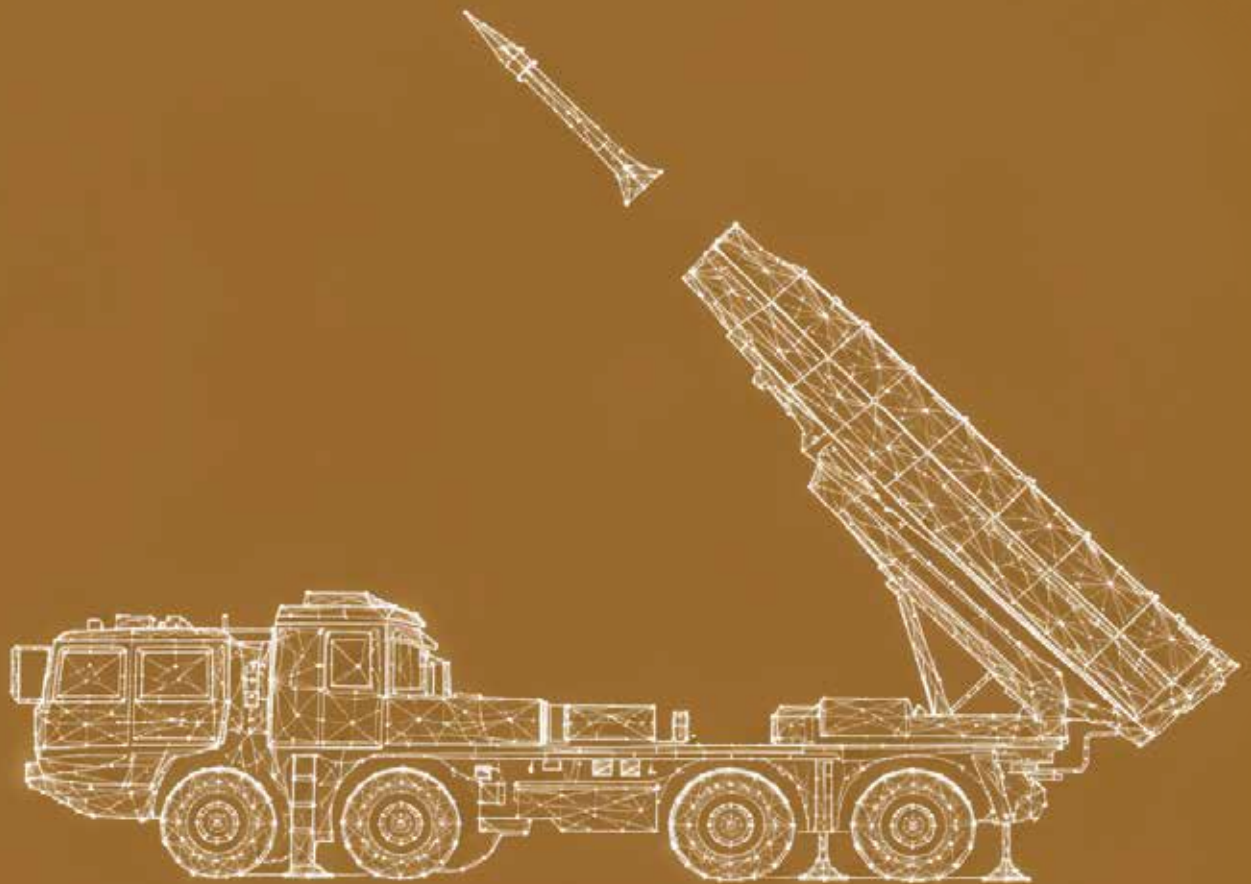
- **PF-20 PK Cartridge**

PF-20 PK Cartridge is used for jettisoning and release of stores from JF-17



LAND

SYSTEMS



FATAH – II

SURFACE-TO-SURFACE MISSILE

FATAH II is an advance surface-to-surface missile. It is state of the art, twin canister (oblique launched), quasi-ballistic, manoeuvrable, weapon system.

Features

- Single-stage Dual Thrust Solid Rocket Motor
- Unique Programmable Trajectory
- In-flight Manoeuvrability, Guidance till Impact
- Specially Designed Indigenous Thermal Protection System
- Integrated Navigation (HDGNSS assisted INS with AJAS)
- Auto Launch Servo System & Integrated Positioning & Orientation System
- Mode: Salvo / Non-Salvo

Specifications

- | | |
|-------------------------|--|
| • Range | 100 to 290 km |
| • Warhead Type / Weight | Unitary Blast & Blast Fragmentation (404 kg) |
| • Guidance | HDGNSS assisted INS |
| • Propulsion | Single Stage dual thrust SRM |
| • CEP | ≤ 20 m |
| • Terminal Mach | ≥ 2.0 |



GIDS
EMPOWERING DEFENDERS

FATAH – I

BATTLE PROVEN GUIDED MULTI LAUNCH ROCKET SYSTEM

FATAH-I is an advance Guided Multi Launch Rocket System (GMLRS) characterized by fast reaction, high accuracy and high firepower density. It can precisely engage and destroy targets in enemy areas.

Features

- Fast reaction
- Long range
- High accuracy
- Concentrated firepower
- Various munitions
- Self positioning and orienting
- High mobility
- Integrated fire control system

Specifications

- | | |
|-------------------------|--|
| • Range | 60 to 140 km |
| • Warhead Type / Weight | Unitary Blast & Blast Fragmentation (150 kg) |
| • Guidance | HDGNSS assisted INS |
| • Propulsion | Single Stage SRM |
| • CEP | ≤ 15 m |
| • Terminal Mach | >2.0 |



BAKTAR SHIKAN

ANTI TANK GUIDED MISSILE WEAPON SYSTEM

Baktar Shikan is an anti-tank missile weapon system which pursues the principle of optical aiming, IR tracking and automatically generated, remotely controlled and wire transmitted guidance signals.

The system can quickly be dis-assembled into four sub-units, each weighing not more than 25kgs, thus making the system man-portable. It can also be mounted on Cobra attack helicopters and Armored Personnel Carriers (APCs).

Its long range, penetration power and a powerful anti-jamming capability, the system forms a potent defence against armoured targets. Baktar Shikan family of missiles is in service for more than two decades and a battle tested weapon held with different armies worldwide.

Performance Characteristics

- Propulsion Solid
- Effective Range 3000m
- Operating Temp -40 °C to + 50 °C

High Anti jamming capability

- Firing Capability Day & Night
- Hit Probability 90%
- Rate of fire 2-3 rounds/min

Telescope

- Magnification 12x
- Field of View 6°
- Wide IR Field of View ±49 mrad
- Narrow IR Field of View ±7 mrad

Range of fire

- Elevation -7° to +130
- Azimuth 0° to 3600



TIPU WEAPON SYSTEM

TIPU is a fin stabilized rocket assisted 155mm Cannon Launched Guided Projectile, designed to destroy ground targets such as civil structures (Bunkers, Bridges, C4I centers, Field Depots, etc.), armored vehicles, rocket launchers and incapacitation of tanks.

System Composition

1. SAL Guided Projectile with HE Frag. Warhead
2. Fire Synchro Unit
3. Smart Ballistic Computer

Features

- Semi Active Laser Guidance
- Compatible with 155mm Howitzers
- 39 Cal. / 45 Cal. / 52 Cal
- Compatible with NATO / WARSAW compliant Laser Designators

Specifications

- | | |
|-------------------|-------------------------------------|
| • Weight / Length | 52 Kg / 1300mm |
| • Hit Probability | > 80% |
| • CEP | ≤ 2m SAL Guided |
| • Guidance | Semi Active Laser |
| • Range | 5 ~ 20 km (Hwtz caliber dependent) |
| • Gun Shock (G's) | < 10000 g's |
| • Wing Span | 3.20 m |
| • Warhead | HE Frag. |
| • Lethality | Not less than 155mm HE |
| • Detonation | Impact or Delayed Impact Detonation |
| • Targets | Stationary & Moving |
| • Shelf Life | 10 years |

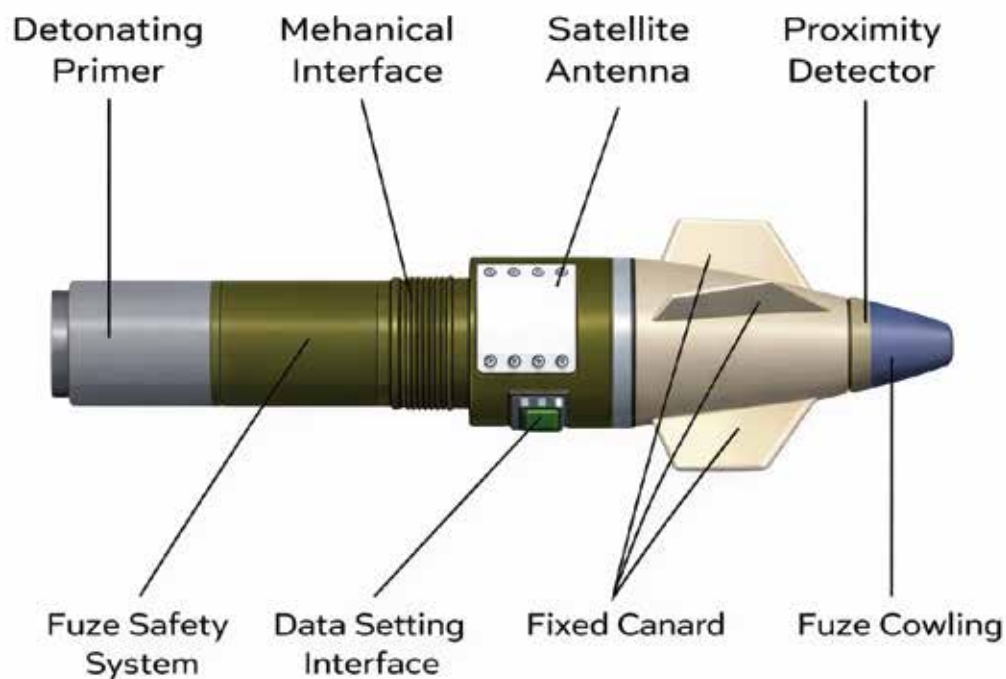


NISHANA

PRECISION GUIDANCE KIT

A device, consisting of a GPS guidance system that attaches to standard artillery rounds, designed to:

- Range upto ≥ 40 Km
- The safe and arming assembly
- Improve Accuracy
- Reduce the quantity of shells to be fired
- Minimizing collateral damage





RPG ROCKET LAUNCHER & MORTARS

The RPG-7 is a portable, reusable, unguided, shoulder-launched, anti-tank, rocket-propelled grenade launcher. The RPG-7 and its predecessor, the RPG-2, were designed by the Soviet Union, and are now manufactured by the Russian company Bazalt.

Features

- A Portable, Re-usable shoulder launched anti-tank Rocket-Propelled Grenade Launcher
- Effective and low-cost weapon widely used for anti-armor and in irregular operations

Light Mortar M-60mm

- Effective Support weapon for short & medium range targets
- User friendly, reliable in all weather operations
- Close-in-support for ground troops



Mortar M-81mm

- Effective Support weapon for short, medium and extended range targets
- User friendly, smooth bore, muzzle loading, reliable in all weather operations
- Dismantled in 3 loads (barrel, base plate, and bipod) for quick transport



Heavy Mortar M-120mm

- Highly Effective Support weapon for medium and extended range targets
- All type of 120mm ammunitions are useable for operations
- Quick transportation with towable wheeled carriage for assemble Mortar





RIOT CONTROL EQUIPMENT

Stun Grenade

It produces a loud sound and high intensity illumination which causes temporary blindness and is disorientating/distracting to the enemy. Device is used by tactical and non-tactical forces while in riot control situations or performing missions of hostage rescue.

- Non-lethal without any explosive material
- No fragments are produced after initiation

Smoke Grenade

It contains pyrotechnic composition and when ignited, produces dense cloud of smoke, designed to fill the surrounding area to mask the movement or location of troops. Device is non-lethal and ideal for use in minor or anti-terrorist operations.

- Non-lethal and no fragments are produced
- Available in Yellow, Orange, Blue & Green Colors

CS Hand Grenade

A non-lethal hand thrown grenade used for riot control, which produces white fumes/smoke of CS (Ortho Chlorobenzylidene Malono Nitrite). Device is exclusively used by the Law Enforcement agencies for outdoors.

- Causes severe irritation of respiratory tract, burning, swelling & conjunctive of eyes
- Also causes irritation and burning in nose and mouth with excessive nasal discharges

Tear Gas Shell

Used for Riot control, contains CS composition

- Non-lethal and no fragments are produced
- Available in Yellow, Orange, Blue & Green Colors



THERMAL IMAGERS

At GIDS, we have a series of Thermal Imagers ranging from hand held imagers to helmet / gun mounted & Tank / APC mounted imagers for long range night vision thus enabling 24 / 7 mission capability. These Imagers provide night vision capability for general area surveillance, perimeter security, border patrol, etc., in all weather conditions, both day and night, in the presence of fog, smoke and dust.

The series of imagers in GIDS portfolio with Human DRI's is as follows:

TISA - 756M  D= 1.8 km R= 1.0 km I= 0.5 km	TISA - 506M  D= 1.2 km R= 0.6 km I= 0.3 km	TISA-356M  D= 700 m R= 200 m I= 350 m	TIB - 356M  D= 700 m R= 350 m I= 200 m
TIB - 756ML  D= 2.0 km R= 1.0 km I= 0.8 km	QANIS - 356MR  D= 700 m R= 350 m I= 200 m	QANIS - 756M  D= 1.2 Km R= 0.8 Km I= 0.5 Km	ABSAR - C  D= 2.5 km R= 1.2 km I= 0.8 km
ABSAR - D  D= 300 m R= 200 m I= 100 m	ABTIQ - M  D= 400 m R= 150 m I= 80 m	FAOD  D= 2.0 km R= 1.0 km I= 0.7 km	



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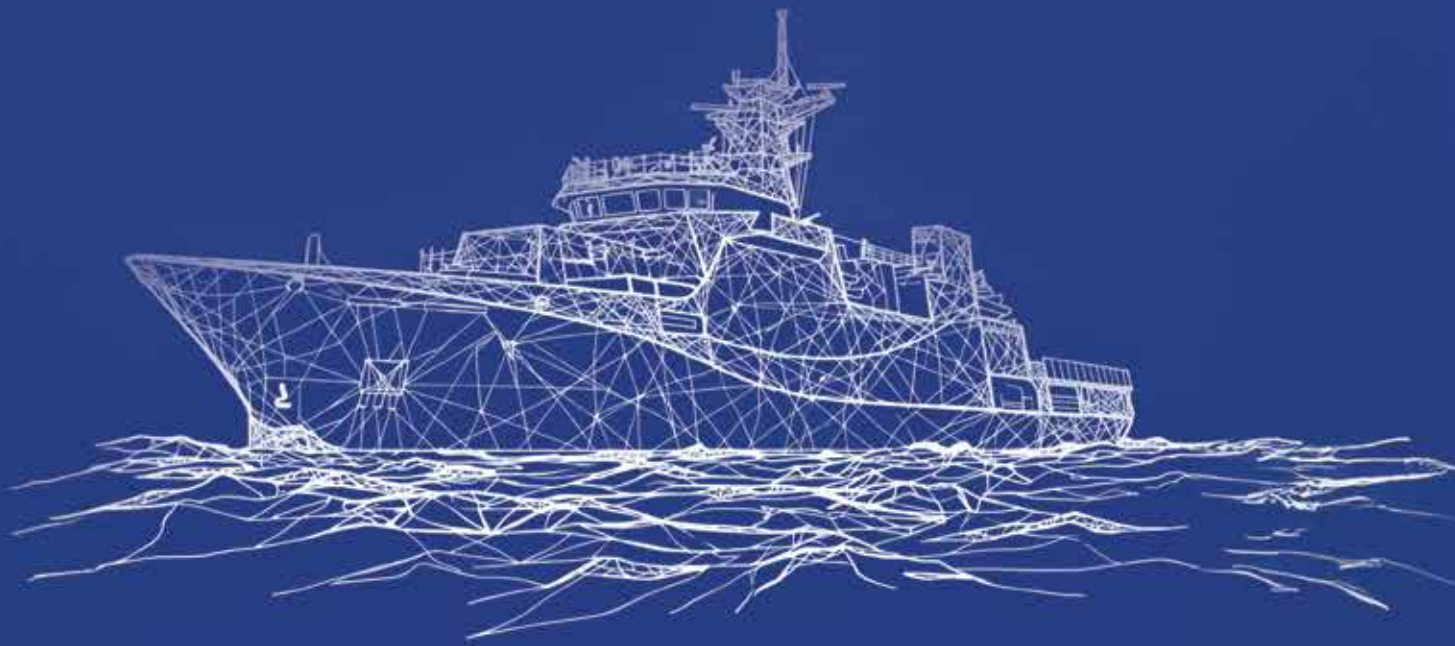
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GIDS
EMPOWERING DEFENDERS

NAVAL SYSTEMS



HARBAH-NG

MULTI PLATFORM LAUNCHED CRUISE MISSILE

Harbah is a Multi Platform Launched Cruise Missile system able to target Enemy Ships and Land based targets within an accuracy of $\leq 5\text{m}$. It employs cutting edge navigation technologies such as Inertial Navigation System (INS) with multi constellation GNSS making it exceptionally accurate weapon system to precisely engage the desired targets.

It is capable of engaging land based installations as well as both small and large ships. Harbah has a modular design, allowing a wide variety of warheads guidance and range capabilities. Harbah is all weather capable and flies at low altitude which makes it highly survivable against countermeasures, making it one of the deadliest systems.

Features

- Medium Range
- Highly Precise Navigation
- All weather Operation
- High Hit Probability
- Smart Size and Weight
- High Survivability
- Easier Ground Handling
- Sea Skimming & Terrain hugging

Specifications

- | | |
|-------------------------------|--|
| • Range | $\leq 280\text{ Km}$ |
| • CEP | $\leq 5\text{m}$ with seeker
$\leq 15\text{m}$ w/o seeker |
| • Speed | 0.6-0.8 (Mach) Gross |
| • Weight | 1350 Kg |
| • Diameter | 0.5 m |
| • Length | 6.8 m |
| • Fuel | Liquid Aviation Fuel JP-8 |
| • Seekers | Radar & IIR |
| • Single shot hit Probability | $> 90\%$ |
| • After Sales Service | Yes (Life Support Program) |
| • Survivability Features | Multiple way points, Maneuverability,
Speed Low altitude flying |



SMASH

ANTI-SHIP BALLISTIC MISSILE

SMASH is a Land Attack and Anti-Ship Missile with Super Sonic flight, guidance till impact and near vertical attack capability ensures its survivability and makes it effective against both land and sea targets. Installed on Pakistan's Navy Ships.

Features

- Single-stage Dual Thrust Solid Rocket Motor
- Unique Programmable Trajectory
- In-flight Maneuverability, Guidance till Impact
- Specially Designed Indigenous Thermal Protection System
- Integrated Navigation (HDGNSS assisted INS with AJAS)
- Auto Launch Servo System & Integrated Positioning & Orientation System
- Mode: Salvo / Non-Salvo

Anti Ship (Sea to Sea)

Specifications

- | | |
|-------------------------|---|
| • Range | 290 km |
| • Warhead Type / Weight | Semi-armour piercing (315 kg) |
| • Guidance | HDGNSS assisted INS + Active Radar Seeker |
| • Propulsion | Single Stage dual thrust SRM |
| • Terminal Mach | ≥ 2.0 |

Land Attack Missile (Sea to Land)

Specifications

- | | |
|-------------------------|--|
| • Range | 290 km |
| • Warhead Type / Weight | Blast Fragmentation for shore targets (444 kg) |
| • Guidance | HDGNSS assisted INS |
| • Propulsion | Single Stage dual thrust SRM |
| • CEP | ≤ 20 m |
| • Terminal Mach | ≥ 2.0 |



RIBAT-2S (ESM)

ELECTRONIC SUPPORT MEASURES SYSTEM

Electronic Warfare (EW) is of prime significance in modern warfare, both for short-term reconnaissance and long-term strategic purposes. Electronic Support Measures (ESM) system is the most important EW component required for ground (shore-based), surface and airborne applications, especially in maritime scenario.

RIBAT-2S cover all the essential features available in ESM systems being used by modern navies worldwide. The system can detect, classify and track both CW and pulsed radar emitters operating in 0.5 - 18 GHz frequency band.

RIBAT-2S has 100% POI, high sensitivity, and instantaneous frequency measurement with high accuracy, fast reaction time and threat identification. The system is compact, lightweight, and can easily be interfaced with other onboard sensors and systems.

The system consists of four main units comprising of Antenna Unit (AU) outdoor unit, Receiver Unit (RU) - indoor unit, Processing and Display Unit (PDU) - indoor unit & Radar Blanking Unit (RBU) - indoor unit.

Features

- High Probability of intercept
- Wide Frequency and DF coverages
- High Frequency and DF accuracies
- High system sensitivity & dynamic range
- Capable to handle complex & dense EM environment with high parameter extraction accuracies
- Data Recording Capability
- Mission Specific Threat Library
- Modular architecture
- Fast reaction time
- High resolution display
- Audio/visual threat alarm

Applications

- Sub-Surface
- Surface
- Air (UAV& Helicopter)



NAVAL COMBAT MANAGEMENT SYSTEM

NCMS serves as the ship's brain, enabling command teams to respond with clarity and precision across all operational domains. As a modular and scalable C3 solution (Command, Control & Communication), it supports tactical picture compilation, rapid decision-making, and integrated weapon coordination, purpose-built for complex maritime missions.

Features

- AAW, ASuW, ASW & EW
- Advanced Track Fusion & Management
- Threat Evaluation & Weapon Assignment
- AI-Enabled Decision Support System
- Automated Contact Identification
- Smart ASMD & TCM Response
- AI Assistant
- General & Tactical Navigation
- Tactical Patterns & Drawings
- Search & Rescue (SAR)
- Record & Replay
- Training & Simulation
- Role-Based Access Control (RBAC)

Sensor & Weapon Integration

- Aggregates, fuses, and displays data from onboard sensors and external links
- Enables rapid threat evaluation and target prioritization
- Automates weapon assignment and engagement
- MIL-STD 2525C/D symbology

Tactical Communication

- Built-in Link Green Tactical Data Link (TDL)
- Secure, Encrypted Data Exchange

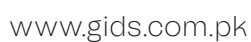


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