


# INTERNATIONAL DEFENCE

## CATALOGUE





# WE ARE BEST ENGINEERING

## WINNING TOMORROW'S BATTLEFIELDS

With over 50 years of experience in innovation and technology for air, land, sea, digital and cyber domains, our advanced defence and security solutions and equipment help governments and armed forces in over 100 countries defend cities and keep its people safe.

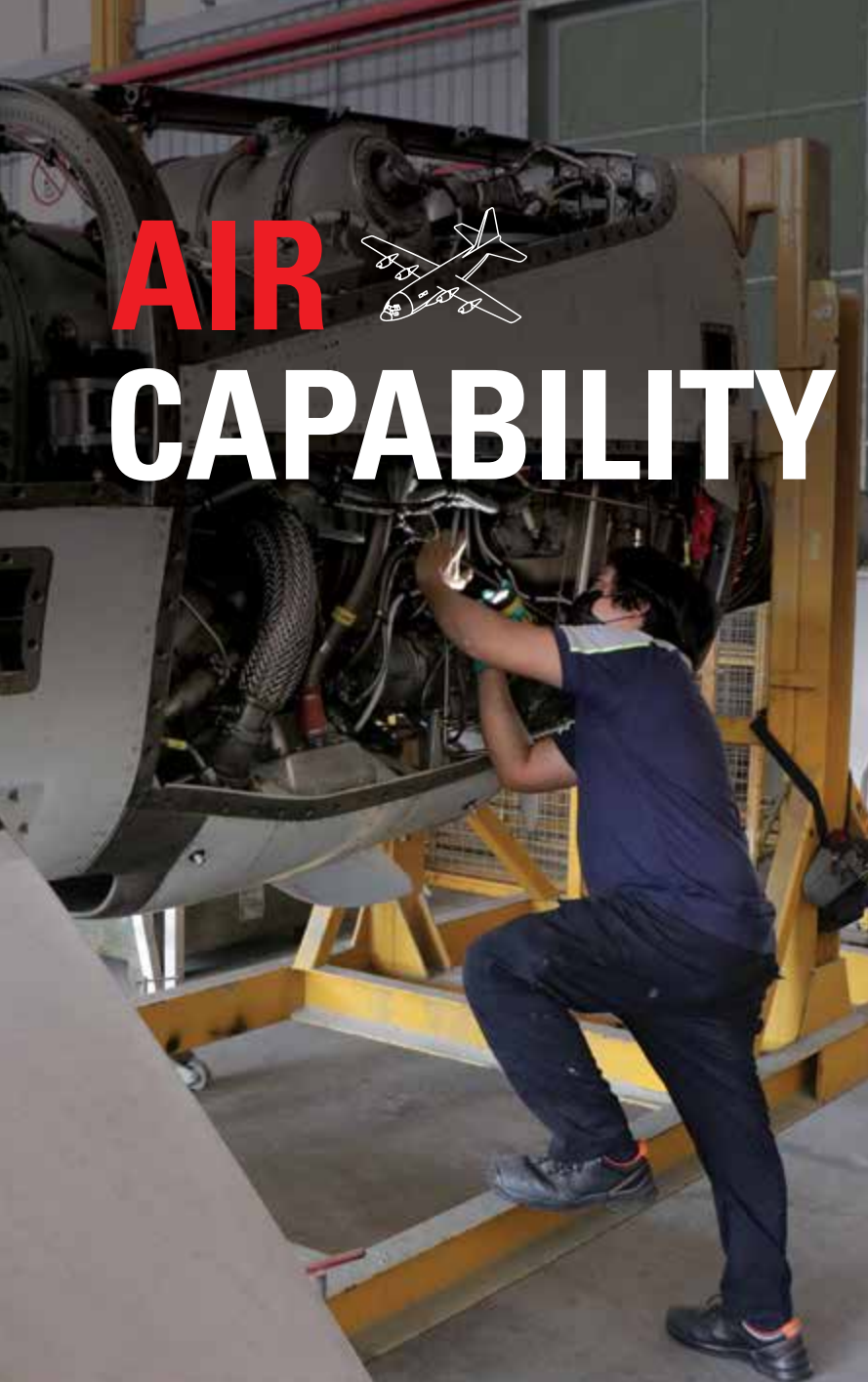
From engineering aircraft and avionics upgrades, to designing and building proven battlefield mobility platforms, soldier systems, ammunition and naval vessels, we have what it takes to enhance your operational capabilities and tactical superiority to ensure mission success.

**50+**  
Years of Experience

**100+**  
Countries

# CONTENTS





# AIR



# CAPABILITY

## C-130 Centre of Excellence

**DELIVERING TRUSTED SERVICE  
FOR OPERATIONAL FLEETS**

We are a premier Aircraft MRO and Engineering service centre renowned for exceptional quality, reliability, and assured turnaround time. We deliver a full spectrum of solutions for fighters, transports, trainers and helicopters.



# Impeccable Quality and Assured Turnaround Time

ST Engineering's C-130 Centre of Excellence (COE) is a Lockheed Martin approved C-130 service centre and a one-stop MRO facility that offers a full range of capabilities for Airframe, Engines and Components – all in the same location.

- One-stop aircraft MRO & engineering hub
- Expertise in fighters, helicopters, transports and trainers
- Redelivers aircraft with quality, reliability & assured turnaround time



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## Maintenance

### Airframe Heavy Maintenance, Structural Repair / Replacement

- Center wing box replacement
- Component repair & overhaul
- Engine repair & overhaul
- Total logistics support
- Receive & launch, refuel, reconfigure & rectify

## Missionisation

### Role Change (To Cargo, Medevac, Fire Fighting)

- Mission systems & operational capability upgrades
- Self-protection suite
- Night vision capability
- Sensor integration

## Modernisation

### Avionics Modernisation & Aircraft System Upgrades

- Meet civil aviation mandates
- Glass cockpit, environment control system, auxiliary power
- Structural life extension
- Centre wing box replacement

# Flight Services

## AIR CHARTER SPECIALIST

Pacific Flight Services provides specialised air charter for medical evacuation and executive travel with 24/7 customer service. Our diverse fleet, skilled pilots, in-house dispatch team, and point-to-point flight monitoring ensure top standards of safety, comfort, reliability, and security.







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# Unmanned Air Systems

## DRONE-AGNOSTIC OPERATING PLATFORM

DroNet Solution, Singapore's first BVLOS-approved drone platform, supports diverse applications such as facility and perimeter security, site inspections, and maritime deliveries. BVLOS capabilities allow DroNet to cover greater distances for faster data collection. It has been deployed and operational for fenceline patrols, security in remote and industrial areas, water activity monitoring, and inspecting assets like powerlines and aircraft.



## DroHub

### Centralised Command & Control Hub

DroHub is an integrated and scalable command & control hub designed to manage multiple UAVs simultaneously. With smart analytics capabilities, it allows users to track concurrent missions in real-time.

- One-stop turnkey drone solution
- Autonomous and multi-role
- Advanced data video analytics capabilities



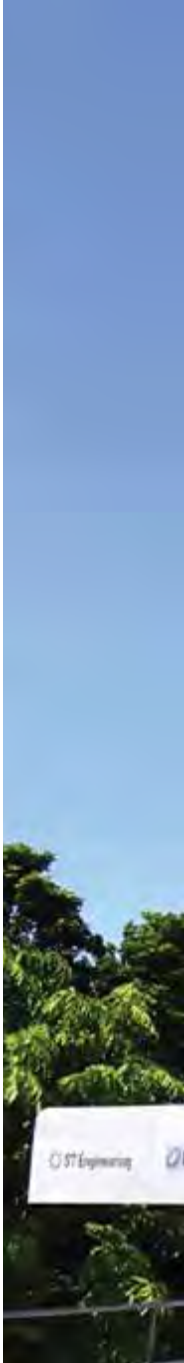
## DroPort

### Remote Charging & Docking Station

The DroPort is a secured docking station (drone-in-a-box concept) for UAs that allows permanent on-site deployment of DroNet at remote places. The DroPort enables automatic launch and recovery of the DrN-15 series UAs.



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**DrN-15 Series**



**DrN-35 Series**





## DroConnect

### Real-time Data Distribution & Video Analytics

DroConnect is a state-of-the-art web-based portal that offers real-time UAV status updates, live video streaming, and advanced data analytics powered by Artificial Intelligence.



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## DrN-Series Drones

### Vertical Take-off & Landing Aircraft Platform (VTOL)

The DrN series UAs are autonomous VTOL aircraft designed for Beyond Visual Line of Sight (BVLOS) operations, meeting global safety standards. They are equipped with safety features for redundancy, automatic fail-safes, collision avoidance, and meet international regulatory standards. DrN series UAs support both day and night missions, and sensors can be configured for various applications.



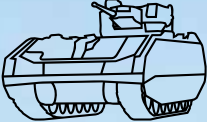
[Click here](#)

**DrN-40**

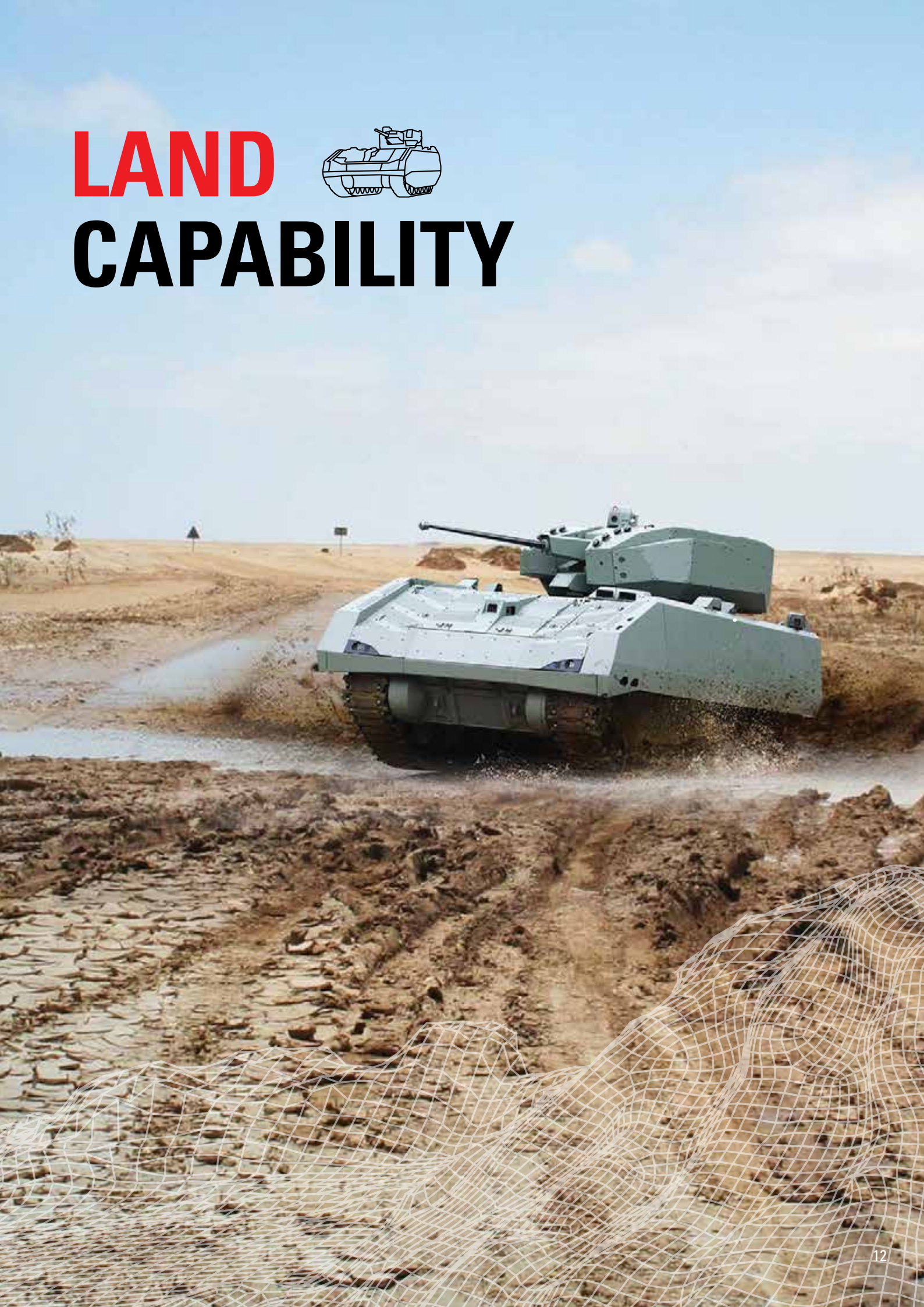




**LAND**



**CAPABILITY**







# Land Defence Systems

## **PROVEN CAPABILITIES FOR MODERN MILITARIES**

With decades of expertise in the development of military technology and innovative engineering solutions, our military vehicles have proven their capabilities in battlefield mobility, survivability and firepower. Our solutions include the battle-proven Bronco All Terrain Tracked Carriers (ATTC), the highly versatile Terrex Infantry Fighting Vehicles (IFV) and the fully digitalised Hunter family of Armoured Fighting Vehicles (AFV).



# HUNTER

## Armoured Fighting Vehicle (AFV)

The HUNTER AFV excels with superior firepower, enhanced survivability and mobility. As the first fully digitalised platform in its class, it features an Integrated Combat Cockpit and Integrated Battlefield Management System (iBMS), designed ergonomically for next-gen soldiers and aligned with operational requirements.

- Enhanced crew survivability and situational awareness with hull-mounted vision and independent commander's sight for an integrated all-round surveillance system enhancing closed hatch operations
- Open architecture for easy insertion of next-gen vetronics, weapons and systems technologies and upgrades
- Increased driving precision for obstacle avoidance. Smart vehicle management equipped with HUMS (health and utilisation monitoring system) enhancing fleet management



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# TERREX

## Infantry Fighting Vehicle

Our newest 8x8 military vehicle, TERREX, focuses on Smartness, Superiority, Sustainability, Survivability, and Serviceability. Available in internal combustion or hybrid electric drive, it integrates the most powerful engine, alternator, and battery system in the TERREX family, meeting future demands effectively.

- High payload with configurable protection
- Hybrid electric drive-ready
- New generation power processor with smart capabilities



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# BRONCO

## All Terrain Tracked Carrier for Battlefield Missions

The BRONCO ATTC excels with unmatched survivability, high payload capacity, and superior manoeuvrability in hostile environments. It offers complete amphibious capabilities and robust protection, backed by battlefield testing. Its modular rear cabin design ensures versatility and simplicity, supporting diverse combat missions effectively.

- All terrain amphibious, articulated armoured vehicle
- Enhanced crew survivability - 30 IED attacks with zero fatalities
- Versatile prime mover with plug and play rear mission module



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# ExtremV

## All Terrain Tracked Carrier for HADR Missions

ExtremV, from the acclaimed BRONCO lineage, excels in versatility and reliability. This multi-tasker handles high rear payloads, serving as a personnel carrier, logistics transporter and specialty vehicle in extreme conditions — from the harsh arctic to forest fires, from disaster relief to rescue, and firefighting operations.

- Amphibious All-Terrain Tracked Carrier for harsh weather
- Versatile modular mission module
- Modern, digitised and intuitively designed interior ergonomics interior ergonomics



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# NGPV

## Next Generation Protected Vehicle

The NGPV is a versatile family of platforms customised for urban combat. Its V-shaped hull enhances crew survivability against threats like mines and IEDs. With robust mobility, export power to replace towed generators, conventional drive, left & right hand drive options and ample payload capacity. It supports infantry forces in deploying combat resources effectively, ensuring sustained engagement in modern warfare.

- World's first hybrid electric 20T protected vehicle
- Fully digitised platform
- Supports wide range of missions



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# TAURUS

## Unmanned Ground Vehicle (UGV)

TAURUS, the multi-role UGV, is a transformative asset for public security, and commercial sectors. It excels in logistics, surveillance, reconnaissance, hazard response, and medical support. With a modular, open design and export power, TAURUS adapts easily to any challenge. Fully electric, it regeneratively charges while towed, deploying swiftly with AI capabilities.

- Regenerative on-the-move power hub
- Fully electric independent drive units capable of export power
- Digitalised architecture for easy insertion of autonomy or other AI modules



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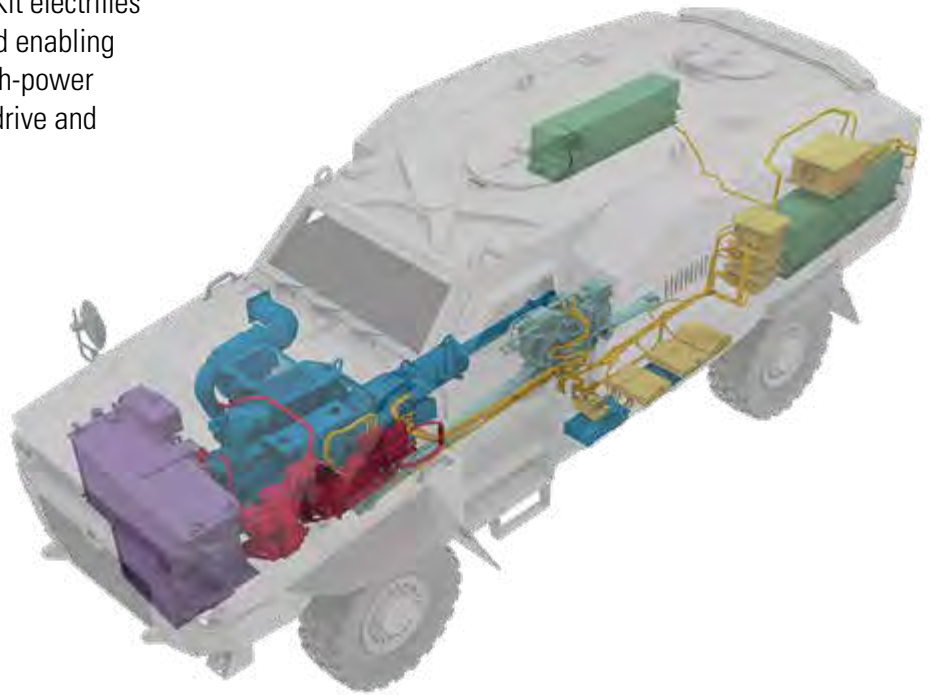
# Hybrid Electric Drive Kit

The Central Drive Hybrid Electric Drive Kit electrifies 4x4 vehicles, extending their range and enabling power export for auxiliary uses. Its high-power capabilities support extended stealth drive and silent watch operations effectively.

- Increased export power for high energy demand payloads
- Enhanced stealth for better evasion with silent drive
- Extend range with up to 30% fuel savings



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# XPYDER

## Hull Climbing Robot

XPYDER is a wireless magnetic crawler adept at scaling ferritic mega structures. Its modular design allows versatile reconfiguration for multi-mission tasks. Equipped with on-board sensors and real-time surveillance, it boosts operator safety and operational efficiency.

- Versatile for any mission profile with its modular design
- Highly manoeuvrable with magnetic tracks & tetherless deployment
- Watertight design with IPX8 ingress protection

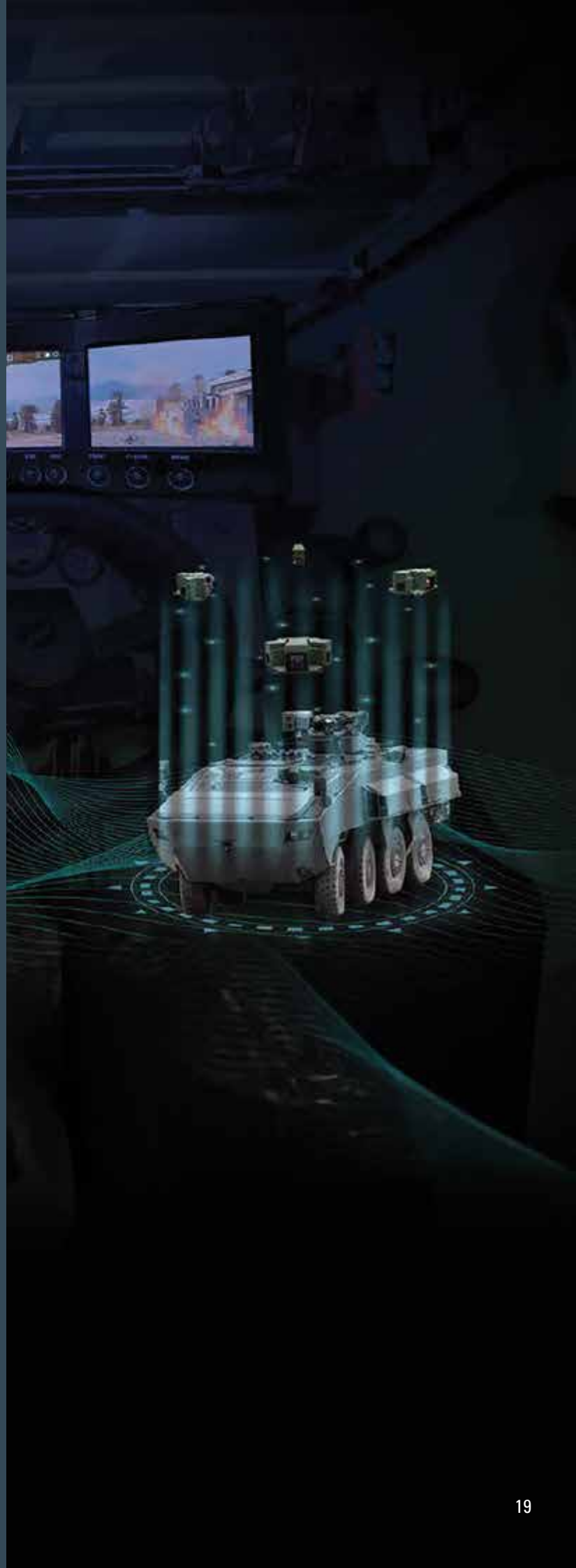




# Defence Platform Electronics

## DOMINATE MISSION-CRITICAL ENVIRONMENT

We seamlessly integrate advanced C4ISR with cybersecurity systems. This equips friendly manoeuvre force with 'see-through' vision system for 360-degree Enhanced Situation Awareness (ESA) views to enable fighting units to operate as a single collaborative networked force.



# Vehicular Integrated Communication Systems

Vehicular Integrated Communication Systems (VICS) is a versatile, rugged and reliable integrated communications and network solution for military and paramilitary applications in harsh tactical and mobile environments.

It is suitable for deployment on both wheeled and tracked combat vehicles, as well as naval / maritime vessels. VICS is a full IP system that facilitates the convergence of voice and data services for cooperative engagement in mission-critical operations.

VICS enables a high-speed tactical network for mission-critical communications and leverages an open vehicle architecture for easy integration.

- Tactical network for digital transformation
- High-speed tactical network for mission-critical communications
- Open vehicle architecture for easy integration



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# MIL-SPEC Vehicular Computers and Displays

This comprehensive range of rugged, vehicle-mountable computers and displays is designed to support the most demanding Command, Control, Communications, and Computer (C4) applications in the field.

Equipped with the latest processors, customisable interfaces, and comprehensive connectivity options, as well as advanced power management, these systems offer optimal processing power for the limited space in your vehicles.

Powerful and robust, they are designed and tested to meet stringent MIL-STD-810 and MIL-STD-461 standards, making them ideal for extreme conditions in tracked and wheeled vehicles.

- Developed for demanding C4 applications
- Ideal for use in tracked and wheeled vehicles
- Operates on low power consumption and can be mounted on vehicles for space optimisation



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# SATCOM Integrated Module

The SATCOM Integrated Module (SIM) provides a one-stop comprehensive baseband solution to work with any preferred Very Small Aperture Terminal (VSAT).

SIM integrates the iDirect modem, RF modules and Network Switches in a ruggedised environmentally protected enclosure chassis in a compact form factor. Designed to operate under harsh environmental conditions, the antenna can withstand temperatures ranging from -25°C to +55°C with up to 95% humidity.

- Rapid on-demand deployment
- One-stop integrated baseband solution
- Can operate under harsh environment



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# Communications-on-the-move

The Communications-on-the-move (COTM) terminal provides immediate, effective and efficient satellite communications capability for on the move applications.

The COTM terminal is compact and low profile, suitable for integration on land vehicles and platforms that have height constraints.

The COTM terminal offers full automated tracking capability, enabling Beyond Line-of-Sight (BLOS) seamless real-time broadband communications via GEOstationary satellites while on-the-move on.

- Immediate, effective & efficient satellite communications
- Fully automated tracking capability
- Seamless real-time broadband communications



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# 360SA

## 360 Situational Awareness System

360 Situational Awareness System (360SA) is an integrated vision system purpose-built for paramilitary and combat vehicles. Its all-round surveillance helps vehicle crew better sensemake and assess threats outside the vehicle, enabling driving under hatch and keeping the vehicle crew safe. 360SA consists of Fusion Cameras, Digital Video Control Unit and Integrated Driver Display Panels configurable for different mission needs. Its open system architecture allows for easy integration with other C5ISR systems to support mission decision-making. The system uses powerful at-the-edge processing to reduce latency thus enabling real-time operations with enhanced situational awareness.

- Suitable for real-time closed-hatch operations
- Highly-scalable for all vehicle classes
- Enhanced visibility



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## Digital Video Control Unit

The Digital Video Control Unit (DVCU) is a video processing system designed to provide views of real-time video images from cameras to the display monitor with minimal video latency. It distributes various camera input videos to be viewed on multiple displays, including the C2 Panel Computers. The ruggedised enclosure unit has multi-channel video (CVBS / SDI) receivers with multiple video outputs. Each display video is selectable using control interfaces like RS422, GigE Vision Control and Discrete I/O.



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## Integrated Driver Display Panel

The Integrated Driver Display Panel (IDDP) improves driver vision and enables safe manoeuvring of the vehicle. Vehicle dashboard symbols displayed on the screen provide driver with vehicle status information while keeping their eyes on the road. Markers on the screen allow drivers to navigate safely around obstacles near the vehicle. Cameras mounted on various positions reduce vehicle blind spots. Views on the screen can be easily selected based on the vehicle's (forward or reverse) gear shift or changed manually.



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# Fusion Cameras

## Fusion Driver Sight

The Fusion Driver Sight is a suite of ruggedised MIL-SPEC cameras designed to operate in the harshest conditions for tracked or wheeled armoured vehicles. It boosts survivability by improving visibility in sandy, smoky or foggy conditions. The Fusion camera houses uncooled VOx Microbolometer thermal sensor that is fused with a day-camera based on state-of-the-art optics design to provide real-time fusion. The 3-in-1 Fusion camera provides a seamlessly stitched wide-angle view in a compact form-factor that reduces blind spots with increased field-of-view.



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# iBMS

## Integrated Battlefield Management System

A tactical system that connects the entire battalion, linking platforms to individual soldiers for shared situational awareness and collaborative engagements, creating a force multiplier effect to achieve a networked force for a common and relevant operating picture.

- Allows the vehicle commander and the gunner to operate the vehicle using a common set of controls
- Allows the crew to operate with a modernised soldier-centric combat user interface (UI) design for improved operational effectiveness
- Provides collaboration tools that allow commanders to participate in mission planning, fast collaborative targeting, and engagement capabilities



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# Smart Vehicle Solutions

## INNOVATIVE ELECTRONIC SYSTEMS

In the current evolving AI and Data revolution world, Smart Vehicle Solutions provide the “Brain” and “Eyes” to the platform. It is positioned to rejuvenate the vehicle with innovative products that transform operational workflows, enhance driving experience, and greatly reduce crew cognitive loading.



## Smart Vision Suite

### High Clarity Images in Extreme Low Light Conditions

The Smart Vision Suite integrates seamlessly onto platforms, enhancing object detection, identification, and situational awareness. Using AI and Machine Learning, it provides high-clarity images in extreme low-light conditions with low latency. AI models are trained on custom datasets for optimal responsiveness and accuracy in real-time analytics.

## Smart Digitalisation Suite

### Modernisation of Vehicle Smartness

The Smart Digitisation Suite, rapidly modernises platforms by consolidating digital data into a customised Graphical User Interface (GUI), resulting in a digital vehicle dashboard for enhanced driving experience. Featuring a MOSFET solid-state power controller for precise current feedback and fast tripping to protect equipment, the solution is scalable for rapid deployment or platform upgrades to meet urgent operational requirements.



# Weapons & Munitions

## TOTAL SOLUTION FOR MULTIPLE SCENARIOS

ST Engineering's comprehensive range of weapons systems combines technological excellence, reliability, and adaptability to address the evolving challenges faced by armed forces and security agencies. With a commitment to innovation and performance, ST Engineering continues to shape the future of modern warfare and defence.



# Rifles

## 5.56MM SAR21

Faced with a variety of mission sets, soldiers have a greater need to switch up their equipment on personal weapon systems. Based on the proven SAR21 rifle, the SAR21 Modular Mounting System (MMS) offers the soldiers increased flexibility in options for mounting accessories. Light and compact, the SAR21 MMS offers outstanding manoeuvrability in tight spaces. Internally, the simple design reduces the number of components for disassembly, cleaning, and maintenance. Its low recoil mechanism allows for better stability and controllability during firing. Lots of options, in a small and reliable package.

Variants include:

SAR21 Modular Mounting System (MMS) – Standard, SAR21 MMS – Carbine, SAR21 Light Weight Carbine (LWC), SAR21 with Under Barrel 40mm Grenade Launcher.



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# Machine Guns

## 5.56MM ULTIMAX 100 MK8

One of the world's lightest machine guns that can be fired from a drum and reloaded on the move, ULTIMAX 100 Mk8 is extremely accurate due to its constant recoil system for greater controllability. Featuring a foldable, retractable buttstock with adjustable height, an open-bolt system that prevents ammunition cook-off and a trigger safety mechanism, ULTIMAX 100 Mk8 is compatible with various magazine types such as the M16-type and SAR21-type box magazines, 100 rounds C-MAG and ULTIMAX 100 drum magazine.

Variants include:

ULTIMAX 100 Mk8 Standard, ULTIMAX 100 Mk8 Carbine.



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## 7.62MM GENERAL PURPOSE MACHINE GUN (GPMG)

The 7.62mm GPMG is a fully automatic, air-cooled, belt-fed, gas-operated weapon with a simple modular construction and disassembly procedure, making it the weapon of choice for military and paramilitary forces.



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## 12.7MM 50MG

The 50MG quick-change barrel with fixed headspace can be changed in one action without any tools, in just seconds. It also has a left / right hand feeding system for fast switching of ammunition types, an open-bolt mechanism, and semi and automatic firing modes. Multiple mounting options such as the M3 tripod, Pedestal Mount, 40/50 Cupola Weapon Station, Remote Weapon Station and Ring Mount are also available.



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# Grenade Launchers

## 40MM AUTOMATIC GRENADE LAUNCHER (40AGL) MK2

Designed to fire 40mm high velocity ammunition, 40AGL Mk2 has multiple safety features such as Charging safety and Bolt Lock safety and a simple modular assembly for easy maintenance. It can be enhanced with various sight and mounting options, such as Reflex Sight, Lock and Fire Mount and Softmount to meet different tactical applications.



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## 40MM GRENADE LAUNCHER (40GL) MK1

Designed to fire 40mm low velocity and low velocity extended range grenades, 40GL Mk1 features a patented drop down barrel design for quick loading / unloading of ammunition, and a double-action trigger mechanism that activates and releases the hammer in a single trigger pull. 40GL Mk1 is lightweight and versatile – it can be easily configured as an under barrel or stand-alone grenade launcher without any tools, or fitted with a Fire Control System for air burst programming.

# ADDER Remote Weapon Systems

The ADDER family of high-performance Remote Weapon Stations (RWS) offers versatile sizes and configurations for diverse operations. Platform-agnostic, ADDER features a unified C4I architecture for integration on both manned and unmanned land vehicles and sea vessels.

- Platform-agnostic, highly adaptable for all platforms
- Auto detection and target tracking with smart detection
- Easily configurable to any consoles or handheld operator control unit with adaptable controls





# Mortars

## 120MM SUPER RAPID ADVANCED MORTAR SYSTEM (SRAMS) MK2

The 120mm SRAMS Mk2 is an advanced mortar system with less than 30 tonnes of recoil force, a 10 km range, and full operational flexibility. It features improved traversing, easy vehicle integration, digitalised capabilities for Multiple Round Simultaneous Impact (MRSI), and integration with our iBMS for situational awareness and fire mission execution.

- Platform-agnostic, highly adaptable for all platforms
- Auto detection and target tracking with smart detection
- Easily configurable to any consoles or handheld operator control unit with adaptable controls



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## GROUND DEPLOYED ADVANCED MORTAR SYSTEM (GDAMS)

The GDAMS is a state-of-the-art, lightweight mortar system designed for commercial and military vehicles. Integrated with our in-house Fire Control System (FCS) and iBMS, it offers cost-effective, mobile indirect fire capabilities using 120mm mortar rounds. It features rapid deployment, enhanced crew safety, and compatibility with 81mm mortar systems.

- Light-weight ground deployed mortar system
- Ease of integration on light wheeled platforms
- Equipped with in-house fire control system for seamless digitised mission execution



ADDER 30



ADDER Twin



ADDER Lite



[Click here](#)

# Ammunition

## COMPREHENSIVE AMMUNITION SOLUTIONS

Our product portfolio includes small, medium & large calibre ammunition and pyrotechnics & explosive equipment. ST Engineering's ammunition solutions are recognised for their precision engineering, rigorous quality control, and adherence to international standards. Driven by a commitment to innovation and continuous improvement, we remain at the forefront of ammunition development, offering cutting-edge solutions to armed forces and security agencies worldwide.





## Small Calibre Ammunition

We offer a comprehensive range of small calibre ammunition, designed for precision and reliability in various firearms. These rounds are carefully crafted to deliver consistent performance, ensuring optimal accuracy and effectiveness in the field. With a focus on innovation and quality, ST Engineering's small calibre ammunition meets the stringent standards demanded by military and law enforcement agencies.



[Click here](#)

- 5.56mm
- 7.62mm
- 0.5 inch



# Medium Calibre Ammunition

- 40mm Low Velocity
- 40mm Low Velocity Extended Range
- 40mm High Velocity

ST Engineering provides medium calibre ammunition solutions that are specifically engineered for advanced combat systems and platforms. Designed to meet the demanding requirements of modern warfare, these rounds offer superior ballistics, penetration capabilities, and lethality. Our medium calibre ammunition is renowned for its accuracy, reliability, and compatibility with a wide range of weapon systems.



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# Large Calibre Ammunition

- 60mm
- 81mm
- 120mm
- 155mm



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ST Engineering's large calibre ammunition is tailored for heavy artillery, tank guns, and other high calibre weapon systems. These munitions are meticulously manufactured to deliver maximum impact and destructive power, providing critical support to ground forces in combat scenarios. With a focus on precision engineering and quality control, ST Engineering ensures our large calibre ammunition meets the highest performance and safety standards.

# Pyrotechnics & Explosives

- Smoke - Signalling
- Smoke - Screening
- Fragmentation
- Training & Simulation
- Signal, Flare & Illumination

ST Engineering offers a comprehensive range of pyrotechnics and explosives for military applications. These products include signaling devices, smoke grenades, demolitions, and other specialised explosives. ST Engineering's pyrotechnics and explosives are designed to provide effective solutions for missions such as tactical signaling, training exercises, and special operations. We prioritise safety and reliability, ensuring that their pyrotechnics and explosives meet rigorous quality standards.



## Less-Than-Lethal

- **40mm Less-Than-Lethal**  
40 x 46mm Air-Bursting Multi Pellet LV
- **Smoke - CS Tear Gas**  
White, CS Tear Gas Flameless  
Cs Tear Gas Multi-pellet, Bursting  
Cs Tear Gas



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# Integrated Soldier Systems

## FOR THE FUTURE BATTLEFIELD

As the future battlefield becomes increasingly complex, constant modernisation and innovations in combat technologies will help warfighters in maximising combat effectiveness and achieving force multiplier effect. These innovations will be scalable, modular and able to integrate with existing personnel and weapons.

Our innovative Integrated Soldier Systems (ISS) are designed for world-class warfighters of tomorrow, enhancing their capabilities:

- Cognitive superiority
- Manned-Unmanned teaming
- Enhanced survivability
- Smart lethality

From intelligent solutions that allow us to augment the existing weapon system and create a coordinated network of soldiers, to equipment that increases survivability without compromising agility, we have what it takes to give future warfighters the decisive edge on the digital battlefield.

Product offerings from each of the four capabilities work in tandem as part of the force-multiplier effect. This allows future warfighters to execute missions with unmatched intelligence, lethality, survivability, and tactical edge over adversaries.



[Click here](#)

# PROTEC

Issues such as poor heat dissipation, poor fit, and imbalanced weight distribution will decrease the combat effectiveness and sustainability of soldiers out in the field. Our Personal Reinforced Outer Tactical Equipment Carrier (PROTEC) is designed to be lightweight, modular, and scalable.



# PLATE

Ballistic protections provide superior protection for armed conflicts, but some are unnecessarily bulky and heavy, thereby compromising the soldier's physical performance. Besides providing superior protection, the Personal Lightweight Armour Technology (PLATE) is ergonomically designed to prevent obstruction to manoeuvrability through hostile terrains. PLATE is also designed to be lightweight to minimise its contribution to the overall load borne by the soldier.

# ProLITE BELT

Most belts on the market feature multiple subcomponents designed to accommodate different body proportions and functions. Users may find the belt to be counter-intuitive to use. Our ProLITE belt addresses the problem by having a streamlined user-centric design that stays snug fit and comfortable during dynamic movements without compromising load-bearing capacity.



# TITAN LAMINATE

There are various fabric options and processes available in the market that increase carrying capacity and durability. However, those often come with downsides such as increased weight, being aesthetically bulky, and being uncomfortable to wear for a prolonged period. Hence, we developed TITAN, our proprietary lightweight laminate fabric that is suitable for everyday outdoor and tactical use. Products made using TITAN laminate sports a low-profile look, provides high-strength performance, and is lightweight.

# Maintenance, Repair & Overhaul (MRO) & Services

## MISSION READY 24/7

As an integrated MRO service provider, we offer comprehensive asset lifecycle support designed to enhance availability and operational readiness. Our solutions range from field service support to maintenance tasks such as service life extension programmes.

We deploy digitalisation, advanced analytics and artificial intelligence solutions, enabling complete visibility and control over critical assets to improve productivity, quality and safety.



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## Platform MRO

### Keeping Assets Operational

We offer a comprehensive suite of services for >100 tracked, wheeled, and armament platforms, tailored to ensure peak performance and availability. From preventive and corrective maintenance to overhauls, we provide solutions to keep assets operational and mission-ready through Smart MRO technologies. Our expertise extends to spares supply, preservation, and service life extension.

## Workshop & Asset Digitalisation

### Leveraging Latest Technologies

We streamline processes and enhance operational efficiency through workflow digitalisation and automation solutions. We enable proactive maintenance strategies for assets by incorporating IoT-enabled health monitoring and fleet management systems.

## Component MRO

### Providing Innovative Engineering Solutions

We specialise in the upkeep of mechanical, hydraulic, and electronic systems, offering a range of tailored services to ensure reliability of >1,800 components across diverse industries. Our MRO expertise extends to innovative engineering solutions such as engine remanufacturing, customised tester development and re-engineering to address obsolescence.

## AI-driven Analytics

### Making Data-driven Decisions

We enable informed decision making through application of predictive maintenance and supply chain analytics, which empowers anticipation of maintenance requirements to improve asset availability. We conduct failure analysis to pinpoint root causes and implement preventive measures, thereby enhancing asset reliability, operational efficiency, and reduce total cost of ownership.



**SEA**



**CAPABILITY**





# Naval Vessels

## WE KEEP THE SEAS SAFE

Backed by more than 50 years of experience, we are one of the world's leading providers of turnkey shipbuilding, repair and conversion services for naval vessels. Our well-equipped shipyards in Singapore provide specialised and comprehensive services to support the end-to-end lifecycle of vessels.



# Endurance Class Landing Ship Tank

The Endurance Class Landing Platform Dock, serves as a robust command and logistics hub, renowned for its endurance in disaster relief and military missions, ensuring swift deployment of personnel and equipment as required.

- Cockpit bridge
- Well dock
- Bow door
- Landing spot for 2 MH

Length	Speed	Displacement	Range
141m	15kn	6,000t	5,000NM at 15kn



[Click here](#)

# Angthong Class LPD

The Angthong Class LPD is a proven model of the Endurance Class Landing Platform Dock developed for the Royal Thai Navy.

- Cockpit bridge
- Well dock
- Side door

Length	Speed	Displacement	Range
141m	17.6kn	7,600t	5,000NM at 15kn



[Click here](#)

# 55m Fearless Class Patrol Vessel

Fearless Patrol Vessels are versatile marine assets suitable for surveillance and security patrol of littoral waters. Fearless comes with configurable anti-surface, anti-air, and anti-submarine warfare capabilities. Fearless also provides high-speed manoeuvrability, excellent seakeeping, endurance and crew comfort.

- Water jet propulsion
- Highly manoeuvrable

Length	Speed	Displacement	Range
55m	25kn	500t	1,800nm at 15kn



[Click here](#)

# 60m Fearless Patrol Vessel

The 60m Fearless Patrol Vessel is designed for multipurpose operations with a full suite of combat capabilities for long periods of operations.

- Highly manoeuvrable
- Flight deck x 1 MH
- High weapon capacity
- High speed

Length	Speed	Displacement	Range	Operation
62.7m	26.5kn	680t	2,000nm at 16kn	Up to Sea State 5



# 75m Al Ofouq Class Patrol Vessel

The Al-Ofouq Class Patrol Vessel is based on ST Engineering's 75m Fearless class design for prolonged operations, such as safety and security, in coastal areas.

- Highly manoeuvrable
- Flight deck x 1 MH
- High weapon capacity

Length	Speed	Displacement	Range
75m	27kn	1,300t	3,000nm at 16kn



# Swift Submarine & Rescue Vessel

The Super Swift Rescue Vessel is designed for submarine rescues and hydrographic surveys.

- LARS for SRV
- Helideck
- Medical facilities in vessel
- ROV modular system
- TUP system and SRV in hangar

Length	Speed	Displacement	Range	Operation
85m	12.5kn	4,500t	-	Up to Sea State 5



# 32m Fast Interceptor Boat

The 32m long fast interceptor vessel enhances maritime security, responds quickly to maritime threats and border violations, and monitors the coasts against infiltration operations and infringements.

- Ultra-high speeds over 50 knots
- Swift and agile, highly manoeuvrable with powerful jet propulsions
- NERVA Ship Management System is customised to enhance user experience with high levels of automation and open architecture design
- Sustained operations in higher sea states
- Capable of search and rescue operations

Length	Speed	Displacement	Range
32m	45kn	105t	1,000nm



# 62m Victory Class Missile Corvette

The 62m Missile Corvette is designed for multiple missions: escorting ships against hostile surface and air attacks, searching and destroying hostile surface forces, denying sea passage to enemy transports, detecting and attack submarines, and patrolling offshore resources.

- Proven platform
- High weapon capacity
- Flexible weapon fit
- Improved habitability

Length	Speed	Displacement	Range
63m	35kn	550t	-

# 130m Vanguard

The Vanguard series incorporates state-of-the-art digital innovations that utilises a mothership concept for deploying and operating unmanned vehicles effectively in challenging maritime conditions.

- Scalable hull form
- Common design & equipment
- Integrated mast
- Integrated ship management system and sensemaking
- Modular payloads with a mission bay



[Click here](#)

Length	Speed	Displacement	Range	Operation
130m	25kn	5,000t	6,000nm at 15kn	Up to Sea State 6



# 80m Littoral Mission Vessel

The Independence Class Littoral Mission Vessel integrates a command centre co-locating the bridge, combat information centre, and machinery control spaces for enhanced operational synergy.

- Stack mast
- Integrated CIC and bridge
- Support MH resupply
- Carry modular payloads
- Optimal crew manning



[Click here](#)

Length	Speed	Displacement	Range
80m	27kn	1,250t	3,500nm





# 13m Fast Craft Equipment and Personnel

The Fast Craft Equipment and Personnel is a versatile, shallow-draft landing craft designed for transporting personnel or vehicles from shore-to-shore or ship-to-shore.

- High carrying capacity
- Shallow water operation
- Bow ramp

Length	Speed	Displacement	Range
13.6m	25kn	14t	150nm



[Click here](#)

# 23m Fast Craft Utility

The Fast Craft Utility is a 18-tonne high-speed shallow draft vessel that specialises in carrying passengers, wheeled or tracked vehicles.

- High carrying capacity
- Shallow water operation
- Bow ramp

Length	Speed	Displacement	Range
23m	25kn	47t	180nm



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# 49m Landing Craft

The Landing and Supply Craft series is a robust design to enable shore-to-shore transportation of assets, featuring propulsion options such as conventional fixed-pitch or controllable-pitch propellers in kort nozzles or water jets.

- High carrying capacity
- Shallow water operation
- Bow ramp

Length	Speed	Displacement	Range
49m	12kn	300t	2,000nm



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# Brave 150T

## Brave Ship to Shore Connectors

The Brave series comprises versatile shore-to-shore connectors and landing craft designed for a range of operational tasks. These include humanitarian missions, disaster response, operational manoeuvres from the sea, and the transport of vehicles, heavy equipment, and supplies from amphibious ships across diverse environmental conditions, including over-the-beach operations.

- High carrying capacity
- Shallow water operatin
- Bow ramp

Length	Speed	Displacement	Range
47m	15-25kn	150t	500nm at 15kn



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## Swift 18m Unmanned Surface Vessel

The Swift 18m Unmanned Surface Vessel operates autonomously with minimal command input, monitored from shore bases for mission oversight. It supports diverse payloads and features an AUTONOMAST™ and mission payload system, ensuring flexible and efficient mission execution.

- High speed
- Modular payload
- Auto berthing capabilities
- Dynamic station keeping and positioning
- Large payload deck up to 5 tonnes

Length	Speed	Displacement	Range	Operation
18m	35kn	35t	700nm	Up to Sea State 3





# Public Safety & Security Vessels

## KEEPING THE SEAS SAFE

Backed by more than 50 years of experience, we are one of the world's leading providers of turnkey shipbuilding, repair and conversion services for naval vessels. Our well-equipped shipyards in Singapore provide specialised and comprehensive services to support the end-to-end lifecycle of vessels.

# Heavy Fire Vessel

The Heavy Fire Vessel is the world's first firefighting vessel certified to FiFi 3 operations with Dynamic Positioning capabilities. HFV can also perform sea rescue operations and is CBRN ready.

- World's most powerful
- High speed
- High rescue capacity
- Mini UAV capable



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Length	Speed	Displacement	Range	Operation
50m	20kn	600t	500nm at 15kn	Up to Sea State 5

# 35m Medium Fire Vessel

The Medium Fire Vessel is designed and equipped for agility and swift response for maritime firefighting and rescue operation combined with CBR protection.

- High speed for rapid response
- High rescue capacity
- Swift and agile, highly manoeuvrable with powerful jet propulsions
- NERVA Ship Management System is customised to enhance user experience with high levels of automation and open architecture design

Length	Speed	Displacement	Range
35m	30kn	200t	500nm

# 5th Generation Patrol Boat

The 5th Generation Patrol boats are capable of high-speed operations, swift manoeuvrability and enhanced crew comfort.

- Ultra high speed
- Tethered UAV capable
- Highly manoeuvrable
- Failure prediction
- Optimised bridge design



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Length	Speed	Displacement	Range
23m	55kn	57t	-

# Commercial Vessels

## WE KEEP THE SEAS SAFE

Backed by more than 50 years of experience, we are one of the world's leading providers of turnkey shipbuilding, repair and conversion services for naval vessels. Our well-equipped shipyards in Singapore provide specialised and comprehensive services to support the end-to-end lifecycle of vessels.







## Roll-On / Roll-Off Passenger (ROPAX) Vessel

The Ropax vessel transports passengers and vehicles. A proven design, it has ramps and doors that enable vehicles to be driven on and off the ship easily at the port.



[Click here](#)

Length <b>161m</b>	Speed <b>21.0kn at 90% MCR</b>	Gross tonnage <b>27,744t</b>	Deck space <b>6,853sqm</b>
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## Roll-On /Roll-Off (RORO) Vessel

ST Engineering has developed RORO, to transport vehicles that can be driven on and off the ship using built-in ramps.



[Click here](#)

Length <b>126.50m</b>	Speed <b>15kn</b>	Gross tonnage <b>1,5643t</b>	Deck space <b>9,360sqm</b>
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# Diving Support Vessel

Our DSV is a high specification classed vessel built to meet future environmental standards. The vessel is fuel-efficient, clean-class, comfort-class and ICE-class, and able to work in most of the world's offshore oil and gas precincts.

- 900m<sup>2</sup> main deck
- Possess 140t crane
- Built-in ROV chambers
- Saturated diving system
- TUP system

Length	Speed	Gross tonnage	Deck space
<b>107m</b>	<b>16.5kn</b>	<b>7,386t</b>	-



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# Crew Transfer Vessel

The 32m Crew Transfer Vessel, a collaboration with Incat Crowther, ensures safe technician transfers between ports and offshore wind farms.



[Click here](#)

Length	Beam	Draft	Deadweight	Operation
<b>31.8m</b>	<b>10m</b>	<b>1.4m</b>	<b>65t</b>	<b>Up to Sea State 6</b>

# Floating Power Plant

ST Engineering developed Estrella Del Mar III to provide a highly efficient power generation facility, supporting the engineering design, construction, balancing, and installation of the floating power barge and plant.



[Click here](#)

- Power output of 145.5MW

Length	Speed	Gross tonnage	Deck space
80m	-	-	-



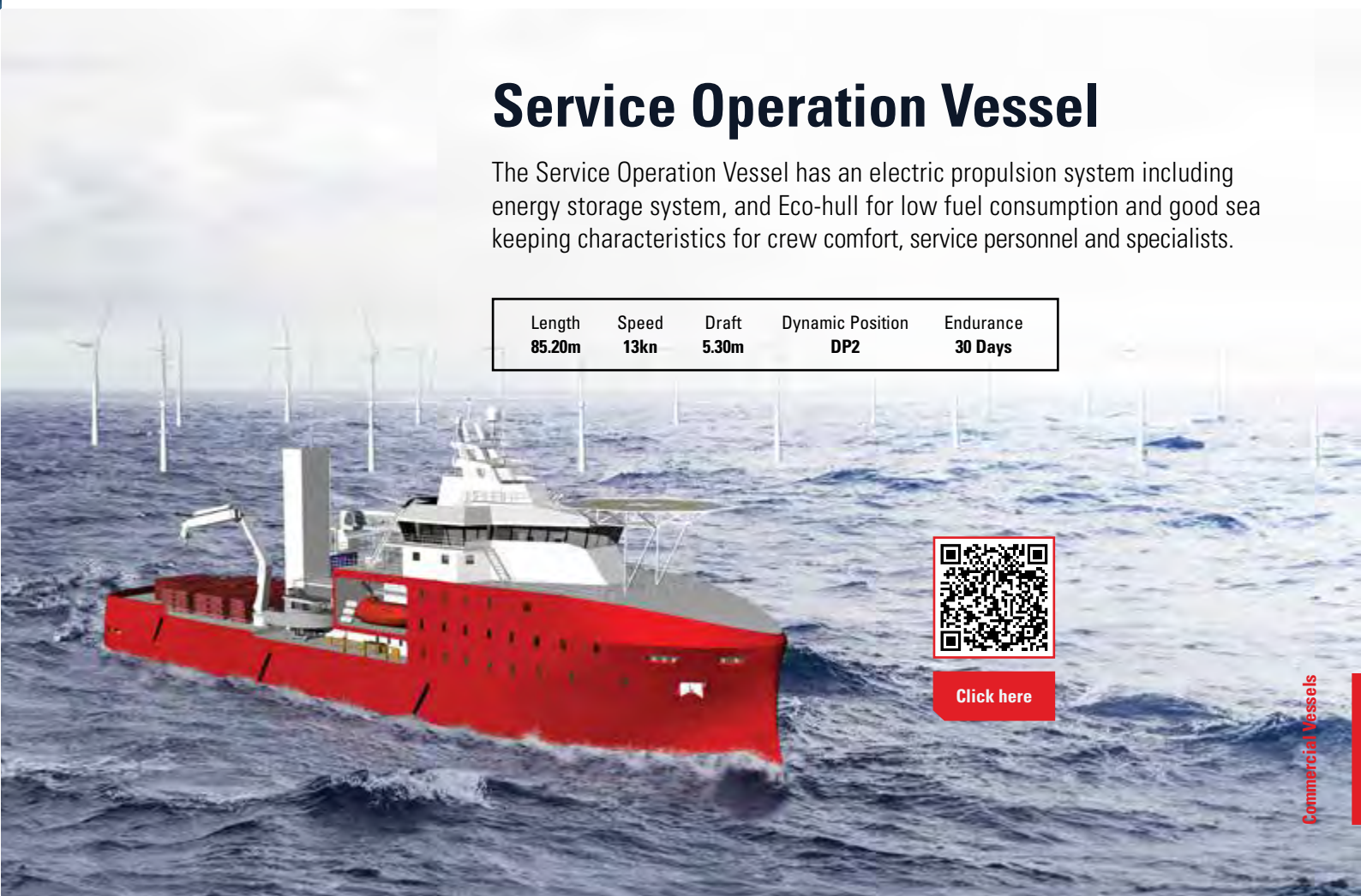
# Service Operation Vessel

The Service Operation Vessel has an electric propulsion system including energy storage system, and Eco-hull for low fuel consumption and good sea keeping characteristics for crew comfort, service personnel and specialists.

Length	Speed	Draft	Dynamic Position	Endurance
85.20m	13kn	5.30m	DP2	30 Days



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# Technologies & Innovations

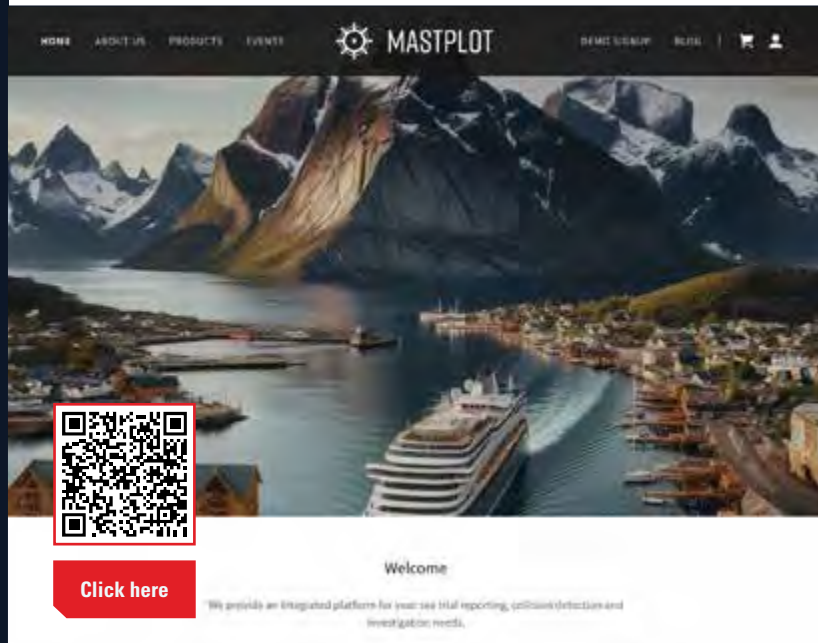
## PUSHING BOUNDARIES OF NAVAL SUPERIORITY

Backed by more than 50 years of experience, we are one of the world's leading providers of turnkey shipbuilding, repair and conversion services for naval vessels. Our well-equipped shipyards in Singapore provide specialised and comprehensive services to support the end-to-end lifecycle of vessels.



## Nerva Ship Management System

The Nerva Ship Management System provides centralised control and monitoring of platform sensors and systems. The sensemaking system will incorporate data and predictive technique to perform equipment health monitoring and predictive diagnostics.



## SeaSight by MastPlot

SeaSight is an integrated dashboard platform for safety of navigation at sea. It contains a processing unit with proprietary algorithms, working with existing shipboard sensors or standalone sensors to provide data analytics.

# Naval Repair & Maintenance

## SAFETY AND RELIABILITY FOR EVERY MISSION

We offer total solutions from repair, refurbishment, and retrofitting to upgrade naval vessels and platforms. Adhering to high-quality safety standards, we have a proven track record of delivering quality workmanship with a quick turnaround to enable naval vessels to continue their missions on seas.

## Naval Repair & Maintenance

We provide comprehensive maintenance, repair and refitting services for vessels.

- Contractor-led support solutions for ship maintenance and complex capability upgrades
- Delivering availability-based contracts
- Repair, overhaul, testing and commissioning of high-speed diesel engines



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# A Smart Yard Powered by AI

Gul Yard is a next-generation smart yard with 5G and AI-driven technology. Its integrated system optimises workflow, tracks milestones and predict issues, while real-time monitoring and predictive maintenance minimise downtime and enhance efficiency.







- **AGIL® Vision and security robots**  
Provide real-time hazard detection and automated safety alerts
- **Drones inspection**  
Inspect hazardous and hard-to-reach areas, enhancing workers' safety
- **IoT enabled devices**  
Provides real-time updates of work progress and monitor workers' safety

- **Sustainable practices**  
Electric-powered AGVs and buggies to reduce carbon footprint, efficient scrap sorting and recycling processes to minimise waste
- **Green energy sources**  
Adoption of renewable energy sources to reduce carbon emissions by 2034

# Unmanned Solutions

## REDEFINING SAFER MARITIME OPERATIONS

Building on our experience in the design and development of unmanned vessels, we develop autonomous vessels that ease manpower constraints, improve operational efficiencies and keep seas safe without risking our personnel's lives.



[Click here](#)



## AUTONOMAST™

### All-in-One Modular Autonomy Kit

The AUTONOMAST™ is an all-in-one modular autonomy kit that converts manned vessels to unmanned vessels for autonomous navigation. It is suited for the defence, maritime security, oil and gas, windfarm, firefighting and shipping industries. With >15 years of USV development and operationalisation track records and >57,000hrs of autonomous USV operations, we enable vessels to manoeuvre autonomously, intelligently and safely at sea.

### Navigation Autonomy

- Waypoint following with Collision Detection and Collision Avoidance (CDCA) function
- Industry-first autonomous berthing
- Energy efficient digital anchoring

### Platform Autonomy

- Automatic vessel health monitoring & reporting
- Automatic fire detection & suppression
- Automatic intruder detection & reporting

### Mission Autonomy

- Lawn mowing for search & rescue
- Block & screen manoeuvre for Key Installations (KINS) protection, escorting of high value asset

### Collaborative Autonomy

- Manned and unmanned teaming capability (e.g.manned fire command boat operates at a safe distance and an unmanned firefighting vessel handles close-in firefighting)
- Logistics sea train manoeuvre

# VENUS Unmanned Surface Vessel (USV)



Highly customisable, the VENUS USV is designed to meet the growing need for USV reconfiguration to perform autonomous missions. It is equipped with a wide range of sensors, including a combination of electro-optical and radar sensors, that allows safe autonomous navigation in a dense maritime environment. Its modular approach allows different mission modules to be integrated with the USV to accommodate various commercial and public safety & security applications.

- Multi-mission capability
- Rapid reaction
- Ease of maintenance
- Designed for both manned and unmanned operations



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# MERCURY Autonomous Underwater Vehicle (AUV)

The modular MERCURY AUV is designed and tested to operate in littoral and congested maritime environments. Armed with advanced sensors, navigation and communication features, it captures and processes high quality seabed data with full mission autonomy. Configurable for a range of customised underwater applications, it can be deployed for autonomous mission needs such as Mine Counter Measures (MCM), as well as underwater survey and inspection.

- Modular design allowing configurable payload and battery length
- Capable of detecting partially buried items
- Automatic target recognition



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# JUPITER Autonomous Solar-Powered Vessel



Equipped with a solar roof containing 2KWh of solar estate, the JUPITER ASPV can power its entire system by efficiently charging onboard batteries with zero carbon emissions and reducing >3,150L of diesel and 12.4 metric tonnes of CO<sub>2</sub> per year. By enabling 8 hours of continuous operations, it saves 8 worker hours per day. It has modular payloads available for various applications, including flotsam retrieval (marine debris), aquatic plants clearance, as well as water quality sampling and monitoring.

- Designed for multiple applications
- Fully solar powered and electric
- Autonomous operations
- Zero emissions



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# DIGITAL CAPABILITY





# Accelerating Digital Transformation

Gear up for the future battlefield with advanced C5ISR solutions. Our digital transformation capabilities enhances collaboration, Manned-Unmanned Teaming (MUM-T), and situational awareness. We offer robust Command, Control, Communications, Cybersecurity, and Intelligence systems for real-time threat detection and rapid decision-making. Stay ahead of emerging threats and turn strategy into action with our cutting-edge technology.

# AI-driven Solutions

Designed to meet the dynamic challenges of modern security threats, our solution ensures robust protection and operational reliability in critical scenarios. Unified situational awareness & control can be integrated with any sensors, and robust countermeasures are implemented to neutralise drone threats, safeguarding critical installations and events effectively.





## AGIL<sup>®</sup> Vision

AGIL<sup>®</sup> Vision revolutionises video analytics with Generative AI, enabling natural language queries for video content retrieval. This innovation simplifies complex searches, making it quicker and more precise to analyse large volumes of video data. AGIL<sup>®</sup> Vision improves search capabilities in detecting anomalies and can be used in broad range of applications.



- Plug-and-Play
- Optimised search without meta tags
- Real-time alerts
- High adaptability



[Click here](#)

## AGIL<sup>®</sup> Response

### A rapid out-of-box Command and Control system

AGIL<sup>®</sup> Response is a rapid out-of-box Command and Control system that allows responders to standup and coordinate frontline emergencies or security operations swiftly. It includes a C2 system that is pre-integrated with five body-worn cameras and a drone. Each responder is also equipped with a mobile application.

- Compact and portable with pre-integrated peripherals for rapid edge response deployment
- Video analytics for anomaly detection and generative search to assist in CCTV surveillance
- Digitalised dissemination of incident details, task assignment and monitoring for better situation awareness and closed loop collaboration
- Automated report and summary insights generation with Generative AI



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# Merlin

Merlin leverages advanced Automatic Speech Recognition (ASR) and Artificial Intelligence, to significantly reduce administrative burden by automating repetitive tasks and minimising human error. Users are empowered to focus on the more critical aspects of their roles, resulting in improved productivity and operational efficiency.

- Real-time speech-to-text functions with Natural Language Processing to automate manual tasks for users to focus on other strategic aspects
- Automated documentation via seamless form-filling that reduces common typing errors and misentries
- Intelligent summarisation and diagnostic insights
- Compatible with on-premises deployment to safeguard sensitive information



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# AGIL® Trust

## Misinformation Detection Platform

AGIL® Trust is a versatile platform designed to counteract the rapid and extensive spread of misinformation exacerbated by the accessibility of AI tools. It is able to detect multimodal fakes by analysing text, audio and video to identify tampered or inaccurate content.

- Detects multimodal deepfakes
- Expedites fact-checking using advanced lexical analysis
- Automates fact-checking from trusted sources to discern fact from fiction
- Performs deep content analysis to uncover narratives, intent and emotional disposition



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## Counter-Unmanned Aerial Systems (CUAS)

ST Engineering offers scalable and multi-layered AI-driven C2 sensor-effector suites for countering drones. Our solutions provide timely intrusion warnings and options for mitigating risks to protect key installations and events.

### Key Features:

#### Counter Drone Laser Effector

Compact design enabling flexible deployment as static or mobile solutions. Cost-effective counter drone mitigation solution that leverages on commercial high-energy laser sources.

#### RF Jammers

Offers adaptable solutions capable of covering various operational scales and environments effectively. Non-Kinetic Mitigation measure which also includes Efficient Spectrum Diversity Jamming Waveforms, Ubiquitous Spatial-Diversity Jamming System & Frequency Hopping Countermeasures.

#### RF Directional Finder / RF Drone Decoder

Provides early alerts for potential drone intrusions, enabling swift and proactive response measures. Machine learning model achieves low rate of false alarms during detection of drones.

#### Skyhawk Mission Console

Implements robust countermeasures to neutralise drone threats, safeguarding critical installations and events effectively. Unified Situational Awareness & Control which can be integrated to any sensors of choice for a suitable countermeasure solution. Designed to meet the dynamic challenges of modern security threats, ensuring robust protection and operational reliability in critical scenarios.

- **AI-driven Technology:**  
Utilises artificial intelligence for enhanced detection, tracking, and response to drone threats
- **Scalable Solutions:**  
Adaptable to various operational scales and environments, ensuring comprehensive coverage
- **Timely Intrusion Warnings:**  
Provides early alerts for potential drone intrusions, enabling proactive response measures
- **Mitigation Options:**  
Offers effective countermeasures to neutralise drone threats, safeguarding key installations and events

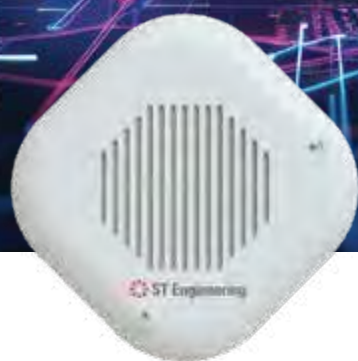




# 5G Solutions

Our ability to deploy reliable, high bandwidth, low-latency 5G connectivity in times of crisis provides enhanced, high-fidelity opportunities for armed forces to enhance operational capabilities and tactical superiority to ensure mission success.

# 5G



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## 5G SMALL CELL

The 5G System-On-Chip (SoC) Small Cell is designed for robust, high performance and sustainable deployment of 5G connectivity at scale. The 5G SoC Small Cell is highly scalable and can accommodate the expansion and densification of indoor networks as demand grows. This versatility supports various deployment scenarios, ranging from large office buildings and shopping malls to stadiums and many other indoor venues. Combining multiple functionalities into a single, compact, energy-efficient device using an integrated all-in-one architecture, the 5G SoC Small Cell ensures seamless integration into existing indoor infrastructures, underpinned by easy configuration and management. Leveraging on the fully flexible and open architecture that is compliant with 3GPP specifications, the scalability and versatility of the 5G Small Cell makes it highly suitable for the following applications:

- Smart factories & manufacturing
- Hospitals & healthcare sectors
- Retail & commercial spaces
- Transportation platforms & hubs
- Campuses & learning environments

## 5G-in-a-Box (5GiB)

5G-in-a-Box (5GiB) delivers reliable 5G connectivity in remote or challenging environments, overcoming bandwidth and latency issues. This compact, self-contained unit is ideal for rapid deployment in critical scenarios or urgent operations, supporting high-bandwidth needs for numerous users. It ensures uninterrupted, secure communications and operational effectiveness even when traditional infrastructure is unavailable.

- Easy deployment
- Ruggedised and operatable in extreme conditions
- Reliable and scalable

# Cloud Solutions

Elevate and enhance data management with innovative technologies designed to facilitate data cohesiveness with leading data security infrastructures. Benefit from comprehensive and robust cloud platforms and data systems, accelerating digital transformation for your organisation.



[Click here](#)

## Cloud Solutions

**An extensive range of capabilities in database and application transformation for both private and public clouds**

We provide end-to-end cloud and data services for users to gain flexibility with data on cloud and on-premise, whilst maintaining visibility and control through managed services in various data environments.

- Structured cloud migration process that is customisable to suit unique infrastructure and needs
- Hybrid Multi-Cloud strategy to achieve agility, diversify risks, gain competitive advantages and operation resilience via AGIL® Cloud Management Platform
- Experienced cloud-managed service provider to automate and enhance operational efficiencies
- Secured Data Platform Modernisation to achieve workload portability through a single pane consisting of multiple cloud providers, easing services orchestration and enhancing integrated cloud operations dashboard



# Maritime Systems

Our e-Navigation Framework-ready smart vessel traffic management solutions suite reduces human error and cost, through intelligent monitoring and pro-active alerts before the crisis strikes.

## Vessel Traffic Management System (VTMS)

VTMS is a next-generation software that powers the command centre onshore, connecting multiple sensors port-wide to facilitate vessel surveillance, thereby ensuring comprehensive situational awareness and streamlining operations.

Make better-informed decisions using Artificial Intelligence, improve situational awareness and vessel traffic visibility using intuitive visualisation, and ensure safer navigation with digital geo-fencing and environmental change detection.

- Utilises Machine Learning to analyse trends for traffic management and anomaly detection
- Single source of truth for greater situational awareness
- Proactive coastal defence planning to improve border security
- Smart vessel surveillance to detect and deter suspicious activities

## Vessel Traffic Mobile System (VTMoS)

VTMoS is a mobile vessel traffic management system for offshore operators. It connects the command centre to shipborne, and is easily installed shipboard and on ground vehicles for seamless communication and to smoothen operations.

- Streamlines ship-to-shore communication to ensure prompt dissemination of information
- Enhances data visualisation for effective response to maritime threats and emergencies



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# Mobile Command Platforms

## Mobile Command Platforms

Mobile Command & Communication Platforms (MCCPs) provide versatile and robust mobile C4 (Command, Control, Communications, and Computers) capabilities for on-site mission planning and emergency management. Designed for all-weather operations, MCCPs swiftly establish on-site Command and Control, facilitating efficient deployment of personnel and resources during emergencies and disaster recovery.

### Key Features:

- **Unified Communication Systems (UCS)** ensure seamless interoperable communication, enabling real-time voice, data, and video transmission between incident sites and HQ command centres.
- **Forward Command Vehicle (FCV)** is tailored for command on the move. This allows commanders to issue command and take control of the situation while enroute to emergency site.
- **Mobile Command Post (MCP)** is tailored for cross-country and challenging terrains, featuring a fast deployable shelter and expandable working space (45 sqm).
- **Modular Deployment:** Multiple MCPs can be deployed together, optimising vehicle usage and reducing operational and logistical costs in HQ deployment and incident management.
- **Reliability:** Requires minimal field maintenance and delivers clear communications on the move, making it ideal for defence and public safety agencies.

MCCPs are engineered to meet the demanding needs of rapid response scenarios, providing effective command capabilities and communication continuity in dynamic environments. Whether in crisis response or disaster recovery, MCCPs ensure robust and reliable support for mission-critical operations, enhancing operational efficiency and coordination.

- **Versatile all-weather operations:**  
Built to function effectively in diverse environmental conditions, ensuring reliability during emergencies and disaster recovery
- **Unified communication systems (UCS):**  
State-of-the-art technology enables seamless interoperability for real-time voice, data, and video transmission between incident sites and HQ command centers
- **Modular design for customisation:**  
Easily configurable to meet specific operational requirements, allowing for efficient resource deployment and optimised mission management
- **Cost-effective solution:**  
Reduces operational and logistical costs by optimising vehicle usage and supporting multiple MCPs deployed together, enhancing coordination and response efficiency



# SATCOM Systems

To meet the insatiable demand for situational awareness across land, air and maritime vessels, our SATCOM systems bring about real-time dissemination of images and videos against in harsh operating environments, respond to a moment's notice to conduct surveillance operations or provide disaster support, and offer high-speed data bandwidth to provide seamless connections anywhere in the world.



[Click here](#)

## PARABOLIC MANPACK - A1000

The Parabolic Manpack A1000 is a custom-built Triband SATCOM terminal designed to provide highly reliable broadband connectivity for users. The terminal is highly suited for operations in harsh environmental conditions. The equipment includes BUC, LNB, Modem, Power Supply, M&C, GPS, and a battery. Thanks to its innovative design, the terminal is compact and lightweight without compromising any functionality. Deployment of the Manpack terminal is easy, with minimal assembly of separate parts, and antenna alignment is easily accomplished. Full deployment can be completed in less than 10 minutes, making it a rapid deployment solution in hostile environments.



## FLAT PANEL MANPACK-M300

The Flat Panel Manpack SATCOM M300 is a highly portable SATCOM terminal with a compact form factor, ruggedised to be suitable for a variety of harsh and tactical operational scenarios and applications. Operating in the Ku-Band, it delivers high performance and is designed for quick deployment.



# Training & Simulation Systems

We help our customers to learn and train better so they can achieve mission success and enhance learning outcomes.

Our advanced learning, training, and simulation solutions serve a wide range of sectors, including aerospace, land, maritime, homeland security, and education.

We provide simulation and training systems for Live, Virtual and Constructive, Individual to Team, Common Simulation Environment, Multi-Domain Operations and Digital Twins.

## Offerings:

- Motion platform simulator
- AR / VR / MR enabled immersive trainer
- Procedural trainer
- Full mission trainer
- Classroom-based trainer
- Digital twin



# 2 to 9 degrees-of-freedom (DOF) Driver + Crew Training Simulation System with AI Engine

Our suite of driving & crew simulators provides high-fidelity and realistic virtual training experience for driving skill refinement, reflex enhancement, crew coordination and adherence to safety protocols. It comes with an AI engine that provides training analytics to enhance trainees' performance and aide in scenario generation. Our range of simulation training platforms cater to different training objectives and budgets.

- Motor vehicles (Cars / Motorcycles)
- Passenger vehicles (Buses / Coaches)
- Military vehicles (Wheeled / Tracked)
- Heavy goods vehicle
- Articulated vehicles
- Police, fire & emergency response vehicles

We offer various types of training platforms:

1. Mixed reality (MR) driving trainer
2. Compact driving simulator
3. Full-scale motion driving simulator (3 to 9 degrees-of-freedom motion platform)
4. Cabin/desktop crew trainer



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## Fixed Wing Flight Simulator

In pursuit of taking virtual training to greater heights, the fixed wing simulator provides pilot with training in basic to advanced flight operations and procedural training, to train the pilot on both Type training (aircraft handling and flight operations) and Task training (individual and team-level missions) in a network-integrated training system. The simulator provides training across a full spectrum of operational missions.

- Provide basic instruments and navigational training for single or multiple crew(s)
- Provides training in different flight scenarios to hone skills and flexibility
- Provides mission level training
- Training analytic to analytics trainee performance

## Helicopter Simulator

The helicopter simulator provides a simulation of a helicopter flight in various flight environments with different flight scenarios, to train the pilot on cockpit procedures and avionics systems, flight operation, navigational and task-specific training, and mission level training.

- Provides basic, tactical and mission level training to equip them with skills
- Training analytics to analyse trainee performance for continuous improvement VR / MR enabled training



[Click here](#)



# Air Traffic Control Simulator (ATCS)

A fully scalable, high-fidelity training solution that offers highly realistic radar, procedural and aerodrome simulations. It is customisable to cater to a broad training spectrum — from ab-initio to operational and refresher training, to equip controllers with the precision and confidence to manage any situations.

- Mimics real-world scenarios to train for rapid decision-making in critical situations
- Scalable and customisable to fit unique requirements
- Cost-effective and flexible to switch between simulator modes in a single system
- Keep in sync with industry updates via customisable plug-ins for swift updates



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# Digital Sandtable

The Digital Sandtable is a touch-based interactive device with an accessible tabletop user interface, that provides full visualisation of terrain using 2D map navigation and a correlated fly-around 3D view display. It supports scenario planning, urban planning and training of emergency response exercises.

- Next-generation scenario planning and monitoring
  - Touchtable UI
  - Tools and visualisation
  - Content flexibility
- Tabletop user interface
  - 2D map navigation with touch interactivity on an accessible tabletop
- Immersive visualisations and emergency handling
- Close-up visualisation



[Click here](#)





# Unmanned Aerial Vehicle Simulator

The Unmanned Aerial Vehicle (UAV) Simulator trains the pilot in operating an unmanned aerial vehicle and its payload in a simulated environment. It is able to provide both Type Training (flight operations, navigation through various weather conditions and emergency handling) and Task Training (mission specific training) and prepares the pilot for real-world reconnaissance and surveillance mission.

- Capable of conducting individual & crew training
- Provide operators training in operating and unmanned aerial vehicle
- Provides mission training for crews to be efficient and adaptable



[Click here](#)



# Unmanned Surface Vessel Simulator

The unmanned surface vessel simulator is designed and built to meet the initial and recurrent training needs of USV operators, offering both platform training as well as mission specific training. The USV simulator comes packed with realistic simulated environments and training scenarios, with customised configurations that ensure USV operators can rise to any challenge at sea and will be proficient at handling situations as they arise.

- Safe training environment for operator
- Learn the command procedures of a USV console anytime
- Hone the skills for autonomous operations, navigating under the different weather conditions and emergency handling



[Click here](#)



# Virtual Maintenance Trainer for land, maritime and air platforms

Harnessing Virtual Reality (VR) technologies, the Virtual Maintenance Trainer's immersive training capabilities allows trainees to practise and assess their procedural knowledge, without the hassle of system downtime or provisioning of spares. The customisable VR environments of the training scenarios enable trainees to experience scenarios that are not feasible with dummy equipment, or are just too dangerous to be simulated in live training.

- Provides training environment without system downtime
- Provides training in a safe, immersive environment
- Applicable to land, maritime and air platforms

# Integrated Ship Bridge Simulator

From basic ship handling to complex mission rehearsals, the Integrated Ship Bridge Simulator offers a highly realistic and effective training environment for instructors and crew members to hone their technical and combat skills, promoting collaborative training between various operational roles. It is enabled with VR watch stations and immerse operators into the training environment by offering berthing training.

- Provides an integrated, realistic and safe training environment while reducing training time for each ship
- Supports a full range of training from operator component training to mission-based training
- Recognised for outstanding training system integration at the Military Simulation & Training Awards 2019 for the Littoral Mission Vessel Simulation Centre project



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## AGIL® CampusFlair

AGIL® CampusFlair is an enterprise data analytics platform that provides a 360-degree view of each student. Designed for ease-of-use by non-data experts, the solution leverages Machine Learning, pre-built assets, and templates to help users get more value from data.

- Generate a holistic view of students' progress
- Automatically identifies struggling students based on data-driven insights
- Early intervention increases chances of student passing
- Identifies trends from unsuccessful students



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## Training Support and Consultancy Services

We offer training support and consultancy services for the operational and technical domains of aerospace, land and maritime industries. We empower organisational excellence by providing high quality services to our defence, commercial and international customers.

- Operations & simulator maintenance support
- Training design services
- Training operations and support
- Instructional services
- Simulation training centre management
- Port facility security consultancy services



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# Armoured Gunnery Virtual Simulator

A simulator to train crew to operate the equipment and weapons on board the armoured vehicle or as a conceptual tool to design, develop, research and improve armour vehicles' characteristics.

- Provides tactical training needs for crew
- Provides procedural training
- Provides weapon equipment training to enhance their skills
- Train crew to operate the equipment and weapons on board the armoured vehicle



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## Digital Twin

### Ops Terrain Mapping

- Imagery analysis for geospatial data on terrain and objects-of-interest
- Vectorisation of pathways and gross 3D reconstruction of vertical structures
- For applications in Intelligence and Tactical movement guidance

### People Data Generation

- Video analysis for human movement and activity data, including crowds
- Spatial prediction and pose estimation techniques
- For crowd management, safety & security surveillance applications

### TwinVision

- 3D base map, modelled replica of a locale, for operator console
- Live data - dynamic virtual representations of activities and analyses outcomes
- For safety & security and facilities management

### Enterprise Maps Platform

- Geolocated information on infrastructure, facilities and events
- Cloud-based web applications (map widgets)
- For organisation-wide /crowd-sourced information presented in map format



# KINETICS TRAINING SOLUTIONS

## Extended Reality Solutions

Our Extended Reality solutions offer immersive and interactive training experiences. Users can practise complex maintenance procedures, hone collaborative skills for multi-person tasks, and explore new environments – all within the confines of low-risk virtual environments.



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### Key Applications:

1. Enhanced training and design visualisation
2. Simulation training
3. Guided workflow / remote assist for training operations

- Bespoke solutions for wide range of use cases
- Microsoft Mixed Reality Gold Partner in Asia Pacific and preferred Microsoft Industry Solutions Partner
- Ability to conduct multi-location remote collaborative training



## 4-degrees-of-freedom (4-DOF) Driving Simulator

This driving simulator combines a compact design with a lightweight build. Portability is enhanced when paired with a head-mounted display, making it ideal for just-in-time training at onsite locations. With 4 degrees-of-freedom (4-DOF) motion, its precise tactile feedback accurately recreates a realistic driving experience.

- Superior portability with its compact design and lightweight build
- Compatible with various immersive visual displays (e.g. XR head mounted displays)
- Customisable driving dashboard for different vehicle layouts and training needs

# Specialised Driving and Technical Training

Our comprehensive training services include specialised driving training and technical training for technicians. Emphasising safety and precision, our rigorous programmes ensure readiness of drivers for deployment and fleet reliability.

- Technology integration for simulated training experience
- ISO-certified (ISO 9001, ISO 14001, ISO 45001)

# Operations and Maintenance Support for Shooting Simulators and Ranges

We ensure the safe operation and robust maintenance of simulated and live firing systems, both locally and overseas. Our comprehensive services cover pre-range operations, range conduct, and range recovery. Our team includes weapon coaches and trainers skilled in conducting technical ranges with static and moving targets.

- Provision of expert feedback on marksmanship and gunnery skills
- Technology integration for enhanced user experience
- ISO-certified (ISO 9001, ISO 14001, ISO 45001)

# Drone Training

Our drone-piloting programmes adopt a blended learning approach for trainees to effectively master flight techniques for commercial-off-the-shelf drones.

- Extensive test banks and expert guidance from seasoned unmanned aircraft pilots ensure exceptional operational proficiency
- Immersive technology integration



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# Business Process Outsourcing

**EMPOWER YOUR BUSINESS WITH OUR EXPERT BPO SOLUTIONS**

Create capacity, navigate change, and deliver positive experiences with our tailored Business Process Outsourcing (BPO) services, enabling you to focus on growth and success.

## Finance and Payroll

Tailored solutions to optimise finance and payroll management.

- Enhanced procure-to-pay process and accelerated order-to-cash process for efficient operations
- Optimised fixed assets and inventory management to maximise returns
- Streamlined payroll, benefits and claims management for hassle-free employee compensation and well-being
- Simplified grant management processes to ensure compliance and maximise cost savings



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# HR and Customer Care

Strengthen HR and customer care operations via advanced tools and insights.

- Comprehensive end-to-end support with tailored solutions to align with unique requirements
- Streamline processes and enhance service quality with Innovation and continuous improvement
- Expertise in compliance and transition management



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# Training and Development

Empower the team with customised training and development solutions.

- Managed Learning Services to streamline training processes, cut operational costs, and elevate your workforce's expertise
- Access a vast array of learning resources, courses, and training materials on a cloud-based platform
- Fast-track change adoption with the PROSCI Change Management Methodology
- Robotic Process Automation (RPA) to automate tasks for swift responses and peak efficiency



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# Advisory and Consultancy Solutions

Customised advisory and consultancy solutions to ensure data security, regulatory compliance and reinforce trust with customers.

- Triple E Framework for Data Protection Trustmark (DPTM) Readiness, ensuring maximum efficiency and compliance with sectoral regulations and your organisation's unique data governance structure
- Policy and process enhancement via policy evaluations and gap analysis to ensure compliance with the latest standards, assuring legal compliance and building a competitive edge
- Personalised and customisable advice and training during the engagement for knowledge retention and long-term sustainability

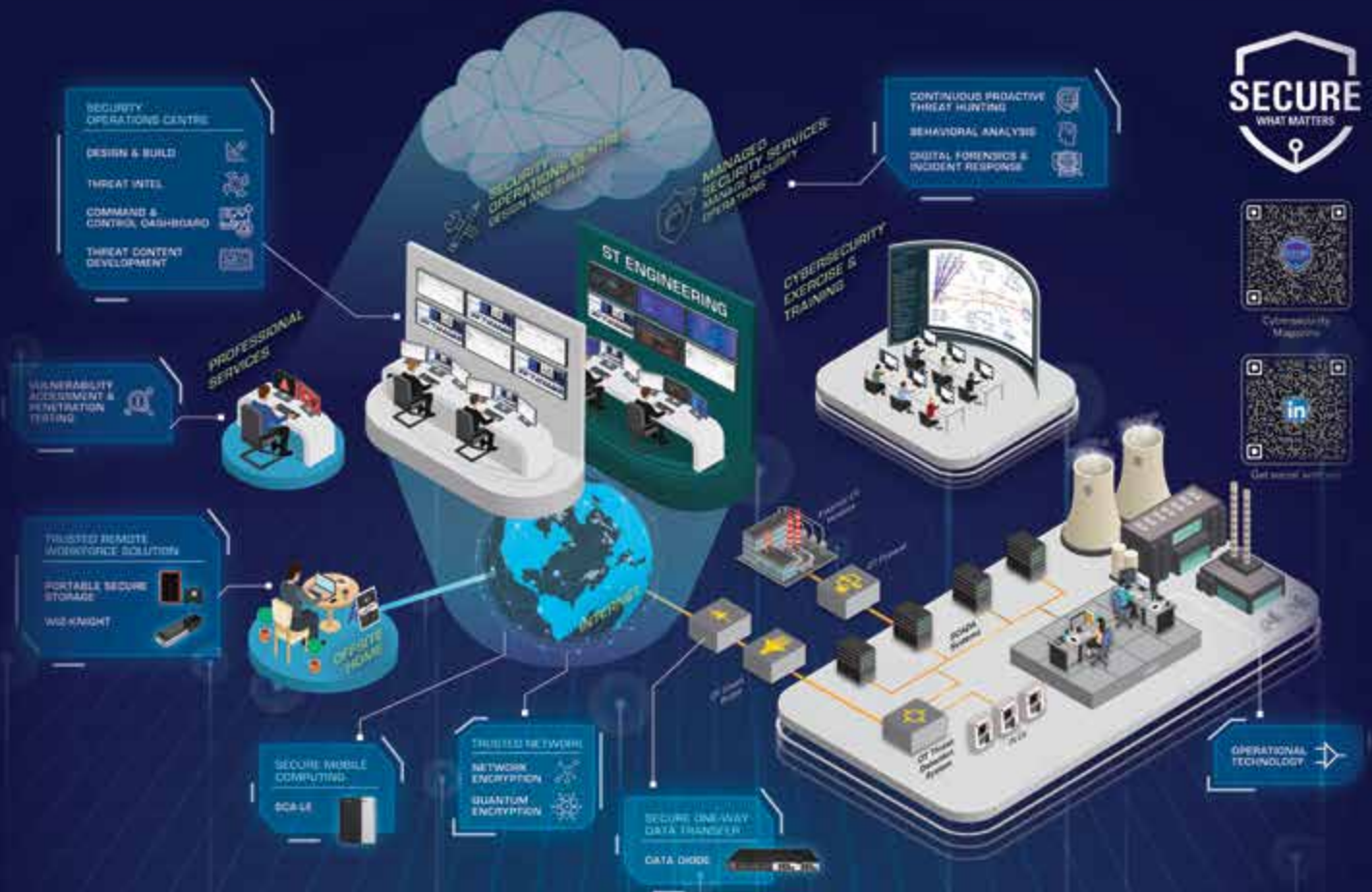


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Business Process Outsourcing

# CYBER CAPABILITY



SECURING ENTERPRISE AND INDUSTRIAL CONTROL SYSTEM & OPERATIONAL TECHNOLOGY ENVIRONMENT

# Cyber Capability

A trusted cybersecurity leader in safeguarding government, critical infrastructure, and enterprises with unparalleled cyber resilience. Our comprehensive suite of cybersecurity solutions is backed by deep domain expertise and a proven track record, offering end-to-end capabilities.



# Cybersecurity Hardware Products

Our all-in-one interoperable solution includes encryptors, cross-domain systems and secure mobile computing, alongside cloud security software. A seamless fit into any architecture, our award-winning solutions meet stringent global standards.



## WiZ-Knight/ WiZ-Knight Cloud

### Mobile Encryptors

Our WiZ-Knight is the world's smallest portable Wi-Fi encryptor dongle equipped with 2FA, designed to secure remote communications by isolating endpoints and encrypting data traffic over public networks. Ideal for defence and remote workforces accessing sensitive information, it ensures secure connections whether used on-premises or in the cloud.

- Smallest portable encryptor, leading to small carbon footprints
- Centralised management and control
- Multi-authentication support



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## Data Diode

### Network Data Diode

Our unidirection gateway features a patented, proprietary file loss technology, ensuring unparalleled data integrity. This high-throughput data diode, with the smallest footprint in its class, integrates essential components into a sleek, compact design. It supports embedded applications like file cleansing and detection capabilities, making it a powerful tool for secure data transfer.

- File loss detection capability
- High throughput
- Integration of external embedded applications



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## Secure Computing Anywhere (SCA-LE)

### Mobile Computing

Our SCA-LE zero client is a lightweight, portable device designed for secure access to systems. It connects effortlessly via any internet connection (wireless or wired) and requires just a monitor, keyboard, and mouse. With no hard disk, it is protected from ransomware encryption methods. Its secure application delivery system minimises the risk of malware, making it an ideal choice for secure, hassle-free remote access.

- Portable in size and weight
- Ease of use requiring very few steps to set up a secure connection
- Secure boot feature with a trusted protection module for encryption keys and a secure application delivery mechanism



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# Cybersecurity Solutions: System Engineering and Solutions

Our team designed, architect, implemented and operated more than 20 SOC spanning cross IT, OT and cloud environments for government, CILs and enterprises. This expertise has cultivated a team specialising in threat content development, threat intelligence and C2 dashboards.



## Threat Content Development

### Comprehensive Threat Detection Use Cases

Our Security Operation Centre (SOC) is designed, built, and delivered with our comprehensive threat content library contextualised to our specific customers ensuring effective detection of threats across all phases of security operations.

- Leverages Generative AI
- Domain expertise



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## Cyber Threat Intelligence (CTI)

### Enabling Threat Intelligence-led Operations

Our AI-enabled cyber threat intelligence fully automates intel translation with Natural Language Processing, delivering valuable and actionable insights for informed decision-making.

- Fully automated with AI capability
- Translates to natural language model
- Contextualised intelligence

## Command And Control Dashboard (C2 Dashboard)

### Elevating Cyber Situational Awareness

Our C2 Dashboard elevates security operations with its cognitive visualisation capabilities, highlighting critical data to enhance situational awareness and helps to support effective decision making. By presenting key information and insights prominently, it ensures relevant stakeholders make well-informed decisions swiftly and effectively.

- Design thinking approach
- Command and control science
- Cognitive visualisation dashboard

# Cybersecurity Managed and Professional Services

Unlike traditional MSSPs, we offer comprehensive protection by securing the “crown jewels” through intelligence-driven detection and monitoring. Our approach delivers tailored strategies to enhance resiliency and strengthen your security posture.

Our cybersecurity professional services deliver end-to-end solutions that combine strategic planning, proactive security measures, and continuous cyber training. We ensure a comprehensive approach to safeguarding your organisation while building long-term resilience.



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## Managed Security Services Provider (MSSP)

### Managed Detection & Response (MDR)

Our MDR service features continuous proactive threat hunting, behavioural analysis, and a robust digital forensics and incident response. By leveraging advanced threat intelligence, we swiftly detect and address incidents, ensuring comprehensive protection.

- Proactive threat hunting
- Real-time detection and response
- Scalable and modular solutions

# Cyngular ThirdHub

## Cloud Incident Response Automation

Our cloud security monitoring offers proactive threat hunting with automated investigation and response. Its advanced deception capability deceives and uncovers nesting threats, enhancing the threat hunting process and reducing false positives.

- Cloud investigation and response automation
- Real-time threat detection incident response
- Smart deception



# Vulnerability Assessment & Penetration Testing (VAPT)

## Professional Services

Our VAPT is a comprehensive security testing approach designed to identify and address cybersecurity vulnerabilities for networks, wireless, web and mobile applications. It delivers a thorough analysis to strengthen one's cybersecurity posture. Beyond VAPT, we also offer end-to-end services such as threat intelligence, incident response, and security consulting.

- Proven track record
- Comprehensive end-to-end service offering



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# Cybersecurity Training and Exercise

## Professional Services

Our Training and Exercise Academy offers advanced courses such as OT cybersecurity and specialised cyber exercises targeting role-specific training to enhance skills and strengthen your organisation's cybersecurity posture. We also help organisation conduct realistic cyber exercise for C-Suite leaders, IT and cybersecurity professionals.

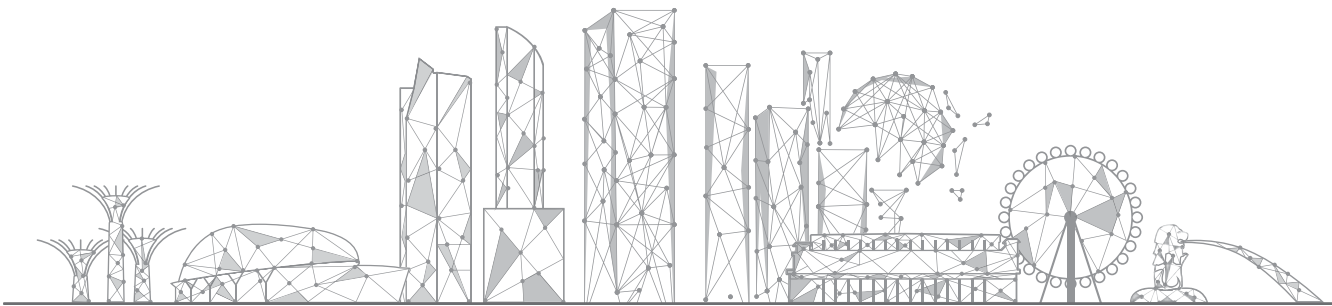


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Cybersecurity Managed and Professional Services





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