

From Armoured Vehicles to Artificial Intelligence Design, Build, Advance



DEFTECH

CORPORATE PROFILE

Member of DRB-HICOM

An Overview of DEFTECH: A Key Industry Player in the Malaysian Defence Sector

A wholly-owned subsidiary of **DRB-HICOM**, one of Malaysia's largest and most diverse groups of companies.

3 Operating Companies



5 Core Businesses



Armoured Vehicles



Specialised Vehicles



Maintenance,
Repair & Overhaul



Unmanned Aerial
Vehicles



Composite Repair
& Fabrication

> 300 experienced employees in

Design | Development | Manufacturing | Supply / Distribution |
Maintenance and Repair

Armoured Vehicle manufacturing plant with NATO-standard test track

Years of Proven Experience

DEFTECH

30 Years

of experience in the Defence Industry relating to the development, assembly, and distribution of armoured vehicles, logistic vehicles and specialised vehicles

Note: A wholly-owned subsidiary of DRB-HICOM, established in 1996

DSSB
Defence Services Sdn Bhd

39 Years

of experience in the Defence Industry relating to Maintenance, Repair and Overhaul ("MRO") of armoured vehicles, logistic vehicles and specialised vehicles

Note: Established in 1987 and became a wholly-owned subsidiary of DEFTECH in 2007

DEFTECH

Aviation

34 Years

of experience in composite repair and manufacturing for the Malaysian aviation industry

Note: Originally established as Eagle Aircraft (Malaysia) Sdn Bhd in 1992 then renamed and became a wholly-owned subsidiary of DEFTECH in 2017

DEFTECH

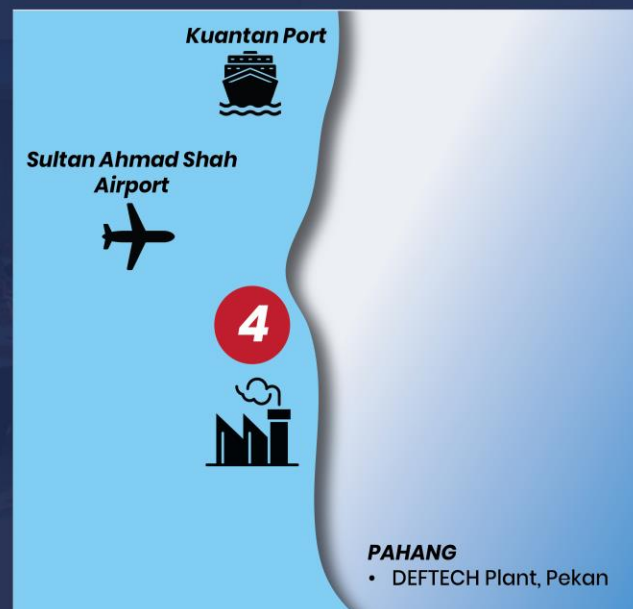
Unmanned Systems

19 Years

of experience in the Unmanned Aerial Vehicle business, with more than **10,000 hours** of long-range operations, over **7,000 hours** of aerial gas pipeline inspection and the management of more than 30 UAV models

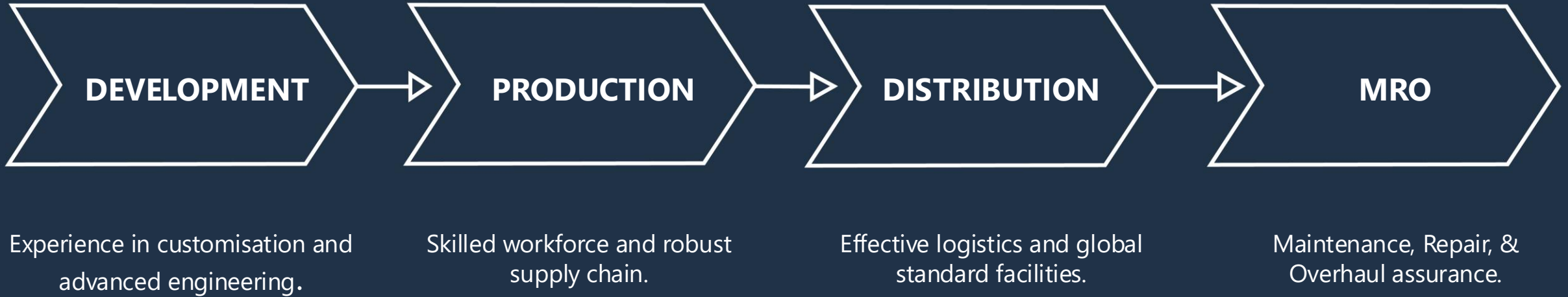
Note: Established in 2007 as UST Sdn Bhd then renamed and became a wholly-owned subsidiary of DEFTECH in 2007

DEFTECH Network – Strategic Office Locations



A COMPLETE & PROVEN ECOSYSTEM

FOR ARMoured VEHICLE



Milestones - Since 1996, DEFTECH has delivered a comprehensive range of military assets, spanning logistics trucks to advanced armoured vehicles



3-TONNE GENERAL SERVICE (GS) CARGO TRUCK

DEFTECH has supplied 3-Tonne GS Cargo / Handalan Trucks for more than 30 years to the Malaysian Armed Forces and various government agencies.

3-Tonne GS Cargo is the main workhorse of the Malaysian Armed Forces and security agencies for general service carrier transporter. The truck is built on a reliable Isuzu FTS 34 chassis, which has been customised to serve as a versatile general service cargo vehicle.

The modification ensures it meets specific operational needs, providing a durable and efficient solution for transporting goods and equipment across various terrains. Vehicle variants include a Multipurpose Mobile Inventory Vehicle, General Service with and without tail-lift, Command Post Vehicle, Mobile Ground Control Station and Field Medical Station.





ACV-300 ADNAN

(ACV-300 ADD-NAN)

The FIRST armoured vehicle assembled in Malaysia, at DEFTECH's Manufacturing Plant in Pekan.

ACV-300 ADNAN features the capabilities of an Infantry Fighting Vehicle (IFV) and an Armoured Personnel Carrier (APC).

LIPAN BARA

(LEE-PAHN BAH-RAH)

A Mine-Resistant Ambush Protected Vehicle with an all-welded steel monocoque V-hull to provide high-level protection against a variety of battlefield threats, including mines and Improvised Explosive Devices (IEDs).



AV8 GEMPITA

(AV8 GEM-PEE-TAH)

The AV8 GEMPITA was the FIRST indigenous armoured vehicle designed, developed, manufactured and supplied for the Malaysian Army.

An amphibious multirole armoured vehicle with a modular design which allows the fitting of different configurations of turrets, weapons, sensors, and communications systems on the same platform.

DEFTECH has developed 12 variants of the AV8 GEMPITA, including an Armoured Personnel Carrier, Infantry Fighting Vehicle, Tank Destroyer, Signals Intelligence Vehicle and Recovery Vehicle.



Other DEFTECH Specialised Vehicles



1-Tonne General Service (GS) Cargo



Multipurpose Mobile Inventory Vehicle (MMIV)



Mobile Ground Control Station (MGCS)



My Grocer



Disaster Relief Vehicle



Field Ambulance



Explosive Ordnance Disposal (EOD)



Light Tactical Vehicle (LTV)

REFURBISHMENT



FERRET SCOUT CAR



RPZ CONDOR 4x4



**SCORPION AND
STORMER**



The vehicle refurbishment programme spanned two decades, beginning with the Ferret Scout Car, followed by the RPZ Condor 4x4 and concluding with the Scorpion and Stormer.

MAINTENANCE, REPAIR AND OVERHAUL



ACV-300 ADNAN



PT-91M PENDEKAR



AV8 GEMPITA

Our MRO expertise spans almost four decades, supporting critical armoured platforms: the ACV-300 ADNAN, PT-91M PENDEKAR, and currently the AV8 GEMPITA, delivering end-to-end spare parts and maintenance solutions.

Tactical Unmanned Aerial Vehicle

Unveiled at Defence Services Asia Exhibition and Conference (March, DSA 2022), it is fully designed and developed in-house by DEFTECH subsidiary, DEFTECH Unmanned Systems. A runway-operated tactical UAV capable of executing detailed autonomous drone operations, allowing for complex operations at minimum risk.

- Maximum take-off weight of 120 kg
- 10-hour endurance
- A range of 100 km
- Operation Altitude 4,000 ft
- Cruise Speed 60 knots
- A payload capacity of 15 kg



Since 2018, **DEFTECH** has experience operating in highly classified operations, critical infrastructure protection and remote monitoring environments where operational risks are inherently elevated and mission failure is not an option.

Operation PXX
(2008 – xxxx)

Operation DXX
(2013-xxxx)

Operation BXX
(2020 – xxxx)

DEFLENS : AI-enabled Aerial Security Surveillance

See More. Detect Faster. Protect Better.

Provides AI-enabled aerial surveillance and actionable intelligence to support critical infrastructure protection.

Key Capabilities:

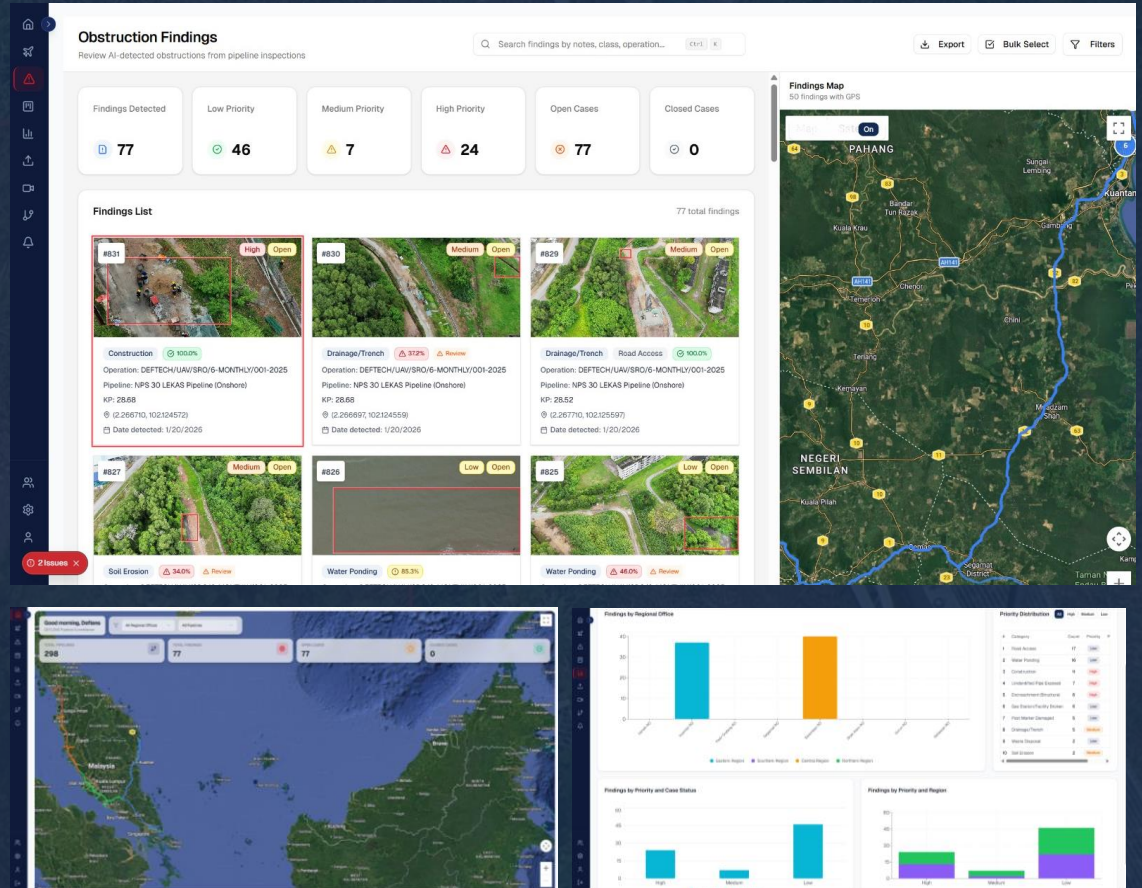
- **AI Detection Engine** – "You Only Look Once" (YOLO) based model with 98%+ accuracy detecting 13 threat categories
- **GPS Intelligence** - Automatic location pinpointing from drone data
- **Instant Reporting** - One-click Excel reports with complete audit trails
- **Multi-Source Input** - Supports HD, Long Range (LoRa), and custom UAV systems

Applications: Pipeline monitoring, perimeter security, and infrastructure surveillance for power lines, railways, and coastal areas.

How It Works: Capture → Analyse → Act

Upload footage, AI detects threats automatically, then review findings and generate reports

Proven Solution: Deployed for major Malaysian pipeline projects with cloud/local hosting options and regulatory compliance built-in.



13 Threat Categories Detected

High Priority

Construction Activity
Exposed Infrastructure
Agricultural Encroachment
Structural Encroachment

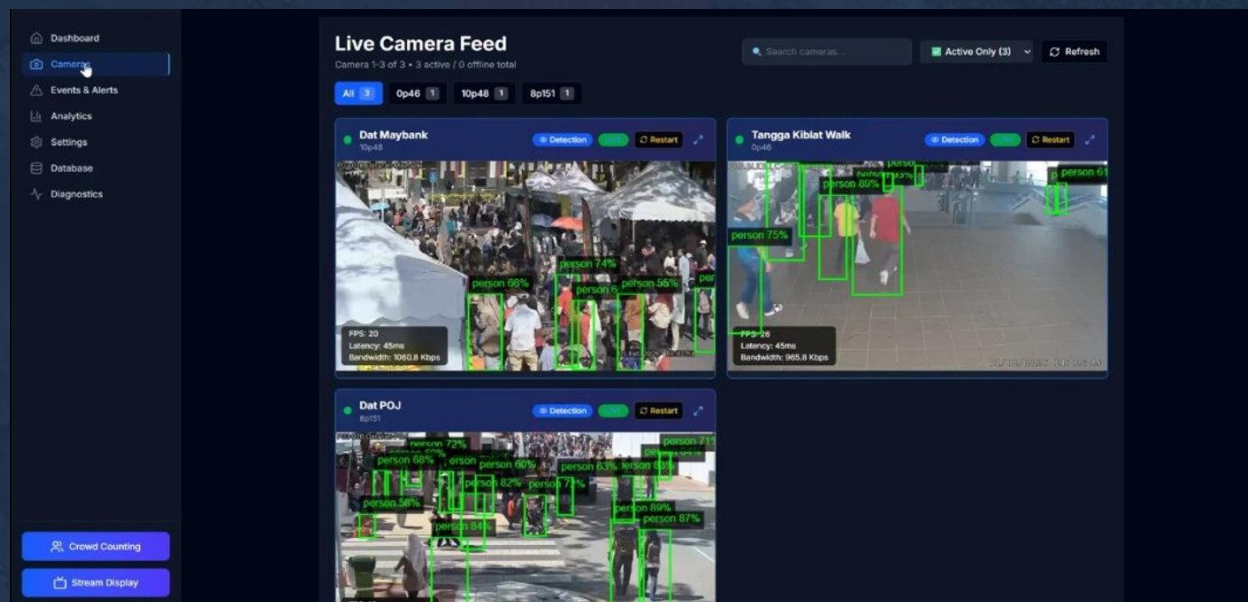
Medium Priority

Soil Erosion
Drainage Issues

Routine Monitoring

Vegetation Growth
Waste Disposal
Road Access Changes
Marker Condition
Water Ponding

IRIS360 : AI-enabled Ground Security Surveillance

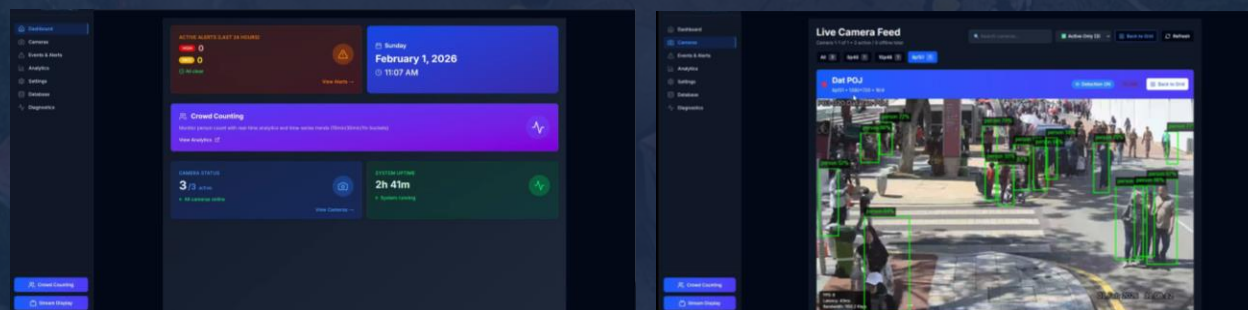


See More. Detect Smarter. Act Faster.

IRIS360 is an AI-powered surveillance platform that transforms CCTV, bodycams and video feeds into real-time actionable intelligence. Designed to enhance situational awareness, it enables faster detection, smarter monitoring, and informed operational decisions.

Key Capabilities:

- Custom AI detection for objects, behaviors, and anomalies
- Intelligent analytics for movement patterns and event insights
- Instant reporting with structured dashboards and audit trails
- Multi-source integration supporting CCTV and network cameras



Applications: Urban monitoring, bus station, railway station, airport, seaport, shopping malls, tourist area, facility security, event surveillance, and traffic management.

How It Works: Capture → Analyse → Act
AI detects, analyses, and delivers insights for rapid response.

HAFEEZ (The Guardian) : AI-enabled Maritime Security Surveillance

AI-Enabled Maritime Defence Operations

Detect Faster. Decide with Confidence.

HAFEEZ is a secure, AI-powered **maritime surveillance** and decision-support platform built for defence operations. It unifies live vessel tracking, smart video analytics, and doctrine-based intelligence into a single operational view — enabling faster, informed decisions in critical situations.

Key Capabilities

Live Vessel Tracking – Real-time monitoring with automatic anomaly detection (unauthorised vessel), coordinates, vessel knot and vessel type

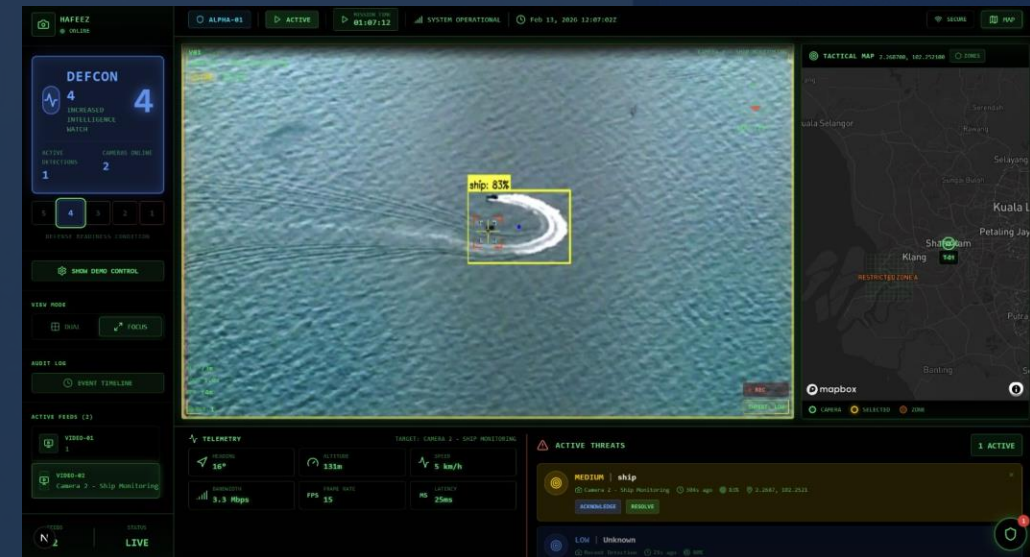
Doctrine Intelligence – Instant answers from your own procedures, with source references.

Smart Video Surveillance – AI detection from UAV and coastal camera feeds.

Audit & Accountability – Automatic logging of alerts, analysis, and decisions.

Mission Applications

Maritime domain awareness, coastal security, naval operations support, border protection, and offshore asset monitoring.





DEFTECH FACILITIES

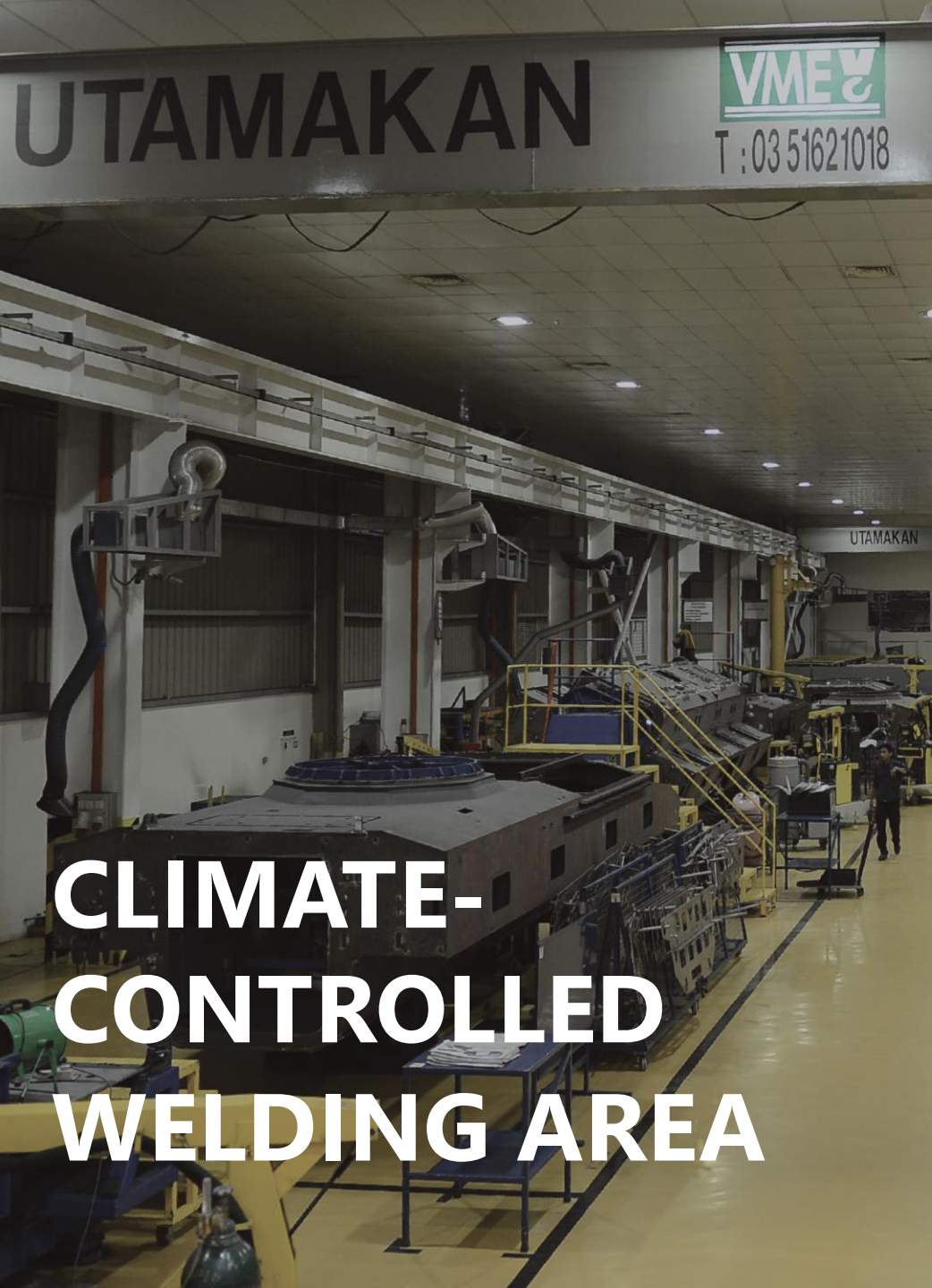


Our manufacturing plant represents a significant milestone in armoured vehicle production, having achieved full operational status in 2001. The facility encompasses an expansive 29.1-acre site, strategically designed to optimise production efficiency and workflow.

The main production building spans an impressive 807.6 metres in length and 160 metres in width, providing a substantial built-up floor area of 35,000 square metres. This infrastructure supports structured assembly operations and integrated quality control processes.

The full range of facilities including a NATO-standard Test Track that demonstrates our commitment to efficient precision manufacturing and stringent quality standards that meet international defence specifications.







PAINT SHOP



DEFTECH Pekan Plant - hosts the sole NATO standard test track in the country



Side Slope



Vertical Obstacle



Gradient 60% & 70%



Shower Test

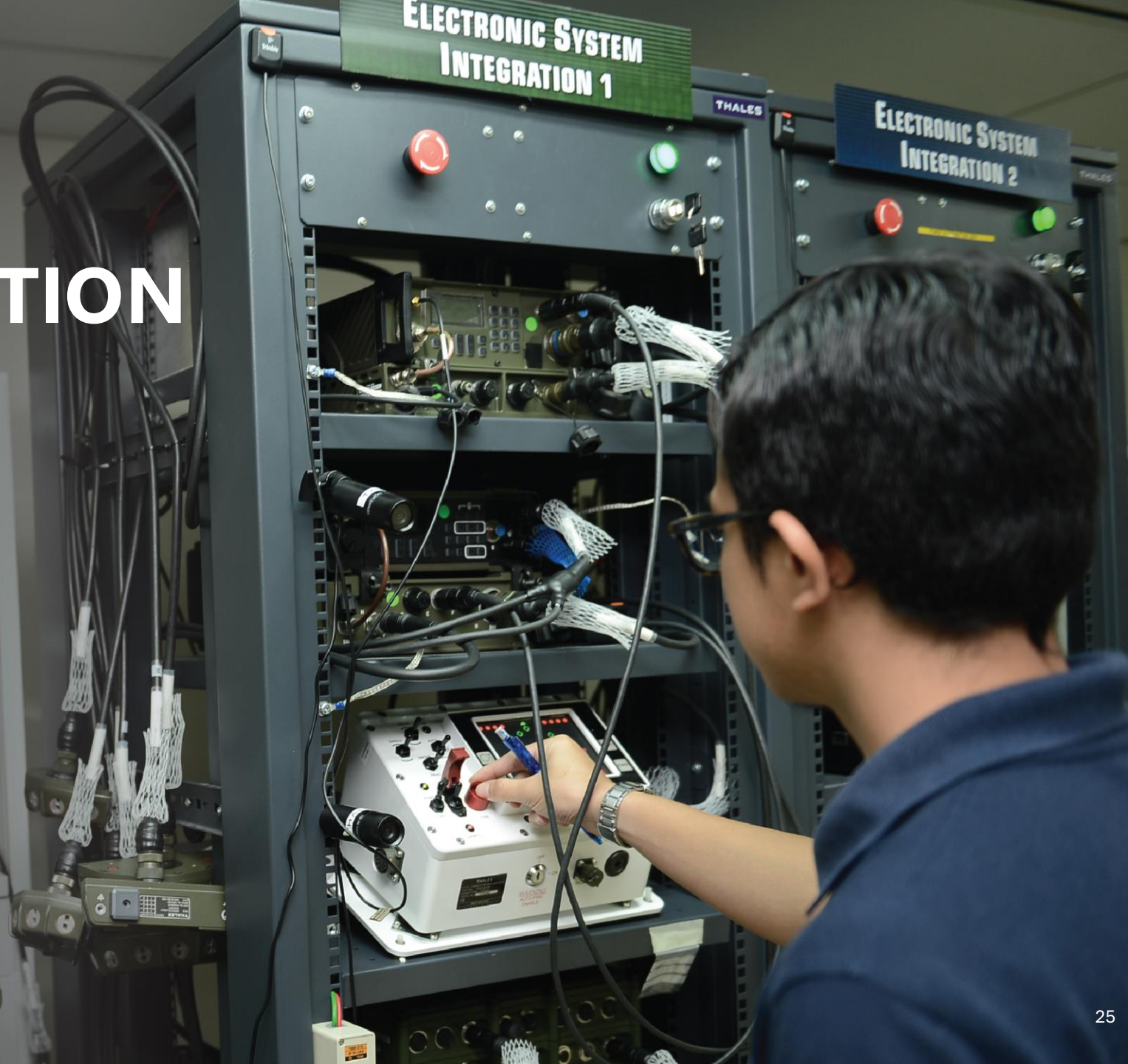


Fording / Swimming
3-Metre Pool

SYSTEMS INTEGRATION LABORATORY (SIL)

The Systems Integration Laboratory ("SIL") supports structured testing, diagnostics, and validation of electronic systems for both armoured and commercial vehicles.

By ensuring total compatibility and peak performance before installation, the SIL guarantees that our products, whether for the battlefield or the boardroom, meet the highest industry standards of reliability and safety.



A man in a blue polo shirt is seen from the side, operating a complex radar test bench. The bench features a green radar unit with two large circular lenses mounted on a black base. To the right of the radar unit is a white control box with a handle. The entire setup is on a wooden workbench. In the background, there are various electronic equipment racks and a glass-enclosed area. A red and white safety sign is visible on the wall.

VINGTAQS II RADAR TEST BENCH SYSTEMS

The Vingtaqs II Test Bench provides a controlled environment to validate and demonstrate the full capabilities of the Vingtaqs II mobile observation, surveillance, and target acquisition system. Through integrated laser ranging and video sensing, the test bench enables accurate long-range target positioning, real-time video streaming, and networked data sharing.

It supports assessment of time-sensitive targeting workflows and reconnaissance-strike integration across roles such as forward observation, JTAC, border surveillance, and special operations, ensuring operational readiness and information superiority.

TURRET MANUFACTURING

Turret manufacturing is a precision-driven process that integrates mechanical assembly, electrical integration, and system-level verification. As shown, skilled technicians perform hands-on installation and inspection of critical subsystems beneath the turret structure, ensuring correct alignment, connectivity, and functionality.

This stage is vital to guarantee smooth traverse and elevation, reliable power and signal distribution, and overall system integrity. Through controlled assembly procedures and rigorous quality checks, we ensure a robust, combat-ready platform that meets stringent operational and safety requirements.



LIGHT COMBAT TURRET ("LCT30") & ANTI-TANK GUIDED WEAPON (ATGW) TEST BENCH

The test bench is a dedicated, computer-controlled system designed to verify and validate the functionality of Line Replaceable Units (LRUs) installed on the Armoured Vehicle 8x8 (AV8).

It provides a controlled test environment to perform comprehensive diagnostic, functional, and integration testing for both LCT30 and ATGW subsystems. By simulating operational conditions, the test bench ensures system reliability, accurate fault isolation, and readiness of fire control, sighting, and weapon control components before deployment or reinstallation on the vehicle.

OPTRONIC CLEAN ROOM

The Catherine XP Test Bench provides a controlled, optronic clean room environment for precise testing, calibration, and validation of the Catherine XP thermal imaging system. Equipped with dedicated interfaces, alignment fixtures, and real-time video monitoring, the test bench enables accurate performance verification of detector functionality, image quality, and system stability.

This setup ensures compliance with stringent optical and environmental standards, supporting reliable integration into combat and surveillance platforms while maintaining high levels of operational readiness and product quality.



Partnering For The Future Of Defence Solutions

DEFTECH

THANK YOU



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DRB-HICOM Defence Technologies (DEFTECH)



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