

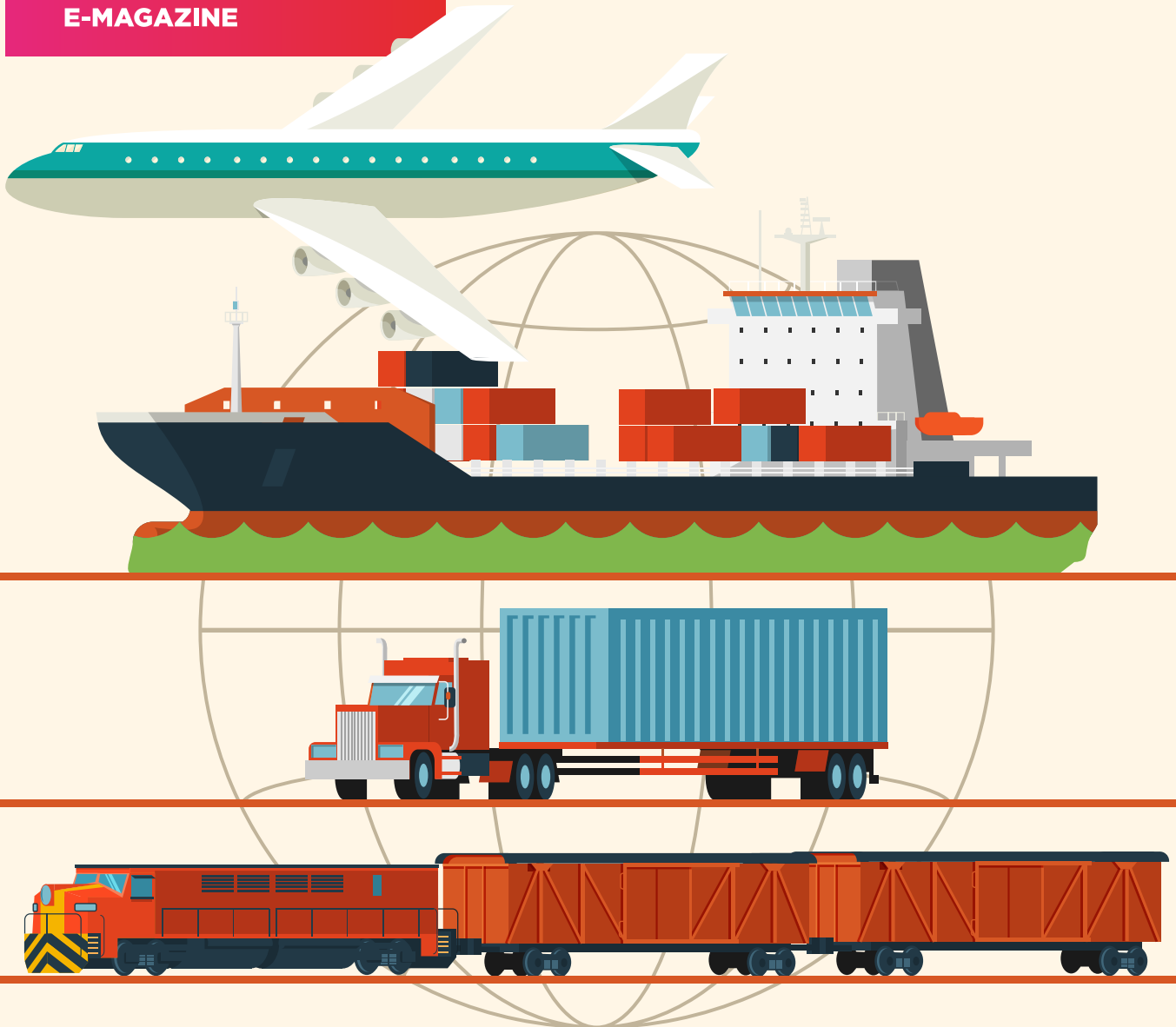
EXCLUSIVE FROM MALAYSIA

EFM

E-MAGAZINE

ADVANCING BEYOND BOUNDARIES

ISSUE #004, NOVEMBER 2019



AEROSPACE, LOGISTICS, MARITIME & RAIL

MEETING YOUR GLOBAL NEEDS

Produced by:



MALAYSIA EXTERNAL TRADE DEVELOPMENT CORPORATION

CEO's NOTE

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WELCOME yet again to another issue of "Exclusive From Malaysia" (EFM) eMagazine. This time, we delve into the aerospace, rail, maritime and logistics industries. With great tenacity and perseverance, these companies have gained a foothold across the globe, generating awareness for ISO-compliant Malaysian brands that have come to be trusted by all.

We have, thus far, featured the home & living, lifestyle industry; manufacturing industry; oil & gas and chemical industries in our previous issues. To conclude the year, we bring to you Malaysian products and services of the highest quality, catering to your business undertakings across continents, on open waters and above the clouds. Our

homegrown companies offer internationally-recognised solutions to the global market, with footprints extending all across Europe, Asia and the Americas.

These offerings are extensive; from manufacturers of automotive air-conditioning services, state-of-the-art injection and extrusion machines, customised solutions for shipbuilding to comprehensive logistics covering the entire supply chain management, full-scale aircraft design and analysis, and commissioned trackwork. You can rest assured that your business needs will be provided for.

It is our sincere wish that EFM will act as a catalyst to propel your business as you move your business into blue oceans and redefine your market boundaries in the era of Industry 4.0. We trust that the information in the issue will provide you with a solid launchpad and opportunity to find the right Malaysian partners. Thank you for staying tuned, enjoy and until the next release, we wish you the best in your endeavours.

Wan Latiff Wan Musa (Dato')

Chief Executive Officer

Malaysia External Trade Development Corporation (MATRADE)

EXCLUSIVE FROM MALAYSIA



ADVANCING BEYOND BOUNDARIES

EFM is an exclusive quarterly e-magazine, showcasing world-class Malaysian services and quality products. It is a reference for global partners and buyers who seek to extend their sourcing needs, thus elevating their business potential.

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PUSHING THE ASEAN AVIATION INDUSTRY TO NEW HEIGHTS



Line maintenance staff hard at work

THE aviation industry in the Asia-Pacific region is undoubtedly one of the fastest growing in the world. Spurred by rapid development and the rise of developing economies, it comes as no surprise that this region is a world leader in the growth of aviation.

Nestled in this region is the Association of Southeast Asian Nations (ASEAN), one of the main driving forces (along with China), behind this growth. The ASEAN aviation industry is backed by strong maintenance, repair and overhaul (MRO) presence, increasingly popular budget airlines, and up-and-coming aviation service providers. One such example is the Dviation Group of Companies.

Dviation, a specialist in providing turnkey solutions for airlines and aviation organisations, was established in 2012, with aircraft maintenance and technical training as its two focuses. Since its inception, the company has now expanded to provide five main services, namely, technical training, aircraft maintenance, recruitment, Fleet Technical Management (FTM)/Continuing Airworthiness Management Organisation (CAMO), and aviation consultancy.

In an industry such as aviation, where safety is of utmost priority, there is no room for error in the aircraft maintenance sector. It is essential that technicians, engineers, and other ground crew are, not only highly skilled, but also properly trained. As a rising leader in its field, Dviation takes upon itself the responsibility to recruit, train, and

provide only the best in the region. As a result, the company's recruitment, training, and maintenance business units have proven to be sought-after, with industry partners spread across the globe.

Dviation's pool of consultants and trainers have an average industry experience of 35 years in Asia, Europe, as well as the Middle East. With this experience comes a spectrum of consultancy services specialising in:

- i. Aircraft Market Analysis
- ii. Fleet Strategy and Planning
- iii. Aircraft Modification Programme Management
- iv. Airline Project Management (Entry into Service)
- v. Leased Asset Management
- vi. Asset Disposal

Owing to the existence of one-stop aviation solution providers like Dviation, gone are the days of inhouse reliance and the complications of coordinating multiple external contractors. Starting from the decision to purchase an aircraft, to its life-cycle needs for maintenance support, through to its end-of-life and ultimate tearing down and scrapping, airlines and operators can rest assured that Dviation has it all covered.

Counting among its many blue-chip clients are flag carriers such as Malaysia Airlines, Royal Brunei Airlines, Shanghai Airlines, EVA Air, and many more, who serve as a testament to Dviation's capabilities and expertise.

REGIONAL PIONEERS IN TECHNICAL TRAINING

Among a plethora of achievements under its belt, Dviation is proud to have brought technical training courses that were not readily available in Malaysia and the neighbouring region, through collaborations with European training providers. This has liberalised the market and now, more people are able to fulfil their dream of being an aircraft maintenance engineer. Similarly, this has opened doors to unrivalled opportunities, such as, the ability to work on the latest generation of commercial aircraft - including the likes of Airbus A350 and Boeing 787.

Acutely aware that aviation is a highly regulated, Dviation has invested considerably in training highly skilled and competent experts as well as in specialised tooling and equipment to perform such services to the highest levels of quality.

It is among a handful of independent organisations in Malaysia holding multiple approvals from European Aviation Safety Agency (EASA), Civil Aviation authority of Malaysia (CAAM), and various national aviation authorities, allowing the company to perform training and maintenance, repair and overhaul (MRO) services.

SMART SOLUTIONS FOR EVERY CLIENT

Dviation's competitive advantage stems from its ability to provide highly customised, integrated and smart solutions to airlines, operators, owners and MRO's alike.

The Dviation Group Holdings currently has 10 subsidiaries and joint venture companies in Malaysia and overseas, including Yangon, Ho Chi Minh City, Jakarta, Phnom Penh and Zurich.

COMPANY HIGHLIGHTS

- Trained over 5,000 industry professionals from all levels
- Served more than 100 clients spanning 5 continents
- Supplied over 700,000 man-hours of skilled labour to industry
- Helped clients achieve more than 35% cost savings
- CAAM/EASA Approved Engineers, Instructors & Assessors

Achievement

- MATRADE Best Youth Exporter Awardee 2018

International Certifications

- CAA Nepal AMO
- DCA Aruba AMO
- CAA China AMO
- DGCA Indonesia AMO
- MOLIT Korea AMO
- Taiwan CAA AMO
- EASA ATO (Croatia CAA)
- Cambodia SSCA ATO



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ENGINEERING, CONSULTANCY SERVICES FOR AEROSPACE INDUSTRY

Engineering solutions with integrated design and analysis services is Strand's core business.



Airbus A320, commercial passenger twin-engine jet airliner

STRAND AEROSPACE MALAYSIA SDN BHD is an engineering and technology company, specialising in providing high-value design and analysis services for aerospace. It is also involved in consulting services for the Malaysian aerospace supply chain and providing tailored solutions using big data and Internet of Things (IoT) across different industries. Its international aerospace clientele includes those from the UK, Germany, Turkey, Japan, and Korea

ENGINEERING DESIGN & ANALYSIS

Strand's design and analysis capabilities are drawn from its extensive experience in aerostructure design. From a simple 2D to 3D conversion, all the way to a full-scale aircraft structure design and analysis, Strand has successfully delivered over 1000 engineering work packages over the last 13 years. These work packages involve applications of niche engineering capabilities such as Finite Element Modelling/Analysis (FEA), static metallic and composite analysis as well as Fatigue and Damage Tolerance (F&DT) analysis. Strand also provides engineering support for manufacturing through tooling and fixture design, as well as engineering support for in-service aircraft through aircraft structural modifications design and analysis.

STRONG, PROVEN HERITAGE

Established in 2006, Strand has experience in handling new aircraft programmes and legacy programmes. Strand has been comprehensively involved in various aircraft programmes, ranging from conceptual design up until DFM. Strand also has experience in relaunching & modernisation of aircraft programmes. Relaunch and modernisation programmes are very different from a new programme; they are generally more constrained and requires a unique perspective that is not easily found in typical engineering services organisations. Strand is also involved in manufacturing support, concessions and in-service modification support for various aerospace Tier 1s and OEMs.

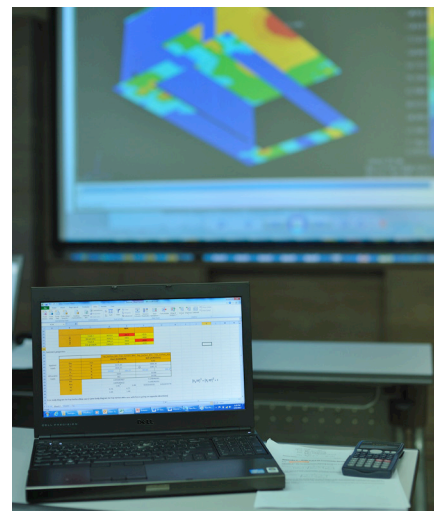
Leveraging from Strand's aerospace heritage, Strand has diversified its offerings into other industries, such as Oil and Gas, Marine and Rail, serving both local and international markets.

POSITIONED TO HELP

As one of the core members of the Malaysian Aerospace Industry Association (MAIA), Strand adds value to their customers by having a strong network of aerospace suppliers and manufacturers that can support complex requirements. Through its network, Strand is poised to offer a complete solution for the customers by leveraging on various capabilities of Malaysian aerospace players.

POWERING THE FUTURE

Strand today leads the Malaysian aerospace industry in engineering and consultancy services specialising in aerospace. With its world-class aerospace engineering capabilities, Strand is working towards accelerating the transformation of Malaysia into one of the key global aerospace nations.



Achievement

- Best Exporters Program by SME Bank

Certifications

- AS 9100:D/JISQ 9100:2016/EN 9100:2016
- ISO 9001:2015

STRAND

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FINDING SUCCESS WITH ADVANCED AERO-ENGINE TECHNOLOGY

UMW Aerospace, engine component maker to Rolls-Royce, moves to create new high-value hard metal machining businesses.



UMW AEROSPACE SDN BHD'S core competencies and business activities include titanium machining, numerical control programming and machining, and complex aerospace assembly.

The others are non-destructive testing (NDT) – fluorescent penetrant inspection, NDT – radiographic testing, clean room operation, bonding and bond curing process, grit blasting, spray printing process, high precision titanium welding, and vane filling.

TIER-1 AERO-ENGINE COMPONENT MAKER

With the agreement, UMW Aerospace has now become the first Malaysian company to be a tier-1 aerospace engine component manufacturer to Rolls-Royce.

Its manufacturing plant in Serendah, Selangor, is tailor-made to support the Rolls-Royce engine assembly plant in Seletar, Singapore.

This is in line with Rolls-Royce's strategic intent to build a supply chain in the Asia Pacific region.

REAPING THE BENEFITS

A subsidiary of UMW Manufacturing &

Engineering Division, UMW Aerospace's 25+5-year agreement with Rolls-Royce plc to manufacture and assemble fan cases for Rolls-Royce Trent 1000 and Trent 7000 aero engines – which power the Boeing 787 Dreamliner and Airbus A330 neo aircraft – stands it in good stead for the future.

One of the key reasons is, both Trent engines are the most advanced in aero engine technology, with increased fuel efficiency and noise reduction.

UP-TO-SPEED TEAM

UMW Aerospace will be providing highly skilled employment comprising engineers, skilled workers and management personnel in the area of high-value hard metal machining (HVM).

The fan case manufacturing project has been recognised as one of the quality investment projects in Malaysia.

NEW FRONTIERS

By undertaking the Rolls-Royce fan case manufacturing project, UMW is able to leverage internal engineering capabilities to deliver quality high-value products and create new HVM/aerospace businesses via existing or new business units.

Achievements

- From ground zero to delivery within 27 months – a new benchmark. The previous record was three years by Fly Spa Italy
- Passed Supplier Planning Assessment with 83/100 points – a new benchmark for new set-up operation
- Achieved welding right-first-time of 90% rate
- Comprehensive and systematic competency development and assessment via 5-Step pack
- Compressed Fixed Process Approval process with average approval duration of 3 months instead of the standard 4 months
- Steep ramp-up from 6 to 250 units in five years – work in progress

Qualified Level 3 NDT within two years:

- First female to achieve NDT Level 3 in Malaysia
- First person in Malaysia to gain NDT Level 3 in digital radiography for the aerospace sector
- Sixth person in Malaysia to achieve NDT Level 3 in the aerospace sector

Qualified 10 titanium welders in three-year period:

- Ambidextrous welders
- Qualified via international standard and customised Rolls-Royce programme
- Achieved gold standard in Method of Manufacture documentations – best-in-class practice among Rolls-Royce supply chain facilities

Certifications

- AS9100 Rev D
- SABRe-2
- CAA/EASA part 21 POA
- NADCAP – Chemical Processing
- NADCAP – NDT
- NADCAP – Welding
- OHSAS 18001-2007



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AUTOMOTIVE SOLUTIONS LEADER ON GLOBAL EXPANSION DRIVE

Underpinned by engineering and R&D capabilities, APM is on the way to becoming a globally preferred innovative mobility solutions provider



MALAYSIAN automotive parts manufacturer APM Automotive Holdings Bhd, which has achieved numerous industry firsts, has grown to be a major regional supplier and is now increasing its global market reach.

Despite the highly competitive environment in Malaysia, APM is still at the forefront of the industry and a clear leader in many areas.

These include design and manufacture of bus and van seats, and leaf springs, the latter exported to Europe, ASEAN and North America.

COMPLETE SUSPENSION KITS

APM has in-depth technical and technological know-how to comply with international standards.

Its suspension division is one of the world's few manufacturers of leaf springs, coil springs, U-bolts, shock absorbers and auxiliary components all under one roof.

These facilities enable APM to provide added advantages to customers in terms of convenience and availability of complete suspension kits such as its Shokz 4x4 suspension kit for comfort and stability.

OTHER APM PRODUCTS

Other automotive parts and components that it manufactures include automotive seatings, radiators, plastic injection and extrusion parts, alternators, starter motors, windshield washer systems and car air-conditioners.

APM-made seats are crafted to incorporate and integrate the most complex form of designs, i.e. the human form.

Meanwhile, APM's wide and versatile ranges of injection and extrusion machines ensure quality and precision manufacturing of the interior and exterior plastic parts of automobiles.

ECO-FRIENDLY AC SYSTEMS

As to car air-conditioners, APM is poised to be the major manufacturer of quality air-conditioning systems and components as it is equipped with the latest technology and state-of-the-art equipment.

APM's air-conditioning systems only use the environmentally friendly R134a refrigerant.

GLOBAL MARKET REACH

APM has expanded its overseas operations to ASEAN member countries such as Vietnam, Indonesia, Thailand and Myanmar; and to the US. They will be APM's key business in the future.

Furthermore, it has a strong presence in Australia and recently opened a new facility in the Netherlands to meet the growing demand for its products in the European automotive industry.

It is also expanding its reach to India in view of the latter's changing automotive landscape.

EV TECHNOLOGY FOR BUSES

Together with its counterparts, APM is currently in a venture involving the technology and development of electric vehicle (EV), in this case, buses.

It's just a matter of time before the APM group produces and capitalises on its own EV technology.

QUALITY AND SATISFACTION ASSURED

APM is highly regarded in terms of quality, safety, on-time delivery, innovation and other aspects. It continues to maintain its upward trajectory and strives to become a globally preferred automotive solutions provider.

Achievements

- National Quality Manufacturing Award by Prime Minister of Malaysia
- World Excellence Awards by Ford Motor Company (USA)
- Malaysia Productivity and Innovative Class Member
- HR Asia Best Companies To Work For In Asia Awards 2018
- BestBrands Awards by The BrandLaureate
- 2016 Outstanding Quality Performance by UMW-Toyota
- 2016 Outstanding Delivery Performance by UMW-Toyota
- 2018 Overall Best Supplier Award by Honda Malaysia

Certifications

- IATF 16949
- ISO 14001



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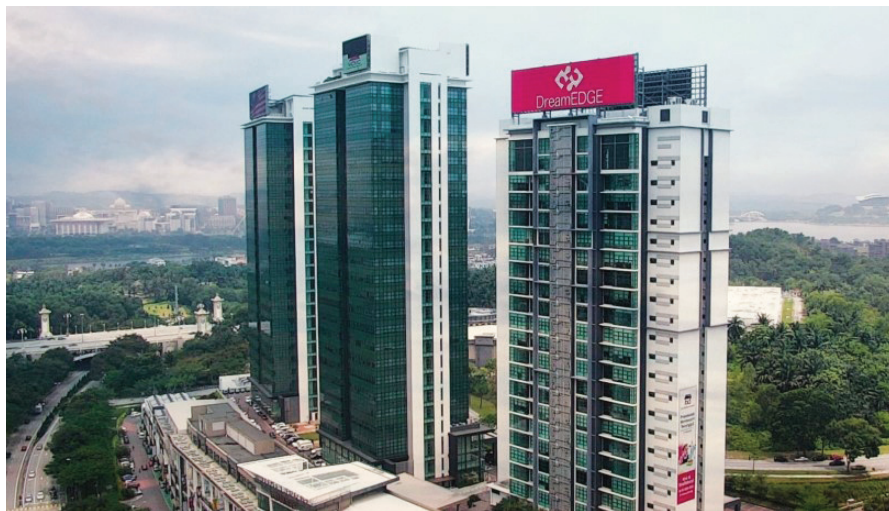
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ENGINEERING SOLUTIONS FOR VARIOUS INNOVATION TYPES

DreamEDGE offers a multitude of innovative services and solutions to improve lives anywhere.



CREATING NEW MARKETS

Established in 2007 and headquartered in global tech hub Cyberjaya, DreamEDGE today has business operations not only in Malaysia but also office and facilities in Japan's Tokyo and Turkey's Ankara.

Its CEO and founder, Mr Khairil Adri Adnan, believes that Malaysia has some of the best engineers in the world and can easily work anywhere and for anyone. Thus, it has huge potential to be the digital engineering services hub for the region.

He sees bright prospects in digital engineering technology and aspires for DreamEDGE to be the leader in innovation, turning out revolutionary products as it creates new markets in Malaysia with Industry 4.0, the current trend of automation and data exchange in manufacturing technologies.

“WE have the talent. You have the dream” is more than just a tagline of

DreamEDGE Sdn Bhd.

Its broad services capability assists clients to realise their ideas, from product and process innovation to business and service innovation.

The company is passionate about further propelling the advancement of Malaysia's engineering services sector to thrive and grow.

This is in line with its aspiration to position the country as a world-class engineering services hub of the region.

INNOVATING THE FUTURE

DreamEDGE is one of Malaysia's premier engineering services providers.

In innovating the future, it offers value-added digital engineering services to clients across industry verticals such as automotive, heavy industries, rail, electronics, energy, defence, precision equipment and tooling design.

Its engineering team of more than 100 talents has all the capabilities to help clients to not only stay on track but also stay ahead of the emerging trends in the next phase of industry's evolution so that clients will gain from the benefits the industry has to offer.

SUCCESS BEGETS SUCCESS

DreamEDGE's has been successful in securing a significant number of contracts in the areas of design and R&D works from multinational corporations and companies in Japan, the United Kingdom, Austria, Brazil, Saudi Arabia and the United Arab Emirates.

Whether as a product partner or solutions provider, these accomplishments on the international front have established the confidence in DreamEDGE's capabilities.

In the automotive sector, DreamEDGE has been appointed in 2019 to take charge of developing Malaysia's third national car, and in 2015 was appointed by a local original equipment manufacturer (OEM) as its turnkey project first-tier consultant for front-loading new vehicle development activities.

NO JOB TOO SMALL

The contracts can range from a few thousand Malaysian ringgit for small-scale engineering deliverables to millions of ringgit for turnkey projects such as new vehicle development involving design, prototype development and developing the systems for mass production.



DreamEDGE's electric bus

Achievements

- MATRADE Export Award Recipient 2018: Services Category – Mid-Tier Company
- SME Innovation Award 2014: Best Innovation in Engineering & Industrial Design
- 4 Stars: SME Corp Rating

Certifications

- ISO 9001:2015 TUV NORD
- AA 1-InnoCERT Rating



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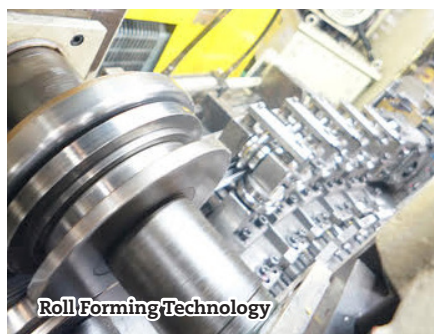
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INNOVATIVE ENGINEERING SOLUTIONS FOR AUTOMOTIVE COMPANIES

One of the region's leading automotive component manufacturers, Ingress, is primed for the changing automotive landscape.



Stamping Technology



Roll Forming Technology



Collaborative Robot (Cobot)

ASEAN automotive component manufacturer with global reach, Ingress Industrial (Malaysia) Sdn Bhd is revving up to be a total system provider as the car industry transforms – as carmakers explore the possibilities of the urban commute in cities around the world, and of a new generation of drivers.

ENTIRE COMPONENT RANGE

Ingress' state-of-the-art manufacturing technologies in roll forming, joining, bending, hydroforming, stamping, fine blanking and welded assembly have enabled the company to produce the complete range of components.

This covers co-extruded mouldings, embossed heat insulator, exhaust systems, door sash, complete door systems and vehicle body assembly.

Specifically, the automotive body vehicle stampings and welding assemblies products are front, rear, side,

roof and understructure modules. The roll forming products are door sash (door frame), inner sash and glass guide.

MORE PRODUCT OFFERINGS

Ingress also manufactures plastic extrusion products, which are front windshield moulding, rear windshield moulding, door belt outer, door belt inner, roof drip moulding, trim door opening and seat catches.

As to heat management products, these are exhaust manifold heat shield, rear muffler heat shield, exhaust tunnel heat shield, bellows and EGR pipes. On top of that, it also has in-house die manufacturing capability.

Last but not least, it also manufactures functional products such as brake and clutch pedal, pantograph jack, door side-impact and door hinge.

DRIVEN BY EXCELLENCE

The history of Ingress began in May 1991 when the company was incorporated

in Malaysia to manufacture automotive components for the growing number of carmakers in Malaysia as well as the ASEAN region.

Over time, the company expanded from merely producing simple parts to creating the complete range of components through sheer dedication and a relentless commitment to excellence.

That subsequently led to its public listing on the Stock Exchange of Thailand (SET) in August 2017 through its holding company, Ingress Industrial (Thailand) Public Co. Ltd.

ALL SYSTEMS GO

As an automation solution provider with the use of Collaborative Robot (Cobot), Ingress has also embarked on providing an industrial solution towards both Industry 4.0 and Thailand 4.0 Readiness.

Ingress is equipped with the capability to offer innovative engineering solutions and expertise to the region's automotive companies.

Today, it is known as one of the region's leading automotive component manufacturers based not just in Malaysia, but Thailand, Indonesia and also India.

COLLABS WITH INDUSTRIAL GIANTS

Together with its partners from Japan, Korea and India, Ingress has harnessed the expertise to combine innovative processes, integrated manufacturing capabilities and simultaneous engineering with its high precision engineering capabilities.

This distinguishing factor has primed the INGRESS brand as an ASEAN company with global reach.

Achievements

- MATRADE Award 2016: Cross Border Investment
- ASEAN Business Award Malaysia 2015
- Frost & Sullivan 2007, 2009 & 2010: Automotive Component Manufacturer Of The Year: Malaysia



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FULL LOGISTICS PACKAGE FOR TOTAL SUPPLY CHAIN MANAGEMENT

No cargo is too small nor too big for award-winning project logistics service provider Gapima.



GAPIMA SDN BHD offers a comprehensive logistics package for the entire supply chain management. Its complete range of freight forwarding services ensures that its customer's cargo is delivered efficiently between points of loading and discharge for both inbound and outbound shipments.

DELIVERY OPTIONS

GAPIMA can also customise delivery options based on cargo size and urgency. Whether it is a small hand-held item or a 100-tonne engine, GAPIMA ensures it gets delivered safely and speedily.

CORE BUSINESS

Its five core business activities comprise freight forwarding which covers forwarding and clearance, cargo documentation as well as sea and air-freighting.

Transportation services involving container haulage, heavy lift equipment and bonded trucks can be arranged. Our team is well-versed in local and international Customs and port procedures for the safe and speedy delivery of cargo to customers at all times.

In warehousing and distribution, it provides storage rental service, inventory management and warehouse management.

In marine and port services, the company offers terminal handling, shipping agency and berthing/husbanding.

And in logistics and consultancy, it renders special services such as feasibility studies as well as technical and survey services.

PROVEN TRACK RECORD

Gapima is backed by over 40 years of experience and a team of professionals who work closely internally to collaborate with customers to ensure safe, cost-efficient on-time delivery all the time.

EXTENSIVE NETWORK

It has an extensive network at 10 key entry points Malaysia-wide and collaborates with strategic partners domestically and internationally.

COMPETENT SKILLS

GAPIMA has the capabilities to manage and coordinate all logistics of customers as well as information and resources to meet their competitive requirements.

It serves a wide array of customers from small businesses to conglomerates.

TOTAL SUPPLY CHAIN MANAGEMENT

GAPIMA offers its services across various industries with a focus on the Oil & Gas, Telecommunications, Energy, Infrastructure and Pharmaceutical sectors. With its comprehensive logistics expertise, state-of-the-art technology, capable people and resources, Gapima has become the preferred choice for total supply chain management.

ACHIEVING MAXIMUM EFFICIENCY

Leading-edge companies have long recognized the importance of logistics and supply chain management.

They know that to gain a competitive advantage, it is essential to apply new skills as well as up-to-date knowledge and technology to achieve maximum efficiency throughout their logistical operations. A reliable and trust-worthy logistics partner can help to achieve that efficiency.

THE SINGLE INTERFACE

As a project logistics specialist, GAPIMA is the single interface between the customer and multiple logistics service providers in managing the customer's total supply chain requirements. This is to ensure our customers get the best service for all shipments that they deserve.



Achievements

- Frost & Sullivan Project Logistics Service Provider of the Year 2015
- Participant of Wave 5 of Mid-Tier Companies Development Programme by Malaysia External Trade Development Corp (MATRADE)

GAPIMA
without boundaries

GAPIMA SDN BHD

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FORERUNNER END-TO-END LOGISTICS SERVICE PROVIDER

As the first national logistics service provider in Malaysia, MASKargo Logistics Sdn Bhd is forging ahead as a totally integrated logistics provider in Malaysia with a global reach.



FREIGHT shipment is a growing industry due to increased trade among countries. And as cross-border e-commerce and online transactions become increasingly mainstream, the volume of cargo has experienced an exponential growth not seen since the start of the industrialisation era in Malaysia.

As far back as 1981, Malaysia Airlines, through its subsidiary MASKargo Logistics Sdn Bhd (MLSB) (previously known as Pengangkutan Kargo Udara MAS Sdn Bhd) has been providing essential logistics services throughout the country from its headquarters at KL International Airport in Subang.

Since then, MLSB has come a long way as the first national logistics service provider in Malaysia. Now as a wholly-owned subsidiary of MAB Kargo Sdn Bhd, it has widened its offerings to include the facilitation of cargo transshipment for major airlines, freight forwarding, third-party logistics (3PL) warehousing and terminal handling. Its services extend to all the major airports within Peninsular Malaysia, Sabah & Sarawak.

AMONG ITS SERVICES ARE:

MH Truck

Operating since 1983, its fleet of specially designed GPS-equipped trucks have a load capacity of 18 tones, which are able to ferry a load comprising three units of Q7 PMC Pallets and two full loads of containers or normal palletised cargo. The trucks are also available for ad-hoc charter and services beyond Malaysia to Thailand and Singapore.

Forwarding

As a licensed forwarding agent, MLSB is able to offer all forwarding activities involving import and export, documentation, custom brokerage and door-to-door delivery to the Middle East, USA and Europe, through its affiliation with logistics partners worldwide.

I-Port

I-Port was established for seamless cargo interchange multi-mode (sea and air) of transportation operated by MLSB at Port Klang and Port of Tanjung Pelepas.

Multimodal Transport Operator (MTO)

MLSB has been appointed as the Multimodal Transport Operator (MTO) by the Ministry of Finance since 2007 to facilitate all government agencies shipments that cover both import and export.

E-Forwarding

MLSB also caters for walk-in customers that do not have an appointed agent. Services provided include customs declaration, EDI, barcode labelling, packing, etc.

Warehousing

MLSB has a secured warehousing area of

40,000sq ft located within the KLIA free commercial zone and 10,000 sq ft in Penang.



Advantages

- A well-known authorised road feeder provider from port-to-port transfer in Malaysia and Singapore;
- Located within the Free Commercial Zone in Kuala Lumpur International Airport and Penang International Airport;
- Knowledgeable, well-trained and highly skilled management and personnel;
- Official Malaysian Royal Customs licensed broker / agent;
- Branches in strategic locations in Peninsular Malaysia;
- 24-hour Operations Monitoring Centre (OMC)

Moving forward, MLSB plans to become a totally integrated logistics provider in Malaysia with a global reach.

Certifications

- ISO 9001:2015
- ISO 14001:2015
- ISO 18001:2007

MASKARGO LOGISTICS SDN BHD

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SOCIALLY RESPONSIBLE LOGISTICS PROVIDER FOR SUSTAINABLE GROWTH

PKT Logistics Group excels in fulfilling customer needs through a wide network coverage and services.



propel its business growth.

It serves a diverse range of market sectors including automotive, food & beverage, fast-moving consumer goods, construction, and e-commerce.

It provides end-to-end design, implementation and operation of logistics solutions in freight forwarding, customs brokerage, haulage, contract logistics and distribution management for large and medium-sized national and multinational companies.

A leading niche logistics solutions provider in Malaysia and with a strong presence in South Korea, Taiwan and most of ASEAN countries, PKT Logistics Group Sdn Bhd provides great value to its customers by offering innovation solutions backed by sustainable business practices.

NIMBLE, RESPONSIVE

PKT's logistics solutions is able to adapt to its customer needs with a high level of service and attention to detail.

These solutions range from haulage and transportation, international freight forwarding and warehouse facilities to customs brokerage and trade compliance; ranging up to 5PL logistics.

NEXT-GEN LOGISTICS HUB

PKT's The 12 Waves is a next-generation warehouse based in Batu Kawan, Penang that offers the full spectrum of integrated logistics and supply chain solutions to customers from automotive, electrical and electronic, to fast moving consumer goods (FMCG) industry.

The 12 Waves feature ambient, air-conditioned and cold room temperature compartmentalised control storage options.

Such temperature-controlled facility is ideal for frozen food transportation and storage and also goods that require end-to-end ambient control.

The 12 Waves is the key component of PKT's One Auto Hub in Penang with 650,000sq ft of warehouse space.

It has state-of-the-art features such as solar panels for electricity generation and advanced security and surveillance systems. It is also the longest and biggest single-storey warehouse in Malaysia.

ECO-FRIENDLY WAREHOUSE

Meanwhile, PKT's The Lighthouse in Shah Alam, Selangor, is the first Green Building Index (GBI) Gold-certified warehouse in Malaysia.

It features built-in solar panels to generate green energy, and energy-saving LED lighting system as well as a rainwater harvesting system for general use.

The warehouse is equipped with six elevated loading bays and three cargo lifts each with up to four-tonne payload capacity catering to inbound and outbound services.

SUPERIOR SUPPLY CHAIN MANAGEMENT

PKT is recognised for its superior supply chain management processes that



SOCIALLY RESPONSIBLE

PKT is a socially responsible company providing logistics services by employing local human resources, building environmentally friendly warehouses, practising open engagement with communities, and inspiring other businesses to provide a positive impact to the people and communities through its activities.

It is an active proponent of innovative corporate social responsibility (CSR) initiatives.

Achievements

- Best CEO Award under the CEO Faculty Programme given to PKT Group chief executive Dato' Michael Tio in 2019
- Business Excellence Person of the Year by Sin Chew Business Excellence Awards 2014
- Grand Winner for the Entrepreneur of the Year 2012 by The Star Outstanding Business Awards (SOBA Awards)
- Emerging Logistics Service Provider of the Year 2011 awarded by Frost & Sullivan



PKT LOGISTICS GROUP SDN BHD

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THE PRIME SHIPBUILDER

With its proven track record and top of the range facilities, BHIC occupies pole position when it comes to providing the best products and services for its clientele in the defence and maritime sectors.



BHIC contributes to the nation's defence and security and safeguarding its sovereignty through building navy ships and undertaking MRO on strategic assets such as ships, submarines and helicopters.

WHEN it comes to top-notch naval shipbuilding and ship repair Malaysia, one name stands out - Boustead Heavy Industries Corporation Berhad (BHIC). It has emerged as the premier contractor for the Royal Malaysian Navy (RMN). Its associate, Boustead Naval Shipyard (BNS) located next to the RMN base in Lumut, Perak undertakes shipbuilding and ship repair of naval vessels.

BHIC is a subsidiary of Boustead Holdings Berhad (BHB) whose largest shareholder is the Armed Forces Fund Board (Lembaga Tabung Angkatan Tentera). Companies under BHIC, whose corporate office is in Menara Boustead in Kuala Lumpur, is involved mainly in heavy engineering activities in the defence, marine and oil and gas industries.

BHIC is listed on Bursa Malaysia and has three shipyards located in Lumut in Perak, Pulau Pinang and Langkawi. Its key activities are:

- Building military and commercial vessels

- Undertaking ship repair on Government, commercial and private vessels
- Undertaking maintenance, repair and overhaul (MRO) of military assets (including ships, submarines and helicopters) and commercial and private vessels
- Fabricating structures and modules for the oil and gas industry
- Undertaking MRO of electronics, electrical and control systems, engines, communication equipment and weaponry
- Manufacturing of components for the aero industry and propellants
- Providing Integrated Maintenance and Logistics Support Services to military assets

MAIN DIVISIONS

1. DEFENCE & SECURITY DIVISION

a) Shipbuilding

The principal activity of this division is building naval vessels such as Offshore Patrol Vessels, Littoral Combat Ships (LCS) and Littoral Mission Ships (LMS) for the RMN.

BNS is currently building six units of LCS which are frigate-classes vessel that can perform complex naval missions covering four dimensions, namely anti-air warfare, anti-surface warfare, anti-submarine warfare and electronic warfare. It is also building four units of LMS with China Shipbuilding & Offshore International Co. at the Wuchang Shipbuilding Industrial Group shipyard in Wuhan, China.

b) Ship repair / MRO

BNS has top of the range facilities and skilled, experienced and dedicated workforce to undertake ship repair works and MRO on RMN vessels.

BHIC's joint venture company, BDNC Sdn Bhd undertakes refit works and provides In-Service Support (ISS) to RMN's Scorpene-class submarines.

c) Manufacturing

Activities under this segment include manufacturing of electronics products and components for industrial, defence and aero industry applications and propellant manufacturing.

2. COMMERCIAL DIVISION

The business units under this division are principally engaged in shipbuilding, ship repair and MRO of commercial and private vessels.

3. ENERGY DIVISION

This division is principally engaged in the fabrication of steel structures, platforms and structures for the oil and gas industry, marine engineering, hook-up and commissioning, and other services related to the oil and gas industry.

Certification

- AS/EN9100 Rev D and NADCAP for Electronics

A HOMEGROWN MARINE SOLUTION

Gimhwak Group has built a reputation for timely and quality delivery and competitive pricing.



Established since 1997, the company has experienced significant growth in market share, both locally and overseas.



Gimhwak has tugboats and barges available for time charter, trip charter, voyage charter, tonnage charter, project or general cargo shipment.

ESTABLISHED since 1997 by founder and Chairman, Mr Yong Ing Hui, Gimhwak Shipping has expanded from ship docking and repairing, designing and building ships to a full range of maritime transportation solutions.

Backed by the founder's years of experience in the shipping industry, the group has experienced significant growth in the market share, both locally and overseas.

With its emphasis on training and developing multi-skilled staff to produce more efficient and better quality services, the company has over the years chalked up numerous awards under the guidance of Mr Yong.

Having gained a reputation for timely and quality delivery and competitive pricing, the company looks forward to expanding internationally as it

works towards becoming a world-class builder of quality vessels equipped with advanced safety and navigation systems.

DIVERSE PRODUCTS & SERVICES

1. SHIPPING

GIMHWAK group has been involved in shipping and ship chartering for more than 20 years. They provide ocean freighting, project cargo management and transshipment to and from all major ports within Malaysia and Southeast Asia. Their ship capacities of 2,000 – 3,000 DWT and tugboats and barges capacities of 2,000 – 8,000 DWT are available for Bare-Boat, time or voyage charter, while joint-slot shipments are also frequently arranged.

They transport coal, nickel, scrap iron, acacia log, silica sand, clay, spun

piles, machinery, containers, sand, stone aggregate, general cargo and more.

2. SHIPBUILDING

The company has more than 20 years of experience in constructing vessels such as fishing boats, tugboats, barges, cargo ships and landing crafts with International classification and plying unlimited International voyage. With the improvement in technology and know-how, they are well equipped with modern facilities, machinery and capabilities in building to ensure delivery of high quality and reliable vessels to customers.

3. SHIP REPAIRS

They have two shipyards located at Sungai Bidut and Sungai Sadit in Sibul, Sarawak, which can cater for floating ship repairs and dry-docking. Their facilities can dock a 15,000-tonne vessel, including tugboat, barge, oil tanker, landing craft, ferry, fishing boat and Anchor Handling Tug Supply (AHTS). GIMHWAK offers hull repair, cutting, welding, installation, modification, fabrication, rebuild, dismantle and disposal of all kinds of ships.

Achievements

- Golden Eagle Awards @ Excellent Eagle Award 2014
- Asia Pacific Entrepreneurship Awards 2013
- Sarawak State Entrepreneur of the Year Award 2012
- Malaysia Independence Award 1957@ Anugerah Merdeka 2012
- Asia Pacific International Entrepreneur Excellence Service Quality Award 2011
- Global Award 2010
- Asia Pacific International Honesty Enterprise Keris Award 2009
- Golden Bull Award for category Emerging Entrepreneur 2009

Certifications

- ISO 9001:2015
- Petronas OSVIS



GIMHWAK SHIPPING SDN BHD

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HIGH-QUALITY CUSTOMISED SOLUTIONS FOR SHIPBUILDING INDUSTRY

Maritime industry player Naval Arch Marine does more than just design and builds vessels.



NAVAL ARCH MARINE SDN BHD (NAM) was established in 2008 to fulfil the increasing demand in Malaysia's shipbuilding market.

It offers a complete set of design and consultancy services to the shipbuilding industry, starting with the early stage of design to production information.

FULL STEAM AHEAD

With the latest technologies in ship production, the wholly independent marine design and Computer-Aided Design and Computer-Aided Manufacturing (CAD/CAM) consulting company is a force to be reckoned with in the thriving shipbuilding market.

To date, it has successfully completed many shipbuilding and conversion projects of different types of vessels throughout Malaysia and other Asean countries such as Singapore and Vietnam, and in Australia.

INDUSTRY STRENGTHS

Shipbuilding starts with enquiries from customers, followed by completion of various processes until the vessel is completed.

NAM is able to provide personalised and customised solutions to requests and requirements of shipowners/users and capabilities of shipyards.

NAM has vast experience in project conception and consultation, feasibility studies, investigation, survey and selection, liaison with classification authorities, as well as detailed engineering analysis and design.

Additionally, it is well-versed in contract plans and documentation, material and construction specifications, field inspection and supervision, and submission and obtaining government approvals and certificates.

ADVANCED ENGINEERING

Another service of NAM is advanced engineering where it uses a combination of advanced commercial software and in-house developed programs for onshore and offshore structures, strength analysis (class rules and FEM), structural design (2D and 3D), 3D modelling, infrastructure and towing tank test.

NEW BUILDING & CONVERSION

NAM's projects in basic and detailed designs include 18M shrimp trawler, 78M landing craft, 42M fast crew boat and 17M patrol boat.

Examples of its conversion projects are single hull to double hull tanker and general cargo carrier to livestock carrier.

Its repowering jobs include 38M patrol boat and 47M fast attack craft.

For production design, it uses 3D structure, 3D piping, 3D cutting and nesting and 3D modelling.

The company is also involved in engineering services including 3D laser scanning, finite element analysis, powering analysis, model tank test, seakeeping analysis, sound and vibration, and offshore containers.

PROJECT MANAGEMENT

In project management, NAM offers services beginning with project definition and documentation, going through all design stages to assure correct implementation during the building process, as well as

tests and trials until the delivery of the ship to its owner.

Examples of completed projects include the 49M anchor handling tug supply vessel (AHTS): Jaya Mermaid 3, 55M PSC: AVISA 1, 60M AHTS: ZAKHER SUPPLIER and 60M AHTS: ZAKHER PRIDE.

It also offers services such as documentation and manuals including shipboard oil pollution emergency plan (SOPEP), cargo securing manual (CSM), emergency towing booklet, ballast water management plan, and ship structure access plan.

KNOWLEDGE SHARING

Also an education/training provider, NAM organises short courses to enable employees, marine professionals and those with non-marine background to better understand the maritime world, and to achieve high work efficiency and self-improvement.

SETS SAIL FOR NEW MARKETS

With the global shipbuilding market expected to expand in future in view of increasing seaborne trade, economic growth and rising demand for shipping services, among others, NAM is well placed to capitalise on the flourishing shipbuilding market.

As of September 2019, NAM's design portfolio (new building) includes general-purpose vessels, ocean tugs, landing craft, shrimp trawlers, multipurpose vessels, AHTS, platform supply vessel, catamaran passenger boat, cargo barge and double-ended ferry.



NAVAL ARCH MARINE SDN BHD

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SERVICE PROVIDER OF CHOICE FOR PLATFORM SAFETY SYSTEM

Expanding globally, AZTI is one of very few companies representing Malaysia in the rail industry.

AZTI Group of Companies' rail platform safety system is a proprietary system. Its Platform Intrusion Emergency Stop (PIES) and Intrusion Preventive System (IPS) is innovated, developed and owned 100% by a Malaysian company and the only system that has a proven track record of over 30 years.

HOW PIES WORKS

PIES uses a series of flexible mounted sensor panels located between running rail in front of platforms and attached a proprietary strain sensitive cable BLUCOR to these sensor panels and developed electronic circuitry to eliminate environmental effects while detecting human intrusion.

PIES was designed in Canada initially for Vancouver SkyTrain to detect human beings on the guideway and be immune to electromagnetic fields (EMF) and radio frequency interference (RFI) as well as immune to environmental effects.

The motion-sensitive cable (attached to a series of flexible mounted, rigid sensor panels located in rows in front of each station platform) generates electronic signals in direct response to any motion applied to the sensor panels.

The signal then will be filtered and monitored for any changes to trigger a notification signal to Train Signalling and Scada via dry contact.

MERITS OF PIES/IPS

Proven, simple, reliable and cost-effective, PIES in Malaysia has been in operation since 1996 in Kelana Jaya Line with trains passing through more than two million cycles.

There has not been any major repair of PIES other than normal wear and tear like cable replacement and standard upkeep of parts replacement and maintenance.

PIES is capable of continuous operation regardless of weather conditions and proven to work without degradation in extreme weather.

FLEXIBLE, COST-EFFECTIVE

The system is also easily adjustable to suit required sensitivity; unsusceptible



to EMF/RFI; and customisable to fit in any track, providing flexibility and cost-efficiency.

It is also scalable for redundancy, and all spare parts are now readily supplied internationally.

Furthermore, PIES complies with EN 50121-4:2006, EN 50126-1:1999, EN 50128:2011 and EN 50129:2003.

GLOBAL EXPANSION DRIVE

AZTI has been aggressively expanding abroad since 2017, and has identified potential markets and made contact as well as business traction for its new phase

of business and product development.

These include MTR Hong Kong (platform rubber gap filler), Taiwan (PIES systems), Indonesia (PIES systems) and Shanghai, China High-Speed Rail (PIES for extended platform of 300 metres).

AZTI Group of Companies, AZTI Technology Sdn Bhd, AZTI Engineering Sdn Bhd and Alpha Zaicon Technology International, Canada are 100% Malaysian-owned companies.

The group was set up as a platform dedicated to supporting the business of the PIES system for the Asia Pacific region and globally.

Certifications

Safety Integrity Level 2 – The International Electrotechnical Commission (IEC) Standard. IEC 61508 defines SIL using requirements under two broad categories, i.e. hardware safety integrity and systematic safety integrity. A device or system must meet the requirements of both categories to achieve a given SIL. AZTI's SIL 2 certification includes these certifications:

- EN 50126 (railway applications Reliability, Availability, Maintainability and Safety (RAMS))
- EN 50128 (railway applications software for railway control and protection)
- EN 50129 (railway applications safety-related electronic systems for signalling)
- ISO 9001:2015 (Quality Management System) – sets out the criteria for a quality management system and is the only Standard in the family that can be certified
- SIRIM EMC EN 50124:2006 (Railway EMC Standards for Electromagnetic Compatibility series of Standards)
- Indonesia Product Certification issued by the Indonesian Ministry of Transport validating PIES fitness to be installed in Indonesia



AZTI GROUP OF COMPANIES

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YOUR IDEAL PARTNER FOR RAILWAY CONSTRUCTION

Armed with projects in populous India and Indonesia, and at home, total railway solutions provider Emrail aims to be the leader in the region.



Emrail designed, constructed and commissioned trackwork for both the EDTP 1 & 2, which handle passengers and cargo services.

NEARLY a century after operating in the then Malaya and later Malaysia, rail still plays a crucial role as an alternative mode of public transportation.

Having progressed by leaps and bounds, Malaysia's rail industry of today stands on par with other developed rail industries around the globe.

TRACKWORK SPECIALIST

Emrail Sdn Bhd, established in 1973 by former Malayan Railway staff, is a leading wholly Malaysian trackwork specialist company with an active portfolio of major projects.

It is often commended with delivering projects on time and within budget.

CORE & MAINTENANCE SERVICES

Emrail's core services are trackwork, signals and signalling, civil works, rolling stock project management and asset management.

Its maintenance services cover tracks and yards, signals and signal systems,

facilities management, rolling stock, and track machines and equipment.

PRESENT & PAST PROJECTS

Embracing innovative technologies, Emrail's local projects include the MRT SBK Line. It was awarded the contract jointly with Fujita Corporation (M) Sdn Bhd for the construction, completion, testing, commissioning and maintenance of trackwork from Sungai Buloh to Kajang.

Another project is the Light Rail Transit Line 3 (LRT 3), part of the Greater Klang Valley Urban Rail Development Plan.

Earlier, it was given the responsibility to design, construct and commission trackwork for both the Electrified Double Track Project 1 (2001-2009) and EDTP 2 (2009-2016) which handle passengers and cargo services.

Emrail also secured the contract to build the elevated track for the LRT Kelana Jaya Line between the depot at the Kelana Jaya station and Pasar Seni station.

TRACK REHABILITATION

Another project was the East Coast Line Track Rehabilitation Project where Emrail was awarded the contract for Package C involving the restoration of tracks, slope stabilisation, track rehabilitation and associated works due to a major flood.

It covers the stretch from Gua Musang to Tumpat in Kelantan, passing through mountainous areas, rivers and tunnels.

BEYOND MALAYSIA

The Delhi Mass Rapid Transit System in India, a part of Delhi Metro Rail Corporation's vendor development project, is Emrail's first project abroad.

In Indonesia's LRT Jakarta Koridor 1 project, Emrail in a joint operation with PT Wijaya Karya Beton (Persero Tbk) was awarded the contract for the section of the mainline and depot trackwork from Kelapa Gading to Velodrome in February 2017 and the line is now in the public trial phase since June 2019.

ON THE RAILS

Emrail started out as a small company designing and manufacturing turnouts for Malayan Railway in 1973 and gradually developed its work scope to include other areas of railway engineering and construction.

It is now one of the largest private railway construction companies in Malaysia with projects locally and abroad.

Emrail got its big break in 1997 when Malaysia started construction of the first metro networks in Kuala Lumpur in preparation for the 16th Commonwealth Games.

Since then, it has delivered over 1,200km of ballasted and unballasted tracks in the region.

CUSTOMER-CENTRIC

Aiming to be the leading railway construction company in Malaysia and regionally, its mission is to provide value engineering services via innovation, continuous improvement and teamwork while maintaining quality and safety to meet customer satisfaction.



EMRAIL SDN BHD

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Achievement

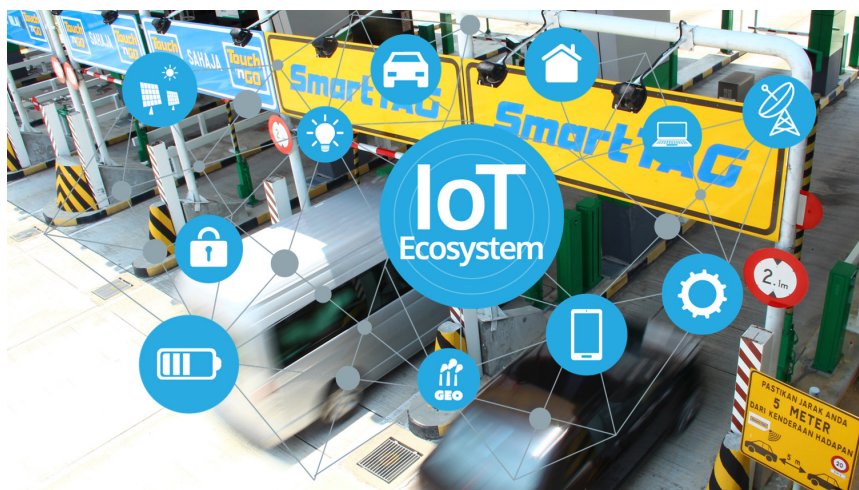
- Jakpro Certificate of Premium Partnership 2019

Certification

- ISO 9001:2015

EXCELLING IN TOLL MATTERS

Toll solutions specialist TERAS expands to Southeast Asia on the back of consistent revenue growth and homegrown advanced R&D.



computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.

Enterprise users can go to market quickly without worrying about the underlying infrastructure costs or its maintenance.

The TERAS Enterprise Business Solution product segment comprises the following:

- a. TERAS Cloud-Tolling
- b. TERAS Cloud-Parking
- c. TERAS Cloud-Access Security Systems
- d. TERAS Cloud-Attendance System
- e. TERAS Cloud-Automated Fare Collection

WITH more than 25 years of proven track record in four countries, 1,400 expressways lanes, 90 parking and secure access sites, encompassing over 165 experienced personnel (60% are skilled IT professionals), and with over RM600 million contracts to date; TERAS Teknologi (TERAS) continues its hallmark as Malaysia's foremost ICT innovator, enhancing value of life for over 5 million users in Asia.

As Malaysia's largest toll service provider, TERAS has introduced TRACS (TERAS Revenues & Collection System), Touch 'n Go (Smart card Payment System) and SmartTAG (non-stop Electronic Toll Collection) through in-house research and development. This has revolutionised Malaysia's transportation system, secure access, revenue collection and integrated smart control at all major expressways, parking, public transportation services and commercial buildings.

Since 2005, the 100% subsidiary of PLUS Malaysia Bhd has experienced over 20% revenue growth annually. Since its inception in 1994, TERAS continues to expand its business gradually to Indonesia and other Southeast Asian countries by providing solutions in the toll collection system and traffic control surveillance system.

TERAS ENTERPRISE BUSINESS SOLUTION

TERAS Enterprise Business Solution and services are on-demand which give enterprises a competitive edge by providing the most innovative technology available with near real-time visibility of transactions. The evolution from the current client-server to 'Serverless' approach takes advantage of cloud capability to support the Internet of Things (IoT), Machine Learning (ML), Artificial Intelligence (AI), Video Analytics and Dashboard Analytics Reporting.

TERAS solution framework enables ubiquitous, convenient, on-demand network access to a shared pool of configurable

TERAS CLOUD-TOLLING SOLUTION

With the advancement of technology, toll payment solution has evolved to better safeguard revenue collection and enable faster vehicle throughput which leads to new concepts where the conventional plaza arrangement gives way to Multi-Lane Free Flow (MLFF) solution.

TERAS Cloud-Tolling Architecture is preparing for Plaza (less) Operations to support MLFF Gantry-only environment. Essentially, the Cloud-Tolling solution aims to reduce operating costs, reporting time and the number of hops/jumps for data to be visible. Every lane becomes an IoT device feeding directly in real-time to the Cloud Toll Engine.

The Network Architecture has also changed from a single Internet Gateway (thus single point of catastrophic failure) to several Internet Gateways along the highways.

EFFECTIVENESS

- Electronic Toll Collection (ETC) Reconciliation
- Accurate Monthly Report to Authorities
- Data Discrepancy – Tracking on data discrepancy report
- Ad-hoc Data Request – Management Dashboard Reporting i.e. Hourly traffic volume, traffic revenue, etc
- Predictive Reporting and Monitoring

Achievements

- MATRADE Mid-Tier Companies Development Programme (Wave 5) 2019
- KIK MPC Team Excellence Convention (Category: Technical) 2016

Certifications

- ISO 9001:2015
- ISO 9001:2008

TERAS
TEKNOLOGI

A member of **PLUS**

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