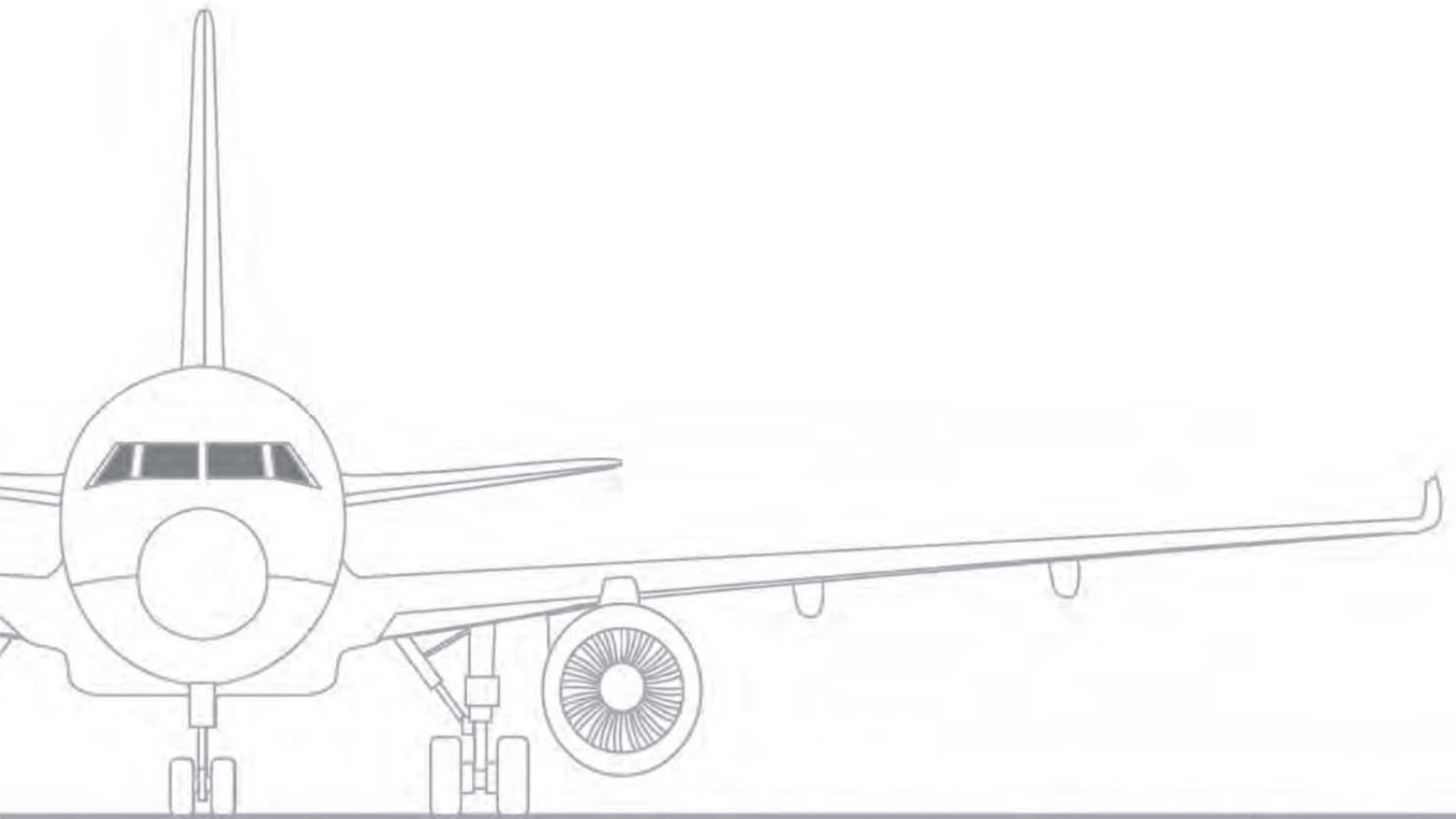




MINISTRY OF INTERNATIONAL TRADE AND INDUSTRY



MALAYSIAN AEROSPACE INDUSTRY REPORT 2016/2017



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DIRECTORY

National Aerospace Industry Coordinating Office

NAICO

The National Aerospace Industry Coordinating Office (NAICO) was established in August 2015 following a key recommendation of the Malaysian Aerospace Industry Blueprint 2030. NAICO currently operates under the purview of the Ministry of International Trade and Industry (MITI). The objective of this office is to develop and enhance the competitiveness of the Malaysian aerospace industry, which is aligned with measures and targets specified in the Blueprint, Entry Point Projects (EPPs) and 11th Malaysia Plan. NAICO also serves as the focal point in linking aerospace industry players, relevant Government ministries & agencies, academia and research institutions to work together in strengthening the capability and capacity of the local aerospace industry.

The main responsibilities of NAICO are to:

- △ Coordinate the implementation of the Malaysian Aerospace Industry Blueprint 2030;
- △ Coordinate, prioritise, arrange, review, manage and monitor aerospace industry development programmes in the country;
- △ Coordinate the implementation of projects under RMK-11 related to the development of the aerospace industry;
- △ Be the referral point for foreign and domestic investors;
- △ Promote and facilitate the involvement of small & medium enterprises into the global supply chain; and
- △ Function as the secretariat to the Malaysian Aerospace Council (MAC).

NAICO will also undertake the following activities:

- △ Conduct industry intelligence and research;
- △ Coordinate relevant MITI agencies in promoting the Malaysian aerospace industry on a global scale;
- △ Establish and maintain a Malaysian aerospace industry database and publish the biennial Malaysian Aerospace Industry Report;
- △ Conduct specific studies on the aerospace industry covering aero-manufacturing, maintenance, repair & overhaul (MRO), aircraft systems integration, human capital development, research & technology (R&T), incentives and aerospace parks;
- △ Prepare proposals, memorandums and industry updates to be presented to MAC;
- △ Monitor the implementation of MAC decisions
- △ Coordinate with relevant Government agencies on industry development activities such as promotion of aerospace investment, human capital development programmes and R&T development initiatives; and
- △ Propose Industry Collaboration Programmes (ICP) coordinated by Technology Depository Agency (TDA) and Ministry of Finance.

NAICO has established 5 Technical Working Groups (TWG) as a platform for the industry to channel views and inputs on development, share issues and challenges as well as recommend potential solutions. The TWG covers 5 Focus Areas: Aero-Manufacturing, Maintenance, Repair and Overhaul (MRO), Systems Integration, Engineering & Design and Training & Education. The TWG also assists in strategising, planning, providing recommendations, implementation and monitoring of policies and measures for the development of Malaysia's aerospace industry. The TWG acts as support to NAICO. The members of the TWG comprise representatives from Government agencies, aerospace industry stakeholders, as well as academia. In addition, NAICO is also working closely with the Malaysia Aerospace Industry Association (MAIA) in promoting partnership and collaboration for the benefit of the local aerospace community.



MESSAGE FROM YB MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI)



Dato' Sri Mustapa Mohamed
Minister of International Trade and Industry, Malaysia

The Malaysian Aerospace Industry Blueprint 2030 launched in 2015 has set a new target for Malaysia to become the regional aerospace hub by 2030. Since September 2015, Ministry of International Trade and Industry (MITI) has been tasked to chair the Malaysian Aerospace Council (MAC), in line with MITI's role as the lead agency to oversee the implementation of the Blueprint.

The Malaysian aerospace industry is a growing industry identified as one of the catalytic sub-sector in the Eleventh Malaysia Plan (11MP). The industry recorded total revenue of RM12.7 billion in 2016 as exports increased by 32.6% to RM5.53 billion. The positive growth of the industry is supported by both quality investments and this will lead to the continuous development of local supply chain.

Malaysia is committed to spurring the growth of the aerospace industry and in achieving the goals through the implementation of the Blueprint. In 2015, MITI established the National Aerospace Industry Coordinating Office (NAICO) as the focal point in linking the aerospace industry players, relevant Government ministries and agencies, and academia to collectively work together in strengthening the capability and capacity of Malaysia's aerospace industry.

Malaysia has all the necessary ingredients to be a strong aerospace nation. We are equipped with world class infrastructure such as KLIA Aeropolis, Senai Airport Aviation Park and the recently established UMW Serendah High Value Manufacturing Park. With the right infrastructure and competent local suppliers, we believe that Malaysia is on the right

flight path to attract more quality aerospace investment. MITI will continue to facilitate the Blueprint implementation and work closely with the relevant stakeholders to achieve these goals to ensure that Malaysia continues to sustain its competitiveness at the global level.

MESSAGE FROM THE SECRETARY GENERAL OF MINISTRY OF INTERNATIONAL TRADE AND INDUSTRY (MITI)



Datuk Seri J. Jayasiri, Secretary General,
Ministry of International Trade and Industry, Malaysia

The Malaysian Government has put in place national strategies to drive the growth of the aerospace industry, namely the Entry-Point-Project (EPP) of the Economic Transformation Program (ETP) and the Malaysian Aerospace Industry Blueprint 2030. In addition, specific aerospace projects were implemented under the Eleventh Malaysia Plan (11MP) focusing on aerospace industry development, supply chain development and competency development through industry-led Research & Technology (R&T).

The National Aerospace Industry Coordination Office (NAICO) of MITI is now overseeing the implementation of the Blueprint as well as coordinating the inter-agency alignment and public-private partnership. Throughout 2016, 12 key initiatives of the Blueprint were implemented. The industry maintained a positive growth in 2016 with aerospace manufacturing revenue of RM6.4 billion, an increase of 11% compared to 2015. The Maintenance, Repair & Overhaul (MRO) also showed improvement with a revenue of RM5.7 billion.

In order to expand the capability of local SMEs, a structured development programme was developed by SME Corporation Malaysia. The programme aims to prepare the SMEs to enter the global aerospace market. The industry-led R&T initiative under the 11MP has successfully developed high-value products and processes namely invar-based aerospace tooling, vacuum curing table, pultrusion & hot press system for aircraft parts and factory 3D virtualisation. This will lead to the continuous competency development of local aerospace players.

Southeast Asia's dynamic regional aerospace market has positioned Malaysia to capitalise on the market trends and forecast. Currently, Malaysia is the home to more than 200 aerospace companies, enabling development of a vibrant local supply chain. MITI will continue to facilitate the growth of the industry by leveraging on the bigger Southeast Asia market.

MESSAGE FROM HEAD OF NAICO, MINISTRY OF INTERNATIONAL TRADE AND INDUSTRY



Shamsul Kamar Abu Samah
Head of the National Aerospace Industry Coordinating Office (NAICO),
Ministry of International Trade and Industry, Malaysia

Throughout 2016, the National Aerospace Industry Coordinating Office (NAICO) focused on the implementation of the Malaysian Aerospace Industry Blueprint 2030 and developing specific action plans for the industry. NAICO's goal is to ensure the successful implementation of the Blueprint initiatives in collaboration with the relevant stakeholders and industry players.

Among NAICO's initiatives include the development of the Aerospace Industry Collaboration Programme (ICP) Strategy which would be the strategic reference for future aerospace ICP projects coordinated by the Technology Depository Agency (TDA) of the Ministry of Finance. On human capital, NAICO collaborated with TalentCorp Malaysia to develop a Critical Occupation List (COL) for the aerospace industry. The COL will also be a strategic reference for aerospace talent development initiatives.

In addition, NAICO facilitated the establishment of an Industry-Based Education Training (IBET) centre, a collaborative project between Composites Technology Research Malaysia (CTRM), Aerospace Malaysia Innovation Centre (AMIC) and Majlis Amanah Rakyat (MARA). Once finalised, the centre which is located within Kolej Kemahiran Tinggi MARA (KKTMM) Masjid Tanah will offer a specific industry-based training program for the aerospace manufacturing sector.

In expanding NAICO's global network, International Collaboration Missions to Mexico and Morocco were conducted to promote industry collaboration between the 3Ms (Malaysia, Mexico, Morocco) countries.

To enrich NAICO's global aerospace industry knowledge, NAICO conducted global industry intelligence activities covering Singapore, United Kingdom, China and Japan. All of these initiatives are targeted to support the transformation of Malaysia as a regional industry leader by 2030. The local aerospace community should take this opportunity to position themselves at the regional level through smart collaborations and business partnerships.







INTRODUCTION

INTRODUCTION

The Government of Malaysia has identified the aerospace industry as a strategic industry which has a wide potential in the country's industrialisation and technological development programme. To ensure consistent growth of the industry, the Malaysian Aerospace Industry Blueprint 2030 was launched in March 2015 by the Prime Minister of Malaysia during the Langkawi International Maritime & Aerospace Exhibition 2015 (LIMA '15). The Blueprint has set a vision for Malaysia to be the No. 1 aerospace nation in South East Asia (SEA) and be an integral part of the global market by the year 2030 with an annual revenue of RM55.2 billion and creating more than 32,000 high income jobs.

The MAC is the highest level executive body that drives the development of the Malaysian aerospace industry. The MAC was first established in 2001 and chaired by YAB Prime Minister. Its objective was to provide overall guidance and direction in the development of the aerospace industry in Malaysia. Its membership consisted of senior Government officials from relevant Ministries and Agencies, and industry representatives.

In 2015, it was agreed that the Minister of International Trade and Industry chair the Council. Throughout 2016, three MAC meetings were conducted to discuss issues and challenges faced by the industry. MAC will continue to serve as the main steering body for the aerospace industry in Malaysia, including monitoring the implementation of the Malaysian Aerospace Industry Blueprint 2030.

To further support the aerospace industry, the National Aerospace Industry Coordinating Office (NAICO) was established in August 2015. The primary objective of NAICO is to oversee the implementation of the strategies and initiatives in the Blueprint. NAICO will serve as the focal point in linking the aerospace industry players, relevant Government ministries and agencies, and academia to collectively work together in strengthening the capability and capacity of Malaysia's aerospace industry. NAICO is also the Secretariat to MAC.



To ensure the successful implementation of the Blueprint, 7 strategies and 41 key initiatives have been developed. The 7 strategies are:

1. Apply policies that will impact the future landscape of the industry;
2. Enhance the effectiveness of institutions that have direct influence on the growth of the industry;
3. Harmonize civil and military regulations and promote green practices;
4. Invest in R&T to develop new capabilities and enhance industry competitiveness;
5. Promote aerospace investments through incentives and matching funding;
6. Attract and prepare the workforce of tomorrow for Malaysia and the region; and
7. Capture new market and strengthen local supply chain.

Malaysian Aerospace Industry Blueprint 2030 Targets

	<i>Focus Area</i>	<i>Specific</i>
1	MRO Sub-Sector	Capture at least 5% of global market share
2	Aero-Manufacturing Sub-Sector	Become no. 1 in SEA in for Aerospace and Component sourcing by targeting to be large assembly Tier-1 and Risk Sharing Partner (RSP)
3	System Integration Sub-Sector	Self-reliant (at least 70%) in integration and upgrading of strategic assets.
4	Engineering and Design Services Sub-Sector	Capture at least 3.5% of global market share
5	Education and Training Sub-Sector	No.1 in South East Asia in supplying competent workforce

To date, NAICO has facilitated the implementation of twelve (12) initiatives in the Blueprint. Among the notable results are:

1. Development of the Aerospace Industry Collaboration Program (ICP) Strategy;
2. Development of Critical Occupational List for Aerospace Industry;
3. Establishment of Malaysia Aerospace Industry Association (MAIA);
4. International Aerospace Collaboration Mission to Mexico and Morocco;
5. Establishment of Human Capital Council Sub-Industry Working Group for Aerospace Industry;
6. Reinstatement of Incentive for Aerospace Industry;
7. Promotion of Malaysian Aerospace Industry at Singapore Airshow 2016 and Farnborough International Airshow 2016;
8. Developing Malaysian SMEs in the global aerospace manufacturing industry;
9. Launch of KLIA Aeropolis; and
10. Industry-led Research & Technology (R&T) Initiatives.

These results were achieved in collaboration with other agencies including Malaysian Investment Development Authority (MIDA), Malaysia External Trade Development Corporation (MATRADE), SME Corporation Malaysia, Talent Corporation Malaysia, Technology Depository Agency (TDA), Malaysia Airports Holdings Berhad (MAHB) and Aerospace Malaysia Innovation Centre (AMIC).



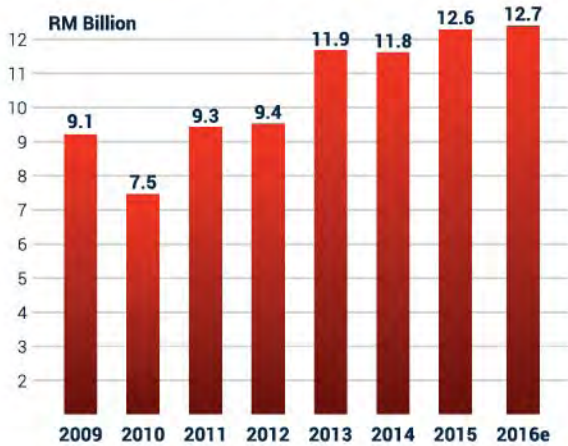




INDUSTRY PERFORMANCE

INDUSTRY PERFORMANCE

The aerospace industry in 2016 maintained its positive growth although facing uncertain economic climate. Total revenue recorded in 2016 was RM12.7 billion. Apart from the continuous growth of the aerospace manufacturing sector, the Maintenance, Repair and Overhaul (MRO) sector also showed a progressive recovery.



Aerospace Industry Revenue

Source: NAICO

Continuous efforts by NAICO, MATRADE and MIDA in promoting Malaysia through participation at Singapore Airshow 2016 and Farnborough International Airshow 2016 has successfully attracted the attention of global players to view Malaysia as the potential aerospace hub in South East Asia. Among the countries that have shown interest in Malaysia include the United States of America, Canada, United Kingdom, France and Japan.



NAICO's participation at the Japan International Aerospace Exhibition 2016 and China Airshow 2016 have provided first-hand information on the current progress of the aerospace industry in Japan and China.

Apart from developing global industry knowledge, NAICO is also identifying potential areas of collaboration between Malaysian aerospace community and other global aerospace players.

NAICO also has conducted international aerospace collaboration missions to Mexico and Morocco in exploring potential collaborations between Malaysia, Mexico and Morocco also known as the 3M countries. The industry landscape between the 3M countries are quiet identical, hence opening up huge potential for business collaboration. To mark the initial relationship between Malaysia and Mexico, MARA Aerospace & Technologies (M-AeroTech) signed two Memorandum of Understanding (MoU) in the area of human capital development with UNAQ (Aeronautical University in Querétaro) and industry development with FEMIA (Mexican Aerospace Association).



The mission to Morocco was conducted with the assistance of Moroccan Investment Development Agency (AMDI) and Moroccan Aerospace Industries Association (GIMAS). The mission has led to initial business discussions between Malaysian and Moroccan companies. During the Kuala Lumpur International Aerospace Business Convention 2016 (KLIABC), a group of Moroccan aerospace industry led by Maroc Export and GIMAS participated in the Business Meetings Programme hosted by MATRADE. GIMAS also presented the latest aerospace development in Morocco.

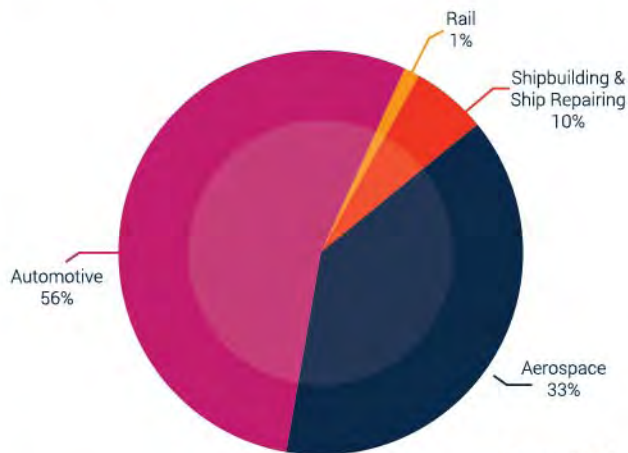


INVESTMENTS

In 2016, a total of nine aerospace projects with investments of RM1.6 billion were approved. The majority of these investments (RM889.4 million or 56.9%) were from foreign investors, while domestic investments amounted to RM673.9 million (43.1%). The approved projects are expected to generate a total of 1,766 employment opportunities.

Of the 9 approved projects, three were new projects while six were expansion/diversification projects. New projects accounted for 43% of the total approved investments, including a project by a new Malaysian-owned company to supply aircraft parts and components for fan cowls, cabin crew seating and evacuation doors with an investment of RM53.7 million. The company has been identified by OEMs such as Airbus and Boeing as a vendor.

Expansion/diversification projects in the aerospace industry accounted for 57% in 2016. A significant project approved was the development and manufacture of movable/variable lifting surface and anti-icing systems for aircraft, and aircraft doors by a foreign owned company with an investment of RM556 million. Another such project approved was an investment amounting to RM107.9 million by a Malaysian owned company to produce composite panel for aircraft.



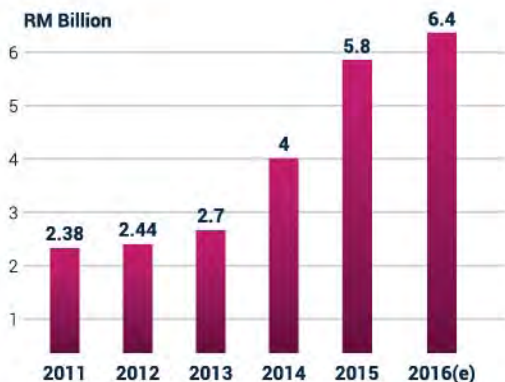
Approved Investments in the Transport Industry by Subsector, 2016

TRADE

In 2016, Malaysia's aerospace export recorded the highest export value worth RM5.53 billion, an increase of 32.6% compared to 2015. Malaysia's aerospace exports are mainly in parts and components. The increase in exportation is mainly due to the expansion of the aerospace manufacturing activities. Companies in this sub-sector managed to secure more work packages from the OEMs/Tier 1 companies thus help to expand the local eco-system. This is also a global recognition to the capabilities of Malaysian companies.

The importation of aircraft, raw materials and spares was recorded at RM11.94 billion. This is mainly contributed by the fleet expansion and replacement of the aviation sector that will be directly benefitting Malaysia through the increase of aviation and tourism activities.

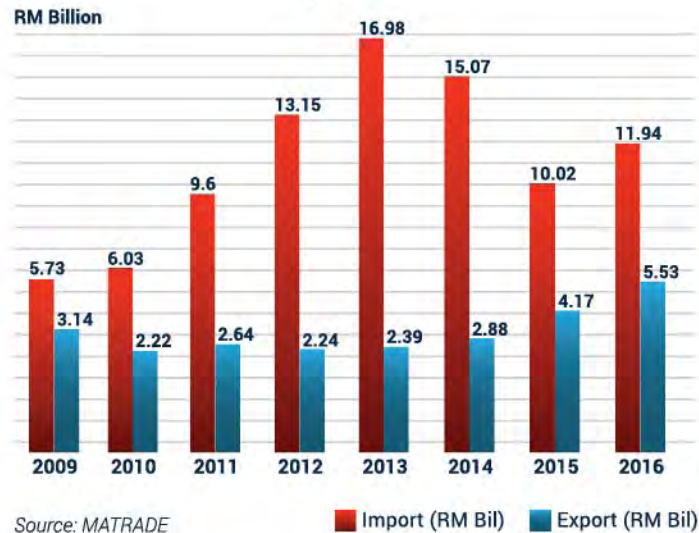
The importation of raw materials and spares can be significantly reduced through the localisation of aircraft parts and components as well as investments on the production of aerospace grade raw materials in Malaysia. Continuous efforts on local supply chain development programme as well as investment promotion targeting raw material supplier and manufacturer are crucial to achieve the target.



Source: NAICO

Aerospace Manufacturing Revenue

Malaysia's Trade Performance of Aircraft & Associated Equipment & Parts



Source: MATRADE

SUB-SECTOR REVIEW

Aerospace Manufacturing

The year 2016 marks another remarkable year for the aerospace manufacturing sub-sector. This sub-sector covers engineering & design; aero-structure (composites and metallic); avionics; engines; and airframe equipment. The aerospace manufacturing has now overtaken the rest of the sub-sectors as the main contributor to the aerospace industry revenue. The sub-sector revenue reached RM6.4 billion in 2016, an increase of 11% compared to 2015. Avionics and aerostructure manufacturing retained its' positive growth while aero engine components manufacturing is entering the race.

The investment by Honeywell Aerospace Avionics in 2009 has opened up opportunity for Malaysia to venture into avionics manufacturing, which currently contributes 55% of the total aero-manufacturing revenue. The sub-sector is currently supported by other multi-national corporations such as Celectica and Plexus. More and more local companies are now being considered as suppliers to these avionics manufacturers.

Aerostructure manufacturing remains competitive with potential expansion programmes expected to be executed throughout 2017. Among leading aerostructure manufacturing company in Malaysia include Spirit AeroSystem, Composites Technology Research Malaysia (CTRM), Asian Composites Manufacturing (ACM), SME-Aerospace, Senior Aerospace Upeca and Singapore Aerospace Manufacturing (SAM). Aerostructure manufacturing is currently contributing 42% of the total aero-manufacturing revenue.

The aero engine parts and components manufacturing is set to expand with the venturing of UMW Group into aerospace business in partnership with Rolls-Royce. UMW Aerospace will manufacture and assemble fan cases for Rolls-Royce's Trent 1000 and Trent 7000 aero engines. The new facility is being built in UMW High Value Manufacturing Park, Serendah, Selangor; a new aerospace park dedicated for High Value Manufacturing activities. The pre-production and technology development centre has already been completed and currently being used as a training centre for its employees. The centre will also be used to work on future manufacturing technologies to drive competitiveness and increase manufacturing capabilities, such as automation and machining technology. The main plant is expected to be ready by mid-2017 with an annual production capacity of up to 250 units fan cases.



UMW High Value Manufacturing Park, Serendah, Selangor

Recently, SAM Precision (M) Sdn. Bhd., an arm of SAM Engineering & Equipment (SAM Malaysia) based in Penang, announced that they will be investing more than RM100 million for its expansion programme over the next two years. This includes a new diversification project of SAM Precision to manufacture thrust reverser machined parts for the aerospace industry, the first of its kind in Malaysia.



Another aerospace manufacturing project initiated in 2016 is Asahi Aero Malaysia Sdn. Bhd., a Joint Venture between Asahi Kinzoku Kogyo Inc. with Toyota Tsusho Corp. specialising in cadmium and Zn-Ni plating, as well as boric surifuric and phosphoric acid anodise processing. The company opened its first aircraft parts surface treatment facility in South-East Asia in October 2016. The world class RM18 million facility certified by Boeing is located in Telok Panglima Garang, Selangor. The new facility will assume a role in supporting parts manufacturing for Boeing's commercial airplane programmes.

In preparing the Malaysian suppliers to enter the global aerospace market, a structured SME development program has been launched under the Economic Transformation Programme's Business Services Entry Point Project (EPP) 8: Developing SME in the Global Aerospace Manufacturing Industry.

Under EPP8, one of the key initiatives is to assist SMEs in upgrading their status of certification and recognition which is deemed crucial in the aerospace industry. In addition, it would strengthen effectiveness of the aerospace's eco-system chain and create competitive businesses for SMEs, taking advantage of the various Government funding schemes and existing investment opportunities. In 2016, ten SMEs were selected to be further nurtured in penetrating new markets and link up with major aerospace industry players.

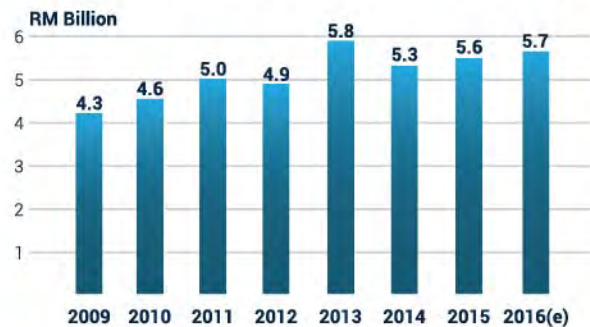
Throughout 2016, the companies have been exposed with the global aerospace landscape through the business mission to Farnborough International Airshow 2016, participation in the Cranfield Aerospace Programme and business meetings during KLIABC 2016.



Maintenance, Repair & Overhaul

2016 saw a small growth in the MRO sub-sector. Revenue in 2016 reached RM5.7 billion supported by the expansion of aero-engine MRO and components MRO activities. The MRO sub-sector is expected to expand in the coming years based on AirAsia Group's indication to venture into MRO business. Malaysia Airlines Berhad (MAB) is also in talks with potential MRO partners in an effort to reinstate MAS Aerospace Engineering (MAE) MRO business.

Maintenance, Repair and Overhaul (MRO) Revenue



Source: NAICO

In September 2016, MAB sealed an agreement with CFM International to purchase LEAP-1B engines to power 25 firm Boeing 737 MAX aircraft. MAB also has purchase rights for 25 additional LEAP-1B powered Boeing 737 MAX aircraft. This purchase will lead to a great future for aero engine MRO activity in Malaysia.



In November 2016, RUAG Aviation opened its regional component repair centre at the KLIA Aeropolis Subang, following a successful audit and European Safety Agency (EASA) Part 145 approval. RUAG Aviation Malaysia will operate this new facility to provide MRO services for aircraft components and will serve RUAG's position as a component services hub in Asia. This investment shows RUAG's commitment to the Malaysian aerospace industry as well as its plan to develop its technical capabilities by engaging local workforce.

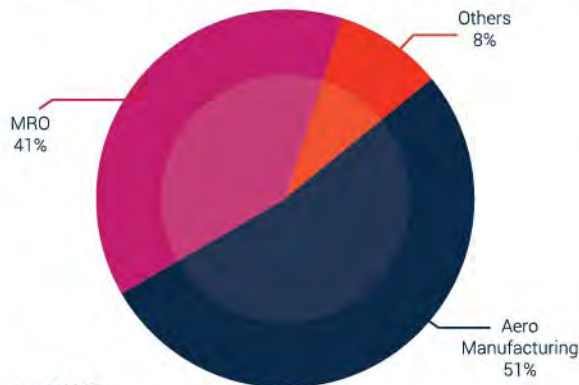


To further accelerate the development of quality talent for the aerospace industry, a Sub-Industry Working Group for aerospace industry has been established under the Human Capital Council. Under this initiative, NAICO collaborates with Talent Corporation Malaysia to develop the Critical Occupations List (COL) for aerospace industry. The COL was developed in consultation with the main industry players particularly the aerospace manufacturing and MRO. With the COL in place, it will be the guideline for aerospace human capital development by the academia and training institutions.



HUMAN CAPITAL

The aerospace industry currently employs approximately 21,200 workforce of which the aerospace manufacturing sub-sector takes the lead as the largest employer with 10,900 personnel (51%) followed by MRO at 8,700 (41%). The remaining 8% are employed by other sub-sectors namely Engineering & Design, System Integration, Training & Education, Research & Technology and Regulator.



Source: NAICO

Distribution of Manpower by Main Sub-sector

Among the industry-led initiatives for human capital development is the development of Industry Based Education Training (IBET) at Kolej Kemahiran Tinggi MARA (KKTM) Masjid Tanah, Melaka. This initiative is a collaborative effort between CTRM, Aerospace Malaysia Innovation Centre (AMIC), MARA, KKTM Masjid Tanah and NAICO. CTRM as the industry leader in aerospace manufacturing provides critical inputs for modules development while AMIC provides inputs on competency development. This initiative is expected to be finalised by Q3 2017.

Realising the need to develop competent workforce for Engineering & Design sub-sector, M-AeroTech leveraged on its Professional Development Centre (PDC) to develop specific Engineering Services training programme. This programme is in line with the Entry Point Project (EPP) 5 that aims to grow the Pure-Play Engineering Services in Malaysia.

RESEARCH & TECHNOLOGY

To sustain Malaysia's competitiveness at the global level, a specific programme for industry-led Research & Technology (R&T) was implemented under the Eleventh Malaysia Plan (11MP) High Value-added & Complex Product Development Programme. The aim of this programme is to develop high value products/processes for aerospace industry.

AMIC has taken the lead as the industry-led R&T centre to coordinate R&T projects with the industry and research institutions. Among the projects undertaken under this initiative include advanced aerospace tooling, online automation system, smart robotics manufacturing system and virtual reality for training & factory optimisation. These projects are also in line with MITI's initiative to promote the implementation of 4th Industrial Revolution (4IR) initiative in Malaysia.



MALAYSIA AEROSPACE INDUSTRY ASSOCIATION (MAIA)

The Malaysia Aerospace Industry Association (MAIA) was established in 2016. It is a non-governmental organisation whose function is to represent the interest of all Malaysian aerospace companies to develop Malaysia's status as the aerospace hub in Asia. MATRADE as the national export promotion agency will play a main role as the association's lead facilitator.

MAIA's role is to provide industry insights to policy makers as the Government continues to chart the growth of Malaysia's aerospace industry. The partnership will ensure that the Government's policies are in line with the views of industry players.

CRUISING AHEAD

The Malaysian aerospace industry has now entered a new development phase after the successful implementation of the National Aerospace Blueprint 1997. The Malaysian Aerospace Industry Blueprint 2030 charts the new milestones for the future of the aerospace industry. With a new set of targets, the industry is now ready to soar to a greater height.

In the coming years, total air traffic for the region is forecasted to grow at an average of 6.2%. By 2035, passenger traffic throughout Asia will constitute 48.7% of global passenger traffic. More commercial aircraft are being produced today than at any other time in history. Thus, this has led to the increasing needs by the airlines to expand and modernise its' current fleets. Airbus and Boeing forecasted that over the next 20 years, Asia will need more than 15,000 airplanes, valued at \$2.35 trillion. The fast-growing low cost carriers within the region will also drive a need for more than 11,000 single-aisle aircraft. Local MRO players thus need to quickly develop new competencies to cope with future demands.

South-east Asia's dynamic regional aerospace market has left Malaysia well-positioned to capitalise from the industry. Currently, Malaysia is the home to more than 200 aerospace companies, enabling development of a vibrant local supply chain comprising both international and local industry players. The strong market demand has also accelerated the local supply chain.

The Government will continue to facilitate the growth of the aerospace industry by providing a facilitative environment and eco-system as well as attract more quality investments to Malaysia as this will accelerate local supply chain development and bringing advanced technology to the country. Implementation of the 4IR initiative will enhance Malaysia's competitiveness at the global arena. The export promotion of aerospace services will remain an important activity to promote Malaysia as the regional aerospace hub in South East Asia.

Industry facilitation by the Malaysian Aerospace Council is crucial in determining the way forward for the industry. Under the leadership of MITI, the Council is expected to be more aggressive in developing specific action plans towards achieving the target of Blueprint 2030.







**Featured
Products/Services**

Aero-manufacturing



Centre of Composite Excellence for Wing and Fan Cowl

Composites Technology Research Malaysia (CTRM), a member of DRB HICOM Berhad was established in 1990. CTRM Group comprises three subsidiary companies: CTRM Aero Composites, CTRM Composites Engineering and CTRM Testing Laboratory.

CTRM Aero Composites focuses on aerostructure, which contributes 96% of the Group's income. The company is the key supplier to Spirit Aero Systems and UTC Aerospace. The first aerostructure project was the Airbus A300 Fixed Trailing Edge (FTE) package. The business grew significantly over the years, from manufacturing simple flat panels to complex, high volumes of Airbus and Boeing work packages for the A320, A380, A400M, A350, and B737, B767, and B777. The latest in the portfolio is the Fenestron H130 from Airbus Helicopter. Other major customers include Airbus Defense and Space, Airbus UK, Korean Airlines, SONACA, and GKN Aerospace. CTRM is a single source supplier for A320 wing components - almost 5000 aircrafts around the globe have utilised CTRM panels. With recognition as the Center of Excellence for wing and fan cowl composite components, CTRM has strengthened its position in the aerospace industry.



To explore opportunities for expansion, CTRM is diversifying into the non-aerospace sector that focuses on marine, automotive and other modes of land transport. Product portfolios include Lotus Europa car body panel, Leisurecat Catamaran body panel, Mumbai/Scomi Monorail inner panel, Composite Radome (Radar Dome) for the Malaysian Armed Forces, and most recently, Composite Truck Body.

Meanwhile, CTRM Testing Laboratory which carries the ISO17025 accreditation was the first lab in Asia accredited with NADCAP AC7122 for Composite Material Testing in aerospace industry and offers testing services for all incoming receipt tests (IRT) and in-process testing (IPT), both of which are approved by BOEING and AIRBUS.



In the area of human resource development, Aero Composite Training Centre (ACTC), a training arm under CTRM, has embarked on a smart partnership with several local educational and technical institutions such as Kolej Kemahiran Teknologi MARA (KKTM), Advanced Technology Training Centre (ADTEC), German-Malaysia Institute (GMI), Institut Kemahiran Belia Negara (IKBN), and Institut Latihan Perindustrian (ILP). CTRM has been working closely with Jabatan Pembangunan Kemahiran (JPK), Ministry of Human Resource Malaysia to develop a comprehensive module on aerocomposite manufacturing in order to develop highly-skilled manpower for current and future needs.



The latest in the series of strategic collaboration is the development of Diploma and Degree courses in aerocomposite manufacturing technology with DRB HICOM University (DHUAM), expected to complete and enroll its first cohort in early 2018.

Looking ahead, CTRM aims to establish itself as the leading player in the industry serving as the supplier of choice for all composites manufacturing technology. In January 2015, CTRM completed the Building 5, a completely redesigned state-of-the-art facility equipped with high-tech machines and equipment to increase plant and manufacturing capability, with a focus to cater for high-volumes of A320 single aisle and A350 Fan Cowl production.

To date, CTRM's overall capabilities include 12 units of Autoclaves, 7 units of Ply Cutter, 7 units of CNC Machine and 10 units of NDT machine. The latest capability is the in-house core processing.

Moving forward, CTRM plans to further expand its existing facility with the construction of Building 6 in the 1st quarter 2017, a new structure that enables production requirements for the next three to five years.

Aero-manufacturing



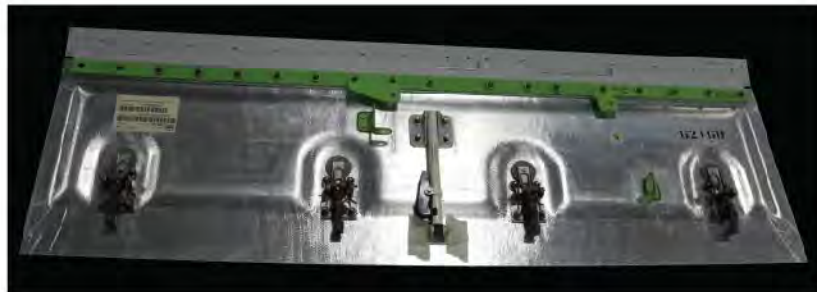
**AEROSPACE COMPOSITES
MALAYSIA SDN. BHD.**

Prime Leader in Fabrication of Advance Composites

Located in Bukit Kayu Hitam, Kedah, Aerospace Composites Malaysia Sdn Bhd (ACM) is a joint venture between Boeing Co. and Hexcel Corporation. ACM fabricates advanced composites, which are essential components to the flight of every Boeing commercial airplane. Examples of such components are wing-leading edge panels, ailerons, spoilers, flaps, structure composites bond assemblies and sub-assemblies.

ACM products are fabricated with focus and attention to detail with a firm commitment to excellence. All components are expertly hand-crafted from raw materials. ACM's culture of teamwork drives its number one objective to manufacture and deliver defect-free products to customers. ACM has always proven to have the best practices and compliance to customer requirements.

ACM high-performance staff drives its success, as they continually strive for new innovations and processes to make world-class products.



Aero-manufacturing

Honeywell

HONEYWELL (M) SDN. BHD.

Honeywell Aerospace – delivering safer, faster and more efficient and comfortable transportation-related experiences worldwide.

Honeywell Aerospace was first established in 1998 in Selangor. Today, Honeywell Aerospace operates out of a 220,000 square foot facility in Penang that officially opened in January 2009. The Penang facility produces integrated avionics systems for commercial, business and general aviation and military aircraft.

For business aviation, the Penang site provides avionics and information systems for business jets, turboprops and twin-turbine helicopters.

For commercial air transport, the site's products include automatic flight controls, electronic flight displays, navigation systems, flight management systems, flight reference sensors, surveillance and warning systems (such as wind-shear detection and collision avoidance systems), weather radar, weight and balance systems, communications systems (such as SATCOM and radios), safety and flight control systems and complex radio frequency (RF) systems and air data systems.

Honeywell has a long history and track record of providing services and innovative product solutions to all the major Malaysian airlines while working with the Government to enhance Malaysia's air traffic management for efficient air travel.

Key Honeywell Benefits:

- ▲ Optimise your aircraft's performance with advanced technology modifications and upgrades from an industry-leader
- ▲ Comprehensive range of products and integrated systems proven to reduce costs, improve performance and increase reliability
- ▲ Solutions designed to improve operational capabilities and lower cost of ownership
- ▲ Safety and productivity technologies deliver peak aircraft performance
- ▲ Efficiency solutions reduce delays and lower fuel burn
- ▲ Aircraft OEM engineering and design partnerships ensure optimal product and system performance
- ▲ Global repair, logistics and customer service network provides worldwide airline support



Maintenance, Repair & Overhaul (MRO)



SEPANG AIRCRAFT ENGINEERING (SAE) SDN. BHD.



Leading Aircraft MRO Service Provider

Sepang Aircraft Engineering was established in 2007 and is a Part 145-approved repair station for Airbus A330, Airbus A320 series and ATR aircraft.

The modern, fully-equipped facility is located at Kuala Lumpur International Airport and comprises of two separate hangars with one dedicated serviceable paint hangar. A wide range of aircraft maintenance activities varying from heavy base maintenance to light and daily checks are offered. In-house capabilities can be complemented by the services of our strategic partners to provide integrated MRO solutions. Supported by years of experience with dedicated and well-trained staff, we deliver on our commitments with the highest safety and quality standards.

Aircraft Type: Airbus A318/A319/A320/A321/A330, ATR 42/72

Hangar Activities and Engineering Services:

CAPABILITIES

- △ "C" heavy check
- △ Cabin Refurbishment
- △ Aircraft Full Painting
- △ Modification and STC Installation (Sharklet, Connectivities, amongst others)
- △ Repair Assessment
- △ Lease Return
- △ Structural Repair (Metal & Composite)
- △ Aircraft Weighing
- △ Fleet Technical Management (FTM)
- △ Airbus Working Party
- △ Airbus Flight Hour Services

Support and Component Workshops:

- △ Cabin Interior
- △ Composite Repair
- △ Flight Attendant Seat
- △ Landing Gear Cadmium Plating
- △ NDT
- △ Oxygen
- △ Painting
- △ Passenger and Pilot Seat
- △ Propeller Brake
- △ Radome
- △ Safety Equipment
- △ Seat Bay
- △ Sheet Metal Repair
- △ Thrust Reverser Support

CURRENT SUPPORT

Line and Base Maintenance	Scheduled and unscheduled maintenance, livery painting and full cabin refurbishment
Modification and STC Installation	Upgrade services. Eg A320 sharklet modification, WI-FI system installation
Airbus Corporate Jet Service Centre Network	Strategic long term partner for maintenance services, cabin refurbishment and upgrade
Airbus Avionics Radome Repair Centre	Airbus Avionics (F6198) radome repair centre in Asia Pacific for all types of Radome
Airbus Defence & Space	Airframe MRO, field service representative and material support for the Royal Malaysia Air Force (RMAF) on A400M Fleet
Airbus Flight Hour Services	Warehouse & logistic management, customer order desk and repair management
Ratier Figaec Repair Centre	Approved Ratier Figaec repair centre for propeller brakes in Asia Pacific

Maintenance, Repair & Overhaul (MRO)



SR TECHNICS SDN. BHD.

Striving to Transform the MRO Industry

With capabilities for 750 part numbers in its Kuala Lumpur facility, the SR Technics product portfolio is constantly expanding. Thanks to investments in state-of-the-art test equipment to repair existing and next-generation aircraft components, the company is able to offer high-quality and cost-efficient component services in the Asia-Pacific region and beyond.

Since its opening in April 2014, SR Technics Malaysia has repaired over 12,000 components for various customers and is actively seeking new opportunities to expand operations.

“Building on our 80 years of heritage as an MRO service provider, our component solutions are made to fit every requirement, extending from single services to fully integrated component solutions, using our own maintenance facilities and engineering capabilities for repairs,” explains Oliver Grassmann, Head of Component Services at SR Technics. “Customer experience is our top priority and we strive to continuously enhance this experience.”

SR Technics’ product portfolio encompasses the A320, A330, A340 and B737NG families and covers all aspects of modern MRO services including component maintenance, management, availability and financing. Furthermore, the company’s world-class logistics support customer requirements and help ensure seamless operations.

SR Technics is a world-leading MRO service provider for the civil aviation sector. Its 160,000 square foot component facility in Kuala Lumpur offers flexible services and competitive pricing. With an average 9-day turnaround, the company serves over 460 contracted aircraft in Asia-Pacific. SR Technics Malaysia is EASA, FAA, Malaysia DCA, CAAV and Indonesia DGCA certified.



Systems Integration



**CONTRAVES ADVANCED
DEVICES SDN. BHD.**

*Your Partner in Electronics Manufacturing, Assembly
& Testing*

Contraves Advanced Devices Sdn. Bhd. is a leading global supplier of electronics manufacturing for the aerospace, defence, maritime and industrial sectors. Established in 1980, Contraves specialises in printed circuit board assemblies, cable assemblies, cable harnesses, electromechanical assemblies (box build), product testing and engineering support services. Contraves is capable of developing customised functional test solutions to confirm the functionality of the products manufactured. Our core capabilities are complemented by a host of value-added services such as project management, supply chain management, metallic additive manufacturing, integrated logistics support and product lifecycle management.

Accredited to AS9100 Rev C, NADCAP AC7121, IPC-J-STD-001/610/620 Class 3, ISO 14001, and ISO 18001, Contraves takes pride in being cost efficient in delivering products on time while maintaining superior quality standards expected of suppliers especially in the aerospace and defence sectors. Major customers include Boustead Group, Rheinmetall Group, Airbus DS Airborne Solutions GmbH, Sapura Thales Electronics Sdn Bhd, Keysight Technologies Singapore Pte Ltd., Cohu Inc Semiconductor Group, IntreXis AG and SSM Schärer Schweiter Mettler AG.



Engineering & Design Services



**STRAND AEROSPACE
(M) SDN. BHD.**



Engineering the World Can Rely On

Strand Aerospace Malaysia Sdn. Bhd. (SAM) is a pure play engineering services company established in 2006 specialising in the provision of high value design and analysis services. The company’s engineering value has its roots in the European aerospace industry and holds AS9100 and Airbus approvals. SAM is the leading engineering services company in Malaysia under the Government’s Economic Transformation Program (ETP) serving both Western and Asian markets. SAM is also a member of the Malaysian Industry Council for Defence, Enforcement and Security (MIDES) and Malaysian Aerospace Industry Association (MAIA).

Our goal is to become the focal point for the global aerospace industry in Asia. With a track record of delivering global engineering projects and with support from our clients, we have expanded and diversified our operations into various industry verticals. To date, we offer the following services:

AEROSPACE :

Design and analysis of aerostructures, from concept phase to production and certification using our core capabilities in analysis for metallic and composite components, computer-aided engineering (CAE), fatigue and damage tolerance analysis including project management to AS9100 standards.

MECHANICAL ENGINEERING :

Application of mechanical engineering expertise gained from aerospace technology in the following:

<i>RAIL</i>	employing high-end engineering analysis for rail structures involving CAE and Fatigue and Damage Tolerance to support product life cycle estimations.
<i>AUTOMOTIVE</i>	weight-saving and structural optimisation.
<i>OIL AND GAS</i>	offshore platforms, and mobile structures (e.g. FBSOs) to ensure structural rigidity and integrity for continued safety and optimised cost of operation.

BUILDING & INFRASTRUCTURE :

Application of aerospace technology in deriving out-of-the-box solutions for current and future infrastructure challenges.

TRAINING :

SAM offers a range of high-end technical and non-technical training courses designed for the aerospace industry. In addition, SAM has collaborated with MARA to develop human capital for the engineering services industry.

BIG DATA :

SAM’s big data professional service offers an end-to-end solution from data discovery to turning data into business value and insights.

Education & Training



MARA AEROSPACE & TECHNOLOGIES SDN. BHD.

Complete Business Eco-System for the Aerospace Industry

MARA Aerospace & Technologies Sdn. Bhd. (M-AeroTech) is a Government-owned company under MARA (Majlis Amanah Rakyat, a statutory body of the Government of Malaysia). M-AeroTech's role is to implement the Asia Aerospace City (AAC), a national project geared towards making Malaysia a regional aerospace hub.

AAC represents a complete business ecosystem catering to the requirements of aerospace companies wishing to set up in Malaysia, as well as Malaysian companies diversifying into aerospace. M-AeroTech provides a complete end-to-end service through our Six Business Pillars:

ASIA AEROSPACE CITY - Our 6 Pillars



Education & Training



ADMAL AVIATION COLLEGE

ADMAL's Second Chance Program: Aircraft Manufacturing Technician (AMT)

ADMAL Aviation College is a local private college dedicated to aviation engineering in Malaysia. The main objective of the college is to provide quality aviation education in both knowledge and technical 'know-how'. The college complies fully with the Ministry of Higher Education Malaysia (MOHE), with its **Approval Reference DK096(B)** and all its programmes are accredited by Malaysian Qualifications Agency (MQA). ADMAL has also achieved the full Approved Training Organisation by Department of Civil Aviation (DCA) Malaysia, with its **Approval Number ATO/2015/03**. The college facility is strategically located at BBST Business Park, Sepang - only 10 minutes from Kuala Lumpur International Airport.



This programme provides trainees the basic aircraft manufacturing skills at our facility in Sepang. The various skills taught include sheet metal forming, riveting, assembly techniques, composite assemblies, parts fitting and machining. Trainees are also provided with working experience and training at aircraft component manufacturing companies such as Spirit Aerosystems, CTRM, SMEA and Senior Aerospace. Trainees will experience actual assembly and manufacturing skills on various aircraft parts and components.



This programme is specifically designed for trainees who are not academically inclined. Trainees will spend a period of 8 months, in which the first 2 weeks will comprise of introductory and preparatory classes on aeroplane structures, parts and manufacturing. They will also undergo the Basic Engineering and Safety Training (BEST) to ensure that they are well-prepared for working in large manufacturing facilities. The following 6 months take place at manufacturing facilities, covering all sections and phases of manufacturing an aircraft component. On completion of the practical component, trainees undergo an assessment before being selected as a staff member of the Aircraft Component Manufacturing Company.

ADMAL aims to produce professional, highly skilled technicians who can meet industry demand and are ready to work in aircraft manufacturing companies.

Research & Technology



aerospace malaysia innovation centre

**AEROSPACE MALAYSIA
INNOVATION CENTER (AMIC)**

Fostering Malaysian Aerospace Development Through Industry-led Research and Technology (R&T)

AMIC is meant to support and foster the aerospace ecosystem in Malaysia through its unique operating mechanism, whereby the research activities are led by world-class leading aerospace industrial players namely Airbus, Rolls Royce and Composite Research Technology Malaysia (CTRM). This ensures that the outcomes of the research and developments are tailored to provide solutions and improvement for cost savings and leaner manufacturing activities. AMIC also identifies upcoming research and potential technologies that suit the development roadmaps of the industry.

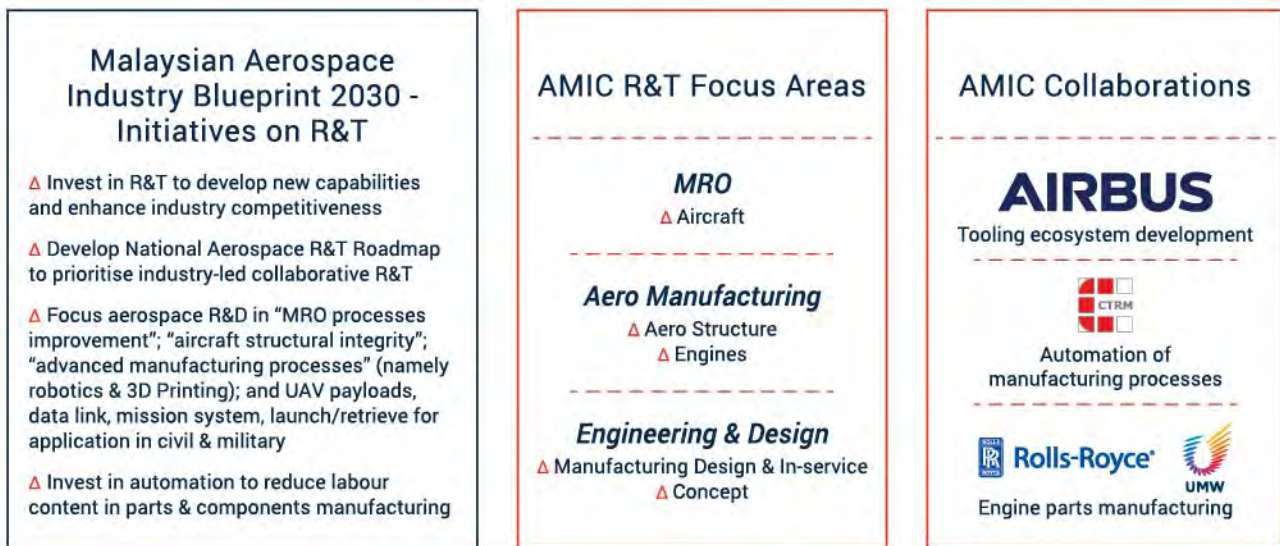


Figure 1: AMIC's R&T focus areas incorporating Blueprint 2030

AMIC's activities can be sectioned into two research themes - Factory of the Future and Sustainable Aviation. This follows the current industry demand to develop capabilities towards the 4IR era and be more responsible for its emissions through environmental awareness. A lot of the research activities are mostly related to industrial and manufacturing engineering, while the green environmental initiatives such as alternative fuel (bio jet fuel) and materials (BioSource materials) are geared to compliment current technology and make the future of aerospace less fossil fuel dependent.

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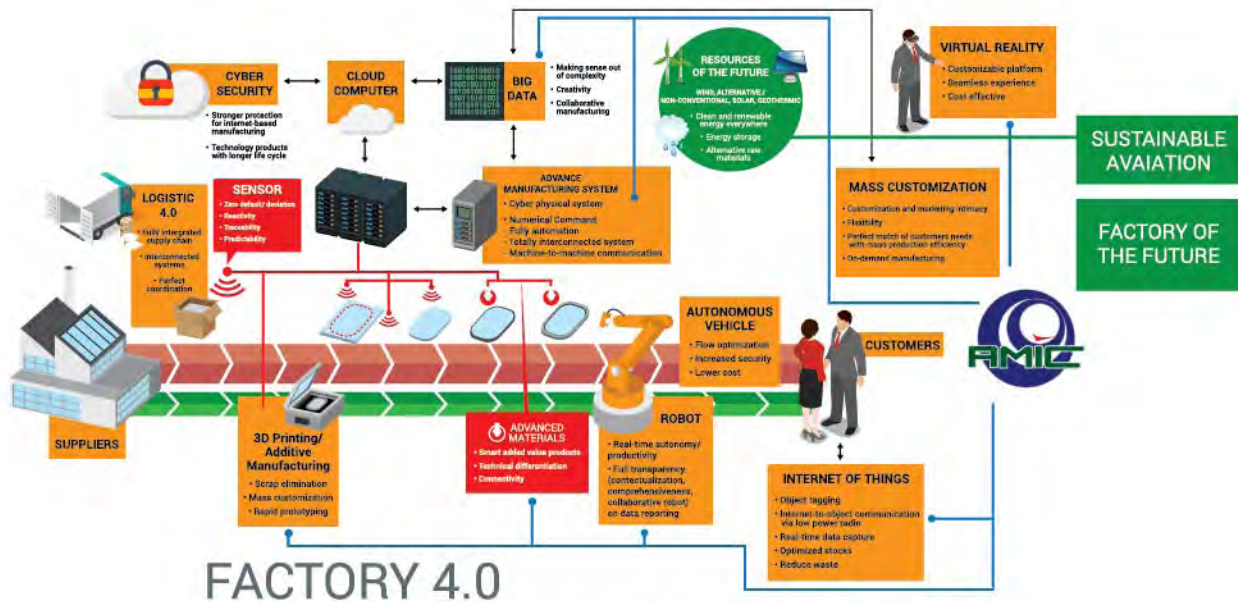


Figure 2: AMIC's involvement within the 4IR arena.

As an industry-led research center, AMIC adopted the Technology Readiness Levels (TRL) and Manufacturing Readiness Levels (MRL) concept to guide its research progress. Most of the projects are located within the TRL 5 and TRL 6 boundary, as well as within the MRL 3 and 4. The final objective is to bridge the gap between the fundamentals and the applications into Malaysian aerospace industries.

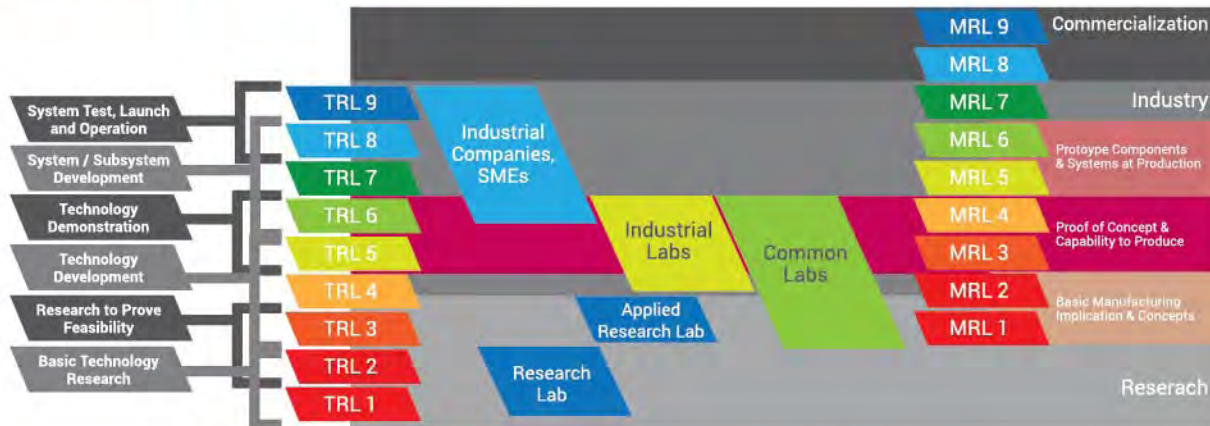


Figure 3: Technology Readiness Levels (TRL) and Manufacturing Readiness Levels (MRL)

These boundaries are popularly known as the “Valley of Death” for innovation and technology development. Due to its strong industrial backing however, AMIC is able to brave through this “Valley”, enabling breakthroughs in industrial application and commercialisation.

AMIC is committed to nurture the necessary technology advancements and fresh initiatives to cultivate research excellence and develop core capabilities within Malaysia’s SMEs to support the aerospace supply chain in the region. AMIC aims to deliver quality research and sustainable approaches to drive Malaysia’s vision to become the leading aerospace hub in Southeast Asia by 2030.

Tooling



WZ SATU BERHAD

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**WZS TECHNOLOGIES
SDN. BHD.**

The Preferred Aerospace Machinist

In 2015, WZS Technologies Sdn. Bhd. (WZST), sensing a gap, made a strategic shift into the aerospace industry with the vision to be one of the leading machining shop players in Malaysian aerospace industry serving the local, regional and global aerospace demand. Coupled with unyielding support from WZ Satu Berhad, the diversified Bursa Malaysia (public) listed parent company of WZST, strategic investments were made to acquire and equip the facilities with state of the art machineries including 5-axis milling centres to meet discerning aerospace industry demands. Production and fabrication works adopt Lean Manufacturing approaches. Enterprise Resource Planning (ERP) is deployed to manage procurements, work processes, deliveries and billing. Attention is directed towards making the machining shop world class.

The technical requirements of each tool are unique and variably complex. These are attended by a team of dedicated professional and qualified engineers trained to derive practical solutions to each problem.



The design office is equipped with Catia V5 6R2015, Solidworks 2015 and MasterCam X9 & 2017 computer aided design (CAD) work stations governed to interact with internationally acceptable DPD (Digital Product Definition) aerospace standard practices.

WZST's QMS (Quality Management System) is certified to EN9100:2009 (AS9100C and JISQ 9100:2009) by TUV Germany. Fixed and portable CMMs are deployed for quality assurance. A Laser Tracker unit is available for large structure tooling sub and assembly works precision dimensional validation. Nadcap accreditation is next in the list of priorities for special additional processes, especially for joining (welding) and surface treatment works.

Today, WZST has successfully delivered many tooling jigs and fixture products to local and overseas aerospace customers. Some of the tooling projects of various functionalities and complexities already undertaken to cater for various aircraft and engine programs are as listed below:

- △ Airbus A320 LR200, LR300 and Elevator Inspection Jig
- △ Airbus A321neo Fixed and Movable Fairing Assembly Jigs
- △ Boeing B737 MAX Marathon Doors Assembly Jigs
- △ Airbus A350 REFF (Root End Fixed Fairing) Jig and Lifting Beam
- △ Airbus A320 Aileron Invar Mould Tool
- △ Airbus A350 Flap Invar Moulds modification
- △ Airbus A400M Demould Tool
- △ Landing Gear Carbon-Carbon Rotor and Stator Shims machining
- △ Rolls Royce (RR) Trent 700, 800, 900 and 1000 Engine Stands parts and GSE (Ground Support Equipment) components

Correspondingly, the following are the major aerospace customers of WZST, largely Tier 1 and Super Tier 2 companies;

- △ Spirit AeroSystems Malaysia Sdn Bhd
- △ Composites Technology Research Malaysia (CTRM) Sdn Bhd
- △ Safran Landing Systems Malaysia Sdn Bhd
- △ UMW Aerospace Sdn Bhd
- △ AIROD Aerospace Technology Sdn Bhd
- △ Hydro Systems Co
- △ Dedienne Aerospace
- △ AMIC (Aerospace Malaysia Innovative Centre)

With the above, WZST has since established itself as the preferred premier aerospace tooling supplier in Malaysia.



In its next phase of growth, WZST is consciously embarking into machining aerostructures flying components, of soft and hard metals, and composite materials, moving on to mass production phase from the present largely jobbing nature of machining and fabrication works. Qualification with aerospace Tier 1 and Super Tier 2 companies are ongoing and are at an advanced stage. More 5-axis machines units will be installed in temperature and humidity controlled rooms, to meet these requirements.

WZST is open to opportunities to further embark into value added and sophisticated technologies including but not limited to Industry 4.0 FMS (Flexible Manufacturing System), shot peening, plasma coating, additive (3D) manufacturing and more.

In conclusion, WZST has strategically positioned and differentiated itself as a key player in aerospace tooling works. It is poised to grow further. Its shareholders are committed into investing in technologies and developing expertise. The next immediate plan is to step up into Tier 2, to mass production of aerostructure flying parts and components. WZST wishes to strengthen its role into making the aerospace manufacturing revenue 'cake' bigger and internationally competitive for Malaysia and in the process make Malaysia the number one aerospace nation in Southeast Asia as envisioned in the 'Malaysia Aerospace Industry Blueprint 2030'.

Legal

ABDULLAH CHAN
IN ASSOCIATION WITH CHILD & CHILD

Partners Aerospace Participants In Malaysia To Deliver Growth

ABDULLAH CHAN & CO.

Buoyed by strong support from the Government of Malaysia, the aerospace sector is seeing rapid and sustained growth, helping the Malaysian economy diversify even as the country adapts to the challenging global outlook ahead.

On the back of this growth and expansion, Abdullah Chan has worked with and advised various parties who are exploring a foray into the Malaysian aerospace industry. OEMs and Tier 1 companies from Europe and the Americas are looking for new supply chain participants; Malaysian companies from other sectors such as automotive and oil & gas are exploring whether they are able to participate and if so, how they may be able to join the aerospace sector; aerospace manufacturing and service provider companies from around the world are looking for opportunities to invest into and/or to partner with Malaysian aerospace participants. And as Malaysian aerospace participants themselves grow and expand, Abdullah Chan is working with them to help safeguard and expand their interests.

Although Malaysian companies have been participating in the aerospace industry for more than thirty years, the aerospace sector is still seen as relatively new in certain quarters. With strong industry knowledge in both the aviation and aerospace sectors, the company provides advisory services and expertise on transactional, regulatory and investigation matters. Aerospace companies operating in Malaysia regularly seek our advice and assistance in areas such as licensing and regulatory issues, rules and regulations that may apply to foreign equity and/or foreign participation in Malaysian companies, remittance of funds, applicable laws, cross-border contracts, governance and compliance issues. The company also work with companies looking for due diligence and assurance processes when considering joint ventures and merger & acquisition-type transactions.

Abdullah Chan is able to combine commercial insight, industry know-how, regulatory expertise and sound legal advice to achieve the best possible outcomes for our partners.

Initial Set-up & Acquisition

- Δ Purchasing a business/asset
- Δ Corporate due diligence process
- Δ Negotiating partnerships & joint ventures
- Δ Advising on corporate structures

Regulatory Matters

- Δ Licensing & Government approvals

Starting Operations

- Δ Licensing & Government approvals
- Δ Land matters
- Δ Employment matters
- Δ Compliance & governance
- Δ Bank facilities







Highlights

Key Investments



UMW ventures into High Value Manufacturing

A home-grown Malaysian company, UMW Aerospace Sdn. Bhd. (UMW Aerospace) is the first company in Malaysia to manufacture fan cases for Rolls-Royce's aero engines. With this collaboration, UMW Aerospace will be the single-source supplier for Rolls-Royce's Trent 1000 and Trent 7000 engines, the most advanced aero engine technology. This project will position UMW Aerospace as the Tier 1 supplier for Rolls-Royce's aircraft parts in Malaysia.



Located in Serendah, Selangor, the project will potentially transform the area into an aerospace hub for hard metal manufacturing, thereby accelerating the completion of aerospace ecosystem towards building a strong aerospace industry as envisaged by the Malaysia Aerospace Industry Blueprint 2030 (2015-2030).

This catalytic and strategic project will be a pivotal nerve centre in providing the technical know-how and technology transfer for Malaysians, and generating high income jobs and business opportunities for the local community. The knowledge and technology transfer will shift the local workforce to high value manufacturing in precision hard metal machining and assembly of aerospace parts. The setting up of the Rolls-Royce fan case manufacturing plant and UMW Training Centre will also provide a platform for human capital development.

Key Investments

Together
ahead. **RUAG**

**RUAG AVIATION
MALAYSIA SDN. BHD.**



Ruag's First Aviation Component Repair Center in Malaysia

The opening of RUAG Aviation International Malaysia, on 17 November 2016, confirmed the Swiss-based, aircraft support provider's commitment to the Malaysian aerospace industry. Serving as the component services hub for aviation customers and Original Equipment Manufacturers (OEMs) in Asia, including business, general, and military markets, RUAG Aviation International Malaysia expands the company's Maintenance, Repair and Overhaul (MRO) expertise to include the region and its interests. The component repair facility in Subang, Malaysia, achieved EASA Part 145 approval in September 2016.

RUAG Aviation maintains an extensive international network of aviation partners and a comprehensive portfolio of aviation services. The company continues to prove itself a trusted and reliable partner, fulfilling high Swiss quality standards, and focuses on its role as a leading and established supplier, life cycle support provider and integrator of systems and components for civil and military aviation. As such, RUAG is keen on strengthening its network in the region to better support all stakeholders, providing ready access to component services, including Malaysia in the company's global supply chain, and contributing to the further development of technical capabilities within the local workforce by engaging in effective knowledge sharing and skills.

The company is pursuing strategic partnerships with key airframe and component OEMs to become a regional Centre of Excellence and further expand the capabilities of the repair facility. Currently, the facility is established in providing full repair and overhaul services for starter generators. It is also in the midst of setting up the facilities for search and landing lights, as well as fuel boost pumps capabilities, ensuring the next phase of growth.

RUAG Aviation is a leading supplier, support provider and integrator of systems and components for civil and military aviation worldwide. Servicing aircraft and helicopters throughout their entire life cycle, the company's core competencies include MRO services, upgrades, and the development, manufacturing and integration of subsystems.

RUAG is an authorised service centre for renowned OEMs such as Airbus Helicopters, Bell, Bombardier, Cirrus, Cessna, Diamond, Dassault Aviation, Embraer, Leonardo-Finmeccanica (AgustaWestland), Piaggio, Sikorsky, Pilatus, Piper, and Mooney, as well as a service centre for 328 Support Services, Hawker Beechcraft, Viking und MD Helicopters. RUAG Aviation is also a partner to the Swiss Armed Forces and other international air forces. The company is also the manufacturer (OEM) of the Dornier 228, a versatile aircraft for challenging special missions and passenger and cargo operations. RUAG Aviation is an approved Part 21/J EASA Design Organisation, Part 21/G EASA Production Organisation, and Part 145 EASA Maintenance Organisation.



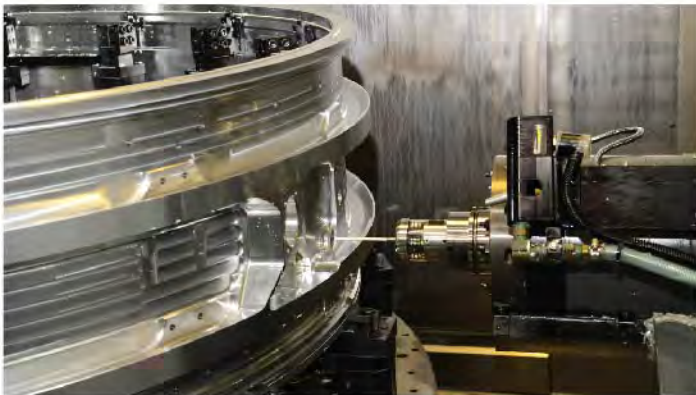
**SAM ENGINEERING AND
EQUIPMENT (M) BHD.**

Key Investments

SAM Malaysia's Aerospace Manufacturing Footprint in Malaysia

SAM Engineering and Equipment (M) Bhd. (also known as "SAM Malaysia") specialises in large format machining, precision engineering, equipment fabrication and automation for the equipment and aerospace industries. Its Malaysian facilities are located in Penang, Malaysia and encompass more than 450,000 ft² of built-up space dedicated to the fabrication and machining of complex, high-precision component parts, assemblies and tooling. This is supported by special processes such as anodising, cleaning, painting, epoxy application, fluorescent particle inspection, magnetic particle inspection and laboratory testing. SAM Malaysia has a current workforce of 770 passionate employees.

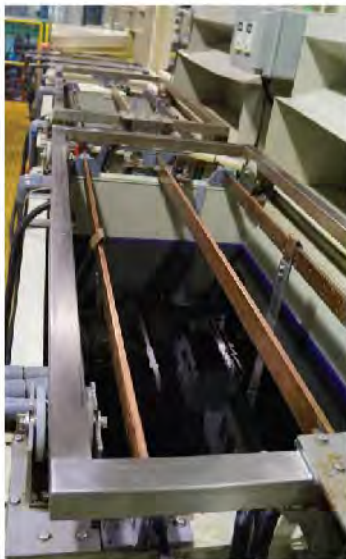
SAM Malaysia has 3 production facilities in Bayan Lepas, Penang, which are earmarked for its aerospace manufacturing business. It has been producing engine fan cases for a French engine maker since year 2009 and has delivered over 1,000 units to date. Today, it has expanded to produce and supply prismatic machined parts of up to 1.5 metres that are assembled into the nacelles of Boeing 787 Dreamliner, Airbus 350XWB and Bombardier C Series aircrafts. A new production facility in Bukit Minyak, Penang is expected to start operations in February 2017. The plant will produce machined nacelle beams for the Airbus 320neo aircraft family.



Key Investments



ASAHI AERO MALAYSIA



Asahi Aero is READY to serve ASEAN Aerospace Industry

Asahi Aero Malaysia Sdn. Bhd., was established in Malaysia in 2015. It is a joint venture company between Asahi Kinzoku Kogyo Inc. and Toyota Tsusho Corporation.

Asahi Kinzoku Kogyo Inc. has more than 40 years experience in special processes in Japan's aerospace industry and has set up their 1st overseas plant in Malaysia to serve the needs of the Asia Pacific region. As the Aerospace industry is booming in this region, Asahi Aero foresees a need to be present in Malaysia.

Currently, Asahi Aero has obtained AS9100 and NADCAP (Chemical Process) as well as Boeing D1-4426. Here are the approval processes:

<i>Process Name</i>	<i>Specification (Public)</i>	<i>Specification (Boeing)</i>	<i>Maximum Work Size</i>
Chromic Acid Anodize	MIL-A-8625	BAC 5019	800 x 900 x 200
Boric-Sulfuric Acid Anodize		BAC 5632	800 x 900 x 200
Chemical Conversion Coat	MIL-DTL-5541	BAC 5719	800 x 900 x 200
Cadmium Plating	AMS-QQ-P-416	BAC 5701	500 x 900 x 200
Zn-Ni Plating	AMS 2417		500 x 900 x 200
Cadmium Plating		BAC 5736, BAC 5845, BAC 5793	800 x 900 x 200

In addition, Asahi Aero plans to expand its facilities such as Sulfuric Acid Anodize and Passivation by Q3 of 2017.

Infrastructure Development



**MALAYSIA AIRPORTS
HOLDINGS BERHAD**

KLIA AEROPOLIS – Creating Tomorrow, Here

Malaysia Airports' latest and most ambitious endeavour, the KLIA Aeropolis is the very embodiment of its vision to become a global leader in creating airport cities. Airports in the 21st century have evolved into economic accelerators, catalysing and driving business development for the region.

Focusing on 3 key clusters – Aerospace & Aviation, Cargo & Logistics and Meetings, Incentives, Conferencing, Exhibitions (MICE) & Leisure - the development is synergistic with its airport business and perfectly aligned with the Malaysian Government's various development agendas. KLIA Aeropolis success will allow Malaysia Airports to strengthen its position as a regional economic enabler and contribute significantly to national GDP growth and job creation.

The development of the Aerospace & Aviation cluster is closely aligned to the Malaysia Aerospace Industry Blueprint 2030 and will facilitate the growth of the aerospace industry and aviation intensive-related businesses and industries such as Maintenance, Repair and Overhaul (MRO), Original Equipment Manufacturing (OEM) and Fixed-Based Operators (FBO). Ample land coupled with both airside and landside access, the development opens up a unique possibility to unlock potential for aviation business and MRO opportunities.



KLIA Aeropolis also exists as part of the Malaysia Airports' Aerospace Belt, which extends beyond KLIA to Subang and Melaka. Today, Subang has become a mature aerospace community that is well-known for MRO, training, FBO and manufacturing with the presence of world-renowned players such as Spirit Aerosystems, one of Boeing's major suppliers, as well as Airbus Helicopters and Leonardo (formerly known as AgustaWestland) which reside within a 20-acre Helicopter Centre. KLIA Aeropolis is expected to be an augmentation of the ready and mature Subang ecosystem.



Malaysia Airports aims to create value through synergistic collaborations with its business partners in order to achieve mutual benefits and provide solutions in terms of supply chain, human capital, infrastructure & equipment and technology. With this initiative Malaysia Airports aims to attract aerospace players to be part of the established ecosystem in Subang and subsequently expand their businesses towards the main gateway of the nation, KLIA Aeropolis – the emerging aerospace ecosystem.

Infrastructure Development



UMW LAND SDN. BHD.

UMW High-Value Manufacturing Park, Serendah

UMW High-Value Manufacturing Park, Serendah is a strategic initiative of UMW Group to create a high-value manufacturing (HVM) ecosystem following the completion of UMW Aerospace facility. The excellent progress with the former (as all milestones were reached) demonstrates UMW's ability as a capable partner to aerospace OEMs and Tier 1s.

To ensure that this world-class facility for HVM will be the preferred destination for international and local players, UMW Land has been tasked with developing this project, which encompasses 861 acres of land within Mukim of Serendah, a district of Hulu Selangor. It will house an HVM facility and additional ancillaries such as space for research, training and educational activities, all amidst a unique lifestyle for work, live and play, enhanced by green spaces. Included in the vicinity is a 3,000 sqm pre-production facility which will work on manufacturing future technologies, drive competitiveness and increase manufacturing capabilities of aerospace hard metal machining.



UMW High-Value Manufacturing Park Serendah is equipped to be the future of HVM industry in Southeast Asia by integrating sustainable design elements for urban longevity, providing a flexible and clearly defined growth zone through phased developments as well as being the centre of the HVM ecosystem to foster innovation.

This project is strategic in moving towards becoming the main HVM facility in the country.

Infrastructure Development



MMC CORPORATION BERHAD

Senai Airport City : Integrated Airport City Development

MMC Corporation Berhad (MMC), a Bursa Malaysia-listed company, is a leading conglomerate with diversified businesses in Ports & Logistics, Energy & Utilities, and Engineering & Construction. Senai Airport City Sdn Bhd (SACSB), a member of MMC and a master developer of Senai Airport City, a 2,718-acre industrial development is strategically located within Iskandar Malaysia, Johor. Senai Airport City provides the industrial development infrastructure required for various industrial sectors and is targeting the aerospace Maintenance, Repair and Overhaul (MRO) & Logistics, Free Industrial Zone, Hi-Tech & General Manufacturing plus Mixed Development segments.

Gazetted as a Free Zone, investors in Senai Airport City also enjoy various incentives under Iskandar Malaysia which include pioneer status, investment tax allowance, principal hub and/or regional distribution centre incentives and Approved Developer Status. Senai Airport City is directly connected via comprehensive road networks such as North-South Expressway, Senai-Desaru Expressway and Second Link to Singapore, making it accessible to 2 international airports: Senai International Airport in Johor and Changi International Airport in Singapore and also to major seaports such as Johor Port and Port of Tanjung Pelepas. This allows business operators to leverage on land, air and sea transport to major cities worldwide and landside access. The development opens up a unique possibility to unlock potential for aviation business and MRO opportunities.



Senai Airport City offers an attractive package to investors sourcing for prime land aimed at business expansion, complete with infrastructure, amenities and readily available labour catchment.

Infrastructure Development



**SENAI AIRPORT TERMINAL
SERVICES SDN. BHD.**

Senai Airport Aviation Park: The Emerging Aviation Hub In Southern Region

Senai Airport has evolved significantly over the past years, from practical hub to multi-functional aviation centre. In parallel with its growth, various development projects have taken place within the vicinity of Senai Airport, and one of the most significant land development projects that has been completed is the Senai Airport Aviation Park (SAAP).

SAAP was developed in 2012 by Senai Airport Terminal Services Sdn Bhd (SATSSB), which spans across 50 acres. SAAP is the main indicator to show SATSSB's aggressive commitment in promoting aviation related activities such as maintenance, repair and operations (MRO) and fixed based operation (FBO) activities, logistics and distribution centre, general aviation as well as aviation academy and training.



Located in an ample land on a prime location, with direct access to Senai Airport's runway and Senai Business Aviation Terminal (SBAT), SAAP has its advantage to be the premier aviation park of its kind as it has complete amenities and airport aerodrome facilities. SAAP also acts as a centrepiece for ground support services, customs and immigration handling services (CIQ Centre) besides providing premium security escort services.

Another unique point for SAAP is its close proximity to Singapore. It can allow investors to extract the benefits in many aspects from Singapore in the area of expertise and services. This is the first ever Aviation Park in Johor and it has the potential to complement the aerospace sector across the Strait of Johor, while aiming to be a one-stop destination in the aviation sector.

Current occupants at SAAP include Sapura Aero, Executive Jets Asia, Dilog Training School, C&A Aviation, while another 20 acres of land is still available for leasing.

Infrastructure Development



KULIM HI-TECH PARK

Malaysia's First Hi-tech Park

Kulim Hi-Tech Park, Malaysia (KHTP) is Malaysia's first, fully integrated hi-tech park. It is strategically located in the Kulim district of Kedah within the Northern Economic Corridor of Malaysia. Established in 1996, KHTP was a Federal government project and supported by the Kedah State Government.

Encompassing a total of 4,438 acres, KHTP is divided into 6 zones: Industrial, Recreation, Urban, Residential, R&D & Training and Institutional. All 6 form a comprehensive industrial ecosystem. KHTP Group was established to offer a complete portfolio of industrial-related, infrastructure, consultancy and training on aerospace, advanced engineering, biotechnology, robotic, and CNC technology services.

KHTP is widely recognised today by leading hi-tech multinational companies as among the top hi-tech parks in Asia that provides many viable reasons for companies to produce their high-value products within a conducive world-class business environment, beams for the Airbus 320neo aircraft family.



DISTINCTIVE LOCATION ADVANTAGES

- △ Large pool of local workers / talents
- △ High-quality electricity
- △ Clean, potable water
- △ Easy access to logistic network
- △ Tremendous government support
- △ Matured industrial eco-system
- △ Highly sustainable development
- △ Autonomous local authority
- △ Flexible and innovative incentives

With a holistic development in mind, KHTP welcomes global companies with cutting-edge or the most advanced technologies to use Kulim Hi-Tech Park as their offshore or domestic base to the Asia-Pacific market. The targeted industries are primarily in the fields of:

- △ Aerospace
- △ Wafer fabrication
- △ Semiconductors
- △ Renewable or Alternative Energy
- △ Advanced electronics
- △ Medical and scientific instruments
- △ Process control and automation equipment
- △ Optical and Electro-optical applications
- △ Optoelectronics
- △ Biotechnology
- △ Advanced Materials
- △ Contract R&D Services
- △ New and emerging technologies



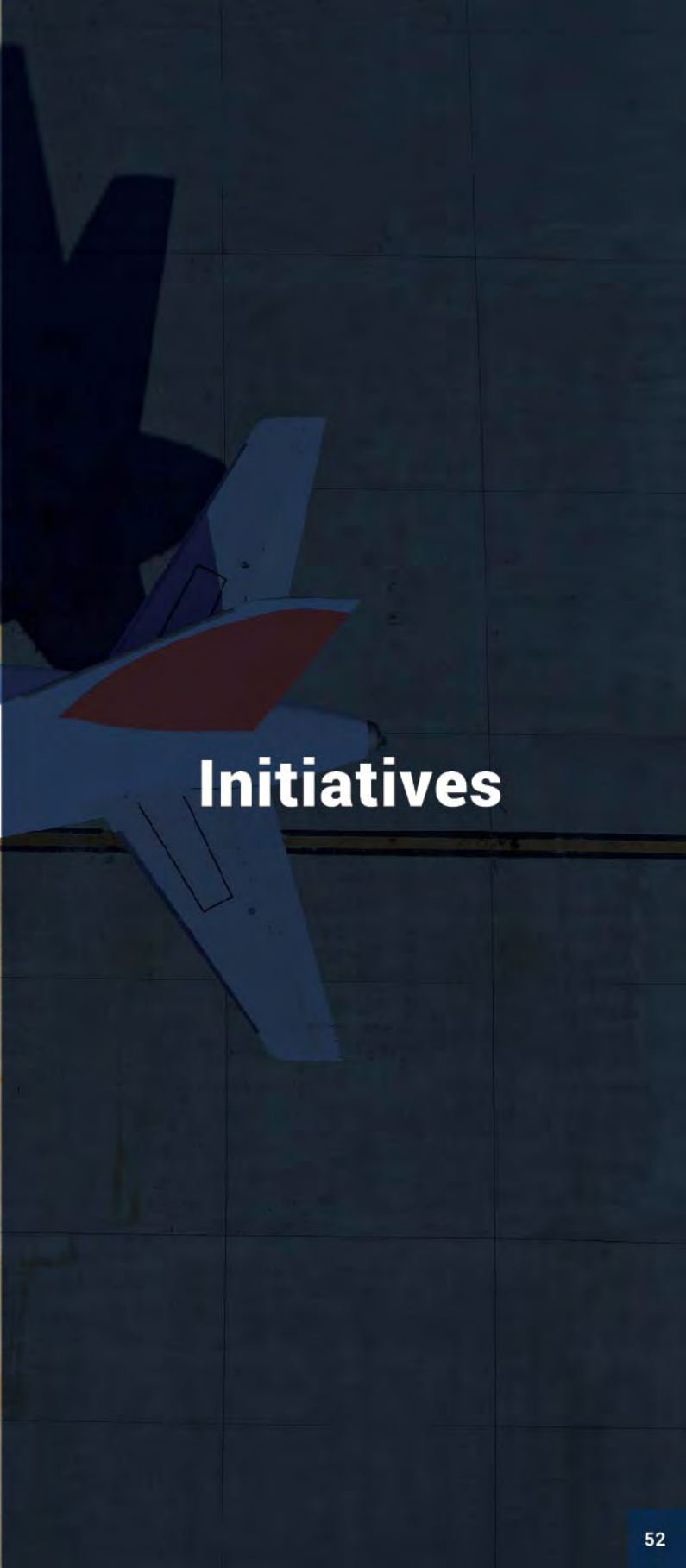
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Initiatives

Initiatives



**MALAYSIA AEROSPACE
INDUSTRY ASSOCIATION**

Serving Malaysia's Aerospace Industry

Introduction

MAIA was launched in March 2016 by the Minister of International Trade and Industry, Dato' Sri Mustapa bin Mohamed and started operations in September 2016, upon approval by the Registrar of Societies.

A Pro-tem Committee was formed, consisting of 17 major industry players. The governing body of the Association in its 1st year of operations is headed by President Naguib Mohd Nor (Strand Aerospace Malaysia), Deputy President Francis Hiew (Spirit AeroSystems Malaysia), Honorary Secretary Datin Shelina Razaly Wahi (Abdullah Chan & Co) and Treasurer David Jones (RUAG Aviation Malaysia). Since the start of operations, membership has grown to about 45 members, signalling the commitment of aerospace players to industrial growth in Malaysia.



Objectives of MAIA

The MAIA promotes the development of the Malaysian commercial aerospace industry along with the export of local products and services. It also represents and protects the interests of local industry players and provides a forum for Association members to exchange information and discuss issues of common interest.

MAIA Activities

Issues and concerns from members are addressed in the Technical Sub-committees (TSC). The TSCs are the main drivers of activities in the Association. There are 7 TSCs - Manufacturing, Maintenance, Repair & Overhaul (MRO), Research & Technology (R&T), Space, Human Capital, Systems Integration and Engineering Services.

As a service to its members, MAIA is currently building a database of capabilities and capacities of its members, to be used to market and promote Malaysian aerospace products and services to global aerospace players.

MAIA has also organised several seminars which have seen strong support from members. The seminar organised in USM Penang in January 2017 saw the participation of about 50 personnel from 20 aerospace players in the Northern region.



Initiatives



**SME CORPORATION
MALAYSIA**

SME Development: EPP8 Developing SMEs in the Global Aerospace Manufacturing Industry

The aerospace industry has grown substantially since the Government rolled out its first National Aerospace Blueprint in 1997. The sector has welcomed a surge of investment in recent years, with some of the world's largest multinationals establishing and expanding operations across a growing network of aerospace facilities. To ensure that Small & Medium Enterprises (SMEs) in Malaysia benefit from this opportunity, SME Corp. Malaysia has been tasked to spearhead a structured development programme for local SMEs with the objective to develop and integrate them into the global aerospace supply chain. In meeting this objective, a new **Entry Point Project 8 (EPP8): Developing SMEs in the Global Aerospace Manufacturing Industry** has been introduced, focusing on the development of SMEs involved in the aerospace industry in Malaysia.

EPP8 leverages directly on the recommendations of the Malaysia Aerospace Industry Blueprint and initiatives of EPP7, "Making Malaysia The Hub for Aerospace Original Equipment Manufacturers in Southeast Asia" while taking advantage for Malaysia to become 'Asia's Aerospace City'. EPP8 is designed based on the current scenario of the local industry that requires special attention in accordance to the three growth levers:

- △ Industry recognised capability and capacity
- △ Business market & industry development
- △ Investment, funding and incentives

EPP8 solely focuses on six key initiatives undertaken to ensure that the goals and missions of the Malaysia Aerospace Industry Blueprint can be achieved. Among the initiatives identified include:

- △ Obtaining OEM recognition and necessary certification;
- △ Strengthening the aerospace SME local ecosystem and supply chain to serve local as well as offshore higher-tier ecosystems;
- △ Developing Malaysian aerospace SME alliance (private sector-led) to champion the industry cause and be a platform to engage with the Government;
- △ Formulating Strategic Action Plans for the development of SMEs;
- △ Targetting strategic mergers of investments in SMEs (firms, technologies, IPs, etc) through joint ventures and acquisitions; and
- △ Leveraging on Government financing schemes and investment platforms such as MIDF, SME Bank, MDV and SME Catalyst Programme and HIP5.



Visit to Cranfield Aerospace Ltd (UK)

Targeting the increase of **gross national income (GNI)** in **2020** amounting to RM454 million, EPP8 is also set to **generate additional income of RM641 million** from the aerospace business by year **2020**. Both targets indicate that the manufacturing sector in the aerospace industry involving SMEs made a huge impact to Malaysia's economic growth. With the introduction of EPP8, the initiatives that will be implemented is seen as an opportunity for SMEs to explore the medium and large scale market including becoming the major distributor for ground-breaking aerospace companies in the world.

To kickstart the EPP8 program, a total of ten SMEs have been selected to be assisted in the form of capacity and capability building as well as facilitation to penetrate into new markets and linked with major players in the aerospace industry. Among the initiatives that are currently being implemented by SME Corp. Malaysia include assisting the participating SMEs to upgrade the status of certification and recognition that is deemed significant in the aerospace industry. In addition, assistance is also provided based on the Strategic Action Plans formulated by each SME which includes:



Cranfield Management Development Centre

- 1) Organisational Transformation
 - △ Productivity improvement
 - △ Implementation of LEAN System and AS9100 and NADCAP certification
 - △ Human resource capacity building
- 2) Technological Plans
 - △ Innovation and technology adoption
 - △ Production efficiency improvement
 - △ Acquiring additional special processes
- 3) Marketing Strategy
 - △ Development of marketing strategy
 - △ Development of websites
 - △ Participation at trade events
 - △ Partnering within SMEs

The selected SMEs also participated in the Cranfield Aerospace Programme, held from 18 – 22 July 2016 in UK. Participants were exposed to UK Aerospace best practices to upscale their business. The programme laid the foundation for growth and improvement of the companies while realising the main objective of the project, namely the development of the SMEs in the aerospace manufacturing sector.

To date, a total of six SMEs participating in the EPP8 program has been certified with the AS9100 certification, while the remaining four companies are expected to be certified by March 2017. During the project period, a total of 19 Non-Disclosure Agreements (NDA) were signed while 591 Request for Quotations (RFQ) were received. These early stage developments in NDA are positive indications that will bring the participating SMEs' engagement to the next level and closer to being appointed as approved suppliers.

Initiatives



**MARA AEROSPACE &
TECHNOLOGIES SDN. BHD.**

Industry Based Education Training (IBET)

Majlis Amanah Rakyat (MARA) through Kolej Kemahiran Tinggi MARA (KKTMM) Masjid Tanah has collaborated with Composite Technology Research Malaysia (CTRM) Sdn Bhd since 2015 to supply manpower for the aerospace industry in line with the Key Initiatives of the Malaysian Aerospace Industry Blueprint 2030. This collaboration will produce high income and skilled workforce specifically in four competence areas such as technical, social, humanity and learning methodology.

The programme curriculum follows the Aerospace Composite Manufacturing National Occupational Skills Standard (NOSS) under the Department of Skills Development. Graduates will be awarded a Diploma of Industry in Aerospace Composite Manufacturing by MARA and Malaysian Skills Diploma (MSD) Level 4 by the Department of Skills Development. The duration of the programme is three years and it is implemented by using The National Dual Training System. Apart from the education and training, the Industrial Based Education Training (IBET) at KKTMM Masjid Tanah offers services in research & technology, manufacturing and consultation & testing.

In 2016, KKTMM Masjid Tanah has been chosen by CTRM and AMIC as the center of excellence for aerospace composite manufacturing training and research. The focus areas are product design, materials, product manufacturing, product testing and characteristic analysis.

The objective of these collaborations is to provide exposure to the lecturers to gain knowledge related to manufacturing and research for aerospace industry products. At the same time, the collaboration can also be a platform for industrial training. The Teaching Factory concept has been implemented as a new approach in linking the training institutions to the industry.

MARA and KKTMM Masjid Tanah will continuously support the aerospace industry with this collaboration and look forward to working together with other organisations, particularly in research and technology (R&T) for aerospace composite manufacturing.



Initiatives



**TECHNOLOGY DEPOSITORY
AGENCY BERHAD**



Industrial Collaboration Programme (ICP)

Introduction

ICP is one of the avenues available for the Government to maximise the 'value for money' procurement programmes that utilise public funds. It is done through structured value-add activities leveraging on Government procurement policies.

ICP is triggered upon the award of any contracts that surpass the threshold value specified in the National ICP Policy. The selected suppliers/Original Equipment Manufacturers (OEMs) are obligated to assist the Government by way of providing local industries with platforms which create job opportunities and new businesses. This is where the suppliers/OEMs are required to deliver the obligations in compliance with the processes as stipulated in the Malaysia ICP Management Framework.

Government procurement is considered an 'investment' under ICP. In the event the Government spends monies to address some strategic requirements, ICP will create opportunities and generate economic returns to the country. Therefore, it is important for obligors to have an understanding that the 'obligations' imposed are regarded as opportunities for them to structure their business strategies in Malaysia. By having this mutual understanding, the Government and identified suppliers are able to create sustainable businesses benefiting the parties involved.

Objectives

The objective of ICP implementation in Malaysia is to provide a platform for the country to enjoy 'positive net revenue', generated from investments made through procurement programmes. It shall be achieved by:

- △ Fostering strategic international partnership;
- △ Maximising the usage of local content;
- △ Establishing a sustainable Malaysian industrial, economy and technological base;
- △ Encouraging technology and know-how development;
- △ Strategic R&D&C collaboration; and
- △ Facilitating investment and human resource development collaboration.



In general, ICP implementation is materialised by three approaches:

△ **Economic Enhancement Program (EEP)**

This approach is applied to Government procurements awarded to a Local Company (as the Prime Contractor) in which the contract value is worth more than RM100 million

△ **Offset (Direct / Indirect)**

This approach is applied onto Government procurements awarded to Foreign suppliers or OEM in which the contract value is worth more than RM50 million

△ **Counter Trade**

This approach is an alternative option by foreign suppliers/OEMs to deliver the identified obligations as part of an offset which applies to Government procurement awards with a value worth more than RM 50million.

ICP Management in Malaysia

National ICP Management Framework

Due to a large number of procurement programmes by the Government, ICP needs to be systematically implemented to ensure effective outcomes. Therefore, the National ICP Policy has introduced the National ICP Management Framework to be used as a guideline for its implementation. It is a set of processes to be adhered by procuring agencies and obligors in ensuring that ICP implementation achieves its objectives

Intelligent Database Management Systems

ICP is a tool that is able to support local economic growth if it is managed effectively. In order to improve and enhance its implementation and to ensure that it complies with the Malaysia ICP Management Framework, TDA has set-up the Intelligent Data Management System (IDMS). The IDMS platform creates a corroborative engagement with stakeholders in forms of a continuous collaborative approach and development of a technology repository database.

Success Stories

There are several success stories related to the local aerospace industry that has leveraged ICP as the mechanism to support development:

△ **Trent 900 Offset Programme (Completed)**

The Trent 900 Offset Programme was an initiative by the Government that leveraged on the A380 Engines procurement programme. It created collaborations between Rolls Royce (the supplier) and local industry players in forms of capacity and capability development. It is the first-of-its-kind commercial procurement that has triggered an offset programme. At its closure in 2015, the Trent 900 Offset Programme was recognised as a major contributor to the local economy by generating more than RM4 billion in revenue

Among the completed projects from Trent900 Offset Programme are:

- a. T56 Authorised Maintenance Centre (AMC) certification.
This project involved the granting of a full Authorised Maintenance Centre (AMC) status for T56 Engine MRO to Airod Turbopower (ATP) Sdn. Bhd. The AMC is needed to strengthen MRO capability in Malaysia.
- b. Aerospace Contract Manufacturing;
This project awarded work packages for the production of secondary engines, (both metal and composite), to local aerospace manufacturing companies such as CTRM Aero Composite (AC).

△ AW 189 ICP (Ongoing Programme)

The Ministry of Urban Wellbeing, Housing and Local Government has awarded a contract to TPG Aeronautik (M) Sdn. Bhd. for the acquisition of AW189 heavy size helicopters. Based on the policy, TPG Aeronautik is obligated to provide the Economic Enhancement Programme (EEP) to support local industry development which includes the initiatives in the Malaysian Aerospace Industry Blueprint 2030. The economic return expected from this ICP is worth approximately RM201 million, and is expected to be finalised by March 2017.

Among the proposed ICP projects are the enhancement of local MRO capacity and capability, human capital development, local vendor development and capturing regional MRO market access.

△ AW 139 ICP (Ongoing Programme)

The Ministry of Home Affairs has awarded a contract to Galaxy Helicopters Sdn. Bhd. for the acquisition of AW139 medium size helicopters. Galaxy Helicopters is obligated to provide the EEP with an economic return valued at RM154 Million.

The ICP projects consist of activities to enhance local MRO capacity and capability, develop human capital for industry support, domestic direct investment and capturing regional MRO and market access.





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A Glance into the Malaysian Aerospace Eco-System

MALYSIAN AEROSPACE ECO-SYSTEM

SUPPORTING GOVERNMENT AGENCIES

- △ MITI
- △ MIDA
- △ SME CORP
- △ MARA
- △ NAICO
- △ MATRADE
- △ PEMANDU
- △ TDA

REGULATOR

- △ ANGKASA
- △ DEPARTMENT OF CIVIL AVIATION MALAYSIA
- △ DIRECTORATE GENERAL TECHNICAL AIRWORTHINESS MALAYSIA
- △ ROYAL MALAYSIAN AIR FORCE (RMAF)

MRO

- △ MHS AVIATION
- △ DESTINI BERHAD
- △ HAWKER PACIFIC
- △ AGUSTAWESTLAND
- △ AIRASIA ENGINEERING
- △ AIRBUS HELICOPTER
- △ AIROD TECHNO POWER
- △ AJ AEROSERVICES
- △ ASIA AEROTECHNICS
- △ BHIC AERO SERVICES
- △ MAB ENGINEERING
- △ PARKER AEROSPACE
- △ GLOBAL TURBINE ASIA
- △ GE ENGINE SERVICES MALAYSIA
- △ HAMILTON SUNDSTRAND
- △ AIROD AEROSPACE TECHNOLOGY
- △ MYCOPTER AVIATION SERVICES
- △ SCANDANAVIAN AVIONICS
- △ SEPANG AIRCRAFT ENGINEERING
- △ SYSTEMATIC AVIATION SERVICES
- △ AAR LANDING GEARS SERVICES
- △ AEROSPACE TECHNOLOGY SYSTEMS CORPORATION (ATSC)
- △ POS AVIATION
- △ AIROD
- △ ZETRO
- △ AEROCLEAR
- △ RUAG
- △ VAS AERO
- △ HONEYWELL
- △ KOP AVIATION
- △ SR TECHNICS
- △ SAPURA AERO

AERO MANUFACTURING

- TIER 1**
- △ HONEYWELL AEROSPACE AVIONICS
- △ SAFRAN LANDING SYSTEMS
- △ SPIRIT AEROSYSTEMS
- △ UMW AEROSPACE
- TIER 2**
- △ AEROSPACE COMPOSITES MALAYSIA
- △ CELESTICA
- △ CTRM
- △ KAREL MANUFACTURING
- △ PLEXUS MANUFACTURING
- △ SAM AVIATRON
- △ SENIOR AEROSPACE UPECA
- TIER 3**
- △ BENCHMARK ELECTRONICS
- △ IAC MALAYSIA
- △ JECMETAL
- △ PARADIGM METAL INDUSTRIES
- △ PARADIGM PRECISION
- TIER 4**
- △ ALL METAL SERVICES
- △ ALLSTAR MANUFACTURING
- △ ASAHI AEROSPACE
- △ BOHLASIA STEELS
- △ INNOPEAK
- △ NEWTOOLS AUTOMATION
- △ WZS TECHNOLOGIES

SYSTEMS INTEGRATION

- △ ADVANCED AIR TRAFFIC (AAT)
- △ ATSB
- △ AVIALITE
- △ CONTRAVES
- △ CTRM SYSTEMS INTEGRATION
- △ IKRAMATIC
- △ PUSPEKA
- △ SAPURA SECURED TECHNOLOGIES

ENGINEERING & DESIGN

- △ AIRBUS CUSTOMER SERVICES
- △ AVIATION DESIGN CENTRE
- △ CAIDMARK
- △ CENTRE FOR AEROSPACE DESIGN (CA&D)
- △ MAWEA INDUSTRIES
- △ SDMK
- △ STRAND AEROSPACE
- △ STRIDE

AIRPORT SERVICES

- △ MALAYSIA AIRPORTS HOLDINGS
- △ POS AVIATION
- △ SENAI AIRPORT TERMINAL SERVICES

MILITARY AVIATION

- △ PASUKAN TENTERA DARAT
- △ ROYAL MALAYSIAN AIR FORCE (RMAF)
- △ KD RAJAWALI

COMMERCIAL AVIATION SATELLITE OPS

- △ AIR ASIA
- △ BERJAYA AIR
- △ FLY FIREFLY
- △ MEASAT SATELLITE SYSTEM
- △ MALAYSIA AIRLINES
- △ MALINDO AIR
- △ RAYA AIRWAYS

GENERAL AVIATION

- △ AWANI INSPIRASI
- △ EAGLE EXPRESS AIR CHARTER
- △ EXECUTIVE JETS ASIA
- △ FIRE AND RESCUE DEPARTMENT MALAYSIA
- △ FIREBIRD AVIATION SERVICES GROUP
- △ ISLAND AIR
- △ LAYANG LAYANG AEROSPACE
- △ MALAYSIAN MARITIME ENFORCEMENT AGENCY (MMEA)
- △ MHS AVIATION
- △ NEPTUNE AIR
- △ REDLAND AVIATION SERVICES
- △ ROYAL MALAYSIA POLICE AIR UNIT
- △ SAPURA AERO
- △ SAZMA AVIATION
- △ WESTSTAR AVIATION SERVICE

RESEARCH & TECHNOLOGY

- △ AMIC
- △ GERMAN-MALAYSIAN INSTITUTE
- △ IIUM
- △ KKTm MASJID TANAH
- △ UKM
- △ UM
- △ UniKL-MIAT
- △ UNIVERSITY OF NOTTINGHAM MALAYSIA CAMPUS
- △ UPM
- △ USM
- △ UTM

TRAINING AND HUMAN CAPITAL SOLUTION

- △ AACE
- △ ADMAL AVIATION COLLEGE
- △ ADTEC SHAH ALAM
- △ APR-AVIATION TRAINING CENTRE
- △ ASIA AEROSPACE CITY
- △ ASIA PACIFIC FLIGHT TRAINING
- △ AVIATION MANAGEMENT COLLEGE
- △ AWAN INSPIRASI
- △ DILOG TRAINING & SERVICES
- △ GERMAN-MALAYSIAN INSTITUTE
- △ IEDC
- △ IIUM
- △ INSTITUT KEMAHIRAN MARA
- △ INTERNATIONAL COLLEGE OF YAYASAN MELAKA
- △ KISMEC
- △ KKTm MASJID TANAH
- △ KOLEJ TAFE
- △ MALAYSIA AIRLINES
- △ MALAYSIAN AVIATION TRAINING ACADEMY
- △ MHS AVIATION
- △ MSU
- △ NILAI UNIVERSITY
- △ POLITEKNIK BANTING
- △ UITM
- △ UKM
- △ UniKL-MIAT
- △ UPM
- △ USM
- △ UTHM
- △ UTM

STAKEHOLDERS ENGAGEMENT & MEETINGS



1. MITI Day 2016 – YB Ministers visit to NAICO's Booth
2. Opening Ceremony of Asahi Aero Malaysia Sdn. Bhd.
3. Opening Ceremony of Ruag Aviation (M) Sdn. Bhd.
4. Signing Ceremony between GE and CFM International
5. Asian Aviation Centre of Excellence (AACE) inauguration of a new A330 Full-Flight Simulator
6. Malaysian Aerospace Council Committee
7. Malaysian Aerospace Council Press Conference
8. Way Forward For MARA TVET
9. The Japan Ministry of Economy, Trading And Industry (METI) & the Society of Japanese Aerospace Companies (SJAC) Mission to Malaysia
10. METI & SJAC visit to SPIRIT Aerosystems Malaysia
11. NAICO's Visit to Honeywell Malaysia
12. NAICO's Visit to SR Technics Malaysia

MITI's PARTICIPATION IN THE LANGKAWI INTERNATIONAL MARITIME AND AEROSPACE EXHIBITION (LIMA) 2017



1. Opening Remarks by YAB Prime Minister Dato' Sri Mohd Najib Bin Tun Abdul Razak, at LIMA'17 Official Opening Ceremony
2. Welcoming Remarks by YB Dato' Sri Mustapa Mohamed, Minister of MITI at the Soft Launch of the Malaysian Aerospace Industry Report 2016/2017 & MoU Exchange Ceremony at MITI Pavilion
3. MoU Exchange between GIFAS & MAIA on International Aerospace Collaboration at MITI Pavilion
4. Press Conference by YB. Dato' Sri Mustapa Mohamed, MITI at the Soft Launch of the Malaysian Aerospace Industry Report 2016/2017 & MoU Exchange Ceremony at the MITI Pavilion
5. YAB Prime Ministers Dato' Sri Mohd Najib Bin Tun Abdul Razak Visit to the MITI Pavilion
6. YBhg. Tan Sri Dr. Ali Hamsa, Chief Secretary to the Government of Malaysia visit to the MITI Pavilion
7. YB Dato' Sri Mustapa Mohamed, Minister of MITI Visit to the SME Pavilion
8. YB Dato' Sri Mustapa Mohamed, Minister of MITI officiating the Launch of Global Turbine Asia Sdn. Bhd. Manufacturing Facility at the SAFRAN Pavilion



9. YB Dato' Sri Mutapa Mohamaed, Minister of MITI meeting with GIFAS and MAIA and Head of Agencies
10. Meeting with SAFRAN and Head of Agencies chaired by YB Dato' Sri Mutapa Mohamaed, Minister of MITI
11. YBhg. Datuk Seri J. Jayasri, Secretary General of MITI attending the French Pavilion Networking Breakfast
12. Welcoming Remarks by YBhg. Datuk Seri J. Jayasri, Secretary General of MITI at the Open Forum on Aerospace Industry at the MITI Pavilion
13. Open Forum on Aerospace Industry at the MITI Pavilion
14. Aerospace Career Talk- Career Opportunities in the Aerospace Industry organised by NAICO in Collaboration with CTRM and MARA at the MITI Pavilion
15. Economic Planning Unit (EPU) Visit to the MITI Pavilion
16. Visitors visiting LIMA Pavilion during LIMA'17

A

AAR Landing Gears Services Sdn. Bhd.

17, Jalan Tiang U8/93,
Taman Perindustrian Bukit Jelutong,
40150 Shah Alam, Kuala Lumpur
☎ +603-7843 2626
☎ +603-7845 0161
🌐 www.aarcorp.com

Admal Sdn. Bhd.

Lot 24-34, BBST Business Park, Jalan 2,
Medan 120 Bandar Salak Tinggi
43900 Sepang, Selangor
☎ +603-8706 7800/7900
☎ +603-2142 9786
🌐 www.admal.com.my

Advance Aeronautics Training Centre

Lot 38021, Ipoh Airport,
Jalan Lapangan Terbang,
31350 Ipoh, Perak
☎ +605-313 7525
☎ +605-312 6408
🌐 www.aatc.edu.my

Advanced Air Traffic Systems (M) Sdn. Bhd.

No. 8, Jalan Pengacara U1/48,
Temasya Industrial Park,
40150 Shah Alam, Selangor
☎ +603-5569 1515
☎ +603-5569 2525
🌐 www.aat.my

Advanced Manufacturing Corp. (Penang) Sdn. Bhd.

PT1866 Tingkat Perusahaan 6B,
Kawasan Perusahaan Bebas Perai,
13600 Perai, Pulau Pinang
☎ +604-390 2882
☎ +604-390 0082
🌐 www.aimcorp.com.sg

AERO-Bildung GmbH

Suite 9.05, Level 9, Heritage House,
33 Jalan Yap Ah Shak, 50300 Kuala Lumpur
☎ +603-2732 9220
☎ +603-2732 9223
🌐 www.aero-bildung.de

Aerodome Services Sdn. Bhd.

Mezzanine Floor, Hangar 3 Old Cargo Complex,
Sultan Abdul Aziz Shah International Airport,
U 3, 47200 Subang, Selangor, Malaysia
☎ +60 3-7734 2856
🌐 www.sapura-aero.com

AeroDarat Services Sdn. Bhd.

Level 4, Main Terminal KLIA 1, Kuala Lumpur
International Airport 64000 Sepang, Selangor
🌐 www.malaysiaairlines.com

Aeroclear (Asia) Sdn. Bhd.

No. 8, Jalan Dinar A U3/A, Seksyen U3,
Taman Subang Perdana,
40150 Shah Alam, Selangor
☎ +603-7845 2177
☎ +603-7845 2398
🌐 www.aeroclear.com.my

Aerokwai Sdn. Bhd. (Sunero Asia)

No 34, Jalan Mega 1/5, Taman Perindustrian
Nusa Cemerlang, 81550 Gelang Patah, Johor
☎ +607-558 2376
☎ +607-554 6470
🌐 www.sunero.com

AeroHandlers Sdn. Bhd.

Old Cargo Complex, Sultan Abdul Aziz Shah
International Airport, U3, 47200 Subang, Selangor
☎ +603-7846 2304
🌐 www.aerohandlers.com

Aeroklass Sdn. Bhd.

No. 13-5, Jalan USJ 9/5Q, Subang Business
Centre, 47620 Subang Jaya, Selangor
☎ +603-8023 5145
☎ +603-8023 5146
🌐 www.aeroklass.com

Aerospace Composites Malaysia Sdn. Bhd.

Lot 224, Bukit Kayu Hitam Industrial Area,
60500 Bukit Kayu Hitam, Kedah
☎ +604-921 7822 / +604-922 2777
☎ +604-922 2888
🌐 www.acmsb.com.my / www.aero-bildung.de

Aerex Sdn. Bhd.

Lot 6, Jalan Tiara Sentral 1,
Tiara Sentral @ Nilai Utama Enterprise,
71800 Nilai, Negeri Sembilan
☎ +606-7999 702/ 703
☎ +606-7999 704
🌐 www.aerex.com.my

Aerospace Malaysia Innovation Centre (AMIC)

AMIC AAC R&T Centre,
No. 3-6-01, Level 6, Kompleks Teknologi 3,
German Malaysian Institute, Jalan Ilmiah,
Taman Universiti, 43000 Bangi, Selangor
☎ +603-8736 6000
🌐 www.amic.my / www.malaysiaairlines.com

Aerospace Partners Engineering Sdn. Bhd.

No. 5, Jalan Mega 1/10,
Taman Perindustrian Nusa Cemerlang, 81550
Gelang Patah, Johor
☎ +607-553 9380
☎ +607-5539 382
🌐 www.aerospacepartners.com.my

Aerospace Technology Systems Corporation Sdn. Bhd.

KM16, Jalan Gambang, P.O. Box 28
Jaya Gading, 26070 Kuantan, Pahang
☎ +609-538 3531
☎ +609-538 4660
🌐 www.atsc.com

Aerotree Defence & Services Sdn. Bhd.

No 5, Lorong Gurney Off Jalan Semarak,
54100 Kuala Lumpur
☎ +603-2693 1200
☎ +603-2693 2200
🌐 www.aerotree.com.my

Aero Precision Resources Training Centre

No 22, Jalan Dinar A, U3/A, Taman Subang
Perdana, 40150 Shah Alam, Selangor
☎ +603 7845 0133/3010
☎ +603 7845 0136
🌐 www.aeroprecision.com.my

AF Dot Engineering Sdn. Bhd.

5A Jalan Badminton 13/29, Seksyen 13,
40100 Shah Alam, Selangor
☎ +603-5512 2844
☎ +603-5512 2848
🌐 www.afjets.com/afdotengineering

AF Jets Sdn. Bhd.

Hangar D, Skypark RAC, Sultan Abdul Aziz Shah
Airport, Jalan Riyal U3/36, Bukit Jelutong
Industrial Park, 40150 Shah Alam, Selangor
☎ +603-5512 2844
☎ +603-5512 2848
🌐 www.afjets.com

Agusta Westland Malaysia Sdn. Bhd.

Old Cargo Complex SAAS,
47200 Subang, Selangor
☎ +603-7842 3026
☎ +603-7842 3029
🌐 my.agustawestland.com

Air Asia Berhad

Red Q, Jalan Pekeliling 5,
Kuala Lumpur International Airport (KLIA2),
64000 Sepang, Selangor
☎ +603-8660 4333/ +603-8662 4118
☎ +603-8775 4353
🌐 www.airasia.com

AirAsia X Berhad

RedQ, Jalan Pekeliling 5
Kuala Lumpur International Airport (KLIA2),
64000 Sepang, Selangor
☎ +603-86604600 / Fax:03-86607722
🌐 www.airasiax.listedcompany.com

Airbus Customer Services Sdn. Bhd.

Lot PT16, Jalan KLIA S7, Southern Support Zone,
Kuala Lumpur International Airport,
64000 Sepang, Selangor
☎ +603-8778 9600
☎ +603-8778 9601
🌐 www.airbus.com

Airbus Helicopter Malaysia Sdn. Bhd.

Helicopter Centre,
Malaysia International Aerospace Centre,
SAAS Airport, 47200 Subang, Selangor
☎ +603-7848 7600
☎ +603-7848 3409
🌐 www.airbushelicopters.com.my

Airbus Group (Malaysia) Sdn. Bhd.

Suite 23A-01, Level 23A, Menara HLA,
3 Jalan Kia Peng, 50450 Kuala Lumpur

☎ +603-2163 0233
☎ +603-2163 0211
🌐 www.airbusgroup.com

Airestec Sdn. Bhd.

B-9-10, Gateway Corporate Suites, Gateway
Kiaromas, 1, Jalan Desa Kiara, Mont Kiara,

50480 Kuala Lumpur

☎ +603-6203 1923
☎ +603-6203 1193
🌐 www.airestec.com

Air Venture Sdn. Bhd.

Unite G-2-11A, Taipan Damansara,
Jalan PJU1 A/3M, Ara Damansara,
47500 Petaling Jaya, Selangor

☎ +603-7842 6884
☎ +603-7724 1020
🌐 www.airventure.biz

Airfoil Services Sdn. Bhd.

No. 12, Jalan Teknologi, Taman Sains Selangor 1,
Kota Damansara PJU 5, 47810
Petaling Jaya, Selangor

☎ +603-6145 3600
☎ +603-6141 6813
🌐 www.airfoilservices.com

AIROD Sdn. Bhd.

Jalan TUDM, 47200 Subang, Selangor

☎ +603-7846 5112 ext 267/208
☎ +60-7846 4709
🌐 www.airod.com.my

Airod Aerospace Technology Sdn. Bhd.

Hangar 77, AIROD Complex, Jalan Lapangan
Terbang Sultan Abdul Aziz Shah,
47200 Subang, Selangor

☎ +603-78465112 / +603 78464488
☎ +603-78461395
🌐 www.airodaerospace.com

Airod Techno Power Sdn. Bhd.

Jalan Lapangan Terbang Sultan Abdul Aziz Shah,
47200 Subang, Selangor

☎ +603-7847 1672
☎ +603-7847 1673
🌐 www.atpower.services.com

AJ Aeroservices Sdn. Bhd.

Stesen Udara Subang,
Agensi Penguatkuasaan Maritim Malaysia,
40150 Shah Alam, Selangor

☎ +603-7842 5377
☎ +603-7842 5378
🌐 www.ajaeroservices.com

AKA Balloon Sdn. Bhd.

B1 - 28 - 2, Dataran Niaga Sg Besi, Midfields
Square West, Jalan 11/108C,
57100 Sg Besi, Kuala Lumpur

☎ +603 78422571/81
☎ +603-7981 8697
🌐 akaballoon.com.my

Alequip Sdn. Bhd.

Lot 10B, Jalan Simpang Balak, Off Batu 13,
Taman Cheras Jaya, 43300 Kajang, Selangor

☎ +603-2711 1071
☎ +603-2026 2751
🌐 www.alequip.com.my

Alpha Precision Turning & Engineering Sdn. Bhd.

2A, Jalan Lunas, Industrial Estate,
09000 Kulim, Kedah

☎ +604-489 6179
☎ +604 489 1885
🌐 www.alphaprecisionas.wixsite.com

All Metal Services (M) Sdn. Bhd.

No 2A, Jalan Hakim U1/24, Seksyen U1,
Hicom-Glenmarie Industrial Park, 40150 Shah
Alam, Selangor

☎ +60 378 035 643
☎ +06 378 035 634
🌐 www.allmetal.co.uk

Allstar Manufacturing Sdn. Bhd.

1058, Jalan Kebun Baru, Juru, 14100 Simpang
Ampat, Seberang Perai Tengah, Pulau Pinang

☎ +603-5888 0141
☎ +603-5879 0141
🌐 www.allstarfortress.com

AMP Corporation (M) Sdn. Bhd.

Lot 31, Jalan U1/35,
HICOM-Glenmarie Industrial Park, 40150 Shah
Alam, Selangor

☎ +603-5569 2020
☎ +603-5569 2025
🌐 www.amcop.com.my

APR Aerospace Engineering Sdn. Bhd.

Hanger 01, Lot No. GL-12, Terminal Building,
Melaka International Airport, 75350 Melaka

☎ +603-8778 8230
☎ +603-8778 8232
🌐 www.klas.com.my

APR-Aviation Training Centre Sdn. Bhd.

No. 22, Jalan Dinar A, U3/A, Taman Subang
Perdana, Seksyen U3, 40150 Shah Alam,
Selangor

☎ +603-7845 0133
☎ +603-7845 0136
🌐 www.aeroprecision.com.my

ARG Tech Sdn. Bhd.

No.9 Jalan 8/1, Seksyen 8, 43650
Bandar Baru Bangi, Selangor

☎ +603 8926 3202
🌐 www.arg-tech.org

AS Aero Services

No 64, Jalan IAN 1, Industri Angkasa Nuri,
76100 Durian Tunggal, Melaka

☎ +606 332 2740
☎ +606 332 3741
🌐 www.asaeroservices.com

Asia AeroTechnics Sdn. Bhd.

c/o Berjaya Hangar,
Sultan Abdul Aziz Shah Airport,
47200 Subang, Selangor

☎ +603 7842 3882
☎ +603 7845 1980
🌐 www.asiaaerotechnics.com

Asia Pacific Flight Training (APFT)

Sultan Ismail Petra Airport, Pengkalan Chepa,
16100 Kota Bharu, Kelantan

☎ +609 773 8722
☎ +609 773 8891
🌐 www.apft.edu.my

Astronautic Technology (M) Sdn. Bhd.

No. 2, Jalan Jururancang U1/21, Hicom
Glenmarie Industrial Park, Section U1
40000 Shah Alam, Selangor

☎ +603-5569 0100
☎ +603-5569 6109
🌐 www.atsb.my

Asahi Aero Malaysia Sdn. Bhd.

Lot 4, Jalan Perak, Telok Panglima Garang,
42500 Kuala Langat, Selangor

☎ +603-3122 6523
☎ +603-3122-6593
🌐 www.asahi-aero.com.my

Asian Aviation Centre of Excellence Sdn. Bhd.

Lot PT 25B, Jalan KLIA S5, 64000 KLIA,
Selangor

☎ +603-8777 8060
☎ +603-87778031
🌐 www.aace.asia

ATC Surface Finishing Sdn. Bhd.

No 1 & 3 Lorong Iks Juru 6,
Taman Perindustrian Ringan Juru, 14100
Simpang Ampat, Seberang Perai Tengah,
Pulau Pinang

☎ +04 508 2166
🌐 www.act-treatment.com

Aveo Engineering (M) Sdn. Bhd.

B2-2-2, Solaris Dutamas, No.1,
Jalan Dutamas 1, 50480 Kuala Lumpur

☎ +603-6205 3622
☎ +603-6205 3623
🌐 www.aveoengineering.com

Aveoasia Sdn. Bhd.

B-2-2-2, Solaris Dutamas, No.1,
Jalan Dutamas 1, 50480 Kuala Lumpur

☎ +6012-207 7828
☎ +603-6205 3623
🌐 www.aveoasia.com

Avialite Sdn. Bhd.

21, Jalan PBS 14/3, Taman Perindustrian Bukit
Serdang, 43300 Seri Kembangan, Selangor

☎ +603-8941 4227
☎ +603-8941 5227
🌐 www.avialite.com

Aviasian Sdn. Bhd.

12A-1, Dataran Sunway, Jalan PJU 5/15,
Kota Damansara, 47000 Petaling Jaya, Selangor
☎ +603-6157 7644
☎ +603-6157 2844

Aviation Design Centre Sdn. Bhd.

AIROD Complex B, Jalan TUDM Subang,
47200 Subang, Selangor
☎ +603-7831 3849
☎ +603-7846 8564
🌐 www.adc.com.my

Aviation Management College

22, Jalan 4/12B,
Seksyen 4 Tambahan
43650 Bandar Baru Bangi, Selangor
☎ +603-8926 5337
☎ +603-8926 6337
🌐 www.kolej.edu.my

Aviatron (M) Sdn. Bhd.

Plot 309, Jalan Perindustrian
Bukit Minyak 18, Penang Science Park,
14100 Penang
☎ +604-509 6868
☎ +604-509 6800
🌐 www.sam.sg

Awan Inspirasi Sdn. Bhd.

11th Floor, Menara Perak, 24, Jalan Perak,
50450 Kuala Lumpur
☎ +603-2264 5555
☎ +603-2164 3630
🌐 www.awaninspirasi.com.my

Azma Global Tech (M) Sdn. Bhd.

E-M27, Plaza Suria, Jalan PJU 10/4C,
Damansara Damai,
47830 Petaling Jaya, Selangor
☎ +603-6157 7054
☎ +603-6140 3887
🌐 www.azma.com.my

B**BAE Systems (International) Limited**

14th Floor West Block,
Wisma Selangor Dredging, 142-C
Jalan Ampang, 50450 Kuala Lumpur
☎ +603-2191 2600
☎ +603-2162 5163
🌐 www.baesystems.com

Benchmark Electronics (M) Sdn. Bhd.

Free Industrial Zone,
Phase 1 Bayan Lepas,
11900 Pulau Pinang
☎ +604-616 7051
☎ +604-644 2033
🌐 www.bench.com

Berjaya Air Sdn. Bhd.

Lot AM 1, Sky Park Terminal Subang Abdul Aziz
Shah Airport, 47200 Subang, Selangor
☎ +603-7847 1338
☎ +603-7842 2038
🌐 www.berjaya-air.com

Bohlasia Steels Sdn. Bhd.

18 Jalan Utarid U5/15, Seksyen U5,
40150 Shah Alam, Selangor
☎ +603-7842 1448
🌐 www.bohler-ohlasia.com.my

Bold Paradigm Sdn. Bhd.

B-3-13A Oasis Ara Damansara,
Jalan PJU 1A/7A, 47301
Petaling Jaya, Selangor
☎ +603-7832 2398
☎ +603-7832 2388
🌐 www.boldparadigm.com

BHIC AeroServices Sdn. Bhd.

Helicopter Centre, Malaysia International
Aerospace Center, SAAS Airport,
47200 Subang, Selangor
☎ +603-7859 6881
☎ +603-7845 3881
🌐 www.bhic.com.my

Biam Chemical and Engineering

No. 23-1, Jalan 1/54, Taman Bukit Anggerik,
Cheras, 56000 Kuala Lumpur
☎ +603-9100 3566
☎ +603-9101 7094
🌐 www.biam.com/org.htm

Boeing Aerospace (M) Sdn. Bhd.

Suite 3A -1, Level 4, Menara IMC, No. 8,
Jalan Sultan Ismail, 50250 Kuala Lumpur
☎ +603-2031 1706
☎ +603-2031 1716
🌐 www.boeing.com

Blue Lines Intel. Aviation

Aircraft Hangar A, Skypark Regional Aviation
Center, C/O Lapangan Terbang Sultan Abdul Aziz
Shah Jalan Riyal U3/36, Bukit Jelutong Industrial
Park 40150 Shah Alam, Selangor
☎ +603-7857 7995
☎ +603-9285 5978
🌐 www.bluelines.aero

C**CAE Flight & Simulator Services Sdn. Bhd.**

Lot 3A.01B(West Wing), Level 3A Menara BRDB,
285 Jalan Maarof, Bukit Bandaraya,
5900, Kuala Lumpur
☎ +603-2201 3870
☎ +603-2201 3382
🌐 www.cae.com/worldwide-presence/
cae-kuala-lumpur-training-centre/

Caidmark Sdn. Bhd.

53, Jalan SS21/56B, Damansara Utama,
47400 Petaling Jaya, Selangor
☎ +603-7729 2024
☎ +603-7727 9804
🌐 http://www.caidmark.com.my

Celestica Malaysia Sdn. Bhd.

Plot 15 & 16, Jalan Hi-Tech 2/3,
Phase 1, Kulim Hi-Tech Park,
09000 Kulim, Kedah
☎ +604-4033488
☎ +604-403 3279
🌐 www.celestica.com

Centre for Aerospace Design Sdn. Bhd. (CAeD)

Universiti Kuala Lumpur- Malaysian Institute of
Aviation Technology,
43800 Dengkil, Selangor
☎ +603-8768 8487
☎ +603-8768 8485
🌐 www.caed.com.my

CME Technologies Sdn. Bhd.

Lot 19, Jalan Delima 1/1, Subang Hi-Tech
Industrial Park, Batu Tiga,
40000 Shah Alam, Selangor
☎ +603-5633 1188
☎ +603-5634 3838
🌐 www.cme.com.my

COB Technology Asia Sdn. Bhd.

Lot 86, Jalan PKNK 2, Sungai Petani Industrial
Estate, 80000 Sungai Petani, Kedah
☎ +604-442 2668
☎ +604-442 1139
🌐 www.cob-tech.com

Composites Technology Research Malaysia Sdn. Bhd.

Level 2, EON Complex, Persiaran Kerjaya,
Seksyen U1, 40150 Shah Alam, Selangor
☎ +603-7880 0256
☎ +603-7803 9256
🌐 www.ctrm.com.my

Consist Aviation Sdn. Bhd.

Ground Floor, MZH Centre,
Lot 330, Batu 8, Jalan Ulu Kelang,
68000 Ampang, Selangor
☎ +603-4108 9355
☎ +603-4105 2625
🌐 www.consist.com.my

Contraves Advanced Devices Sdn. Bhd.

Block 3502, Enterprise Building 2, Jalan
Teknokrat 4, Cyber 5, 63000 Cyberjaya,
Selangor
☎ +603 8311 1000
☎ +603-8318 1610
🌐 www.contraves.com.my

Coraza Systems Malaysia Sdn. Bhd.

Lot 2777, Lorong Industri 5,
Kawasan Industri Bukit Panchor,
14300 Nibong Tebal, Pulau Pinang
☎ +604-595 8888
☎ +604-595 8888
🌐 www.corazasystems.com.my

Cranfield Aero Services & Safety Equipment Sdn. Bhd.

No. 15-3, 2nd Floor, PJU 5/3 Dataran Sunway, Kota Damansara, 47810 Petaling Jaya, Selangor

☎ +603-6148 1405
☎ +603-6148 5144
🌐 www.cranaero.com

CTRM Aero Composites Sdn. Bhd.

Composites Technology City, Batu Berendam Airport, 75350 Melaka

☎ +606-317 1007
☎ +606-317 1000
🌐 www.ctrm.com.my

CTRM Aviation Sdn. Bhd.

Composites Technology City, Batu Berendam Airport, 75350 Melaka

☎ +606-317 4105
☎ +606-317 7213
🌐 www.ctrm.com.my

CTRM Systems Integration

No 38&40 Jalan Astaka Seksyen U8/84A Seksyen U8 Bukit Jelutong, 40150 Shah Alam, Selangor

☎ +603-7831 6500
☎ +603-7832 6504
🌐 www.csyint.com.my

CTRM Testing Laboratory Sdn. Bhd.

CTRM Complex, Batu Berendam, 75350 Melaka

☎ +606 317 1007
🌐 www.ctla.asia

Curge Advance Sdn. Bhd.

Lot 53, Jalan UTAS 15/7 Seksyen 15, 40200 Shah Alam, Selangor

☎ +603-5523 8399
☎ +603-5523 9166
🌐 www.curgeadvance.com.my

D

Delta Masis (M) Sdn. Bhd.

No. 35B-2-2, Jalan 2/27F, Jalan Wangsa Delima 5, KLSC Wangsa Maju,

53300 Kuala Lumpur
☎ +603-4141 1266
☎ +603-4141 1288
🌐 www.deltamasis.com

Department of Civil Aviation, Malaysia

No 27, Persiaran Perdana, Aras 1-4, Blok Podium, Presint 4, Presint 3, 62618 Putrajaya

☎ +603-8871 4000
☎ +603-8889 5691
🌐 www.dca.gov.my

Destini Avia Technique Sdn. Bhd. (DAT)

No. 4, Jalan Kerawang U8/108, Perindustrian Tekno Jelutong, Seksyen U8, 40150 Shah Alam, Selangor

☎ +603-7734 6347
☎ +603-7734 4715
🌐 www.destinigroup.com

Destini Prima Sdn. Bhd.

No. 10, Jalan Jurunilai 01/20, HICOM Glenmarie Industrial Park, 40150 Shah Alam Selangor

☎ +603-5567 0333
☎ +603-5569 1233
🌐 www.destinigroup.com

Directorate General Technical

Airworthiness

Jalan Lapangan Terbang Sultan Abdul Aziz Shah, 47200 Subang, Selangor

☎ +603-7847 1672
☎ +603-7847 1673
🌐 www.atpower.services.com

Dilog Training & Services Sdn. Bhd.

338, Level 3, Block A, Kelana Centre Point, Jalan Ss7/19, Kelana Jaya, 47301

Petaling Jaya, Selangor
☎ +603-7880 5455
☎ +603-7880 5477
🌐 www.dilog.com.my

DRB-Hicom Defence Technologies Sdn. Bhd.

Lot 26, Jalan Pengapit 15/19, Section 15, 40200 Shah Alam, Selangor

☎ +603-5522 8888
☎ +603-5513 3100
🌐 www.deftech.com.my

D'Viation Solutions Sdn. Bhd.

F-G-11 Block F, No.2 Jalan PJU 1A/43B, NZX Commercial Centre, Ara Jaya, 47301

Petaling Jaya, Selangor
☎ +603-7885 9050
☎ +606-766 7370
🌐 www.dviation.com

E

Eaglexpress Air Charter Sdn. Bhd.

Block A-9-01, A-9-02, Oasis Square, Oasis Damansara, No. 2, Jalan PJU 1A/7A, 47301 Petaling Jaya, Selangor

☎ +603-7734 2880
☎ +603-7734 2883
🌐 www.eaglexpressair.com

E-Clust Technologies Sdn. Bhd.

17-2, Jalan AU1A/4B, Taman Keramat Permai, 54200 Kuala Lumpur

☎ +603-4256 0982
☎ +603-4256 0946
🌐 www.e-clust.com.my

Elite Flying Club Johor Bahru

Cargo Complex, Sultan Ismail International Airport, 81250 Johor Bharu, Johor

☎ +607-598 2813
☎ +607-598 6813
🌐 www.eliteflyingclub.com

EMS Aero Sdn. Bhd.

19C, Jalan 51A/227A, 46100 Petaling Jaya, Selangor

☎ +603-7954 8845
☎ +03-7958 8464

ESB Aero Club

Annex 1, Hangar 1, Kawasan Pesawat Ringan, Lapangan Terbang Sultan Abdul Aziz Shah, 47200 Subang, Selangor

☎ +603-7846 4733
☎ +603-7846 474
🌐 www.esbflyingclub.com

Espatial Resources Sdn. Bhd.

No 6-1-1 & 6-1-2, Jalan 3/50, Diamond Square Commercial Centre, Zoff Jalan Gombak, 53000 Kuala Lumpur

☎ +603-4022 1690
☎ +603-4021 1932
🌐 www.espatial.com.my

ESSOR Aerospace

5-2 Catallina Villa, 312A Jalan Ampang, 50450 Kuala Lumpur

☎ +603-4251 0568
☎ +603-4251 0568
🌐 www.linkedin.com/in/essoraerospace

Evergreen Aviation Resources Sdn. Bhd.

Unit 8-08, Blok A, Kelana Business Centre Jalan SS 7/2, 47301 Petaling Jaya, Selangor

☎ +603-7806 4001
☎ +603-7806 4001
🌐 www.evergreenaviationresources.com

Execujet Malaysia Sdn. Bhd.

Lot 4060 (AA/4/65), Sultan Abdul Aziz Shah Airport, 47000 Subang Selangor

☎ +603-7842 1330
☎ +603-7831 8539
🌐 www.execujet.com

Executive Jets Asia Sdn. Bhd.

Lot AP8, Senai Aviation Park, Senai International Airport, 81250 Johor Bahru, Johor

☎ +607-598 4360
☎ +607-598 3050
🌐 www.executivejetsaviation.com

F

FAS Udara Flying Club

No. 121, Ground Floor, Block A, Kelana Centre Point, Jalan SS 7/19, 47301 Petaling Jaya, Selangor

☎ +603-7805 2895
☎ +603-7805 2817
🌐 www.fasclub.com

**Fire and Rescue Department, Malaysia
Subang Air Base**

C/o AIROD Sdn. Bhd., Peti Surat 8236,
Pejabat Pos Kelana Jaya,
46785 Petaling Jaya, Selangor
☎ +603-7847 2643
☎ +603-7847 2106
🌐 www.bomba.gov.my

**'Firebird Aviation Services Group
(Malaysia) Sdn. Bhd.**

E-8-6, Megan Avenue 1, 189 Jalan Tun Razak,
50400 Kuala Lumpur
☎ +603-2333 8821
☎ +603-2333 8899
🌐 www.firebirdaviation-services.com

FlyFirefly Sdn. Bhd.

3rd Floor, Admin Building 1,
Complex A, Sultan Abdul Aziz Shah Airport,
47200 Subang, Selangor
☎ +603-7845 4543
☎ +603-7846 6461
🌐 www.fireflyz.com.my

FRAS Flying Club

Lot AO15/16, Level 1, Cargo Airline Office,
Senai Cargo Centre, 81250 Senai, Johor
☎ +607-599 5290
☎ +607-598 4701
🌐 www.fras.com.my

G

Gandtrack Asia Sdn. Bhd.

No 7, Jalan MJ53, Taman Merdeka Jaya,
75350 Batu Berendam, Melaka
☎ +606-317 6381
☎ +606-317 6380
🌐 www.gandtrack.co.uk

German-Malaysian Institute

Jalan Ilmiah, Taman Universiti,
43000 Kajang, Selangor
☎ +603-8921 9000
☎ +603-8921 9001
🌐 www.gmi.edu.my

GE Engine Services Malaysia Sdn. Bhd.

MAS Complex A-AA1802,
Sultan Abdul Aziz Shah Airport, 47200 Subang,
Selangor
☎ +603-5039 4519
☎ +603-7846 2021
🌐 www.ge.com

Global Aerospace Sdn. Bhd.

No. 37-B, Jalan TS 6/10A, Taman Industri
Subang, 47510 Subang Jaya, Selangor
☎ +603-5631 0019
☎ +603-5631 0067
🌐 www.globalaerospace.com.my

Global Turbine Asia

18-21, Helicopter Centre, Malaysia International
Aerospace Centre,
Sultan Abdul Aziz Shah Airport,
47200 Subang, Selangor
☎ +603-7846 7004
☎ +603-7846 7137
🌐 www.globalturbineasia.com

G7 Aerospace Sdn. Bhd.

A-2- 01 CoPlace 1, 2270 Jalan Usahawan 2,
63000 Cyberjaya, Selangor
☎ +603-8322 6393
☎ +603-8322 6693
🌐 www.g7aerospace.com.my

H

**Hamilton Sundstrand Customer Support
Centre (M) Sdn. Bhd.**

No. 9, Lengkok Keluli 2, 41050 Klang,
Selangor
☎ Tel: +603-3344 3000
☎ +603-3344 3002
🌐 www.hamiltonsundstrand.com

Hawker Pacific (M) Sdn. Bhd.

c/o Taiko Hangar, Sultan Abdul Aziz Shah Airport,
47200 Subang, Selangor
☎ +603-7842 1043
☎ +603-7842 1044
🌐 www.hawkerpacific.com

HeiTech Padu Berhad

15th Floor, HeiTech Village, Persiaran Kewajipan,
USJ 1, UEP Subang Jaya,
47600 Subang Jaya, Selangor
☎ +603-8601 3000
☎ +603-8024 7997
🌐 www.heitech.com.my

Helistar Resources Sdn. Bhd.

Lot 10, Helicopter Center Malaysia International
Aerospace Center Sultan Abdul Aziz Shah
Airport, 47200 Subang
☎ +603 7832 6003
🌐 www.helistar.my

HITECH Engineering Industries Sdn. Bhd.

Lot PT 23, Jalan Mutiara Kawasan Perindustrian
Nilai, Mukim Sentul, 71800 Nilai, Negeri Sembilan
☎ +606-7995 255
🌐 www.hitech-engineering.com

Hornbill Skyways Sdn. Bhd.

North Pan Hangar Kuching International Airport
P.O. Box 1387,93728 Kuching, Sarawak
☎ +608-2455 737
🌐 www.hornbillskyways.com

Hexcel Composites Sdn. Bhd.

Wisma Samudra,
Jalan Kontraktor U1/14, HICOM-Glenmarie
Industrial Park, 40150 Shah Alam, Selangor
☎ +603-5569 3510
☎ +603-5569 3460
🌐 www.hexcel.com

Hi-Tech Instruments Sdn. Bhd.

Head Office 19, Jalan BP 4/8, Bandar Bukit
Puchong, 47100 Puchong,
Selangor
☎ +603-8061 2228
☎ +603-8061 6668
🌐 www.htiweb.com

**HM Aerospace Sdn. Bhd. (Langkawi
Aerospace Training Centre)**

Jalan Kuala Muda, Padang Matsirat,
71000 Langkawi, Kedah
☎ +604-953 2000
☎ +604-953 2001
🌐 www.hmaerospace.com

**Honeywell Aerospace Avionics Malaysia
Sdn. Bhd.**

3057, Tingkat Perusahaan 4A, Kawasan
Perusahaan Bebas Prai, 13600 Prai, Pulau Pinang
☎ +604-392 1376
☎ +604-390 8917
🌐 www.honeywell.com

I

IAC Manufacturing (Malaysia) Sdn. Bhd.

No.9, Jalan TU 45, Taman Perindustrian Tasik
Utama, 75459 Ayer Keroh, Melaka
☎ +606-232 0067
☎ +606-232 3167
🌐 www.imaiaero.co.jp

Ikramatic Systems Sdn. Bhd.

No. 45, Jalan Juruanalisis U1/35,
Hicom-Glenmarie Industrial Park,
40150 Shah Alam, Selangor
☎ +603-5569 4675
☎ +603-5569 4653
🌐 www.ikramatic.com.my

Inisiatif Hati Sdn. Bhd.

No. 9-B, Jalan 15/1B, Seksyen 15,
Bandar Baru Bangi, 43650 Bangi, Selangor
☎ +603-8926 6086
☎ +603-8922 1997

Innopeak (M) Sdn. Bhd.

Lot 20, Jalan Teknologi 3/5, Selangor Science
Park 1, Kota Damansara,
47810 Petaling Jaya, Selangor
☎ +603-6141 7930
☎ +603-6141 7931
🌐 www.innopeak.com

Interiors Aeroservices (M) Sdn. Bhd.

No. 8, Jalan Astaka U8/82, Bukit Jelutong,
40150 Shah Alam, Selangor
☎ +603-7847 3376/3358
☎ +603-7847 3458
🌐 www.intaeroservices.com

International Aero Training Academy Sdn. Bhd. (IAT)

No 14179-1, OFF Jalan M44, Taman Merdeka,
75350 Batu Berendam, Melaka
☎ +606-3192 181/82
☎ +606-3192 180
🌐 iatac.edu.my

International College of Yayasan Melaka

No 1, Jalan Bukit Sebukor, 75150 Melaka
☎ +606-281 7732
☎ +606-281 6845
🌐 www.icym.edu.my

International Islamic University Malaysia

Faculty of Engineering, International Islamic
University Malaysia,
Jalan Gombak, 53100 Kuala Lumpur
☎ +603-6196 3423
☎ +603-6196 4853
🌐 www.eng.iium.edu.my/~mec

Island Air Sdn. Bhd.

Lapangan Terbang Subang, 47200 Subang,
Selangor
☎ +603-7846 5006
☎ +603-7846 5669
🌐 www.ytl.com.my

J

Jauhari Enterprises Sdn. Bhd.

Level 6 (Right Wing), Menara Liberty,1008,
Jalan Sultan Ismail, 50250 Kuala Lumpur
☎ +603-2693 6113
☎ +603-2693 5325

Jecmetal Industries Sdn. Bhd.

K96 Kawasan Perindustrian, Tanjung Agas,
84000 Muar, Johor
☎ +606-951 3369
☎ +606-952 6818
🌐 www.jecmetal.com

Johor Flying Club

Cargo Complex, Senai Airport,
81250 Senai, Johor
☎ +607-599 1255
☎ +607-599 0355
🌐 www.johorflyingclub.com

K

Karisma Wira (M) Sdn. Bhd.

No. 15, Jalan Jelatek 2, Pusat Perniagaan
Jelatek, 54200 Kuala Lumpur
☎ +603-4252 5555
☎ +603-4252 6666

KD Rajawali

Pangkalan TLDM Lumut, 32100 Lumut, Perak
☎ +605-681 8414
☎ +605-681 8396

Kedah Flying Club

Lapangan Terbang Sultan Abd Halim
06200 Kepala Batas, Kedah
☎ +604-710 1100
☎ +604-714 5051

**Kedah Industrial & Skills Management
Development Centre (KISMEC)**

126, Jalan PKNK 1/1, Kawasan Perindustrian
Sungai Petani 08000 Sungai Petani, Kedah
☎ +604-441 4619
☎ +604-441 4622
🌐 www.kismec.org.my

KL Airport Services Sdn. Bhd.

Jalan KLIA S6, Southern Support Zone, KL
International Airport,64000 Sepang, Selangor
☎ +603-8778 8000
☎ +603-8778 8038
🌐 www.klas.com.my

KL International Flying Academy Sdn. Bhd.

N-2-4, 1st Floor, Block N, Plaza Damas,
60 Jalan Sri Hartamas 1, Sri Hartamas,
50480 Kuala Lumpur
☎ +603-6201 2101
☎ +603-6201 2106
🌐 www.klifa.com

**KLIA Professional and Management
College**

Kompleks KLIA Holding, Jalan KLIA 1/70,
64000 KLIA, Selangor
☎ +603-8783 1002
☎ +603-8783 1040
🌐 kliacollege.edu.my

Kolej TAFE Seremban

Lot 5409, Mukim Ampangan, Jalan Sikerat,
70400 Seremban, Negeri Sembilan
☎ +606-763 6986
☎ +606-762 7994
🌐 www.tafeseremban.edu.my

Kobay Technology Bhd.

Lot 5409, Mukim Ampangan Jalan Sikerat,
7400 Seremban, Negeri Sembilan
☎ 604-3711338
☎ 604-2261363
🌐 www.kobaytech.com

KOP Aviation Sdn. Bhd.

3rd Floor, Police Cooperative Society's Building,
No. 1, Jalan Sulaiman,
50000 Kuala Lumpur
☎ +603-2273 2858
☎ +603-2273 2857
🌐 www.kopaviation.com

Kulim Advance Technologies Sdn. Bhd.

1st Floor, KHTP Techno Centre, Kulim Hi-Tech
Park, 09000 Kulim, Kedah
☎ +604-4031633
☎ +604-4031628
🌐 www.ktechno.com.my

**Kolej Kemahiran Tinggi MARA
Masjid Tanah**

Jalan Ramuan China Besar,
78300 Lubok China, Melaka
☎ +606-385 1107
☎ +606-9670590
🌐 www.kktmmasjidtanah.edu.my

L

**Layang-Layang Aerospace Sdn. Bhd. /
Layang Layang Helicopter Academy**

17-2, Layang-Layang Hangar, Terminal 2, Kota
Kinabalu International Airport, 88100 Kota
Kinabalu, Sabah
☎ +608-8484919
☎ +608-8484918
🌐 www.layangaero.com

Lipo Corporation Berhad

Plot 83, Medan Bayan Lepas Industrial Park, Hilir
Sungai Kluang Satu, Bayan Lepas Industrial Park,
11900 Bayan Lepas, Pulau Pinang
☎ +604-641 1888
☎ +604-642 0269
🌐 www.lipocorp.com

Luftaero Supply

17A, Lorong Rahim Kajai 13, Taman Tun Dr.
Ismail, 6000 Kuala Lumpur
☎ +603-2389 5403
☎ +603-2389 5403
🌐 www.luftaero.com

M

Malaysia Airlines Berhad

1st Floor, Administration Building, Southern
Support Zone, Kuala Lumpur International
Airport, 64000 Sepang, Selangor
☎ +603-8777 9591
☎ +603-8777 6393
🌐 www.malaysiaairlines.com

Maju Air Services Sdn. Bhd.

Level 21, Maju Tower 1001 Jalan Sultan Ismail,
50250 Kuala Lumpur
☎ +603-2772 8888
🌐 www.maju.com.my

Malayan Adhesives & Chemicals Sdn. Bhd.

No. 9, Jalan Utas 15/7,
40200 Shah Alam, Selangor
☎ +603-5566 1188
☎ +603-5566 1122
🌐 www.mac-resins.com

Malaysia Airports (Sepang) Sdn. Bhd.

3rd & 4th Floor, Airport Management Centre,
Kuala Lumpur International Airport, 64000
Sepang, Selangor
☎ +603-8776 2000
☎ +603-8926 5209
🌐 www.malaysiaairports.com.my

Malaysia Airports Holdings Berhad

Malaysia Airports Holdings Berhad, Corporate
Office, Persiaran Korporat KLIA, 64000 KLIA,
Sepang, Selangor
☎ +603-8777 7111
☎ +603-8777 7210
🌐 www.malaysiaairports.com.my

Malaysia Aviation Academy (MAVA)

Jalan Pekeliling 2, 64050 Sepang, Selangor
☎ +603-8777 9000
☎ +603-8787 1550
🌐 www.mava.dca.gov.my

MAB Kargo

1M Floor, Core 2, Zone C Advanced Cargo Centre,
Kuala Lumpur International Airport,
64000 Sepang, Selangor
☎ +603-8777 1762
🌐 www.maskargo.com

MASwings Sdn. Bhd.

Ground Floor, MAS/MASwings Administration
Building Off Jalan Petagas, Kota Kinabalu
International Airport, 88100 Kota Kinabalu, Sabah
☎ +608-851 5448
🌐 www.maswings.com.my

**Malaysian Aviation Training Academy
(MATA)**

Lot.14 Jalan Putra Square 7, D194 Putra Square,
25200 Kuantan, Pahang
☎ +609-513 3932
☎ +609-513 3936
🌐 www.mataaviation.com

Malindo Airways Sdn. Bhd.

No. 13617-1 Off Lapangan Terbang Batu
Berendam, 75350 Batu Berendam, Melaka
☎ +603-7841 5388
🌐 www.malindoair.com

**Malaysian Armed Forces Cataloguing
Authority (MAFCA)**

Kementerian Pertahanan 2,
Tingkat G, Blok B, Bangunan ZETRO,
Jalan 9/27C, Seksyen 5, Wangsa Maju,
53300 Kuala Lumpur
☎ +603-40274379
☎ +603-4027 4374
🌐 www.mod.gov.myite

Malaysian Flying Academy Sdn. Bhd.

No. 13617-1, Off Lapangan Terbang Batu
Berendam, 75350 Batu Berendam, Melaka
☎ +606-317 4026
☎ +606-317 4362
🌐 www.mfa.edu.my

**Malaysia International Aerospace Centre
Sdn. Bhd.**

Malaysia Airports Corporate Office, Persiaran
Korporat KLIA, 64000 KLIA, Sepang, Selangor
☎ +603-8777 7000
☎ +603-8777 7589
🌐 www.klia.com.my

Malaysian Maritime Enforcement Agency

Aras 4-11 ONE IOI Square, IOI Resort,
62502 Putrajaya
☎ +603-8995 7000
☎ +603-8941 4000
🌐 www.mmea.gov.my

Malaysian Remote Sensing Agency

No. 13, Jalan Tun Ismail,
50480 Kuala Lumpur
☎ +603-2697 3400
☎ +603-2697 3350
🌐 www.remotesensing.gov.my

Malaysian Transnational Trading Corp Bhd

No. 45-13, 1st Floor, Block C, Plaza Damansara,
Medan Setia 1, Bukit Damansara,
50490 Kuala Lumpur
☎ +603-2094 3868
☎ +603-2093 1002
🌐 www.mattra.com

Malledge (M) Sdn. Bhd.

18, Lengkok Kapal Taman Perindustrian Ringan,
Chain Ferry, 12100 Butterworth, Pulau Pinang
☎ +604-324 8422
☎ +604-324 6182
🌐 www.malledge.com

Management & Science University

University Drive, Off Persiaran Olahraga,
Section 13, 40100 Shah Alam, Selangor
☎ +603-5521 6868
☎ +603-5511 2848
🌐 www.msu.edu.my

MARA Aerospace & Technologies Sdn. Bhd.

Suite 3.01 Level 3, Menara OBYU, No. 4 Jalan
PJU 8/8A, Bandar Damansara Perdana, 47820
Petaling Jaya, Selangor
☎ +603-7731 7416
☎ +603-7495 5221
🌐 www.asiaaerospacocity.com

Masterplan Consulting Sdn. Bhd.

Level 1, Wisma Al-Hilmi,
No. 252, Jalan Bandar 12, Taman Melawati,
53100 Kuala Lumpur
☎ +603-4147 2790
☎ +603-4147 2791
🌐 www.masterplan.com.my

MAWEA Industries Sdn. Bhd.

30A, Jalan PJS 1/46, Petaling Utama,
46150 Petaling Jaya, Selangor
☎ +603-7783 3459
☎ +603-7781 6818
🌐 www.mawea.com.my

MEASAT Satellite Systems Sdn. Bhd.

MEASAT Teleport and Broadcast Centre,
Jalan Teknokrat 1/2, 63000 Cyberjaya, Selangor
☎ +603-8213 2188
☎ +603-8213 2233
🌐 www.measat.com

Meatech Aviation Training Department

No. 1-2, Jalan UTL 4, Bandar Universiti Teknologi
Lagenda, 71700 Mantin, Negeri Sembilan
☎ +606-758 7096
☎ +606-758 7110
🌐 www.meatech.edu.my

Megamars Sdn. Bhd.

27-1, Jalan 11/62A, Bandar Manjalara,
52200 Kuala Lumpur
☎ +603-6272 6598
☎ +603-6272 7124
🌐 www.megamars.com

MHS Aviation Berhad

No. 18, Blok H, Jalan PJU 1A/3, Taipan
Damansara 2, Ara Damansara,
47301 Petaling Jaya, Selangor
☎ +603-7842 8500
☎ +603-7842 9700
🌐 www.mhsaviation.com

Micron Concept Precision Sdn. Bhd.

Lot 1, Jalan Rivet 15/15, Seksyen 15,
40200 Shah Alam, Selangor
☎ +603-5519 6868
🌐 www.micronconcept.com.my

MNM Services Sdn. Bhd.

No. 12A, Jalan 2, BBST Business Park,
Bandar Baru Salak Tinggi,
43900 Sepang, Selangor
☎ +603-8706 2924
☎ +603-8706 0522

**Muhibbah Airline Support Industries
Sdn. Bhd.**

Lot 586, 2nd Mile, Jalan Batu Tiga Lama,
41300 Klang, Selangor
☎ +603-3342 4322
☎ +603-3348 7523
🌐 www.masi.com.my

Mycopter Aviation Services Sdn. Bhd.

Lot 10, Helicopter Centre, Malaysia International
Aerospace Centre, Sultan Abdul Aziz Shah
Airport, 47200 Subang, Selangor
☎ +603-7963 6852
☎ +603-7832 6852
🌐 www.mycopteraviation.com.my

N

National Aerospace & Defence Industries Sdn. Bhd. (NADI)

NADI Building PT 192, Jalan Lapangan Terbang Subang, 47200 Subang, Selangor

- ☎ +603-7844 7100
- ☎ +603-7859 1824
- 🌐 www.nadimalaysia.com

National Space Agency of Malaysia (ANGKASA)

National Space Centre, 42700 Banting, Selangor

- ☎ +603-3182 4000
- ☎ +603-3181 1324
- 🌐 www.angkasa.gov.my

Nash Aerostar Services Sdn. Bhd.

Suite A4-203 Level 2, Leisure Commercial Square, Jalan PJS 819, 46300 Petaling Jaya, Selangor

- ☎ +603-7865 6355
- ☎ +603-7865 0533
- 🌐 www.nashaero.com

Neptune Air Sdn. Bhd.

Suite 6.02, 6th Floor, Menara Keck Seng No.203, Jalan Bukit Bintang, 55100 Kuala Lumpur

- ☎ +603-2142 9996
- ☎ +603-2141 5231
- 🌐 www.neptuneair.com

Newtools Automation Sdn. Bhd.

7, Lintang Bayan Lepas 1, Bayan Lepas Industrial Park, Phase 4, 11900 Bayan Lepas, Pulau Pinang

- ☎ +604-643 5018
- ☎ +604-646 1880
- 🌐 www.newtools.com.my

Nexteamwork Corporation Sdn. Bhd.

No.22 & 24, Jalan TPP 5/5, Taman Perindustrian Puchong, 47100 Puchong, Selangor

- ☎ +603-8060 3132
- ☎ +603-8060 2938
- 🌐 www.nexteamwork.com

Nilai International University College

No.1, Persiaran Kolej BBN 71800 Putra Nilai, Negeri Sembilan

- ☎ +606-850 2338
- ☎ +606-850 2339
- 🌐 www.nilai.edu.my

NOK Singapore Sales Pte. Ltd.

Malaysia Regional Office, Suite B-05-07, Plaza Mont Kiara 2, Jalan Kiara, Mont Kiara, 50480 Kuala Lumpur

- ☎ +603-6201 9115
- ☎ +603-6201 0955
- 🌐 www.nok.com.sg

NUMIT Enterprise

32, Jalan Prima Tropika 3A, Taman Prima Tropika, 43300 Seri Kembangan, Selangor

- ☎ +603-8959 3436
- ☎ +603-8959 3436
- 🌐 www.numit.com.my

Nusantara Aviation Services Sdn. Bhd.

No. G-1-2 & G-2-2, Block G, Jalan PJU 1A/3, Taipan 2, Ara Damansara, 47301 Petaling Jaya, Selangor

- ☎ +603-7842 8477
- ☎ +603-7842 8471
- 🌐 www.nusantara-aviation.com

O

One Transaviation Painting Sdn. Bhd.

No. 1D Jalan Bukit Badak, Kg. Melayu Subang, 40150, Shah Alam, Selangor

- ☎ +603-7846 9022
- 🌐 www.otap.com.my

Oxysky Aviation Services Sdn. Bhd.

No 28-1, Jalan President F U1/F, Seksyen 1, Accentra Glenmarie Business Park, 40150 Shah Alam, Selangor

- ☎ +603-5569 9500
- 🌐 www.oxyskygroup.com

P

Pan Northern Air Services Sdn. Bhd.

Sultan Abdul Halim Airport, Kepala Batas, 06200 Alor Setar, Kedah

- ☎ 04-710 1111
- ☎ 604-714 5051
- 🌐 www.pannorthern.com.my

Paradigm Metal Industries Sdn. Bhd.

No. 2631, Lot 376 & 377, Lorong Perusahaan 10, Phase 3, Prai Industrial Estate, 13600 Prai, Pulau Pinang

- ☎ +604-390 2800
- ☎ +604-398 2408
- 🌐 www.pmi.net.my

Paradigm Precision Components Sdn. Bhd.

Plot 83, Medan Bayan Lepas, Bayan Lepas Industrial Park, Phase 4, 11900 Bayan Lepas, Pulau Pinang

- ☎ +604-6420 270
- ☎ +604-6420 269
- 🌐 www.ppc.net.my

Paramotor Adventure (M) Sdn. Bhd.

3-3, 2nd Floor, Jalan SP 2/7, Taman Serdang Perdana, Seri Kembangan, 43300 Serdang, Selangor

- ☎ +6019-216 7526
- ☎ +603-3120 1632
- 🌐 www.paraglidingmalaysia.com.my

Parker Hannifin (M) Sdn. Bhd.

Lot. 9, Jalan U1/26, HICOM Glenmarie Industrial Park, 40000 Shah Alam, Selangor

- ☎ +603-78061528
- ☎ +603-78034526
- 🌐 www.parker.com

Perfect Aviation Sdn. Bhd.

Lot No M.13 Skypark Terminal Sultan Abdul Aziz Shah Airport, 47200 Subang Jaya, Selangor

- ☎ +603-7846 9134
- 🌐 www.perfectaviation.com.my

Plexus Manufacturing Sdn. Bhd.

Lot 5409, Plot 87, Lebuhraya Kampung Jaya, 11900 Bayan Lepas, Penang

- ☎ +604-632 2000
- ☎ +604-632 2510
- 🌐 www.plexus.com

PointGate Systems Sdn. Bhd.

Lot 3419, House of PointGate, Jalan Tembusu, Kampung Melayu Subang, 40150 Shah Alam, Selangor

- ☎ +603-7831 9772
- ☎ +603-7847 1309
- 🌐 www.pointgate.net

Politeknik Banting Selangor

Persiaran Ilmu, Jalan Sultan Abdul Samad, 42700 Kuala Langat, Selangor

- ☎ +603-3120 1625
- ☎ +603-3120 1706
- 🌐 www.polibanting.edu.my

Pos Aviation Engineering Services Sdn. Bhd.

Headquarters, Jalan KLIA S6, Southern Support Zone, KL International Airport, 64000 Sepang, Selangor

- ☎ +603-8778 8230
- ☎ +603-8778 8232
- 🌐 www.klas.com.my

Prima Elite Technology Sdn. Bhd.

1st Floor, 17, Jalan Jelatek 2, Pusat Perniagaan Jelatek, 54200 Kuala Lumpur

- ☎ +603-4252 2200
- ☎ +603-4252 3300

ProtankGrüp

No 30, SS 25/23, Taman Mayang, 47301 Petaling Jaya, Selangor

- ☎ +603-7805 3190
- ☎ +603-7805 2930
- 🌐 www.protank.com.my

Puncak Teknologi (M) Sdn. Bhd.

Lot 41, Jalan Juruanalisis U1/35, HICOM-Glenmarie Industrial Park, 40150 Shah Alam, Selangor

- ☎ +603-5569 3030
- ☎ +603-5569 3018
- 🌐 www.puncak.com.my

**Pusat Latihan Teknologi Tinggi (ADTEC)
Shah Alam**

Lot 5934, Batu 6, Off Jalan Bukit Kemuning,
Seksyen 34, 40470 Shah Alam, Selangor
☎ +603-5161 2622
☎ +603-5161 2651
🌐 www.adtecsa.gov.my

PWN Excellence Sdn. Bhd.

Lot 14100, Pangkalan Udara, Jalan Tudm,
Kampung Subang Baru,
40150 Shah Alam, Selangor
☎ +603-7832 7975
☎ +603-7832 7974
🌐 www.pwne.com.my

R

Rafale International (Dassault Aviation)

Letter Box No.41, 18th Floor,
UBN Tower, No 10, Jalan P Ramlee,
50250 Kuala Lumpur
☎ +603-2070 1055
☎ +603-2070 2055
🌐 www.rafalemalaysia.com

**Raya Airways (formerly Transmile Air
Services)**

Raya Complex, Sultan Abdul Aziz Shah Airport,
47200 Subang, Selangor
☎ +603-7884 9898
☎ +603-7884 9899
🌐 www.rayaairways.com

Redland Aviation Services

AM-1, Skypark Terminal 3, Sultan Abdul Aziz
Shah Airport, 47200 Subang, Selangor
☎ +603-7845 6660
☎ +603-7845 6664
🌐 www.redlandaviation.com

Rolls-Royce Malaysia Sdn. Bhd.

Letter Box 102, 32nd Floor, UBN Tower,
10 Jalan P.Ramlee,
50250 Kuala Lumpur
☎ +603-2026 1990
☎ +603-2031 7990
🌐 www.rolls-royce.com

Royal Malaysia Police Air Unit

Jalan Lapangan Terbang Lama,
50460 Kuala Lumpur
☎ +603-2142 3975
☎ +603-2148 0857
🌐 www.rmp.gov.my

Royal Malaysian Air Force (RMAF)

Markas Tentera Udara, Wisma Pertahanan,
Jalan Padang Tembak, 50634 Kuala Lumpur
☎ +603 2071 4000
☎ +603 2694 2698
🌐 maf.mod.gov.my

Royal Selangor Flying Club

P.O Box 11769, 50756 Kuala Lumpur
☎ +603-2141 1934
☎ +603-2141 1982
🌐 www.rsfc.com.my

RUAG Aviation Malaysia Sdn. Bhd.

Lot 1-4, Ex-Customs Building, Helicopter Center,
Malaysia International Aerospace Center, Sultan
Abdul Aziz Shah Airport, 47200 Subang, Selangor
☎ +603-7859 9251
🌐 www.ruag.com

S

Sabah Air Aviation Sdn. Bhd.

SabahAir Building, Jalan Johor, off Jalan
Selangor, Locked bag 113,
88999 Kota Kinabalu, Sabah
☎ +6088-484 733/372
☎ +6088-484 214/387
🌐 www.sabahair.com.my

Sabah Flying Club

Old Airport Terminal 2, International Airport,
P.O. Box 10747,88808 Kota Kinabalu, Sabah
☎ +608-848 4406
☎ +608-848 4732
🌐 www.sabahflyingclub.org.my

Safran Landing Systems Malaysia Sdn. Bhd.

PT6406, Jalan Techvalley 7/2,
Sendayan Techvalley, 71950 Siliu,
Negeri Sembilan
☎ +606-7816688
☎ +606-7816667
🌐 www.safran-landing-systems.com

**Safran Aerospace Defense Security
Malaysia Sdn. Bhd.**

Suite 11-2, 11th Floor,
Wisma UOA 2,
Jalan Pinang, 50450 Kuala Lumpur
☎ +603-21661 722
☎ +603-2162 1829
🌐 www.safrangroup.com

SAM Meerkat (M) Sdn. Bhd.

Plot 103 & 104, Hilir Sungai Keluang Lima,
Taman Perindustrian Bayan Lepas 4,
11900 Penang
☎ +604 642 9992
☎ +604 642 6999
🌐 www.sam-malaysia.com

SAM Precision (M) Sdn. Bhd.

Plot 77 Lintang Bayan Lepas, Bayan Phase IV,
Non-Free Industrial Zone 11900 Penang
☎ +604-646 5654
☎ +604-46465649
🌐 www.sam-malaysia.com

Sanbumi Air Transport Sdn. Bhd.

33B, 1st Floor, Medan Imbi Off Jalan Imbi,
55100 Kuala Lumpur
☎ +603-2124 9999
🌐 www.sanbumiair.com

Sapura Aero z

Mezzanine Floor, Hangar 3, Old Cargo Complex,
Sultan Abdul Aziz Shah International Airport,
47200 Subang, Selangor
☎ +603-7846 2304
☎ +603-7734 2855
🌐 www.sapura-aero.com

Sapura Secured Technologies Sdn. Bhd.

Lot 26921, Jalan Rejang, Section 10,
Wangsa Maju, 53300 Kuala Lumpur
☎ +603-4145 9000
☎ +603-4145 9100
🌐 www.sapura.com.my

Sazma Aviation Sdn. Bhd.

Jalan Johor, Off Jalan Selangor, Tanjung Aru,
88100 Kota Kinabalu, Sabah
☎ +608-8448 540
☎ +608-8448 548
🌐 www.sazma.com.my

Scandinavian Avionics Malaysia Sdn. Bhd.

No. 35, Jalan Apollo U5/192, Bandar Pinggir
Subang, 40150 Shah Alam, Selangor
☎ +603-7846 2998
☎ +603-7846 2902
🌐 www.scanav.com.my

Schenker Logistics (Malaysia) Sdn. Bhd.

Lot No 1 & 3 Persiaran Pasak Bumi, Bukit
Jelutong Industrial Park, Seksyen U8,
40150 Shah Alam, Selangor
☎ +603-7949 7888
☎ +603-7949 7988
🌐 www.dbschenker.com.my

Senai Airport Terminal Services Sdn. Bhd.

Senai International Airport,
81250 Johor Bahru, Johor
☎ +607-599 4500
☎ +607-599 6624
🌐 www.senaiairport.com

Senior Aerospace UPECA

Lot 2-22, Jalan SU 6A,
Section 22, Lion Industrial Park, 40300 Shah
Alam, Selangor
☎ +603-2333 9299
☎ +603-5192 9311
🌐 www.upeca.com

**Science & Technology Research Institute
for Defence (STRIDE)**

Kompleks Induk STRIDE, Taman Bukit Mewah
Fasa 9, 43000 Kajang, Selangor
☎ +603-8732 4400
☎ +603-8733 5979
🌐 www.stride.gov.my

SDMK Sdn. Bhd.

No. 12, Jalan Sepadu 25/123A, Taman
Perindustrian Axis, Seksyen 25, 40400 Shah
Alam, Selangor
☎ +6016-228 1483
🌐 www.sdmkgroup.com

Select Aviation Services Sdn. Bhd.

12th Floor Penthouse (1309-B), Kelana Parkview
Tower, No. 1, Jalan SS 6/2, Kelana Jaya, 47301
Petaling Jaya, Selangor
☎ +603-7804 7747
☎ +603-7803 7747
🌐 www.selectaviation.com.my

Sepang Aircraft Engineering Sdn. Bhd.

Lot PT 16, Jalan KLIA S7, Southern Support Zone,
Kuala Lumpur International Airport, 64000
Sepang, Selangor
☎ +603-2145 1152
☎ +603-2141 1455
🌐 www.sepangaircraft.com

Seri Aero Jaya Sdn. Bhd.

22A, Jalan Tun Mohd Fuad, Taman Tun Dr Ismail,
60000 Kuala Lumpur
☎ +603-7728 2208
☎ +603-7727 2363
🌐 www.seriaero.com

Skyways Technics Asia Sdn. Bhd.

Sultan Abdul Aziz Shah Airport (SZB), Lapangan
Terbang Sultan Abdul Aziz Shah, 47200 Subang,
Selangor, Malaysia
☎ +6012-595 0544
🌐 www.skywaystechnics.dk

SME Aerospace Sdn. Bhd.

Lot 14643, Locked Bag No. 222,
47000 Sungai Buloh, Selangor
☎ +603-6286 0777
☎ +603-6156 6941
🌐 www.wt.smea.com.my

SME Aviation Services Sdn. Bhd.

Lot 14101, Pangkalan TUDM Subang
P.O.Box 7547, 63000 Shah Alam, Selangor
☎ 603-7846 8577
☎ +603-7846 4709
🌐 www.smeaviation.com.my

Smooth Route Sdn. Bhd.

Smooth Route Sdn. Bhd. Sultan Abdul Aziz Shah
Airport, 47200 Subang, Selangor
☎ +603-7846 2788
☎ +603-7846 2832
🌐 www.smoothroute.com

Solaire Sdn. Bhd.

Terminal 3, Subang Skypark
Sultan Abdul Aziz Shah Airport,
47200 Subang, Selangor
☎ +603-7845 4677
☎ +603-7845 8804
🌐 www.solaireaviation.com

Spirit AeroSystems Malaysia Sdn. Bhd.

Lot 1210, Seksyen U3, Malaysia International
Aerospace Centre, Jalan Lapangan Terbang
Subang, 40150 Shah Alam, Selangor
☎ +603-7841 9000
☎ +603-7841 9100
🌐 www.spiritaero.com

SR Aviation Sdn. Bhd.

Cessna Citation Authorized Service Facility,
Taiko Hangar, Sultan Abdul Aziz Shah Airport,
47200 Subang, Selangor
☎ +603-7846 2788
☎ +603-7846 2832
🌐 www.SmoothRoute.com

SR Technics Malaysia Sdn. Bhd.

Lot 3, Jalan Keluli 15/16, Section 15,
40200 Shah Alam, Selangor
☎ +603 5520 8400
🌐 www.srtechnics.com

Stahlwille Far East (Regional Office)

No. 24, Jalan 3/19, Taman Bukit Indah,
68000 Ampang, Selangor
☎ +603-4295 8248
☎ +603-4295 8248
🌐 www.stahlwille.com

Strand Aerospace Malaysia Sdn. Bhd.

Unit B.13.03 Menara BATA (Tower B), PJ Trade
Centre, No 8 Jalan PJU 8/8A,
Bandar Damansara Perdana, 47820 Petaling
Jaya, Selangor
☎ +603-7495 5222
☎ +603-7495 5221
🌐 www.strandeng.com

Subang Skypark Sdn. Bhd.

M17, Skypark Subang Terminal Sultan Abdul Aziz
Shah Airport, 47200 Subang, Selangor
☎ +603-7845 1717
☎ +603-7845 2727
🌐 www.subangskypark.com

Systematic Aviation Services Sdn. Bhd.

Hangar B&C, Sultan Abdul Aziz Shah Airport,
47200 Subang, Selangor
☎ +603-7846 9015
☎ +603-7846 9016
🌐 www.saaab.com.my

System Consultancy Services Sdn. Bhd.

No. 36, Jalan Wangsa Delima 6, Pusat Bandar
Wangsa Maju (KLSC), 53300 Kuala Lumpur
☎ +603-4149 1919
☎ +603-4149 2121
🌐 www.systemconsultancy.com.my

T

Telekom Malaysia Berhad

Level 51, North Wing, Menara TM,
Jalan Pantai Baharu, 50672 Kuala Lumpur
☎ +603-2240 1221
☎ +603-2283 2415
🌐 www.tm.com.my

**Terengganu Advanced Technical Institute
University College**

Kolej Universiti TATI, Kampus KUTATI
Jalan Panchor, Teluk Kalong,
24000 Kemaman, Terengganu
☎ +609-863 5041
☎ +609-863 5863
🌐 www.tati.edu.my

Thales Malaysia Sdn. Bhd.

15th Floor, Wisma Genting,
Jalan Sultan Ismail, 50250 Kuala Lumpur
☎ +603-2178 3800
☎ +603-2162 2602
🌐 www.thalesgroup.com

The Industrial and Scientific Co Sdn. Bhd.

No 53, Lee Chong Lin Industrial Estate,
21/2 Mile Off Jalan Pending,
93450 Kuching, Sarawak
☎ +608-233 3926
☎ +608-233 6931
🌐 www.industrialscientific.com.my

**TWI Training & Certification
(S.E. Asia) Sdn. Bhd.**

No 8, Jalan TSB 10, Sg. Buloh Industrial Park,
47000 Sungai Buloh, Selangor
☎ +603-6157 3526
☎ +603-6157 2378
🌐 www.twitraining.com

U

UMW Aerospace Sdn. Bhd.

No. 8, Jalan Utas 15/7, P.O Box 7052,
40915 Shah Alam, Selangor
☎ +603-5163 5000
☎ +603-5510 2418
🌐 www.umw.com.my

**UniKL Malaysian Institute of Aviation
Technology**

Lot 2891, Jalan Jenderam Hulu,
43800 Dengkil, Selangor
☎ +603-8768 8487
☎ +603-8768 8527
🌐 www.uniklmiat.com.my

Universiti Kebangsaan Malaysia

Level 3, Research Complex, Universiti
Kebangsaan Malaysia,
43600 UKM Bangi, Selangor
☎ +603-8911 8032
☎ +603-8911 8490
🌐 www.ukm.my/angkasa

Universiti Putra Malaysia

Department of Aerospace Engineering,
Faculty of Engineering, Universiti Putra Malaysia,
43400 Serdang, Selangor
☎ +603-8946 6400
☎ +603-8656 7125
🌐 www.eng.upm.edu.my

University Science of Malaysia

School of Aerospace Engineering
Engineering Campus, Universiti Sains Malaysia,
Seri Ampangan, 14300 Nibong Tebal,
Pulau Pinang
☎ +604-599 5901
☎ +604-594 1025
🌐 www.aerospace.eng.usm.my

University Technology of Malaysia

Department of Aeronautics, Automotive & Ocean
Engineering, Faculty of Mechanical Engineering,
Universiti Teknologi Malaysia
81310 Skudai, Johor
☎ +607-553 4631
☎ +607-553 4670
🌐 utm.my/aeronautics-automotive-ocean/

University Technology of MARA

Lot 41, Jalan Faculty of Mechanical Engineering
Tower 1, Level 9, Science & Technology Complex,
Universiti Teknologi MARA,
40450 Shah Alam, Selangor
☎ +603-5543 5161
☎ +603-5543 5160
🌐 fkm.uitm.edu.my

University Tun Hussein Onn

Faculty of Mechanical & Manufacturing
Engineering, Universiti Tun Hussein Onn
86400 Parit Raja Batu Pahat, Johor
☎ +607-453 7700
☎ +607-453 6080
🌐 www.uthm.edu.my

Unmanned Systems Technology Sdn. Bhd.

CTRM Aero Composite Building (B2),
Composite Technology City, Batu Berendam
Airport, 75350 Melaka
☎ +606-319 1191
☎ +606-319 1194
🌐 www.ust.my

V

Vas Aero Malaysia Sdn. Bhd.

No. 100, Jalan Kapar 27/89, Megah Indah
Industrial, Taman Alam Megah,
40000 Shah Alam, Selangor
☎ +603-5191 1333
☎ +603-5191 9433
🌐 www.vasaero.com

W

Weststar Aviation Services Sdn. Bhd.

Kompleks Airod Sdn. Bhd., Jalan TUDM, Sultan
Abdul Aziz Shah Airport,
47200 Subang Jaya, Selangor
☎ 03-7845 1295
☎ 03-7845 1297
🌐 www.weststar-aviation.aero

WZS Technologies Sdn. Bhd.

Lot 1890, Jalan KPB 9,
Kawasan Perindustrian Balakong,
43300 Seri Kembangan, Selangor
☎ +603 8962 2228
☎ +603 8962 2226
🌐 www.wzs.my

Z

Zetro Aerospace Corporation Sdn. Bhd.

Malaysia International Aerospace Centre
Lapangan Terbang SAAS,
47200 Subang, Selangor
☎ +603-78430856
☎ +603-78430874
🌐 www.zetro.com.my

Zetro Services Sdn. Bhd.

28, Jalan 2A/27A, Seksyen 1, Bandar Baru
Wangsa Maju, 53300 Kuala Lumpur
☎ +603-4142 7441
☎ +603-41427455
🌐 www.zetro.com.my

Zodiac Technologies Sdn. Bhd.

16-2 Jalan Setiawangsa 8, Taman Setiawangsa,
54200 Kuala Lumpur
☎ +603-4253 4381
☎ +603-4253 4361
🌐 www.zodiac aerospace.com

USEFUL CONTACTS

NATIONAL AEROSPACE INDUSTRY COORDINATING OFFICE (NAICO)

Ministry of International Trade & Industry,
Level 11, MITI Tower, No. 7,
Jalan Sultan Haji Ahmad Shah,
50480 Kuala Lumpur

☎ +603 8000 8000
☎ +603 6202 3446
🌐 naicomalaysia@miti.gov.my
🌐 www.miti.gov.my

MALAYSIAN INVESTMENT DEVELOPMENT AUTHORITY (MIDA)

MIDA Sentral,
No.5, Jalan Stesen Sentral 5
Kuala Lumpur Sentral,
50470 Kuala Lumpur

☎ +603 2267 3633
☎ +603 2274 7970
🌐 investmalaysia@mida.gov.my
🌐 www.mida.gov.my

MALAYSIA EXTERNAL TRADE DEVELOPMENT CORPORATION (MATRADE)

Menara MATRADE,
Jalan Sultan Haji Ahmad Shah,
50480 Kuala Lumpur

☎ +603-6207 7077
☎ +603-6203 7037
🌐 info@matrade.gov.my
🌐 www.matrade.gov.my

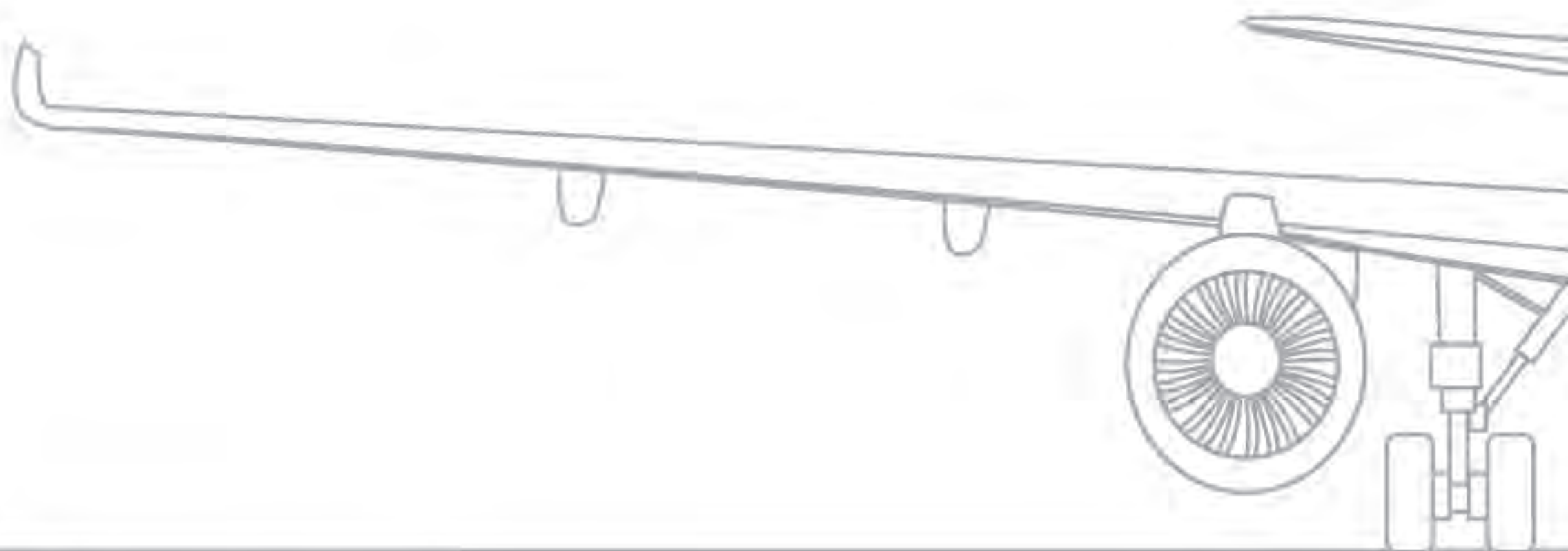
SME CORPORATION MALAYSIA (SME CORP MALAYSIA)

Level 6, SME 1, Block B,
Platinum Sentral, Jalan Stesen Sentral 2,
Kuala Lumpur Sentral,
50470 Kuala Lumpur

☎ +603-2775 6000
☎ +603-2775 6001
🌐 info@smecorp.gov.my
🌐 www.smecorp.gov.my



MINISTRY OF INTERNATIONAL TRADE AND INDUSTRY



NATIONAL AEROSPACE INDUSTRY COORDINATING OFFICE (NAICO)

Level 11, MITI Tower,
No. 7, Jalan Sultan Haji Ahmad Shah
50480 Kuala Lumpur
MALAYSIA

Phone: +603 8000 8000 Fax: +603 6202 3446
naicomalaysia@miti.gov.my

www.miti.gov.my