

AUTOMATION VALUE CHAIN DIRECTORY

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FOREWORD

Productivity plays an important role in determining the level of economic advancement, which translates into the well-being of the people. To achieve higher productivity levels, companies need to commit to and invest in continuous improvement, especially in automation and digitalisation in order to remain competitive.

As one of the three main catalytic subsectors in manufacturing with strong linkages to other manufacturing subsectors, Machinery and Equipment (M&E) has always been one of the key contributors to the country's development and economy, contributing at an average of RM40 billion annually to the GDP for the last few years.



At the Malaysia Productivity Corporation (MPC), we believe strongly in the capabilities and potential of our homegrown M&E companies to be world-class and are working hard to support the automation-related industries to improve their productivity through process, technology, and talent.

The Buy Malaysian Products campaign is the best platform for local companies to develop and help promote Malaysian-made products and services in the M&E sector. However, until now there has been no centralised database of Malaysian manufacturers and service providers who offer world-class products and services.

I would like to record my appreciation to the working team from the Machinery and Equipment Productivity Nexus (MEPN) of the MPC and the Malaysia Automation Technology Association (MATA), who developed this directory for Malaysian automation and technology providers. This directory will provide an overview of the availability of local technology and also the capabilities of our local players.

I am pleased to present to you this Directory, which will not only be an invaluable form of support for local M&E companies to open up opportunities based on the domestic demand for high-quality work from both the public and private sectors, but also create opportunities for local companies, as well as MNCs, to expand and grow internationally.

Thank you.

YBhg. Dato' Abdul Latif Hj. Abu Seman,
Director General,
Malaysia Productivity Corporation (MPC)



FOREWORD

The current pandemic has clearly shown that Malaysian companies can no longer operate in the old ways. Throughout the world, businesses and industries are adapting to remain competitive in the highly uncertain and volatile New Normal. As pandemic conditions are expected to last for at least another 12 to 18 months, there is no returning to the Old Normal anymore.

As such, the time is ripe for Malaysian companies to boost productivity levels and reduce reliance on unskilled labour by embracing automation and digitalisation in their operations. Businesses can leverage tax relief and matching grants for investments in mechanisation and automation, as announced in Budget 2021, in making this transition.



This directory will be the definitive reference point for the available automation products and services, and for technology providers in Malaysia. I believe that it will enable successful business matching between demand and supply in the market to encourage productive collaborations between M&E companies and local state-of-the-art technology partners.

I would like to record my appreciation to all the organisations and their team members involved in the production of this directory, namely the Machinery & Equipment Productivity Nexus (MEPN), which provided the funding and is responsible for disseminating the publication; the Malaysia Automation Technology Association (MATA), which helped compile all the relevant information for publication; and the Machinery & Engineering Industries Federation (MEIF), which facilitated engagement with its members on the need to improve their business productivity and cost efficiency through the adoption of various forms of technology, including Industry 4.0.

In conclusion, this directory provides an overview of the availability of technology and also the capabilities of our local players. It is my hope that M&E industry players will make full use of this platform to foster closer networking and collaboration, in order to find the best solutions for both businesses and technology providers that enable them to become more productive and competitive in the global market.

Thank you.

Mr. Mac Ngan Boon
Champion,
Machinery & Equipment Productivity Nexus (MEPN)



FOREWORD

The Malaysia Automation Technology Association (MATA) is very honoured to collaborate with the Malaysia Productivity Corporation (MPC) in publishing the Automation Value Chain Directory, the first of its kind in Malaysia. This directory is also a showcase for MATA members with respect to their participation in, and contribution to, this value chain, which is further intended to help and serve the wider interests of the Malaysian manufacturing industries.

As Malaysia embarks on her journey to transform into a developed nation, low labour costs might no longer be to our advantage in competing with developing nations across the world. Nor can our manufacturers continue to depend on the supply of low-skilled foreign labour to combat rising labour costs.



Dependency on low-skilled foreign labour has always been a double-edged sword, since the lower cost of labour is weighed against low labour productivity, inconsistent product quality and poor production efficiency. Hence, the Government has introduced great initiatives to encourage our manufacturers to adopt automation as the most direct means of reducing dependency on low-skilled foreign labour.

In the recent budget announcement, one of the initiatives by the Government to ensure business continuity involves tax relief and matching grants for investment in mechanisation and automation. We believe the available schemes allocated for digitalisation and automation will encourage companies to embrace automation and digitalisation in their operations.

We hope the directory provides an overview of the availability of technology and also the capabilities of our local players. We would like to encourage companies who are not yet in MATA to join us, which would enable the growth of the automation industry in Malaysia. The more support we gain, the stronger voice we would have to represent the industry, especially in formulating policy and directives concerning the automation industry in Malaysia.

Before I end, I would like to take this opportunity to express our sincere gratitude and appreciation to the MPC for their support and dedication. The MPC plays an important role in the industry, and makes great efforts to shape the development of the machinery and equipment sub-sector in Malaysia. We wish the engagement with the MATA will continue for the greater interest of the industry players and the economy going forward.

Thank you.

Mr. Tiong Khe Hock
President
Malaysia Automation Technology Association (MATA)



OVERVIEW OF MALAYSIA

Machinery & Equipment Sub-Sector

INTRODUCTION

The Machinery and Equipment (M&E) subsector is an enabler for the economic progress of all other subsectors and it has been of strategic importance throughout the global industrial revolution. It is one of the most innovative economic subsectors as it combines key technologies of the future, such as electronics, robotics and software integration. All in all, the subsector is a key player in IR4.0, as it cuts across all economic segments, especially the primary manufacturing and services sectors.

In Malaysia, the M&E subsector is dominated by locally-owned SMEs who mainly produce goods in small batches (instead of mass production) and provide customised solutions for bigger manufacturers. A large proportion of these SMEs are largely risk-averse and they tend to stick to traditional methods of business management, which does little to contribute to the productivity of the subsector in today's business environment. This needs to be challenged, as more developed nations are becoming increasingly competitive by adopting new technologies and business methods.

SUB SECTOR PERFORMANCE

In terms of trade, this sub-sector continues to register a trade deficit, which amounted to RM28 billion in 2019 compared to RM33.1 billion in 2018. The value of imports exceeded the value of exports, largely contributed by general-purpose machinery, components and parts. Exports have grown steadily in the last few years while imports declined significantly in 2018 and 2019 (Table 1).

Table 1: Machinery and Equipment Subsector Export and Import Value and Growth, 2017-2019

	Export		Import	
	RM Mil	Growth (%)	RM Mil	Growth (%)
2017	40,133	7.0	78,575	20.8
2018	40,668	1.3	73,778	-6.1
2019	41,599	2.3	69,638	-5.6

Source: MATRADE

Total Investment increased by 67% in 2019, which amounted to RM3,643 million compared to RM2,188 in 2018. The increase was mainly contributed by a tremendous increase in foreign investment to RM2,841 million in 2019 from RM702 million in 2018. However, local investment witnessed a contraction of 46%.

OVERVIEW OF MALAYSIA

Machinery & Equipment Sub-Sector

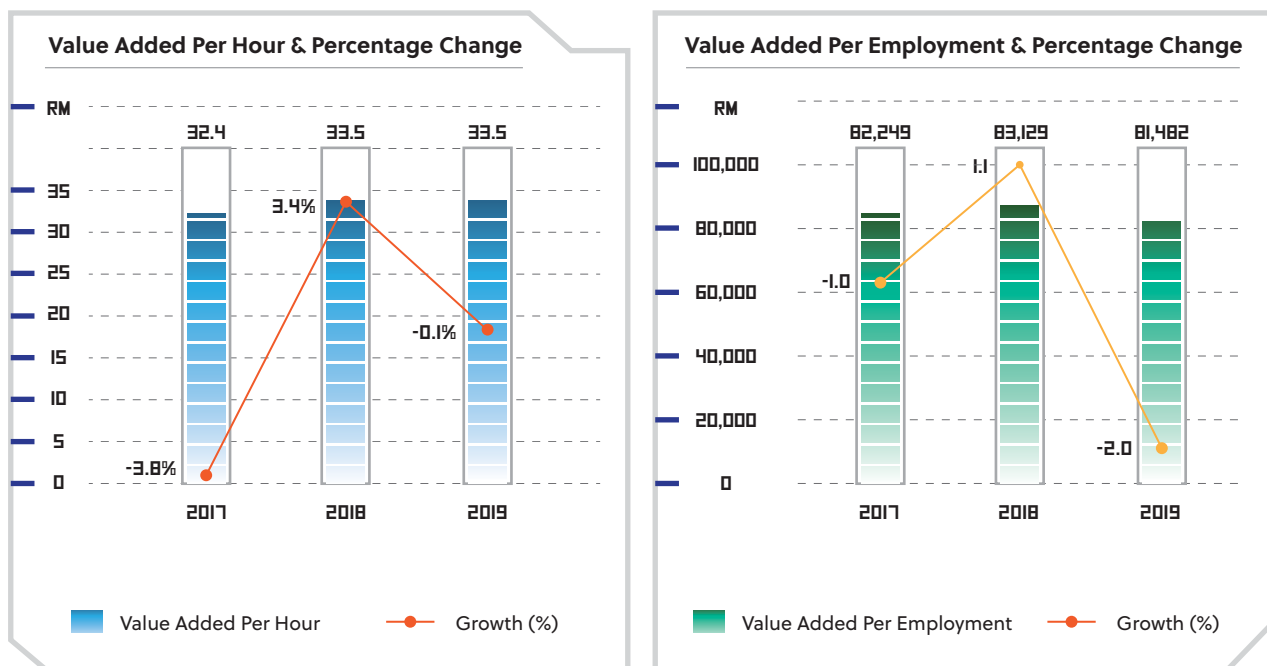
Table 2: Approved Investment for M&E Subsector (2017- 2020)

Year	No.	Potential Employment	Local Investment (RM Million)	Foreign Investment (RM Million)	Total Investment (RM Million)
2017	77	6,078	1,431.20	755	2,186.00
2018	83	3,578	1,486.34	701.6	2,187.90
2019	99	3,894	801.91	2,841	3,643.00

Source: MIDA

In 2019, labour productivity for the subsector contracted by 2.0% compared to its growth of 1.1% in 2018. This is the third-lowest out of nine subsectors in terms of value added per employee. The fluctuation growth rates for the past 3 years indicate that the subsector's productivity needs to be strengthened to enable more value-added products with the support of digitalisation and a skilled workforce.

Figure 1: Machinery and Equipment Subsector Productivity Performance



Source: Malaysia Productivity Corporation

OVERVIEW OF MALAYSIA

Machinery & Equipment Sub-Sector

MACHINERY AND EQUIPMENT PRODUCTIVITY NEXUS

The need to uplift the subsector's productivity has been emphasised under the **Malaysia Productivity Blueprint (MPB)**, in which three (3) broad challenges, namely workforce, technology and industry structure, have been identified to address the productivity issues at the sectoral level. The MPB initially identified four (4) M&E sectoral initiatives to boost the productivity of large enterprises and SMEs, which led to the establishment of the M&E Productivity Nexus (MEPN).

The MEPN is led by **Mr Mac Ngan Boon, President of the Machinery and Engineering Industries Federation (MEIF)**. This nexus aims to address the productivity challenges faced by the Machinery and Equipment sector through the implementation of the following four initiatives:

01 Set up partnership between government and industry associations to up-skill existing employees.

02 Set up Centres of Excellence for skilled professionals to share industry expertise and develop new technologies;

03 Update domestic product standards to be at par with international standards and enforce compliance; and

04 Set up more product testing facilities to ensure standards are met.

The Nexus has set up 4 workgroups to plan, monitor and execute the projects under these 4 initiatives. Leaders and Subject Matter Experts have been appointed in each of the workgroup to advise, recommend and support the champion based on their expertise in projects implementation to expedite the implementation of the 14 outlined projects (Figure 1 and Figure 2).

OVERVIEW OF MALAYSIA

Machinery & Equipment Sub-Sector

Figure 1: The Machinery & Equipment Productivity Nexus is spearheaded by Industry Association to raise the Productivity of the sector



Figure 2: MEPN 14 projects for 2019-2020

WG1	Talent and Manpower	WG2	Productivity and Efficiency	WG3	SME Empowerment and Development	WG4	Ecosystem (Policies & Procedures)	
SECTORAL INITIATIVES	Set up partnership between government and industry associations to up-skill existing employees		Set up Centre of Excellence for skilled professionals to share industry expertise and develop new technologies		Set up more product testing facilities to ensure standards are met		Update of domestic product stands to be at par with international standards and enforce compliance	
	1	University-Industry-Govt-Civil Society partnership for M&E Talent Development Roadmap aligned to Industry 4.0	5	Create targeted awareness programmes and leverage on existing MPC productivity tools and Govt grants to improve productivity	7	Industry Association-led efforts to enhance SME capabilities by leveraging on product testing facilities & Industry 4.0 funds, and cluster SME members for joint proposals to export products	9	Emphasis on procurement to be based on compliance to export quality standards to elevate Malaysian SMEs capabilities
	2	Encourage more industry-driven apprenticeship programmes via the Nexus and recognition for industry champions which deliver	6	Optimising functions of COEs through effective partnerships	8	Development of a comprehensive repository of the M&E supply chain to encourage development of end-to-end solutions	10	Streamlining of targeted processes and regulations on a prioritised basis
	3	Upskilling existing employees and trainers through partnership between industry and TVET					11	Govt to re-include Industry Associate representatives into key Approval committees for Govt incentives to build up agency knowledge and familiarity
	4	Development of a web-based one-stop-center for M&E Human Capital Development					12	Improvement to the SST regime to encourage in-country value-add activities
PROJECTS						13	Streamlining of import duties to encourage in-country value-add activities	
						14	M&E companies to be required to be industry association members to qualify for Govt incentives	

OVERVIEW OF MALAYSIA

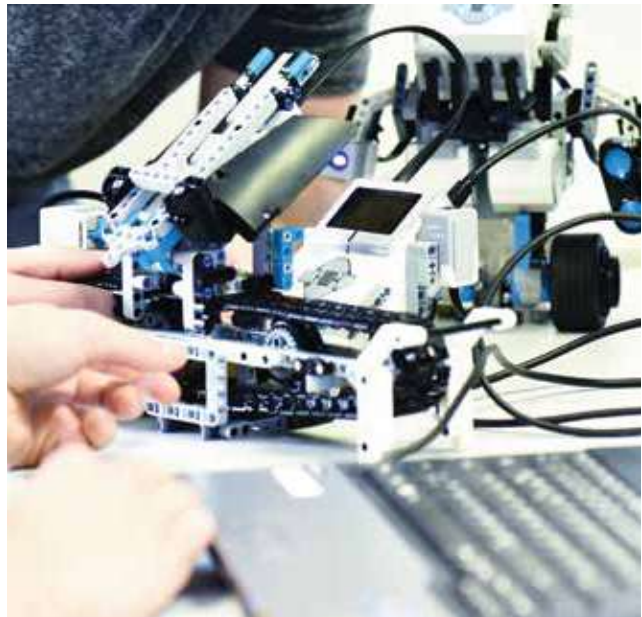
Machinery & Equipment Sub-Sector

NEXUS IN ACTIONS

The Machinery and Equipment Productivity Nexus, through Work Group 1, has initiated networking and inked an MoU with TVET Institutions, namely the Universiti Teknikal Malaysia Melaka (UteM), the German Malaysia Institute (GMI), the Negeri Sembilan Skill Development Centre (NSSDC), the Kedah Industrial Skills and Management Development Centre (KISMEC), the Selangor Human Resource Development Centre (SHRDC) and Institut Latihan Perindustrian Pedas. The MoU aims to establish the MEIF's Strategic Partners who are willing to collaborate with the industry and create programmes that are tailored to the industry's needs in addressing the technical skills gaps among students, existing employees and TVET trainers.

Through this partnership, the MEPN, in collaboration with the HRDF, has established an **Industrial Skills Framework** for the industry. The framework covers 38 job areas and 138 job titles, and provides a common reference for the skills and competencies required in the M&E industry. This framework also will help three groups: it will guide individuals to make the right decisions on skills development, employers to recognise skills and invest in skills training for their employees, and training providers to design programmes that address the sub-sector's manpower and skills needed.

In line with the first initiative, to up-skill existing employees and enhance the implementation of Industry 4.0, the **Overall Equipment Effectiveness (OEE) for Smart Manufacturing** training programme has been designed and introduced to the companies. This six-day training programme was successfully conducted in December 2019 at the Selangor Human Resource Development Centre (SHRDC), and attended by eight M&E companies. The participating companies have been provided with a set of training kits (hardware and gateway) for productivity improvement projects at their respective workplace. Three of the participating companies have shared their success stories via webinar sessions and factory visits.



Based on the results of the environmental scan study among M&E industries in 2018, the M&E industry players do not fully comprehend the scope of productivity. Thus, there is an urgent need to further propagate and drive greater productivity understanding among SMEs. In helping SMEs to enhance operations related to productivity improvement, the MEPN is currently rolling out the **Enterprise Level "Deep Dives"** and Intervention programme, using productivity assessment tools, namely Productivity Gain Measurement (ePGM) and Business Excellence Framework. In 2020, more than 1,000 industry players benefited from the awareness programmes conducted via webinars.

OVERVIEW OF MALAYSIA

Machinery & Equipment Sub-Sector

The MEPN has also conducted a Virtual Advisory Clinic, also known as MEVAC, with 43 companies during the MCO and provided recommendation reports to them to assist in mitigating the impact of COVID-19 and to further improve companies' productivity. The one-to-one consultations via an online platform were assisted by eight (8) Industry Productivity Specialists as advisors. MEVAC has identified 123 issues and business concerns, and four programmes have been designed to address these issues. The MEPN has successfully organised a Business Financial Dialogue Session, in collaboration with the SME Bank, the Export-Import Bank of Malaysia (EXIM Bank) and the Credit Guarantee Corporation (CGC), to address the issue of financial problems; it was attended by 64 industry players.

Realising the importance of digitalisation to improve productivity, the MEPN, with the support of the Malaysia Automation Technology Association and the Malaysia Industry 4.0 System Integrator Association (Misi4.0) has developed digitisation modules to help manufacturing companies to strategise their individual digitisation plans and kick-start their digitisation journey. This module encompassed a digitisation self-diagnostic tool and a prioritisation matrix tool. This programme, later known as **PRODUCTIVITY1010**, targeted providing assistance to 1,000 manufacturing companies, with the ultimate output being an Individual Digitisation Blueprint, and with the help of 20 qualified industry experts as mentors; the programme is conducted virtually. To date, 40 companies have enrolled in this programme.

Collaborations between the MEPN and the MEIF, the Malaysian Investment Development Authority (MIDA) and the Standard and Industrial Research Institute of Malaysia (SIRIM) will lead to the establishment of the **Malaysia Machinery Innovation Centre (MMIC)** in the near future. The MEIF is continuously providing feedback on the proposed setting up of the MMIC as a catalyst for the development and adoption of technology by industries.

The MEPN has been compiling a **repository of companies in the M&E and Engineering Supporting Services (ESS)** industries that exhibit the capabilities to grow into the regional or global markets in terms of their future export prospects and sustainability. This will be the first attempt at grooming them to become world-class players that represent Malaysia as the key contributor to the regional hub for high technology, and specialised M&E and Engineering Components production and the related Services Supply Chain.

Regulatory delays in inspections and their associated approval by regulators lead to unnecessary delays and added business costs for M&E companies. The MEPN will need to identify the most significant pain points for priority streamlining in order to achieve better process efficiency for the ease of doing business. Among other industry issues that undergo the **streamlining process through Reduced Unnecessary Regulatory Burdens (RURB)** are sub-standard product importation and local production; the issuance of temporary permits to overseas mobile crane suppliers, which affects the local market; too many safety cards being issued by regulators; and SIRIM's Certificate of Approval (COA) process for steel products. All the issues have been brought to the attention of the higher authorities and stakeholders.

OVERVIEW OF MALAYSIA

Machinery & Equipment Sub-Sector

As a voice of industry, MEIF continuously bring forward issues through engagement with MOF, MITI, and agencies to reinstitute Buy Malaysian First policy and Malaysia Brand National Mark. Such effort is expected to stimulate domestic economic growth and help companies to expand marketing network improving the local requests.

CONCLUSION

The M&E Subsector contributes important linkages with all subsectors, including Engineering Support Services (ESS) and Electrical and Electronics; hence, the growth performance of this subsector in addressing productivity challenges will significantly provide spillover effects to other industries as well.

Improving the productivity of the subsector is crucial for the industry to be sustainable in the future as one of Malaysia's GDP contributors. At the global competitive edge, the subsector needs to continue being productive and competitive in order to be one of the industry frontiers, not only locally but also internationally.



AUTOMATION VALUE CHAIN

Automation is neither a product nor a service. Instead, it is a combination of hardware, software and services into a tightly integrated system. An automation system can be a simple integration of two components. However, it is generally much more complex, involving the integration of several hundred components, and often multiple vendors and supply sources. As such, it is unsurprising that the value chain of the automation industry is long and broad. It is long in the sense that it involves many segments of complementary products and services necessary to ensure the successful implementation of automation projects for the manufacturing communities, including support for their quest towards Industry 4.0 adoption. It is broad because, in each of these segments, there are multiple vendors with alternative products and technologies to choose from.

In this directory, we divide the **Automation Value Chain** into nine (9) broad categories/areas, covering all the products and services within the automation ecosystem. They are:

01	Automation Components/Parts Manufacturers
02	Sub-Assembly Manufacturers
03	Software Developer/Vendors
04	System Integrators
05	System/Machine Builders
06	Panel Builder/Installers (Site Installation/Wiring Contractors)
07	Commissioning/Maintenance Service Providers
08	Training Providers
09	Distributor/Resellers (of Automation Components/System)

The importance of the Automation Value Chain can be seen from the following details, which show the various products and services offered by different categories of vendors.

AUTOMATION VALUE CHAIN

01

Automation Components/Parts Manufacturers

This category encompasses automation hardware components and parts, including sensors, transmitters, converters, indicators, controllers, Programmable Logic Controllers (PLC), actuators, motors and drives, wire terminators, instrument calibrators, etc. The number and types of automation components are many and varied, numbering several thousand.

02

Sub-Assembly Manufacturers

This category represents a level of integration of several basic automation parts, including the possible customisation of hardware, firmware and mounting fixtures, into a more sophisticated component, often to serve a more specific requirement of a particular industry sector. Such products include IIoT (Industrial Internet of Things), Industrial Computers, Weighing systems, Batch Controllers, etc. They are often further integrated into a larger automation system to complete an automation project.

03

Software Developers/Vendors

This category represents industrial automation software (either general-purpose or customised), offered by local or foreign software development companies. General-purpose software is targeted at serving across multiple industries, and will need further customisation (often by a system integrator) for it to meet the needs of the end customer. Such software includes SCADA (Supervisory Control and Data Acquisition), and MES (Manufacturing Execution System). Customised software is often developed from scratch to meet the specific needs of one or, at most, a very limited number of customers.

04

System Integrators

This category represents vendors who offer a mix of hardware, software and services to connect all the required automation components into a fully working system. Such vendors are characterised by their wide range of experience and expertise in automation, mechatronics, software, robotics, motor and drives, etc. These vendors often provide preliminary consultation services to customers to understand their needs and to propose suitable automation solutions as a complete project, including the sourcing of parts, system integration, site installation and commissioning.

05

System Machine Builders

These companies manufacture complete working machines, ranging from machines for a specific section of a production line, to all machines for an entire production line. They possess strong *industry knowhow* and a wide range of expertise, from manufacturing to fine-tuning of their machines, in order to meet all customer requirements in terms of production speed, product quality, and operational reliability. Their machines are often tested in their factory for the customer's acceptance before delivery.

06

Panel Builders/installers (Site Installation/Wiring Contractors)

This category represents vendors who offer services to build control panels, including mounting automation components and interconnecting them with suitable wiring to form a working unit. They often offer site installation and site wiring services to connect automation components to and from the control panels, including signal loop checking.

07

Commissioning/Maintenance Service Providers

This category represents vendors who offer site commissioning services after an automation system has been installed, to ensure the system is capable of operating as expected. They also offer periodic and on-demand maintenance services on site. These services are generally offered by the same system integrator vendor involved in the project.

08

Training Providers

These vendors offer automation training, often for all levels of operational personnel, from operators to engineers and managers. They include Industrial Training Institutes and automation system vendors. Automation system vendors are mostly involved in offering training for one or more subjects specific to the brands of the products or systems offered. These courses are also short-term, generally lasting several days. In addition, these vendors normally only offer training certificates of their own which are generally not certified by any recognised third party. On the other hand, Industrial Training Institutes provide certified automation training programmes that are often non-brand specific, and span a much longer period of time, such as two years. Nevertheless, these institutions do offer certified short-term training programmes, often spanning one week or more, which may also be specific to certain well-known brands of automation products or systems.

09

Distributors/Resellers (of Automation Components/Systems)

This category represents a mix of vendors who act as distributors or resellers of automation components and parts, mostly imported. They are usually not involved in offering any customisation services, leaving this instead to system integrators. Due to the broad range of automation parts and components, each vendor tends to offer only a specific range of products.

In documenting the Automation Value Chain, we have included hardware and software from local manufacturers as well as from overseas imports. Services, on the other hand, are largely provided through local expertise. Many of our local automation companies are fully capable of manufacturing and implementing automation systems for both local and overseas customers. Furthermore, our local companies and training institutions (whether 100% locally owned or with some foreign ownership) are completely capable of providing the majority of automation-related skill training, conducted by local experts with many years of relevant field experience.

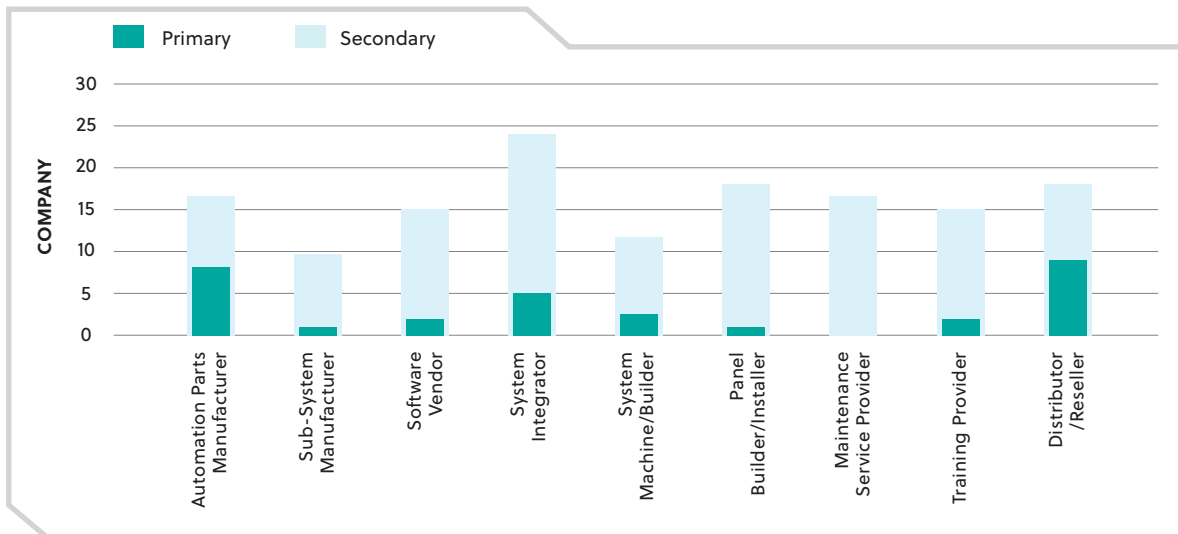
AUTOMATION VALUE CHAIN

Below are listed the statistics relating to the products and services offered by the MATA members:-

01

Areas of Specialisation

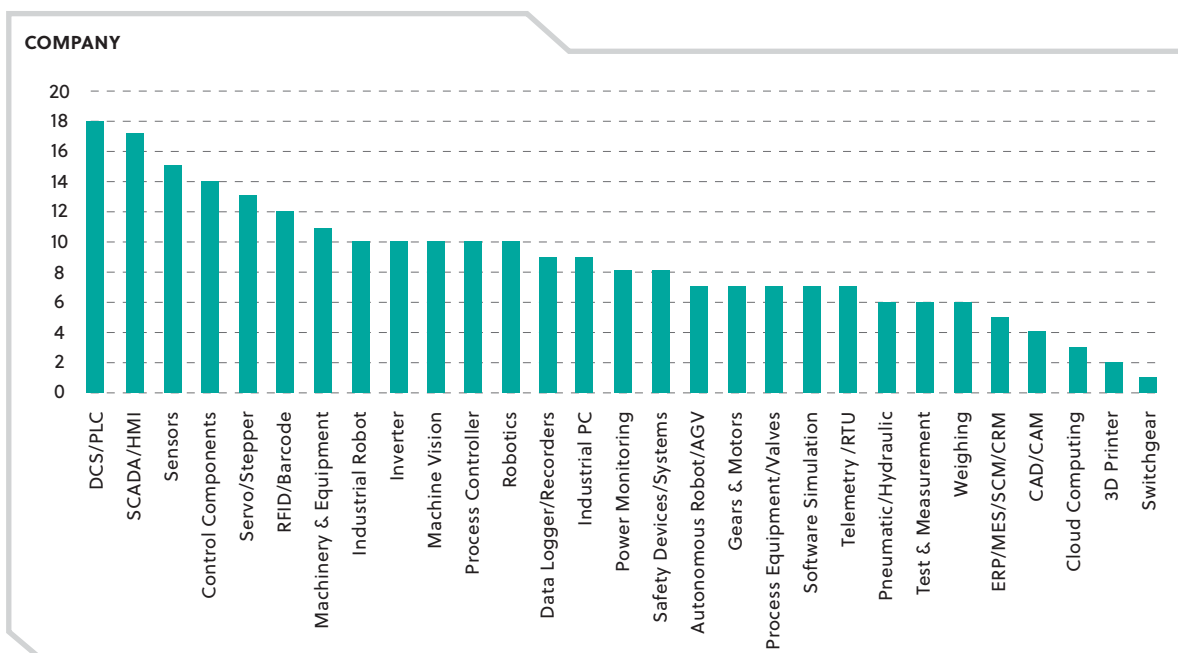
Our members have been able to provide good support across all categories of the Automation Value Chain. Below is a bar-chart showing their Areas of Specialisation:



02

Products Offered

A comprehensive range of automation products is available from our local automation companies. We noted that most hardware and software components are imported from overseas manufacturers as the local market is generally considered too small for effective local manufacturing. Nevertheless, automation sub-components, control panels, machinery & equipment, and automation systems are largely implemented locally.

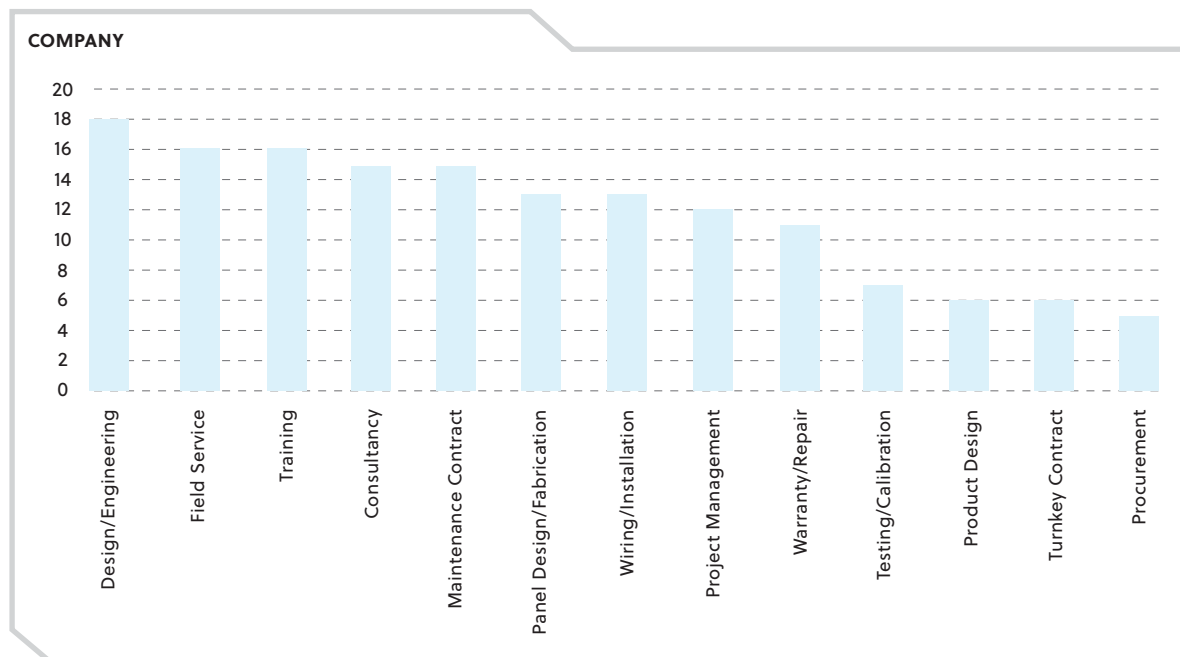


AUTOMATION VALUE CHAIN

03

Services Offered

A complete range of automation services are available from our local automation companies. We noted that our local companies and local experts are capable of offering a full range of automation services for both local and overseas customers.



COMPETENCY MAPPING OF AUTOMATION COMPANIES

No		Company	Design				Hardware/Software Integration																IT Integration						Core Expertise																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
			System	Construction	Animation/Simulation	Retrofit	IoT Devices / Sensor / Actuator Installation	Servo / Motion Control	Network Communications Wireless / M2M/ Mobile Devices	Factory Automation IPC / PLC/SCADA / HMI	Process Automation DCS / PLC	Instrumentation / Control Valves	Machine Vision Inspection	Industrial Robots / Autonomous Robots / AGV	RFID / Barcode / Traceability Solutions	Material Handling System	Warehouse Automation / ASRS	Power Monitoring / Energy Management	Equipment Monitoring / Predictive Maintenance	Machine Safety Installation	IoT Gateway / Cloud Computing	Smart Manufacturing Solutions	Augmented Reality / Simulation	3D Printing / Additive Manufacturing	OEE / Management Dashboard	SECS / GEM	MES/SCM/CRM/ERP	Big Data Analytics	Artificial Intelligence	Cyber Security	Customized Software	Agriculture/Palm Oil	Food & Beverage	Chemical, Oil & Gas	Electrical & Electronics	Mechanical & Metal	Automotive	Aerospace	Medical / Pharmaceutical	Rubber Product	Textile / Apparel	Furniture / Wood																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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COMPETENCY MAPPING OF AUTOMATION COMPANIES

No		Company		Design				Hardware/Software Integration																IT Integration						Core Expertise													
				System	Construction	Animation/Simulation	Retrofit	IoT Devices / Sensor / Actuator Installation	Servo / Motion Control	Network Communications Wireless / M2M/ Mobile Devices	Factory Automation IPC / PLC/SCADA / HMI	Process Automation DCS / PLC	Instrumentation / Control Valves	Machine Vision Inspection	Industrial Robots / Autonomous Robots / AGV	RFID / Barcode / Traceability Solutions	Material Handling System	Warehouse Automation / ASRS	Power Monitoring / Energy Management	Equipment Monitoring / Predictive Maintenance	Machine Safety Installation	IoT Gateway / Cloud Computing	Smart Manufacturing Solutions	Augmented Reality / Simulation	3D Printing / Additive Manufacturing	OEE / Management Dashboard	SECS / GEM	MES/SCM/CRM/ERP	Big Data Analytics	Artificial Intelligence	Cyber Security	Customized Software	Agriculture/Palm Oil	Food & Beverage	Chemical, Oil & Gas	Electrical & Electronics	Mechanical & Metal	Automotive	Aerospace	Medical / Pharmaceutical	Rubber Product	Textile / Apparel	Furniture / Wood
17	Galactic Advance Engineering (M) Sdn Bhd					●	●	●	●	●	●		●	●			●		○	●	●				●		●	●	●	○	●		●					●		●			
18	HF Technology Sdn Bhd					○	○					●	○	○				○		●	○				○	○			○	○		●	○	○	○	○	○	○	○	○			
19	ifm electronic Pte Ltd		○			●		●	●	●	●			●			●			●	○				○		○	○	○				●	●	○	●	●	●	○	●	●	●	○
20	IME Technology Sdn Bhd		●	●	●	●		●	●	●			●	●		●	●	●		●	●	●	●	●	●		●	●	●			●		●	●	●	●						
21	Jaytron Automation (EM) Sdn Bhd					●	○	○	●	○		○		○	○		○	●	●	●											●	●	●	●	●	●	○	○	●	○	●	○	●
22	JKS Engineering (M) Sdn Bhd		●	●		●	○	●		○	●	●	○	○	○	●		●								○					●				●	●	●	●	○				
23	MIT Academy Sdn Bhd					●	●	○	●				●	●						●	●	●	●			●	●		○														
24	Nissi Engineering Sdn Bhd						○	○	●	●	●		○	○	○	○			●													●	●	○							○		
25	Omron Electronics Sdn Bhd		●		○	●	●	●	●	○	●	●	●	○	○	○	●	●	●	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
26	Packaging Sales & Service (M) Sdn Bhd		●				○	○	○	○	○		○	○	○	●	○				○			●						○	○	○	○	○	○			○					
27	Pc Automation Sdn Bhd		●	○	○	○	○	○	○	○		○	○							●	●			●		○				●		○	○	○					●		○		
28	Rittal Systems Sdn Bhd																														●	●	●		●								
29	Sermax Automation Sdn Bhd					○			●	●	●			○			○	●														●	●	●	●								
30	SMC Automation (Malaysia) Sdn Bhd		○				○	○	○	●	○	○		○		○						○			○			○					○	○	○	○	○	○	○	○	○	○	
31	Vepro Group Sdn Bhd					●	○	○	●	●	●	●	●	●	●	○	○	●	○	○	●	●	○					●		●	●		●	●	○		○						
32	WEG South East Asia Sdn Bhd																●				○	●											○	○	○					○			

DIRECTORY OF COMPANIES BY VALUE CHAIN

Automation Parts Manufacturers

A One Union (M) Sdn Bhd



Thermocouple Extension Wire

Overview

- Thermocouple extension wire for Types K & T
- Unshielded PVC, Fiberglass Jackets, SUS Braided & Teflon jacket.
- Others insulation jacket material, size and specification for thermocouple extension wire can be upon request.

RTD Extension Wire						
Part Number	Type	Conductors	Conductor Insulation	Jacket Material	Continuous Temperature Rating	Specification Size (mm)
A1F0.6KXH-GAB	K	2, Solid	Red (+) Black (-)	SUS Braided Fiberglass	0 to 200°C	0.6mm x 2
A1KX1/0.6(22AWG)+32171	K	2, Solid	Red tracer (+) Blue tracer (-)	SUS Braided Fiberglass	0 to 200°C	0.6mm x 2
A1KX-7/0.2-H-(SOS)-H	K	2, Stranded (S)	Red (+) Blue tracer (-)	SUS Braided Fiberglass	0 to 200°C	0.2mm x 75
J*+95...06/01234 (BLUE)	K	2, Stranded (S)	Red (+) Black (-)	SUS Braided Fiberglass	AD/IT	0.3mm x 45
A1KX1/0.64(22AWG)FG-SUS IEC (ROUND)	K	2, Solid	Green (+) White (-)	SUS Braided Fiberglass	0 to 200°C	0.64mm x 2
A1KCC-H4/0.6X2	K	2, Stranded (S)	Red tracer (+) White (-)	Fiberglass (Blue)	0 to 200°C	0.6mm x 45
A1KX-F-ANISI-TG 0.5X2	K	2, Solid	Red (+) Yellow (-)	Teflon (Brown)	0 to 200°C	0.5mm x 2



Thermocouple and RTD Connectors

Overview

- High quality thermoplastic body with original thermocouple material pins
- Molded barriers prevent short circuit
- Captive central cover screw for easy assembly
- Easy wire connection pressure plate construction
- 3-pin standard connectors have a third pin for ground or continuous shield, or 3-wire RTDs

Thermocouple and RTD Connectors					
Part Number	Sensor Type	Connector Type	Temperature Rating	Body Color	Wire size
A1CSPL-JA	%	Standard round pin plug	Max (200°C)	Black	32AWG (0.2mm) to 14AWG maximum (2.0mm)
A1CSJ-JA		Standard round pin jack			40AWG (0.08mm) to 20AWG maximum (0.8mm)
A1CMJ-JA		Miniature flat pin plug			32AWG (0.2mm) to 14AWG maximum (2.0mm)
A1OSTWKMC		Standard round pin plug			40AWG (0.08mm) to 20AWG maximum (2.0mm)
A1OSTWKFC	K	Miniature flat pin plug		Yellow	40AWG (0.08mm) to 20AWG maximum (0.8mm)
A1SMPWKMC		Standard round pin plug			40AWG (0.08mm) to 20AWG maximum (2.0mm)
A1SMPWKFC		Miniature flat pin plug			32AWG (0.2mm) to 14AWG maximum (2.0mm)
A1SMPWTMC		Standard round pin plug			40AWG (0.08mm) to 20AWG maximum (2.0mm)
A1SMPWTFC	T	Miniature flat pin plug	Max (200°C)	Blue	40AWG (0.08mm) to 20AWG maximum (2.0mm)
A1MTPUMC		Standard round pin plug			32AWG (0.2mm) to 14AWG maximum (2.0mm)
A1MTPUMC		Miniature flat pin plug			32AWG (0.2mm) to 14AWG maximum (2.0mm)
A1MTPUFC		Standard round pin jack			32AWG (0.2mm) to 14AWG maximum (2.0mm)



RTD Probes with Connection Head

A1RTD1-CXK -01



A1RTD1-CXK -02



Overview

- All temperature sensors are custom made standard item
- 100 ohm platinum RTD 3-wire element
- Class A accuracy
- Ø6.35mm diameter, 316 SS sheath to protect against harsh environments
- RTD element encased in Magnesium Oxide (MgO) powder insulation provides excellent vibration dampening and heat transfer
- 150mm, 300mm or 450mm probe length
- Connection Head
 - Cast aluminum IP67 screw cover head with gasket
 - One turn cover removal & installation eliminates cross threading and saves time
 - 1/2" BSP conduit opening with internal stop to prevent overtightening and installation damage
 - Gripping ribs on cover edge
 - with cover chain
- Wiring
 - Ceramic terminal block
 - Brass terminals with screws eliminate the need to wrap connections around screws
- Others
 - Required others type of RTD sensors, specification & temperature range can be custom made upon request.

RTD Probes with Connections Head					
Part Number	RTD Type	Probe Diameter (O.D)	Probe Length	Temperature Sensing Range	Mounting
A1RTD1-C06-01	PT 100	6.35mm	150mm	-200 to 300°C	Integral 1/2" x 1/2" BSP 304 SS
A1RTD1-C12-01			300mm		
A1RTD1-C18-01			450mm		
A1RTD1-C06-02			150mm		
A1RTD1-C12-02	3 wire	6.35mm	300mm	-200 to 300°C	J
A1RTD1-C18-02			450mm		

Technical Specifications

Sensing Element	Single 100 ohm (PT 100), 3 wire
Initial Accuracy	Class A ± (0.15 + 0.002 R) °C
Probe	Ø6.35mm, 316 stainless steel sheath, single RTD is embedded in MgO powder
Minimum Installation Depth	76mm length
Connection Head	Die-cast aluminum, screw cover with chain, P67, 1/2" BSP conduit opening
Wiring	Ceramic terminals base terminals and screw



Thermocouple Probes with Lead Wire Transition

A1MJ, J & T-TXX L06-01, 02 & 03

Overview

- All temperature sensors are custom made standard item.
- Type J, K or T thermocouple elements to meet many temperature sensing applications
- Ø3.2mm & Ø6.35mm, 304SS or Inconel Alloy 600 sheath to protect against harsh environments
- Magnesium Oxide (MgO) insulation provides vibration dampening and protection against thermal shock
- 150mm, 300mm or 450mm probe length
- Heavy duty lead wire transition with relief spring
- 2 meters lead wires with stainless steel overbraid
- Others
 - Required others types of thermocouple, specifications & temperature range can be custom made upon request

Thermocouple Probe with Lead Wire Transition- Type J, K and T					
Part No	Type	Probe Diameter Ø(mm)	Probe Length (mm)	Probe Material	Temperature Range °C
A1MJ-T06L06-01	%	3.2mm	A9/	5/6 Stainless Steel	0 to 250
A1MJ-T12L06-01	%	3.2mm	A9/		0 to 250
A1MJ-T18L06-01	%	3.2mm	A9/		0 to 250
A1MK-T06L06-01	K	3.2mm	A9/		0 to 400
A1MK-T12L06-01	K	3.2mm	A9/		0 to 400
A1MK-T18L06-01	K	3.2mm	A9/		0 to 400
A1MT-T06L06-01	T	3.2mm	A9/		-200 to 250
A1MT-T12L06-01	T	3.2mm	A9/		-200 to 250
A1MT-T18L06-01	T	3.2mm	A9/		-200 to 250
A1MJ-T06L06-02	%	6.35mm	A9/		0 to 250
A1MJ-T12L06-02	%	6.35mm	A9/	5A2 Stainless Steel	0 to 250
A1MJ-T18L06-02	%	6.35mm	A9/		0 to 250
A1MK-T06L06-02	K	6.35mm	A9/		0 to 400
A1MK-T12L06-02	K	6.35mm	A9/		0 to 400
A1MK-T18L06-02	K	6.35mm	A9/	Inconel Alloy 2/1	0 to 400
A1MT-T06L06-03	K	3.2mm	A9/		0 to 1,000
A1MK-T12L06-03	K	3.2mm	A9/		0 to 1,000
A1MK-T18L06-03	K	3.2mm	A9/		0 to 1,000

Technical Specifications

Junction Type	Grounded
Probe	Ø3.2mm & 6.35mm, 304 s/s or Inconel Alloy 600 sheath, single thermocouple element is embedded in MgO powder
Minimum Installation Depth	Ø3.2mm (44.5mm), Ø6.35mm (76mm)
Wiring	2 meters stranded 22AWG wire leads with stripped ends, fiberglass insulation and stainless steel overbraid

DIRECTORY OF COMPANIES BY VALUE CHAIN

Automation Parts Manufacturers

Advantech Co. Malaysia Sdn Bhd

Start IoT Digitalization with Advantech

General Automation

- Cloud & Edge Solutions
- Industrial Systems and Platforms
- IoT Devices & Communication

IEM

- Industrial Equipment Manufacturing
- Semiconductor
- PCBA/EMS/Service
- Machinery

iFactory

- Automotive
- Food & Beverage
- Pharmaceutical

Infrastructure

- Energy Automation
- Transportation
- Environment Monitor
- Government
- Logistic
- Retail

About Us

As a global leader of the intelligent IoT systems and embedded platforms market, "Enabling an Intelligent Planet" is our corporate vision by Co-Creating the Future of Industrial IoT and Smart Cities through Ecosystem Partnership & Academic Collaboration.

Driven by the convergence of information technology (IT) and operational technology (OT), the Industrial Internet of Things (IIoT) is a matrix of networks connecting equipment and devices, collecting data via sensor technology, computing and integrating data into platforms as services, and creating new business models and possibilities. In moving towards the next stage of IIoT, Advantech has created a suite of innovative hardware and software integrated edge-to-cloud technologies. For customer convenience, we are offered as a complete one-stop shopping product line. Advantech keeps innovating IIoT technologies and provides these bundled solutions to save valuable development time for our customers. Our goal is to support all our industrial IoT application needs.

Services

- Industry 4.0
- Industry IIoT
- Embedded Computing
- Smart City (Medical, Retail, Logistics)
- Service Worldwide IIoT Solution Integrators

ADVANTECH
Enabling an Intelligent Planet

Penang Office: 04-537 9188
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Mobile POS Systems
Intelligent POS Systems
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DIRECTORY OF COMPANIES BY VALUE CHAIN

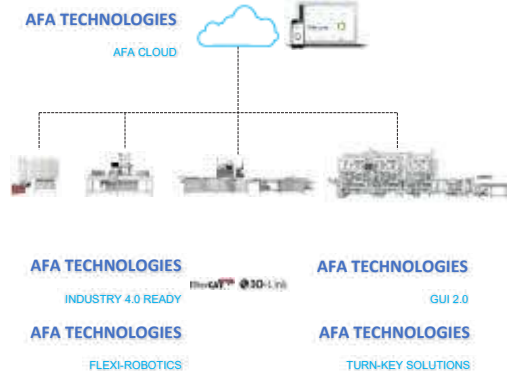
Automation Parts Manufacturers

AFA Technologies Sdn Bhd



AFA TECHNOLOGIES

We aim to be the most preferred Automated Packing Solution Provider in Gloves, Medical Devices, Pharmaceutical & FMCG industries with our Innovative and Advanced Automated Process Technologies



AFA Technologies Sdn Bhd

No 1, Jalan TTC 7, Taman Teknologi Cheng,

Kawasan Perindustrian Cheng, 75250, Melaka, Malaysia

www.afa-tech.com

Innovative Solutions in Glove & Medical Devices, FMCG & Pharmaceutical, Packaging Automation & Robotic



What makes us go forward – Advanced Factory Automation with Industry 4.0



End of line Automated Packaging Solution with AFA Flexi-Robotics



Thermo-Fill Seal machines and Flexographic Printer



Medical Glove Pinhole Detection and Auto Sorting Machines



Surgical Glove Inner Wallet Packing Machines Platen Seal Pouching Machines



Auto Assembly Machines for Medical Devices (Catheter, Syringe, IV Infusion, Diagnostic Consumables, Non-Woven and Film-Based Device Assembly)
Case Packer for FMCG, Healthcare Industry



Turn-Key Solutions for Healthcare Industry (Medical Glove, Medical Device, Pharmaceutical & Life Science)



Exam Glove Packing Automation
End of line Exam Glove automation solution, Stacking and counting machine, Inner boxing, outer cartooning, palletizing and others automaton

AFA TECHNOLOGIES

What makes us go forward – Advanced Factory Automation with Industry 4.0

The Industry 4.0 project, which is essentially a fourth industrial revolution, is becoming increasingly important around the world and in a wide variety of markets. AFA Technologies as one of the world leaders in Medical Gloves & Medical Devices Packaging Solution Provider is now ready to provide our customers with the latest technology that will ease our customers in the journey towards industry 4.0.

AFA Technologies proudly announce 5 key elements that we are able to serve our customers with.

AFA TECHNOLOGIES

INDUSTRY 4.0 READY

1. **All our machines are Industry 4.0 ready!** We design our control system based on EtherCAT field bus technology and works seamlessly with in house developed PC-Based GUI System (Graphical User Interface) that able to serve with all kinds of requirement for upstream data request that will enable our customers to link to any ERP, MRP, WMS, Databases, Robots, OPC Equipped Devices and etc. IO-Link based sensors are gradually being implemented and this will further enhance the machine with smart sensor features. In fact, we have been using PC-Based System in our machines since year 2002!

AFA TECHNOLOGIES

GUI 2.0

2. **Moving towards Predictive Maintenance!** We have launched Predictive Maintenance to our latest machines since 2016. This allows our end user to have a better precaution on the component levels awareness and able to prepare the replacement parts before the component breaks down. Furthermore, AFA is committed to utilize more IO-Link based sensors in future to further enhance the Predictive Maintenance accuracy with more user friendliness. We are also working hard on future AFA GUI 2.0 which promise to deliver more user friendliness, more advanced features in Predictive Maintenance, seamlessly integration with AFA Cloud and most importantly it will be FREE for our all customers as part of the commitment from AFA to continuously provide the best customer service experience.

AFA

AFA CLOUD



3. **Proudly Introduce AFA Cloud!** We have collaborating hand to hand with VITrox (Malaysia Biggest Automated machine vision inspection system provider) with their Cloud Solution namely V-One. This allows our machine's data to be push/pull to the cloud and customers are able to monitor the machine performance such as OEE, down time, up time, actual output and root cause analysis in real time basis.

AFA TECHNOLOGIES

FLEXI-ROBOTICS



4. **AFA Flexi-Robotics!** We have collaboration with many robot makers especially Omron Adept as our main partner in AFA Robotic Solutions. We have various solutions when come in Robotic Solutions and that's the reason we name it as AFA Flexi-Robotics.

AFA TECHNOLOGIES

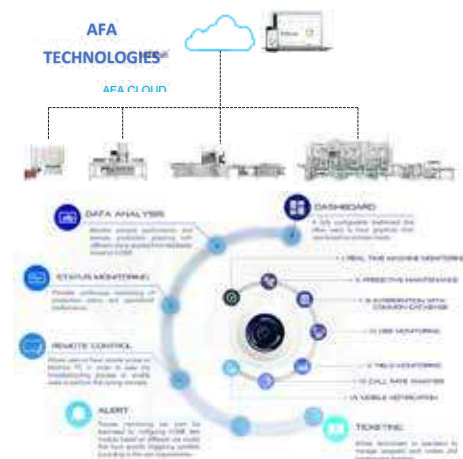
TURN-KEY SOLUTIONS



5. **AFA Turn-Key Solutions!** We have the capabilities to provide Turn Key Solutions towards your packaging needs in medical gloves and medical devices. Our product ranges from Glove Leak Test Machine, Glove Inner Wallet Wrapping Machine, Glove Outer Pouch Machine, Thermo-Form Fill Seal Machine, Robotic End of Line Solutions, Glove Auto Cuffing / Placing System, Vision Inspection System, Auto Cartoning Machine for Examination Gloves, Assembly Machines for Medical Devices, Case Packer, Case Auto Erector, Auto Dispenser Printing Machines and many more! We are also the patent right owner for the innovative solutions that are embedded into these machines.

AFA CLOUD

AFA Cloud drives toward a highly customizable one-stop platform which offers data driven decisions in manufacturing by allowing stakeholders to remote, visualize, monitor, control and implement condition-based alerts to reduce downtime and increase throughput.



DIRECTORY OF COMPANIES BY VALUE CHAIN

Automation Parts Manufacturers

Beckhoff Automation Sdn Bhd

BECKHOFF at a glance

BECKHOFF

Beckhoff implements open automation systems based on PC Control technology. The product range covers Industrial PCs, I/O and Fieldbus Components, Drive Technology and Automation software. Products that can be used as separate components or integrated into a complete and seamless control system are available for all industries. The Beckhoff "New Automation Technology" philosophy represents universal and open control and automation solutions that are used worldwide in a wide variety of different applications, ranging from CNC-controlled machine tools to intelligent building automation.

Worldwide presence on all continents

The central divisions of Beckhoff, such as development, production, administration, distribution, marketing, support and service are located at the Beckhoff Automation GmbH & Co. KG headquarters in Verl, Germany. Rapidly growing presence in the international market is taking place through subsidiaries and branch offices in Austria, Belgium, the Czech Republic, Denmark, Finland, France, Hungary, Italy, Norway, Poland, Russia, Slovenia, Spain, Sweden, Switzerland, Turkey, the United Kingdom, as well as in Australia, Brazil, Canada, China, Egypt, India, Indonesia, Israel, Japan, Malaysia, New Zealand, Saudi Arabia, Singapore, South Africa, the United Arab Emirates and the USA. Through worldwide co-operation with partners, Beckhoff is represented in more than 70 countries.

Contact us :

BECKHOFF AUTOMATION SDN BHD

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Kota Damansara, 47810,

Petaling Jaya, Selangor.

Phone : +603 – 6151 3088

Email : info@beckhoff.com.my

The IPC Company

The Industrial PC (IPC) is the hardware centerpiece of PC-based control technology. Beckhoff supplies Industrial PCs suitable for any application, which are based on open standards, enabling individual configuration to meet a wide range of control requirements.

Whether in the form of an Embedded PC with a compact form factor for DIN rail mounting, a control cabinet PC, or as a Panel PC, in-house motherboard development enables Beckhoff to respond quickly to IT trends and customer-specific requirements.

► www.beckhoff.com/IPC

Multi-touch Panel PCs

- Large model variety
- High computing power
- Display sizes from 7-inch to 24-inch
- Easy installation in control cabinets or on mounting arms
- Special versions for explosion protection
- Customer-specific implementations

► www.beckhoff.com/multi-touch

Multi-touch Control Panels

- Large model variety
- Display sizes from 7-inch to 28-inch
- Landscape and portrait orientation
- Easy installation in control cabinets or on mounting arms
- Special versions for explosion protection
- Customer-specific implementations

► www.beckhoff.com/multi-touch

Single-touch Panels

- Control Panels or Panel PCs
- Display sizes from 5.7-inch to 19-inch
- Easy installation in control cabinets or on mounting arms
- Customer-specific implementations

► www.beckhoff.com/single-touch

Control cabinet Industrial PCs

- High computing power
- Industrial-strength housing designs
- Easy installation
- High flexibility in terms of display connection

► www.beckhoff.com/Control-cabinet-PC

Embedded PCs

- Available performance range
- Up to 52 cores
- Compact design
- Direct I/O interface
- Modular extension options
- DIN rail mounting

► www.beckhoff.com/Embedded-PC



• Wide variety of device variants of Industrial PCs and Embedded PCs
• High-performance PCs featuring a wide range of processors, from Intel® Celeron® to top of the line Core™ i7 processors
• Long-term availability of all Industrial PCs and Embedded PCs
• As the pioneer of PC-based control technology, Beckhoff closely cooperates with global technology providers such as Microsoft

DIRECTORY OF COMPANIES BY VALUE CHAIN

Automation Parts Manufacturers

Beckhoff Automation Sdn Bhd

The I/O Company

EtherCAT Terminals

- IP 20 EtherCAT I/O system
- Real time (deterministic) performance inherent into each terminal
- Integration of highly precise measurement technology
- Condition monitoring, drive technology and process technology
- Electronic environment protection
- Gateways for substation fieldbus systems
- Beckhoff's PLC and safety I/Os

www.beckhoff.com/EtherCAT/Terminal



EtherCAT Box

- IP 67 EtherCAT I/O system
- High performance for harsh environments
- Compact and robust
- Can be mounted directly on machines, out side of control cabinets and terminal boxes
- Integrated semiconductor supply directly via EtherCAT P

www.beckhoff.com/EtherCAT/Box
www.beckhoff.com/EtherCAT/P-Box

EtherCAT Plug-in Modules

- Easy compact EtherCAT I/O system
- IP 20 for plug-in into a chassis board
- Output identification board
- Optimized for high volume production
- Application specific connector interface
- Use of cable terminals, screw wiring, ferris

www.beckhoff.com/EtherCAT/Plug-in-Modules

Bus Terminals

- Open, fieldbus-neutral IP 20 I/O system
- More than 400 different Bus Terminal types
- Support for more than 20 fieldbus systems
- Gateways for substation bus systems
- System integrated safety I/O terminals available

www.beckhoff.com/BusTerminal

Fieldbus Box

- Open, fieldbus-neutral IP 67 I/O system
- 12 fieldbus systems, 28 signal types
- Compact and robust
- Can be mounted directly on machines, outside of control cabinets and terminal boxes while ensuring machine footprint
- IO-link Box modules for transparent point-to-point connections

www.beckhoff.com/FieldbusBox

Infrastructure Components

- I/O units for all common fieldbus systems
- Industrial Ethernet switches
- EtherCAT precision and media converters in IP 20 and IP 67 ratings

www.beckhoff.com/InfrastructureComponents

Beckhoff supplies a complete range of fieldbus components for all common I/O and bus systems. With Bus Terminals offering IP 20 protection and Fieldbus Box modules in IP 67, a comprehensive range of devices is available for a wide variety of signal types and fieldbus systems. In addition to components for conventional bus systems, Beckhoff offers an integrated product range optimized for EtherCAT. Invented by Beckhoff, this real-time Ethernet solution for industrial automation has global acceptance and is characterised by outstanding performance and simple handling. The result is high-precision machine and plant control and significantly increased production efficiency.

www.beckhoff.com/IO
www.beckhoff.com/EtherCAT







The Motion Company



AX5000 multi-axis EtherCAT drive

Series Drives

- Available as multi-axis systems or stand alone version (1-12 channels)
- High-speed EtherCAT communication
- Wide range of nominal current types up to 130 A
- Flexible motor type selection
- Optimized for multi-axis applications

www.beckhoff.com/Service-Drives

Distributed Service Drive system

- Drive direct directly integrated into the motor
- STO/SST safety functions as standard
- optionally Safe Motion
- Advanced power electronics ensure minimal heating
- No change in machine design required

www.beckhoff.com/DSDF6000

Synchronous Servomotors

- For demanding positioning tasks
- Highly dynamic Servomotors
- Built-in three-phase power
- Permanent magnet in the rotor

www.beckhoff.com/Servomotors

The Automation Company

Beckhoff offers comprehensive system solutions in numerous performance classes for all areas of automation. The control technology is exceptionally scalable – from high-performance Industrial PCs to mini-PLCs – and can be adapted precisely to application-specific requirements. TwinCAT automation software integrates real-time control with PLC, NC and CNC functions in a single feature-filled package.

www.beckhoff.com/Automation

Series Drives

- Available as multi-axis systems or stand alone version (1-12 channels)
- High-speed EtherCAT communication
- Wide range of nominal current types up to 130 A
- Flexible motor type selection
- Optimized for multi-axis applications

www.beckhoff.com/Service-Drives

Distributed Service Drive system

- Drive direct directly integrated into the motor
- STO/SST safety functions as standard
- optionally Safe Motion
- Advanced power electronics ensure minimal heating
- No change in machine design required

www.beckhoff.com/DSDF6000

Synchronous Servomotors

- For demanding positioning tasks
- Highly dynamic Servomotors
- Built-in three-phase power
- Permanent magnet in the rotor

www.beckhoff.com/Servomotors

Efficient engineering

- Integration into Microsoft Visual Studio
- Wide selection of programming languages: IEC 61131-3, C/C++, MATLAB/Simulink, Safety I/O
- Modular software development
- Automatic code generation interface
- Link to secure code control systems

High performance

- Cycle times from 10 µs
- Multi-core support
- Support of 32-bit and 64-bit operating systems
- Pre-emptive multitasking

Connectivity

- Compatible with all fieldbus systems
- Open and expandable for IT trends – Inter and Intranet
- Adherence to industry specific and standard protocols
- Ready for IoT and cloud computing applications

www.beckhoff.com/TwinCAT3







DIRECTORY OF COMPANIES BY VALUE CHAIN

Automation Parts Manufacturers

Camozzi Malaysia Sdn Bhd



Camozzi Malaysia Sdn. Bhd.

By Camozzi Automation S.P.A Italy



Camozzi Malaysia Sdn Bhd has been in Malaysia since June 2003, we are one of the subsidiaries from Camozzi Automation S.P.A Italy. We are specialise in pneumatic system and providing industrial solutions. We are looking forward assisting you to be in touch with the latest technologies in your industry.

Series 5E (Electromechanical Axis) and Series 6PF (Electromechanical Cylinder)

Series 5E axes are mechanical linear actuators in which the rotary movement generated by a motor is converted into a linear movement by means of a toothed belt. It is suitable for high dynamics and multi-position movement.

Series 6E cylinders are mechanical linear actuators with rod, in which the rotary movement, generated by a motor, is converted into a linear movement by means of recirculating ball screw. The cylinder's dimension is based on the ISO 15552 standard.



COILVISION TECHNOLOGY

Series D



- Integrated diagnostics and predictability
- Available protocols: PROFINET, EtherCAT, EtherCAT, IO-Link
- Flexibility in connecting different I/O modules
- Compact design
- Individual, modular sub-bases in technopolymer

Series PRE - Proportional Pressure Regulator



CYBERMES



OEE & Predictive Maintenance

Camozzi Digital, a Camozzi Group company, was founded in 2015 with the aim of supporting the digitalisation of companies operating in different manufacturing sectors and which want to exploit digital innovation and IIoT solutions.

The evolution of the industrial world has led Camozzi Digital to develop solutions to connect machinery storage and logistics systems and plants and buildings to the cloud platform, transforming them into a Cyber-Physical System (CPS).

Camozzi Digital's methodological approach transforms the data, collected through sensors integrated into machines, into added value for customer, in terms of greater production efficiency and in operating costs and set-up times savings.

- Real time production monitoring
- Efficiency chart : utilisation KPI, machine efficiency and time utilisation
- Visual trouble shooting : alarm and warning localisation.
- Waits and stops : accurate records of all machine downtime events
- Scheduling : machine assignment and real time scheduling

DIRECTORY OF COMPANIES BY VALUE CHAIN

Automation Parts Manufacturers

Festo Sdn Berhad

We drive automation for your success.
We are your partner to inspire you.
We shape the future together.

→ **WE ARE THE ENGINEERS
OF PRODUCTIVITY.**

FESTO



Security | Simplicity | Efficiency | Competency

Companies seeking to be globally successful need to systematically increase their competitiveness. Together we have a very big goal: improving your productivity. Security, efficiency, simplicity and competency: qualities which are found in all of our products, services and training offerings for factory and process automation. Why not take advantage of them? Every day, anywhere in the world.

www.festo.com

DIRECTORY OF COMPANIES BY VALUE CHAIN

Automation Parts Manufacturers

Omron Electronics Sdn Bhd

OMRON

Introduction

In today's globalized manufacturing environment, diverse and complex challenges arise. The global market rapidly changes, and manufacturing companies are under increasing pressure to supply products in a timely manner that satisfy a wide variety of consumer needs. OMRON industrial automation makes efficient, flexible and cost-effective manufacturing possible.

"Innovative-Automation" represents OMRON's vision of a revitalized manufacturing industry. It's a keyword for OMRON to develop future manufacturing together with customers. The future manufacturing that OMRON pursues can be indicated by three "i's" of automation: that is, integrated, intelligent and interactive automation as follows:



"Integrated automation"

OMRON continues to take initiatives to enhance productivity of manufacturers by pursuing high-speed and high-precision machine controls.



"Intelligent automation"

OMRON utilizes factory data to its full potential and is learning from the integration of well-cultivated control techniques and pioneering AI and IoT to make the evolution of our machines and production lines a reality.



"Interactive automation"

OMRON is working towards a future of integrated manufacturing by making the best use of the strengths of machines, robots, and people to form a complete collaborative team.

OMRON

Integrated automation



OMRON One Stop Total Solution

Seamless machine control and factory automation

One machine control through one connection and one software is how OMRON define the Sysmac automation platform. The Machine Automation Controller integrates logic, motion, safety, robotics, vision, information, visualization and networking under one software: Sysmac Studio. This one software provides a true Integrated Development Environment (IDE) that also includes a custom 3D motion simulation tool. The machine controller comes standard with built-in EtherCAT and EtherNet/IP. The two networks with one connection purpose is the perfect match between fast real time machine control and plant data management.

Evolution in control

OMRON

Intelligent automation



OMRON applies AI and IoT to transform the experience, craftsmanship and other tacit knowledge of our seasoned engineers into explicit knowledge, with the goal of complete elimination of factory shutdowns and defects in mind.

Application that capable of detecting minute flaws on product surfaces by using AI or a drive application that can transport sheet material as thin as few microns without allowing them to get folded or torn and process them at a fast and efficient flow.

Intelligence development

OMRON

Interactive automation

Key to OMRON flexible manufacturing is the smart integration of autonomous transportation, safe and collaborative transfer (cobots) and the fast, modular and intuitive packaging (industrial robots). Robots equipped with AI could detect human movement and work accordingly, "harmony of man and machine" could be realized



New harmonization between humans and machines

OMRON Electronics Sdn Bhd (222675-U)

Unit No. 1101, Level 11, Uptown1, No. 1, Jalan SS 21/58, Damansara Utama, 47400 Petaling Jaya, Selangor

Tel: 03 7688 2888 Email: Enquiry-MY@omron.com
Website: <https://www.omron-ap.com.my/>

DIRECTORY OF COMPANIES BY VALUE CHAIN

Automation Parts Manufacturers

Rittal Systems Sdn Bhd



Rittal – The System.
Faster – better – everywhere.

ENCLOSURES POWER DISTRIBUTION CLIMATE CONTROL IT INFRASTRUCTURE SOFTWARE & SERVICES

FREEDELIN LOW ENERGY



Systematic product solutions.

"Rittal – The System.
Faster – better – everywhere."
Everything we do centres around the benefits to you. With you in mind, we have developed a perfectly coordinated system platform that unites innovative products, pioneering engineering solutions and comprehensive service. We plan and implement your infrastructure, ensure reliable power distribution, boost energy efficiency through innovative climate control, and develop complete data centres.

Faster

- System solutions from a single partner
- The perfect interplay between development, engineering, products and service
- A single point of contact, thanks to process-optimised system consulting

Better

- Innovative strength secures competitive advantages
- Cost savings with proven energy efficiency
- Certified quality in management, production and environmental protection

Everywhere

- 58 subsidiaries, more than 150 service partners with over 1,000 service engineers worldwide
- Country-specific expertise from Rittal industry experts
- International approvals provide peace of mind

ENCLOSURES POWER DISTRIBUTION CLIMATE CONTROL IT INFRASTRUCTURE SOFTWARE & SERVICES

FREEDELIN LOW ENERGY



Major energy savings with optimum climate control.

"Rittal – The System," guarantees comprehensive process control protection with the minimum possible energy consumption. Modern cooling units with excellent efficiency and perfect interface technology, together with liquid cooling concepts, offer fresh new perspectives for the correct cooling of electronic components. This is crucial to the availability and reliability of machinery and IT technology.

- Efficient system solutions for every climate control requirement
- Professional design with user-friendly software and app
- Global peace of mind, thanks to international approvals and certifications
- User-friendly assembly saves time and money

The Blue e+ cooling unit series – the ultimate in efficiency. Worldwide.

- **Efficiency** – Up to 75% energy saved due to speed-regulated components and heat pipe technology
- **Versatility** – Suitable for international use due to unique multi-voltage capability
- **Safety** – Longer service life of the components inside the enclosure and the cooling unit due to component-friendly cooling
- **User-friendliness** – Intuitive operation due to touch display and intelligent interfaces

ENCLOSURES POWER DISTRIBUTION CLIMATE CONTROL IT INFRASTRUCTURE SOFTWARE & SERVICES

FREEDELIN LOW ENERGY



IT infrastructure – Flexible, standardised, custom-fit.

Data centres are complex systems. Software, hardware and IT infrastructure must work together efficiently in order to supply the user with inexpensive, reliable IT services. The IT infrastructure must be fail-proof and expandable. It must guarantee a high level of availability coupled with low energy consumption. It must meet a wide range of requirements from various different sectors.

Above all, these include powerful climate control, reliable power distribution, and comprehensive monitoring. With "Rittal – The System," we have therefore created a platform that satisfies these requirements while at the same time minimising complexity and reducing the number of interfaces. "Rittal – The System," guarantees everything from a single source, with one point of contact who is familiar with the specific requirements of your industry.

- Intelligent modular principle – from IT racks to complete data centres
- Energy-efficient solutions for rack, suite and room cooling
- Powerful management software (DCIM) with coordinated interfaces
- Simple selection using online tools

ENCLOSURES POWER DISTRIBUTION CLIMATE CONTROL IT INFRASTRUCTURE SOFTWARE & SERVICES

FREEDELIN LOW ENERGY

DIRECTORY OF COMPANIES BY VALUE CHAIN

Automation Parts Manufacturers

SMC Automation (M) Sdn Bhd

SMC Support Program



SMC
P-E19-31

Partnership Program

By providing the latest pneumatic technology, SMC for your automation needs.

1 SMC Sales Engineers

We are able to provide full support with our globally stationed and networked sales engineers.

2 Local Factory Support

We have 20,000 sales representatives, engineers, and production staff in 83 countries/regions allowing us to offer you full, on-site factory support.

3 Design Engineering Support

We have over 1,600 dedicated R&D engineers around the globe that provide support for all your engineering needs, and are available for consultation on modifying existing products for your specific requirements.



7 Critical Spare Parts for New OEM Machines

When receiving new OEM machines, we are available to consult with you about setting up an on-site inventory of all critical spare parts.

8 Compressed Air Energy Savings Assessments

The goal of our many air-saving system proposals is to help you implement air saving measures in order to improve your energy savings.

9 Machine Analysis Assessments

We will offer proposals for improving the efficiency of all pneumatic equipment in your factories.

1

SMC

continues to create solutions

4 High Usage Spare Parts Analysis

Specializing in the manufacturing of pneumatic equipment and components, we are a one-stop-shop offering total product support in order to meet all of your pneumatic needs.

5 OEM Machine Supplier Support

We will support your OEM machine suppliers from the supply end by providing them with proposals for innovative and optimal solutions regarding new equipment and equipment line design.

6 Machine Safety Support

We will work with you and your factories assisting you in creating an ideal factory equipment layout and/or offering proposals for plant safety upgrades related to ISO 13849-1, EN 62061, and Machine Directive (MD) 2006/42/EC.



10 Inventory Assessments

We will perform inventory assessments of your factories in order to come up with proposals aimed at reducing the number of inventory items by reducing inventory surplus, standardizing components, identifying critical spare parts, etc.

11 Success Stories

We save success stories (energy efficiency, equipment efficiency improvements, inventory optimizations, etc.), and promote the methods/measures used to other factories in order to allow them to realize similar improvements.

12 Onsite & Online Training Classes

We offer a variety of training courses related to pneumatic basics, maintenance, energy savings, and any other requests you may have.

SMC

2

Strong Global Initiatives
Mutual Partner Collaborations
Committed Local Supports

SMC AUTOMATION (MALAYSIA) SDN. BHD. (HQ)

Lot 36, Jalan Orlina 1/1, Subang Hi-Tech Industrial Park,
47500 Subang Jaya, Selangor.
Tel : 603 - 5635 6590
Fax : 603 - 5635 0601
Email : sales@smcmory.com.my
<https://www.smcmory.com.my>

SMC

PERANG BRANCH

7 & 9, Lintang Berangin 3,
Off 2nd, Pinnawilang Damar Laut,
Diamond Valley Light Ind. Park,
Batu Mawar 11660 Perang,
Tel : 604 - 626 2266
Fax : 604 - 626 5155
Email : sales-pg@smcmory.com.my

JOHOR BRANCH

9 & 11, Jalan Cemerlang 4,
Kawasan Perindustrian Dewanti,
81100 Johor Bahru,
Johor, Malaysia
Tel : 607 - 334 9173
Fax : 607 - 334 7811
Email : sales-jh@smcmory.com.my

MELAKA SALES OFFICE

114-1, Jalan Rahmat 1,
Taman Mutiara Jaya,
75250 Melaka, Malaysia.
Tel : (6012)-6150 268
Email : sales-m@smcmory.com.my

MIT 834/28

DIRECTORY OF COMPANIES BY VALUE CHAIN

Automation Parts Manufacturers

WEG South East Asia Sdn Bhd

any time



Energy, Automation and Motors any time, any place. The complete solution that industry needs at the speed the market demands.

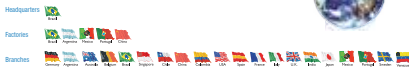
From small systems, to large projects, WEG takes a proactive and detailed approach to solving problems while building open and honest relationships with customers.

Covering all market segments with factories, branches and technical service located around the world, WEG is present in one way or another in everyone's day-to-day life.

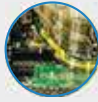
any place

Taking responsibility for the preservation of our planet and people WEG continually invests in the technology necessary to develop more efficient and environmentally friendly electrical solutions.

Any time, any place. Your challenge is ours. This is WEG.



Worldwide companies that have approved WEG



Automation



Motors



Energy

THIS IS



Manufacturing Sites Abroad



WEG EXPORTADORA S.A.
Av. Prefeito Waldemar Sabião, 3000
85220-900 - Jangade do Sul - SC - Brazil
Phone: 55 (47) 3276-4002 - FAX (47) 3276-4080
www.weg.br

901-INDUSTRY - The value shown is subject to change without prior notice.

Industrial Automation



Industrial Motors



Energy

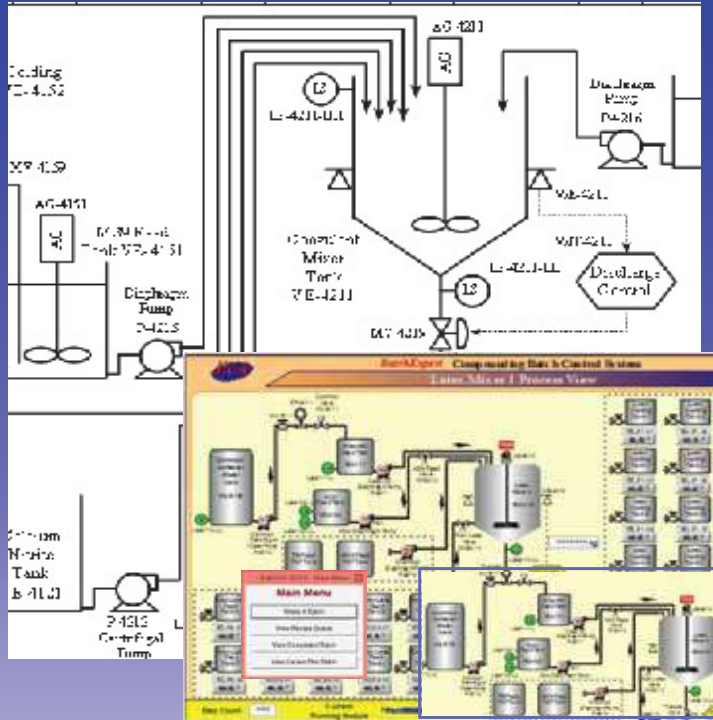


DIRECTORY OF COMPANIES BY VALUE CHAIN

Sub-System Manufacturers

Pc Automation Sdn Bhd

BatchExpert - IoT Smart Batching Control



Advanced & High Quality Production

Integrated IoT Smart Batch Control System

Model: IoT-SBC32

Features:

IoT-based Control
(I4.0 implementation)

IoT has built-in Logic,
Automatic (PID) Control,
On-Off Control, plus
Modbus RTU port

Unlimited Master Recipes

Traceability with auto
Control Recipes for every
batch

Automatic batch error
Correction (Self-learning)

Automatic recipe
encryption protects your
Intellectual Properties
(IP) & Recipes

Adhere to International
Batch Control Standard
(ANSI/ISA-S88)

Eliminates
Control Panels

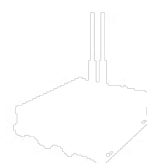


Desktop Computer



Hand-phone
or Tablet

Smart
IoT



Pc Automation Sdn Bhd.

Lot 2-4B, 2nd Floor, Incubator 2, Technology Park Malaysia,
Bukit Jalil, 57000 Kuala Lumpur, Malaysia

www.pcauto.com.my email: sales@pcauto.com.my,
Tel: +603-8996 0310 / 0024, Fax: +603-8996 0331

DIRECTORY OF COMPANIES BY VALUE CHAIN

Sub-System Manufacturers

Pc Automation Sdn Bhd

BatchExp rt - IoT Smart Batching Control

Model: IoT-SBC32

Integrated IoT Smart Batch Control System

for Advanced & high Quality Production

Six criteria of Smart (Flexible) Batch Control (built into Iot-SBC32):

1. Formulation & Batch Procedures (Sequences) are user defined in Master Recipe without programming.
- * Automatic Control Recipe generation for Batch Traceability
- * Automatic Control, Data Analysis & Reporting
- Automatic batch error correction on-the-fly (Self-learning)
- / Automatic end-to-end encryption protects your IP (Recipes & Results)
- 0 Adhere to International Batch Control Standard (ANSI-ISA-S88)

Corporate Level Computers
Store batch results from all factories



Compounding Department
Recipe Download & Control



Hand-phone
or Tablet

Production Department
Batch ordering & monitoring



Laboratory
QA/QC

Smart IoT Control
Automatic plus Manual
batching Control



No More Control Panels

Batch Processing Plant
Mixing Tanks
Ingredient Tanks
Holding Tanks

BatchExp rt (model IoT-SBC32) is a Batch Control System that adheres to the International ANSI/ISA-S Batch Control Standard. It features unmatched flexibility and consistency using advanced IoT-based control technology.

It is an Integrated System, with Batch Ordering, Batch Control, Monitoring, Data Analysis and Realtime Reporting modules. It is scalable to handle multiple mixers simultaneously.

- Unlimited user created Master Recipe
- On-line/Off-line design of Master Recipes
- Optimizes for Consistent & Accurate batch control
- Improves batch Quality & Yield
- Avoid Reworks/wastage

- Supports combined Automatic/Manual operations
- Scalable for simultaneous multiple mixers control
- Increased manufacturing profits
- Logic, PID and On-off Control
- Built-in Modbus RTU port

- Barcode printing for Sampling bottles
- Barcode links each batch with its laboratory QA/QC results
- On-line Lab Analysis with Pass-Fail Criteria Matrix
- Proven with more than 30 years of batching experience

Note: Specifications are subjected to technical changes without notice.



Pc Automation Sdn. Bhd.

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Bukit Jalil, 57000 Kuala Lumpur, Malaysia
www.pcauto.com.my email: sales@pcauto.com.my,
Tel: +603-8996 0310 / 0024, Fax: +603-8996 0331

DIRECTORY OF COMPANIES BY VALUE CHAIN

Software Vendors

DMC Solution (KL) Sdn Bhd

ABOUT US



DMC Solution (KL) Sdn. Bhd. Started operations in the year 2002. Through our twenty years worth of experience in the Industrial Automation Industry, we value each individual's contribution to our success, and we motivate people by means of integrity and ethics.

Our business is to be the Industrial Engineering key player, which provides application-based solutions to solve customers' process problems.



Our Applications Engineers provides design services for customised drive systems used in a wide variety of industries. The Company produces simple to complex turnkey motor drive systems, which is integrating Inverters, Servo, Robotics, with PLCs and SCADA Control System.

In short, DMC Solution is a Total Systems Integrator, specialising in motion technology, and also any application related to electrical power control management, eg. MCC, Switchgear and power monitoring system.

We value each individual's contribution to our success and constant support to personal development. As a team, we gather the best knowledge, intelligence and skill to constantly improve our work and benefit our customers. Working together as a team with our customers, we develop better solutions.

Industries We Serve



- | | |
|-----------------------------|-----------------------------|
| 01 Electrical & Electronics | 07 Aerospace |
| 02 Mechanical & Metal | 08 Rubber Product |
| 03 Food & Beverage | 09 Medical / Pharmaceutical |
| 04 Agriculture / Palm Oil | 10 Furniture / Wood |
| 05 Chemical, Oil & Gas | 11 Textile / Apparel |
| 06 Automotive | 12 Paper & Paper Products |

Products We Carry

Drives

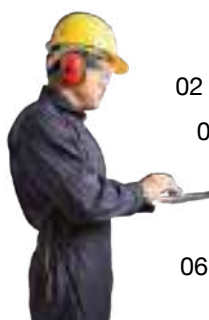


Motor

Control



Services We Provide



- | |
|--|
| 01 Installation |
| 02 Testing & Commissioning |
| 03 Servo / Motion Control |
| 04 Retrofit |
| 05 System |
| 06 Equipment Monitoring & Predictive Maintenance |
| 07 Factory Automation IPC/PLC/SCADA/HMI |
| 08 Process Automation |
| 09 Power Monitoring / Predictive Maintenance |
| 10 Industrial Robots / Autonomous Robots / AGV |
| 11 OEE / Management Dashboard |

DIRECTORY OF COMPANIES BY VALUE CHAIN

Software Vendors

Ecava Sdn Bhd



www.integraxor.com



Company Profile

Ecava started in 2005 with a simple mission - to simplify automation through having SCADA anywhere.

Formed by three engineers with extensive experience in automation engineering and development, Ecava IntegraXor was created - a web SCADA solution that helps engineers and system integrators to easily build, manage and control machines remotely.

As the pioneer in pure Web SCADA, Ecava has presented a white paper on the usage of web technologies and scalable vector graphics (SVG) in 2010 at the SVG Open in Paris. Ecava also holds two U.S. patents in web graphic animation and graphic reporting technology since 2012. Engineers and system integrators alike value Ecava IntegraXor for being the leanest and fastest system in transmitting heavy industrial control data through a latency network. This is achieved through its adoption of pure web technologies like HTML5 and CSS3 for real-time graphic visualization and remote automation control. Its versatility allows for borderless control through any web browser with and is accessible with any PC as well as Apple and Android smart devices.

The combination of having a lean architecture, fast processing, enhanced versatility and expert support has seen Ecava IntegraXor being utilized in industries like oil and gas, power, energy, waste management, water management, utility, mining and building automation.

In a relatively short period of time, Ecava has sold more of its web SCADA systems and made a name for itself to an overseas market rather than the local one. Since 2010, Ecava has also managed more than 1000 installations worldwide, with most of its demand from more mature industry markets like the U.S. and Europe who foresaw the inevitable adoption and move of web technology in the field of SCADA and engineering automation.

+603-8080 4838
sales@integraxor.com

Fastest WEB SCADA Software



WEB SCADA IN THE CLOUD
The 100% pure web based SCADA that connects to cloud.



EASY TO USE
Simple installation with user friendly configuration tools.



LEAN & FAST
Claimed by customers as the lightest & fastest SCADA.



RESPONSIVE HMI
SCADA with responsive HMI and surreal vector graphics.

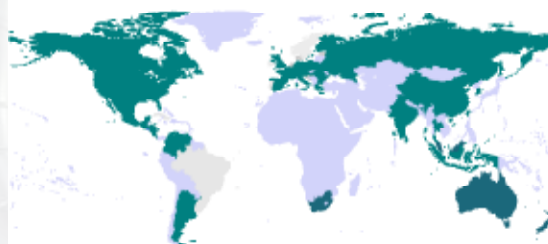


SECURITY
Data protection with HTTPS connection and SSL encryption.



www.integraxor.com

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830000 Urumqi Xinjiang China

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DIRECTORY OF COMPANIES BY VALUE CHAIN

System Integrators

Control Area Network Solutions (M) Sdn Bhd

Control Area Network Solutions (M) Sdn Bhd
No. 30, Jalan Puteh 5/12, Bandar Puteh, 47100 Puchong, Selangor.
Tel: +603 8001 1678 / 1679 | Fax: +603 8001 3788 | Website: www.carms.com.my

COMPANY PROFILE

INTRODUCTION

Control Area Network Solutions (M) Sdn Bhd is a provider of world class instrumentation, control and automation solutions to the global marketplace. Established in year 2002, we specialise in providing end-to-end system solutions, embedded systems, engineering services, consultancy and training to a wide variety of customers. Through the continued expertise and dedication of our professional staff, we offer unparalleled reliability and consistency in meeting the requirements of our customers.



COMPANY ACTIVITIES

- Process / industrial automation and instrumentation
- Supervisory Control and Data Acquisition (SCADA) systems
- Building Automation Systems (BAS)
- System integration
- Industrial CCTV systems
- Circuit board design, microprocessors, schematics, board routing and manufacturing
- Firmware, kernel software, application software, device drivers, system stacks, protocols and porting of operating systems such as embedded Linux, Windows, etc
- Electronic Control Unit (ECU) hardware and software development, testing and validation for automobiles
- Research, development, training and consultancy



VISION STATEMENT

Our vision is to become a leading provider of cutting-edge instrumentation, control and automation solutions for the global marketplace.

MISSION STATEMENT

Our mission is to offer world class products, solutions and systems of the highest engineering standards, 24/7/365, provision of knowledge, innovation and R&D training.

COMPANY PARTICULARS

Registered Name	Control Area Network Solutions (M) Sdn Bhd
Registration Number	569761-W
Corporate Status	Private company with limited share capital
Date of Incorporation	24th January 2002
Company Secretary	CPC Corporate Services Sdn Bhd
Head Office	No. 30, Jalan Puteh 5/12, Bandar Puteh, 47100 Puchong, Selangor, Malaysia
MOF Registration Number	267 02067763
CDD Registration Number	Q120070825-6411-4078
MPSJ Business License	21206120400115

DIRECTORY OF COMPANIES BY VALUE CHAIN

System Integrators

Control Area Network Solutions (M) Sdn Bhd

COMPANY MANAGEMENT



TANG KIAN HION

Dr Tang obtained his BSc and PhD from the University of Warwick (UK) where he also worked as a Senior Research Fellow during the university's industrial research centre. He later joined a major supplier of automotive control systems in UK as a Director and was involved in developing vehicle control systems for several leading automotive manufacturers. He worked as an independent consultant upon his return to Malaysia before founding CANC. Dr Tang is an internationally recognised authority in control, automation and robotics technologies. He has published numerous academic papers to his credit.

MAHESH SAMEAMOORTHY

Mr Mahesh graduated from the University of Canterbury (New Zealand) with degrees in Electrical & Electronic Engineering and Mathematics. He is a Chartered Engineer and a member of the Institution of Engineering Science in UK. Prior to founding CANC, Mr Mahesh was attached to several multinational companies offering solutions to the oil & gas industry. He has executed projects and undertaken business development activities in South East Asia, Australia, the Middle East, India and Europe. His field of expertise is instrumentation, real-time control and data acquisition systems.

PANG KHONG LIN

Mr Pang graduated with a degree in Electrical & Electronic Engineering from Nottingham Trent University (UK), after which he was primarily involved in a position as a research assistant in development activities based in Kuala Lumpur. As a talented engineer, he was entrusted with a number of key projects with the implementation of several high-profile projects involving electronic systems and various electronic systems. Mr Pang brings with him a wealth of management, research and engineering expertise to the company.

ORGANIZATION STRUCTURE



OUR WORK PHILOSOPHY

We hold true to the age-old principles of hard work and dedication. Our corporate culture sees to it that every task is completed with maximum attention to detail, absolute focus and pride. Our working environment nurtures intellectual independence, talent, creativity and innovation. Above all, we place a premium on integrity and honesty. We deliver what we promise whilst always believing that there is no shortcut to good work.



PROJECT IMPLEMENTATION POLICY

Our company has a proven project implementation policy which encompasses years of experience. Our project implementation policy, which addresses all aspects of project initiation, planning & design, execution, monitoring & control and closure, has been specially tailored to address specific needs that concern the instrumentation, control and automation sector. We are therefore able to predict budgetary, analysis critical paths and associated costs to a greater degree of confidence, ensuring that your projects are rolled out within budget, within schedule and comply with technical specifications.



HUMAN RESOURCE POLICY

We aspire to bring out the best in all those who work with us. We believe in developing competency and providing everyone with an opportunity to develop their professional knowledge and skills. The company encourages lifelong learning and professional development.

QUALITY POLICY

We have established and continuously monitor a documented quality management system as a means of ensuring that all work performed by our company conforms to specified and approved requirements. The quality system is reviewed at least once a year to ensure that it is in conformance with the latest industrial codes, standards and practices.

HEALTH, SAFETY, SECURITY AND ENVIRONMENT POLICY

We believe that all accidents are preventable. Every person who comes into contact with our business should expect to interact within a safe and healthy environment including staff, contractors, customers and visitors. The company is committed to do everything that is reasonably practicable to avoid accidents and minimise the adverse consequences of any accidents that do occur.



NAME CARD
With a S. S. S. S.

DIRECTORY OF COMPANIES BY VALUE CHAIN

System Integrators

Galactic Advance Engineering (M) Sdn Bhd



INTRODUCTION

Incorporated in Malaysia, **Galactic Advance Engineering (M) Sdn. Bhd.** has over the past two decades supported the automation industries especially with reference to Siemens Simatic PLC S5, PLC S7, Siemens Drives, Simatic WinCC HMI. Speed and efficiency continues to be the primary driving force of our service and support team. Experiences gained through several encounters in emergency handling and troubleshooting at various plants has earned Galactic the reputation of giving quick and excellent support in the area of industrial automation solutions. This level of excellence is maintained by GAE through a rigorous pursuit where quality and reliability are never compromised at every stage of a project or service.

Our current venture into energy saving and renewable energy initiatives is aimed at maximizing clients' resources by helping them to gain optimum output for minimum input. Our installed base solar energy systems, Hydraulic Press Management Control System and Cold Room Energy Saving effort has yield positive outcome and given us confidence that the direction taken by Galactic to use automation based solutions to fuel energy saving combined with the injection of renewable energy paves the way to a sustainable future.

With our ready team of world class Engineers, we build, commission, service and maintain these automated systems. To our credit, Galactic Advance Engineering (M) Sdn Bhd is the System Engineering Arm to several multi-national companies in this region.

We are specialized in

- Siemens PLC S5 & S7 Projects,
- Support Services and Spare Parts
- Wonderware InTouch visualisation & Orchestra System Platform (Server-client)
- IEC Standards Software Development
- Master Drive – Migration to Sinamics
- PCS7 – Plant Automation
- Renewable Energy & Energy Saving Solutions
- Customized Purpose Built Machinery
- Actionable Analytics Industry 4.0
- Genie Smart Factory
- Terminal Management System
- Fail-Safe Machine Safety Interlock System



GALACTIC ADVANCE ENGINEERING 1 COMPANY PROFILE



COMPANY DETAILS

<p>Date of Incorporation 13 August 1998</p> <p>Registered Name GALACTIC ADVANCE ENGINEERING (M) SDN BHD</p> <p>Business Registration No 467395-V</p> <p>Registered Business Address No. 11, Jalan SS1/39, Kampung Tunku, 47300 Petaling Jaya, Selangor Darul Ehsan, Malaysia</p> <p>Communications Tel : +6 03 7865 7383 Fax : +6 03 7865 7282 Email : galactic@galactic-eng.com Website : www.galactic-eng.com</p> <p>Contacts Chief Operating Officer (COO) 012 206 7003 Sales & Service Manager 012 279 1029 (after office hours)</p>	<p>Industries Served</p> <ul style="list-style-type: none"> Chemical Food & Beverage Glove Metal & Steel Mining & Cement Oleo Chemical Oil & Gas Pharmaceutical Pulp & Paper Semiconductors
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GALACTIC ADVANCE ENGINEERING 2 COMPANY PROFILE

Vision

"Engineering Peace of Mind
Solutions for Our Customer Needs"

At Galactic Advance Engineering, we take utmost pride in engineering performance and reliability into our projects and services. We commit strongly to serve our clients from beyond prompt delivery to rapid and efficient technical support.

The evidence is in our longstanding partnership with global clientele built on trust and result.

Our clients may acknowledge our strengths in advance engineering solutions, we prefer to say that we "Engineer Peace of Mind".

Mission

Efficiency
Continuously striving to maximize production needs of our customers.

Monitoring
Continually assessing our activities to identify improvement potentials and following through with enrichment programs.

Creativity
To improve our working methods continuously seeking innovative solutions to surpass previous achievements.

Strategy
The company's strategy is characterized by robust growth and an ability to adapt spontaneously to new challenges.

Our Achievement

With the vast and rapid movement of technology, particularly in the field of automation, our team of engineers are continually updated, trained and fully equipped to serve customers needs and to handle system failure every step of the way.

We provide remote troubleshooting services via web-based control access from our pool of expertise, directly to our clients.


Our Objective

To create a company that represents "Peace of Mind" solution to our clients' automation needs.





GALACTIC ADVANCE ENGINEERING 3 COMPANY PROFILE



Our Commitment

Comprehensive project development and back-up support services


Project Engineering (New Projects) Including Project management, software, hardware engineering and panel building.

Support Services and Maintenance:


- Commissioning services
- 24 hours hotline connecting automated factory direct to fully trained Galactic Engineers.
- Back-up engineers available anywhere in the region on short-notice.
- Preventive maintenance programs with site visits at pre-determined intervals.
- Advice on recommended spare-parts of critical modules.
- Modification packages to change the configuration of the systems.
- Remote Trouble-Shooting services

At Galactic, we ensure total commitment and reliability by providing our clients the most comprehensive and structured support services available.


ASIA PACIFIC ENGINEERING SUPPORT PARTNER




Facilitate local projects & services




Pre-equipped with industry hardware & software



Well trained technical team



Industry ready SOPs & PPE



24/7 support team

GALACTIC ADVANCE ENGINEERING 4 COMPANY PROFILE

DIRECTORY OF COMPANIES BY VALUE CHAIN

System Integrators

Packaging Sales & Service (M) Sdn Bhd



ISO 9001:2008 CERTIFIED



ABB ROBOTICS PARTNER



TOTAL SOLUTION PROVIDER

FOR PACKAGING PLANT & SYSTEM AUTOMATION



ROBOTIC SYSTEMS



AUTOMATED CONVEYORS



CODING SOLUTIONS



BOTTLING & CANNING



MARKING SYSTEMS



BULK BAGGING



PACKAGING EQUIPMENT



FILLING SYSTEMS



PALLETISING



INSPECTION SYSTEMS



SPECIAL APPLICATION



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PACKAGING SALES & SERVICE (M) SDN BHD

4A, Jalan Teluk Pulau 27/88, 40400 Shah Alam, Selangor, Malaysia

Call: 1234567890 Email: Info@pss.com.my

DIRECTORY OF COMPANIES BY VALUE CHAIN

System Integrators

Sermax Automation Sdn Bhd



BW™ Ultra



Midas®



FSL100 Flame Detector



Sensepoint XCL



Sensepoint XRL



Sensepoint XCD RFD



Satellite XT



CM4



SPM Flex



Vertex M



Vertex Multi-Point



ACM 150 FT-IR

Selangor
SERMAX Automation Sdn Bhd
(1011548-K)
No. 10, Jalan Sungai Rasau E32/E,
Berjaya Park, Seksyen 32,
40460 Shah Alam, Selangor, Malaysia.
Tel : +603-5131 5113
Email : sales@sermax.my

Penang
SERMAX Automation Sdn Bhd
(1011548-K)
35 Tingkat 1, Jalan Tasek Mutiara 6,
Persiaran Mutiara 2, Bender Tasek Mutiara
14120 Simpang Ampat, Pulau Pinang, Malaysia.
Tel : +6012-683 9884
Email : sales@sermax.my

Singapore
SERMAX Engineering Pte Ltd
(2010256632)
11 Mandai Estate, #08-01 Eldix,
Singapore 729908
Phone : +65-6710 7710
Fax : +65-6710 7710
Email : sales@sermax.my

www.sermax.my

DIRECTORY OF COMPANIES BY VALUE CHAIN

System / Machine Builders

Doeka Asia Sdn Bhd

CONTACT



DOEKA Europe

DOEKA Europe GmbH
Weinheimer Str. 6
69488 Birkenau
Germany
Phone : +49 (0) 6201 7049 275
Telefax : +49 (0) 6201 7049 156
E-Mail: administration@doeka.com



DOEKA Asia

DOEKA Asia Sdn. Bhd.
(Company No. 608572-T)
No. 24, 26 & 28 Jalan Meranti Jaya 10
Taman Industri Meranti Jaya
47120 Puchong - Selangor Darul Ehsan
Malaysia
Phone : +60 (0) 3 8052 3300
Telefax : +60 (0) 3 8052 6000
E-Mail: commercial@doeka.com

Don't wait, go ahead... We automate your success! Kindly contact us here:

WhatsApp: +60 12-282 2533

WeChat: darylkok



www.doeka.com

WE AUTOMATE YOUR FACTORY



www.doeka.com

WE AUTOMATE YOUR SUCCESS



Cost savings is our business - since 1966

The competitive edge is our passion. We supply cost savings through advanced technical solutions and future technologies. They minimize the overall costs of your company and the production costs of your products. You can see the results: in the happy faces of your team and in your annual report.

DOEKA is a leading supplier for Industrial Automation solutions. The company was founded in 1966 in Rimbach/Germany as a local machine supplier. Within short DOEKA has become a global player with customers in over 50 countries worldwide.



LEADING
GERMAN TECHNOLOGY

DIRECTORY OF COMPANIES BY VALUE CHAIN

System / Machine Builders

Doeka Asia Sdn Bhd



DOEKA is a leading supplier for Industrial Automation solutions

The company was founded in 1966 in Rimbach/Germany as a local machine supplier. Within short DOEKA has become a global player with customers in over 50 countries worldwide.

Today, DOEKA is a well-respected world-wide market leader in its business field.

Our product range include automated machines and technical solutions for different kind of manufacturing industries. DOEKA is for example world-wide leading for fully- and semi automatic machines for particular medical products. Customer benefits from our engineering know-how and our 50 years of experience in supplying the technical edge.

We are specialized in proceeding customer projects within a short period of time. Therefore we enlarge our key team of around 20 people, mainly engineers and technicians, on project basis to complete customer orders in the best manner and time.

Company Headquarter is DOEKA Europe in Birkenau/Germany (near Frankfurt/Main). DOEKA Asia is located in Puchong / Malaysia (near Kuala Lumpur).



OUR PRODUCTS: HIGH QUALITY MACHINES

Fully-automatic Condom Testing Machine
Fully-automatic Loading Unit
Condom Testing and Sealing Center
Condom Sealing Machine
Household Gloves Packaging Machine
Examination Gloves Packaging Machine
Robotic Solutions



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online at
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www.doeka.com

DOEKA STANDS FOR LEADING GERMAN TECHNOLOGY

WE GUARANTEE FOR:



High Quality
products



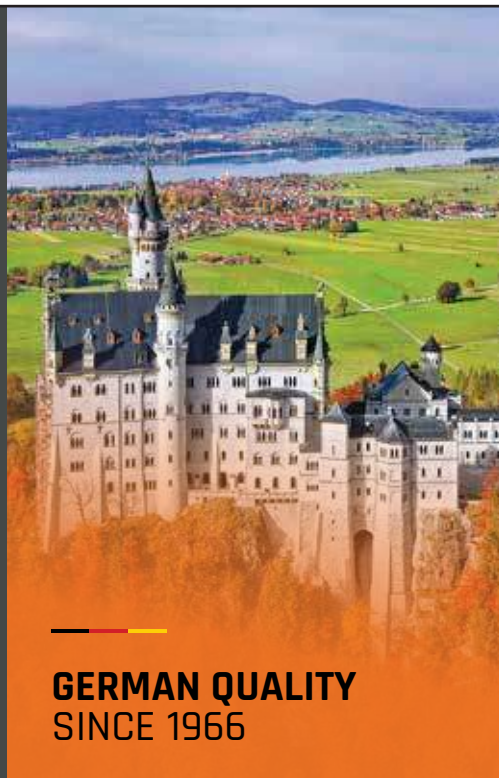
Instant cost
savings



Short amortization
period



Energy
Efficiency



**GERMAN QUALITY
SINCE 1966**

DIRECTORY OF COMPANIES BY VALUE CHAIN

System / Machine Builders

JKS Engineering (M) Sdn Bhd



Formed in year 2000, JKS Engineering (M) Sdn. Bhd. has been fully committed on development of cleaning and automation solutions to over 100 companies worldwide.

110+
STAFFS
CONSISTS OF
SKILLED EXPERTS AND
PROFESSIONALS

20+
YEARS
OF EXPERIENCE
AS A CLEANING AND
AUTOMATION SOLUTIONS
PROVIDER

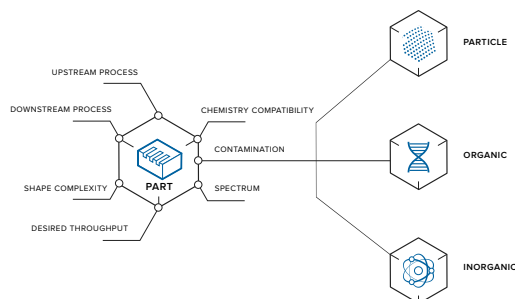
1900+
SOLUTIONS
HAVE BEEN SOLD
WORLDWIDE
TILL THE YEAR
2019

With over 20 years of experience , JKS partners with our customers and suppliers to develop solutions with operation competitiveness.



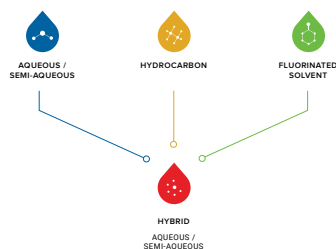
WHAT WE CLEAN

We provide customised cleaning process designs within our standard platform after considering various aspects of the part and the type of contaminant affecting the part.



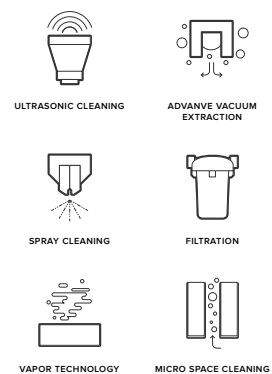
OUR CHEMISTRY

Our strength lies in building long-term partnership with various chemical suppliers in the dedicated industry to provide our customer with operational competitive chemistry.



OUR MECHANICS

Utilizing the right chemistry and cleaning mechanics to satisfy the need of different industries.



DIRECTORY OF COMPANIES BY VALUE CHAIN

System / Machine Builders

JKS Engineering (M) Sdn Bhd



CT SERIES

Open/Fully Enclosed batch handling type Cleaning System which consists of multiple tanks, capable of providing high throughput and performing high flexibility processes.



FE SERIES

Front Loading Fully Enclosed Cleaning System Design which consists of a fully sealed single chamber, capable of performing flexible process with high efficiency.



TT SERIES

Flexible modular construction with simple movement mechanism, capable of handling general cleaning applications.



CC SERIES

Fully Enclosed Continuous Conveyor Cleaning System which consists of multiple tanks, capable of providing high throughput cleaning application and efficient process.



1. PARTICLE EXTRACTION

Process to detach particulate contamination from part using rinsing solvent.

- Equipment :
Glaeser ACM 18
- Method :
Ultrasonic / Spray Rinse
- Rinsing Solvent :
Paraffinic Hydrocarbon



2. FILTRATION & DRYING

Process of capturing particulate contamination from rinsing solvent using filter membrane, followed by membrane drying.

- Equipment :
Glaeser Easy Dry II
- Method :
Vacuum Dry



3. PARTICLE COUNTING & CLASSIFICATION

The sizing and categorizing of particulate contamination under cleanliness class / range.

- Equipment :
Keyence Microscope VHX-5000
Mitani Contami Analyser
- Particle Classification :
Metal, Non-Metal, Fiber



4. REPORT

Particle Count Report specifies the cleanliness level of extracted part. The report is in compliance with VDA 19.1 and ISO 16232.

PROCESS VALIDATION

VDA
19.1

ISO
16232

DIRECTORY OF COMPANIES BY VALUE CHAIN

System / Machine Builders

Vepro Group Sdn Bhd



Robotic System



Fully Automatic System



DIRECTORY OF COMPANIES BY VALUE CHAIN

System / Machine Builders

Vepro Group Sdn Bhd



Workshop Setup Prior Delivery



Conveyor System



DIRECTORY OF COMPANIES BY VALUE CHAIN

Panel Builder / Installers

Nissi Engineering Sdn Bhd



COMPANY PROFILE

NISSI Engineering Sdn. Bhd., a dynamic company was set up in year 2006 by to provide customers with industrial electrical solutions. Today, with a team of more than 30 employees committed in delivering high quality services at competitive pricing, exceeding customers expectation.

Panel Wire-Looping Project



Scada System for Premium Flat



Touch Screen System for Green Environment



Field Installation Project

1. Car Paint Shop @ Klang

We were awarded with a project to cover the electrical scope for a well-known car's new plant's paint shop in Klang.

The project was started in March 2018 and we managed to complete the said project by end of June 2018 as per planned schedule.

We have allocated a team of 50 persons, including safety officers, project coordinators & site supervisors covering project scopes of:

- Material unloading
- Installation of panels, etc.
- Pre-wiring for instruments
- Site wiring
- Testing & I/O check
- Material sourcing/procurement for any miss-planned material
- Project schedule monitoring/ status update

2. Warehouse Auto-deck System @ Malacca

We were awarded with a project to supply control panels & sub panels together with site installation wiring work for a newly implemented warehouse production auto-deck system at Malacca.

The project was started by in early July 2018 and we managed to complete the said project by early August 2018 (ahead of planned schedule)

We have allocated a team of 19 persons, including project coordinators, site supervisors covering project scopes of:

- Supply of control panels, sub-panels.
- Material unloading
- Installation of panels, etc.
- Pre-wiring for instruments
- Site wiring
- Testing & I/O check
- Material sourcing/procurement for any miss-planned material
- Project schedule monitoring/ status update

NISSI ENGINEERING SDN. BHD. (732271-A)

No. 3, Jalan Bukit Badung 26/4,
Hiom Industrial Estate,
Section 26, 40400, Shah Alam, Selangor.
03- 51034789
nissiengineering.sales@gmail.com

DIRECTORY OF COMPANIES BY VALUE CHAIN

Training Providers

AS Automation Systems Training Centre PLT



A STEPPING STONE TO INDUSTRY 4.0

PLC BRAND	MODEL / TRAINING DURATION : 2 Days , 3 Days , 5 Days
SIEMENS	PLC : S7-200 , S7-300 , S7-1200 , S7-1500 with IOT SOFTWARE : WINCC , SIMATIC MANAGER , TIA-PORTAL IOT Cloud
Allen-Bradley	PLC : SLC 500 , CONTROL LOGIX / COMPACT LOGIX SOFTWARE : RS-LOGIX 500 / 5000
MITSUBISHI	PLC : FX SERIES , SERVO/STEPPER MOTORS SOFTWARE : GX DEVELOPER / GX WORKS 2
FANUC	PLC : SERIES 90-30 SOFTWARE : PROFI CY MACHINE EDITION 7.5
OMRON	PLC : C / CJ SERIES / NX SERIES SOFTWARE : CX PROGRAMMER / CX-ONE / SYMAC STUDIO
BECKHOFF	PLC : C3010 SOFTWARE : TWIN-CAT
YASKAWA	PLC : VIPA MICRO SOFTWARE : SPEED 7 STUDIO
Schneider Electric	PLC : TM221 SOFTWARE : SoMachine Basic & HMI ; Vijeo Designer
KEYENCE	PLC : Visual KV Series SOFTWARE : KV Studio ; V10 & HMI Software VT Studio

NO 9-11, JALAN PUTAMAS POSTAL PERDAGANGAN ORIGIN, 81000, JOHOR BEHRI, JOHORE, MALAYSIA
 OFFICE TEL : 06-8545151 / OFFICE FAX : 06-8550881 / TRAINER WHATAPP HP : 01524320141 (1:3000) /
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REGISTERED TRAINING PROVIDER

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Ministry of Education Malaysia

DIRECTORY OF COMPANIES BY VALUE CHAIN

Training Providers

AS Automation Systems Training Centre PLT

PLC, HMI & SCADA Service & Troubleshooting's

With Many years Of Experience In Industrial Automation Projects And Network Of Specialist We Also Provide Expert Supports.

Service Period: Depends on the Troubleshooting Issue.

We Repair: Programmable Logic Controller (PLC) / Human Machine Interface (HMI).

Validation Period: 4 to 8 Hours or maybe more hours needed if the issue is serious " depends ".

Service Location Available : JOHOR STATE Only.

For further inquiry, please WhatsApp MR.Tsoon (+60163329691) .

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TRAINER HP : +6014-6016590(THIVYAN), thivyan@asasmy.com, frivyan@asasmy.com, tzoon@asasmy.com

Lay a Solid PLC Foundation In Your RESUME

Excellence in Automation and Training
Develop your skills in PLC, HMI & SCADA

We specialize in automation and controls and take pride in providing training services

Training:

- Four levels of training for state of the art PLC (Programmable Logic Controller) and HMI (Human Machine Interface) from introduction to basic, advance and expert level.
- Basic concepts, Handling, Programming and Troubleshooting skills in mastering Siemens and Rockwell Industrial Automation Products.
- Fully equipped Training Centre at our new location in JB (see below) with various PLCs for hands on training.
- In-house and on site training.

• HRDF CLAIMABLE

With many years of experience in industrial automation projects and a network of specialists we also provide expert support in :

- Engineering
- Hard and Software Design for PLC, SCADA and HMI.
- Service
- Repair of PLC components
- Delivery of components, obsolete components
- Troubleshooting
- Commissioning support
- Documentation
- GDP (Good Documentation Practices), Validation support according to GAMP.
- Consulting
- Optimization and Efficiency
- Upgrading of machines & processes
- PLC, HMI & SCADA Customized Training Kit


Subject to approval

AS AUTOMATION SERVICES (M) SDN BHD / AS Automation Systems Training Centre PLT (S) 0026478 (M)
No.9-01, Jalan Pertama 5, Pusat Perdagangan Danga Utama, 81300 Johor Bahru, Johor, Malaysia.
Tel : 07-5598470 Fax : 07-5500351 HP : 40123699190 WhatsApp : +60163329691 (T.Soon) .
Email : thivyan@asasmy.com, frivyan@asasmy.com, tzoon@asasmy.com .
Register as a training provider, supplier, subcontractor and/or as a client of the training services with the Ministry of Education, Malaysia.

DIRECTORY OF COMPANIES BY VALUE CHAIN


Training Providers

MIT Academy Sdn Bhd



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INSTITUTE OF
TECHNOLOGY
ACADEMY®**

**WE ENGINEER
YOUR FUTURE**






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Technology partner:

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ACADEMY®**

**WE ENGINEER
YOUR FUTURE**

Message from the CEO

Welcome to the Malaysian Institute of Technology Academy (also known as MIT Academy). I hope you find this prospectus interesting and informative. It is designed to give you all the short courses overview of what we at MIT Academy have to offer and what we stand for.

Our overarching aim is for all our trainees to be trained, up-skill, resourceful and successful, developing as individuals into competent, responsible employees who are able to make an effective contribution to the employer and Malaysian economy in the 21st century. Each trainee is encouraged to perform his/her best in the pursuit of excellence. High quality workshop training, taking place in well equipped laboratories, conducive environment providing the foundation from which our trainees develop.

If you believe in hard work, in the pursuit of the highest possible competencies, personal and work ethic standards, in the development of fully competent individuals with enquiring minds and diligent attitude, underpinned by a whole academy ethos of care, respect and support for others, then join us at The Malaysian Institute of Technology Academy.


If you would like to see the academy in action, please contact us – we will be delighted to offer you a warm welcome. Anthony Ng Mun Sun

"An exceptionally high regard for trainees' personal development and competencies, coupled with a strong work ethics, are at the very core of the academy's work and success. A special atmosphere of learning pervades the academy as a result."



Anthony Ng Mun Sun
CEO





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TECHNOLOGY
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Bosch Rexroth Intelligent Manufacturing 4.0

Electro-Hydraulics with Bosch Rexroth IoT Gateway

PLC Fundamental for Automation and IoT 4.0

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Ronn Kaufman Up Your Service for Customer Service

Facebook Certified Digital Marketing Associate

Google - Fundamentals of Digital Marketing

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TARGET AUDIENCE : IoT to have 75 billion 'connected' devices by 2025.

Target Group - Engineers, Technologist, Senior Executives, Managers, Senior Managers, General Managers, IT executives, Professionals, Technicians.

[COURSE DETAILS](#)
[REGISTER NOW](#)
[TRAINING CALENDAR](#)

Picture taken during Tun Mahathir Mohamad with CEO of Malaysian Institute of Technology Academy at [Launch and Ceremony National Policy On Industry 4.0](#) on 31 October 2018





MITACADEMY.EDU.MY

FOR FURTHER INFORMATION KINDLY CONTACT:

HOTLINE: +603-9236 5337 (24 hours)

t: +603-5122 0701 | m: 012-3831864

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INSTITUTE OF
TECHNOLOGY
ACADEMY®**

MIT ACADEMY SDN BHD

No 26, Jalan Anggerik Vanilla Y 31/Y, Seksyen 31, Kota Kemuning, 40460 Shah Alam, Selangor, Malaysia

t: 03-5122 0704 | m: 012-3831864 | e: enquiry@mitacademy.edu.my

AUTOVATION SDN BHD



Business Nature (1)

AUTOMATION TECHNOLOGY (AT)

We offer a full range of automation components and systems with the application know-how and support necessary to build and maintain any sophisticated automation systems. In manufacturing, benefits span all facets of the production process. Seamless integration with Ethernet/IP, EtherCat and IO Link networks.



1

AUTOVATION SDN BHD



Business Nature (2)

INDUSTRIAL COMPONENT (IC)

From micro-relays to advanced sensors, we offer a wide range of comprehensive advance products to meet the needs of the customers. These products can be found in industrial applications such as relays, switches, vision sensor, timer/counter and temperature controllers.



Sensors



Relays & Switches



Timer & Counter



Switching Power Supply



Temperature Controllers

2

AUTOVATION SDN BHD



Business Nature (3)

Visual Inspection System

In today's automated production environment, processes like inspection, dimension measurements and positioning have demanded increasingly varied and complex vision applications. Omron's vision systems are designed to speed up and simplify these processes.



FQ2 Smart Camera



FQM Series
Vision Sensor



FH Vision System

3

AUTOVATION SDN BHD



Business Nature (4)

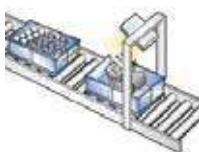
Engineering, Solution & Repair Services

We have a team of experienced Application Engineers to support you.

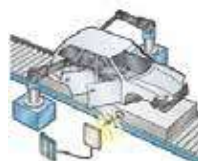
Our engineers specialised in sensing devices, Programmable Controllers, Control Components and many other Omron products. With our experience and knowledge, we are able to convert customer's conventional factory system into a trouble-free, easy monitoring system.



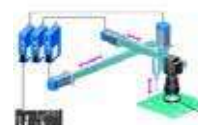
Conveyor System



Automatic Inter-Process



RF Identification
System



Pick and Place
System

4

DIRECTORY OF COMPANIES BY VALUE CHAIN

Distributor / Resellers

Bistanika Sdn Bhd



Best
In
Systems,
Total ,
Automation,
a**N**d
In-depth
Knowledge in
Automation of many Processes

BISTANIKA

A single partner
for all your needs
From conceptual design to
Project implementation,
Operation & maintenance



We understand your needs

CUSTOMERS' SATISFACTION IS OUR PRIORITY

Your trusted partner in the journey towards Industry 4.0

Supplying Components for:

Electrical, Controls & Instrumentation as well as
Mechanical and Process Piping & Control

Providing System Integration, Process Control,
Mechanization & Automation Since 1989



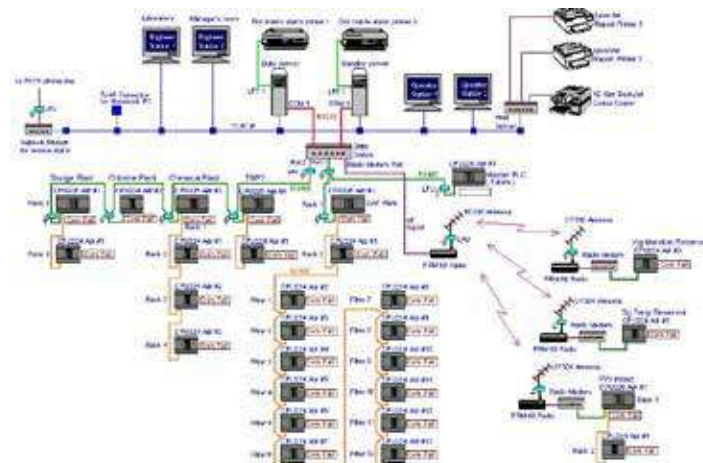
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DIRECTORY OF COMPANIES BY VALUE CHAIN

Distributor / Resellers

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DIRECTORY OF COMPANIES BY VALUE CHAIN

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Diagraph Corporation Sdn Bhd



- ink jet coders
- laser coders
- all-electric servo labelers

LINX® Continuous Ink Jet



up to 5 lines of print

date & lot codes

wash down IP55

solid state printhead

reliable

LINX® SL Laser Coders



indelible marking

compliance

variable information

graphics & logos

simple to operate

Label Printer/Applicators – All-Electric, Servo Driven



all-electric, no air required

label in all orientations

corner-wrap

curved surfaces

pallet labeling

Label Applicators – All-Electric, Servo Driven



low-cost, easy-to-use

tamp or wipe apply

various label sizes/shapes

primary products

secondary packaging

High Resolution Ink Jet



complete case coding

up to 4" print height

10" touchscreen

centralized ink delivery

auto-cleaning printheads

DIRECTORY OF COMPANIES BY VALUE CHAIN

Distributor / Resellers

Diagraph Corporation Sdn Bhd

Large Character Ink Jet



drop-on-demand ink jet

patented valve technology

economical 1-line ink jet

sealed printheads

print on various surfaces

HP Thermal Jet



300 dpi print resolution

replaceable ink cartridges

print up to 10 lines of data

bulk ink system option

print characters up to 1" tall

Label Printers



CAB®, Zebra®, Citizen®

print up to 8.5" wide labels

Consumables



ribbons

labels

inks

Thermal Transfer Overprinters



Linx TT3

Linx TT5

53mm x 80mm
print area

Up to 213mm x 100mm
print area

multiple lane printing
(up to 6 PH)

Service, Parts, Inks



customer support

factory-trained techs

on-site training

help desk technicians

preventive maintenance

 **Diagraph**
An *ITW* Company

Diagraph Corporation Sdn Bhd

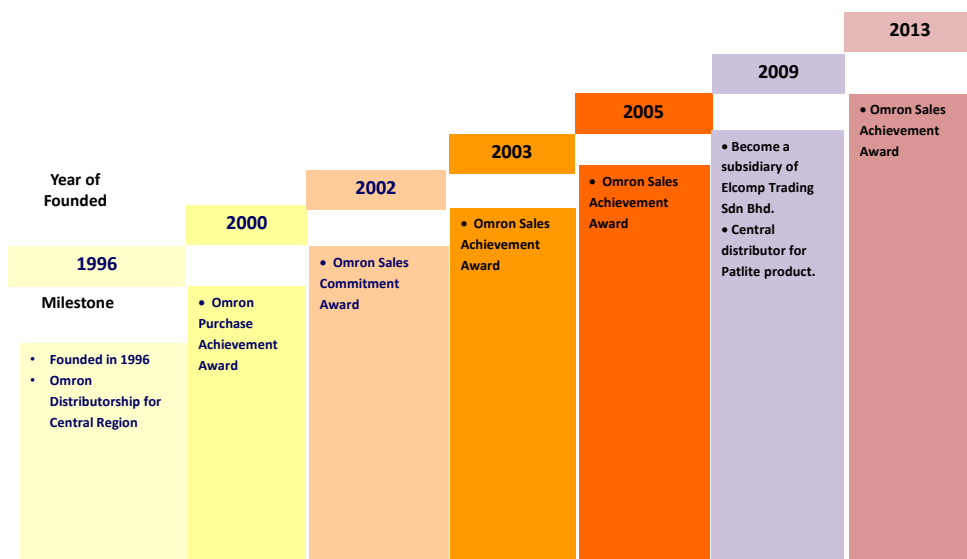
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1. EM Systems In Brief

EM System Sdn Bhd is a joint venture company with Elcomp's group and Electrical Marketing Sdn Bhd. The said company is Authorized Distributor for Omron's product in central region and specialized in Industrial Automation, Control and sensing components. Our service ranges are inclusive product application, system integration and commissioning related to industrial automation and product training .



2. History & Milestone



Major Customers



8. Targeted Industry



Machine Automation



Educational Sector



Manufacturing Executive System



Process Automation



Environmental Monitoring

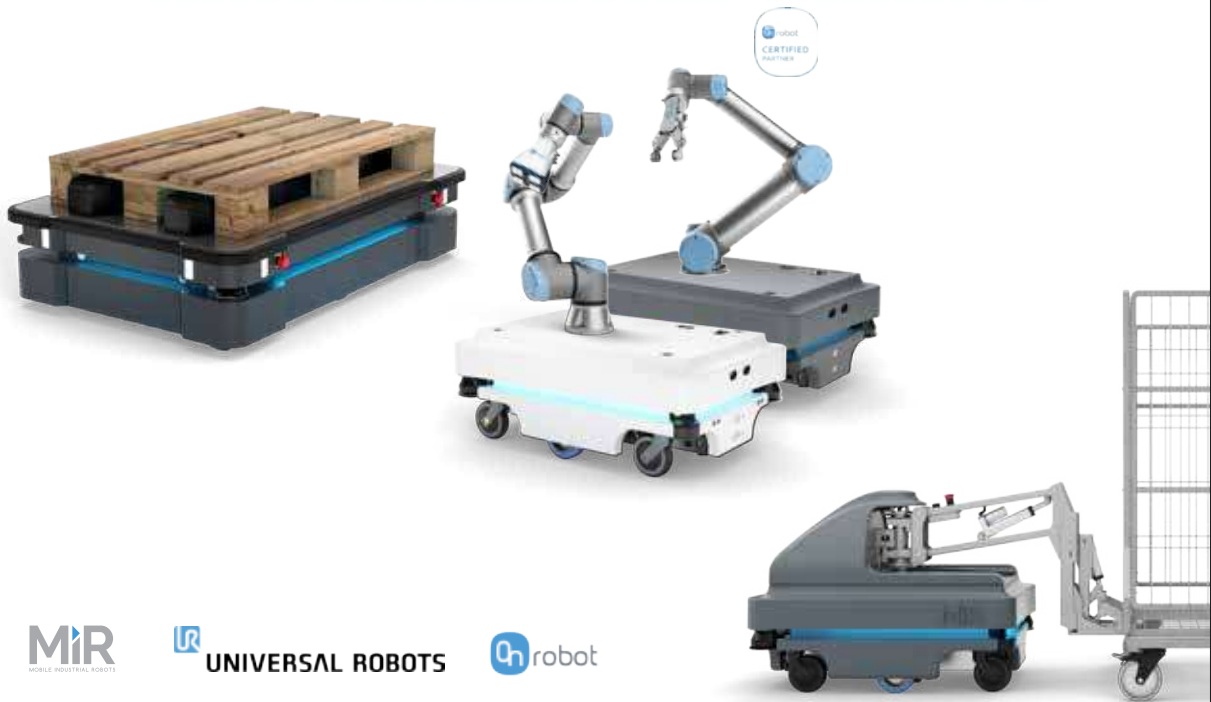
Industries Focus

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MOBILE INDUSTRIAL ROBOTS

UNIVERSAL ROBOTS

Chrobot

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ifm – close to you!



About us

At the beginning it was passion driving the founders to make it better. To develop sensors with extraordinary quality and reliability and to provide unequalled customer service. It was with this vision and knowing that "quality" by far exceeds the actual product that ifm started in October 1969.

Close to you

After many years of intensive cooperation with our customers we have established ourselves in the market as service-oriented sensor specialists and today we are represented by more than 7,300 employees in over 95 countries worldwide. Even though we have grown into a big company we have still maintained the virtues of the founding years: The flexibility and individuality of a small enterprise and the quality and professionalism of a group. And our customers are still today in the centre of our work - close to you.

Quality and service

Our sensors undergo test procedures that stresses far beyond their limits to make sure that they keep what we promise in the customers' processes. Therefore we are able to grant a 5-year warranty on each catalogue product.



Made in Germany

70 % of our products are developed and manufactured in Germany. But we have reached a point at which we want to further extend the vision of our commitment "close to you". With manufacturing and development locations in the USA, in Singapore, Poland and Romania, they have all been set up according to the same high German quality standards.



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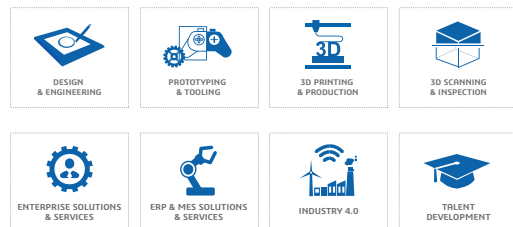
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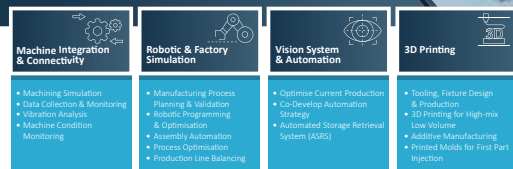
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WEG South East Asia Sdn Bhd

Company Registration No.

303407-P

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Name of MD/CEO

Murilo Logullo Machardo

Website

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APPENDIX 2 : Products & Services Mapping

		<div><div>● Products Mapping</div><div>○ Services Offered</div></div>																														
No	Company	3D Printer	Autonomous Robot / AGV	CAD / CAM	Cloud Computing	Control Components	Data Logger / Recorders	DCS / PLC	ERP / MES / SCM / CRM	Gears & Motors	Industrial PC	Industrial Robot	Inverter	Machine Vision	Machinery & Equipment	Pneumatic / Hydraulic	Power Monitoring	Process Controller	Process Equipment / Valves	RFID / Barcode	Robotics	Safety Devices / Systems	SCADA / HMI	Scientific / Lab Instruments	Sensors	Servo / Stepper	Software Stimulation	Switchgear	Telemetry / RTU	Test & Measurement	Weighing	Others *
1	A One Union (M) Sdn Bhd					●																			●					●		
2	Advantech Co. Malaysia Sdn Bhd										●			●	●								●					●				
3	AFA Technologies Sdn Bhd					●		●		●	●	●	●	●	●	●				●			●		●	●						
4	AS Automation Systems Training Centre PLT																						●		●	●						
5	Autovation Sdn Bhd		●			●		●				●	●	●							●	●	●	●		●	●	●				
6	Beckhoff Automation Sdn Bhd						●	●		●	●			●			●						●				●	●		●		
7	Bistanika Sdn Bhd				●	●	●	●			●				●		●	●	●	●	●	●	●					●		●	●	●
8	Camozzi Malaysia Sdn Bhd						●	●	●			●			●	●	●	●	●	●						●	●					
9	Controller Area Network Solutions (M) Sdn Bhd							●															●		●					●		
10	Diagraph Corporation Sdn Bhd														●					●												
11	DMC Solution (KL) Sdn Bhd						●	●		●	●		●				●				●		●			●		●	●	●		
12	Doeka Asia Sdn Bhd														●							●	●								●	
13	Ecava Sdn Bhd				●			●	●		●						●			●			●									
14	EM Systems Sdn Bhd		●			●					●	●	●	●			●			●	●	●			●	●						
15	FA Controls Sdn Bhd		●			●		●				●										●										
16	Festo Sdn Berhad					●		●		●						●							●		●	●						

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17	Galactic Advance Engineering (M) Sdn Bhd							●	●		●		●				●	●		●		●	●									
18	HF Technology Sdn Bhd		●								●			●																●		
19	ifm electronic Pte Ltd					●														●					●							
20	IME Technology Sdn Bhd	●		●					●						●						●				●							
21	Jaytron Automation (EM) Sdn Bhd					●	●	●			●			●	●		●	●	●	●	●	●	●	●	●				●	●	●	
22	JKS Engineering (M) Sdn Bhd														●																	
23	MIT Academy Sdn Bhd	●		●	●			●								●				●	●				●	●						
24	Nissi Engineering Sdn Bhd												●											●								●
25	Omron Electronics Sdn Bhd		●			●	●	●			●	●	●	●	●		●	●		●	●	●	●		●	●						
26	Packaging Sales & Service (M) Sdn Bhd		●			●		●			●			●	●			●		●	●		●			●						●
27	Pc Automation Sdn Bhd					●	●	●										●		●			●					●		●	●	
28	Rittal Systems Sdn Bhd																						*climate control solutions for enclosures and machines									
29	Sermax Automation Sdn Bhd						●	●											●				●		●				●			
30	SMC Automation (Malaysia) Sdn Bhd															●			●						●	●						
31	Vepro Group Sdn Bhd			●		●		●		●	●	●	●	●	●			●	●		●	●	●	●	●	●	●	●				●
32	WEG South East Asia Sdn Bhd								●				●															●				

APPENDIX 2 : Products & Services Mapping

<div> <div>● Products Mapping</div> <div>○ Services Offered</div> </div>		Consultancy	Design / Engineering	Field Service	Maintenance Contract	Panel Design / Fabrication	Procurement	Product Design	Project Management	Testing Calibration	Training	Turnkey Contract	Warranty / Repair	Wiring / Installation
No	Company													
1	A One Union (M) Sdn Bhd		○											
2	Advantech Co. Malaysia Sdn Bhd	○	○						○					
3	AFA Technologies Sdn Bhd		○	○	○	○	○	○	○		○		○	○
4	AS Automation Systems Training Centre PLT	○	○	○		○					○			○
5	Autovation Sdn Bhd		○		○	○			○	○	○		○	○
6	Beckhoff Automation Sdn Bhd		○	○							○		○	○
7	Bistanika Sdn Bhd	○												
8	Camozzi Malaysia Sdn Bhd	○	○	○		○					○	○		
9	Controller Area Network Solutions (M) Sdn Bhd	○	○	○	○	○	○	○	○	○	○	○	○	○
10	Diagraph Corporation Sdn Bhd			○	○								○	○
11	DMC Solution (KL) Sdn Bhd		○	○	○	○					○			○
12	Doeka Asia Sdn Bhd	○	○	○	○			○		○	○		○	
13	Ecava Sdn Bhd	○	○	○	○				○		○			
14	EM Systems Sdn Bhd			○	○						○			
15	FA Controls Sdn Bhd		○		○									
16	Festo Sdn Berhad		○	○		○	○	○			○		○	○

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18	HF Technology Sdn Bhd	<div></div>												
19	ifm electronic Pte Ltd		<div></div>											
20	IME Technology Sdn Bhd	<div></div>	<div></div>					<div></div>	<div></div>		<div></div>	<div></div>		<div></div>
21	Jaytron Automation (EM) Sdn Bhd	<div></div>					<div></div>							
22	JKS Engineering (M) Sdn Bhd				<div></div>								<div></div>	<div></div>
23	MIT Academy Sdn Bhd	<div></div>							<div></div>		<div></div>			
24	Nissi Engineering Sdn Bhd			<div></div>	<div></div>	<div></div>	<div></div>		<div></div>	<div></div>				<div></div>
25	Omron Electronics Sdn Bhd	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>			<div></div>		<div></div>		<div></div>	<div></div>
26	Packaging Sales & Service (M) Sdn Bhd	<div></div>	<div></div>		<div></div>	<div></div>			<div></div>			<div></div>		
27	Pc Automation Sdn Bhd	<div></div>									<div></div>	<div></div>		
28	Rittal Systems Sdn Bhd													
29	Sermax Automation Sdn Bhd		<div></div>	<div></div>	<div></div>	<div></div>			<div></div>	<div></div>				<div></div>
30	SMC Automation (Malaysia) Sdn Bhd		<div></div>			<div></div>		<div></div>	<div></div>		<div></div>		<div></div>	
31	Vepro Group Sdn Bhd		<div></div>	<div></div>	<div></div>	<div></div>			<div></div>	<div></div>	<div></div>		<div></div>	<div></div>
32	WEG South East Asia Sdn Bhd									<div></div>			<div></div>	

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