

Pentamaster Corporation Berhad

MAY 2020

Innovate • Automate • Integrate

www.pentamaster.com.my

Disclaimer



The information contained in this presentation is provided for informational purpose only, and should not be relied upon for the purpose of making any investment or for any other purpose.

Some of the information used in preparing this presentation was obtained from third parties or public sources. The information contained in this presentation has not been independently verified. No representation or warranty, expressed or implied, is made as to, and no reliance should be placed on, the fairness, reasonableness, accuracy, completeness or correctness of such information or opinions contained herein. It is not the intention to provide, and you may not rely on this presentation as providing, a complete or comprehensive analysis of our financial or trading position or prospects. The information and opinions contained in this presentation are provided as at the date of this presentation and are subject to change without notice and will not be updated to reflect any developments which may occur after the date of this presentation.

All statements, other than statements of historical facts included in this presentation, are or may be forward-looking statements. Forward-looking statements include, but are not limited to, those using words such as "seek", "expect", "anticipate", "estimate", "believe", "intend", "project", "plan", "strategy", "forecast" and similar expressions or future or conditional verbs such as "will", "would", "should", "could", "may" and "might". These forward-looking statements reflect the Company's current expectations, beliefs, hopes, intentions or strategies regarding the future and assumptions in light of currently available information. Such forward-looking statements are not guarantees of future performance or events and involve known or unknown risks and uncertainties. Accordingly, actual results may differ materially from information contained in the forward-looking statements as a result of a number of factors. You should not place undue reliance on such forward looking statements, and the Company does not undertake any obligation to update publicly or revise any forward-looking statements. No statement in this presentation is intended to be or may be construed as a profit forecast.

We also do not undertake any obligation to provide you with access to any additional information or to update this presentation or any additional information which may become apparent.

This presentation does not constitute an offer or invitation to purchase or subscribe for any shares and no part of it shall form the basis of or be relied upon in connection with any contract, commitment or investment decision in relation thereto.



CH 1	Company Overview	4
CH 2	Industry Overview	15
CH 3	Investment Highlights	18
CH 4	Financial Information	22
CH 5	Recent Corporate Developments	25

Company Overview



Pentamaster Corporation Berhad (the "Company" or "Pentamaster") together with its affiliates and subsidiaries (the "Group" or "Pentamaster Group") provide automation technology and solution to multinational manufacturers including but not limited to the semiconductor, telecommunications, consumer electronics and automotive sectors, spanning across APAC, North America and Europe.

- · Headquarter: Penang, Malaysia
- Founded: 1995
- The parent company, Pentamaster Corporation Berhad ("PCB"), is listed on Bursa Malaysia Stock Exchange, stock code: PENT.MK (Bloomberg).
- Two main revenue contribution of the Company are:

1. Automated test equipment

- > FY2017: 85.6%, MYR232.6mn / HKD440.3mn*
- > FY2018: 84.8%, MYR337.9mn / HKD639.6mn*
- > FY2019: 86.7%: MYR422.5mn /HKD799.7mn*
- Q12019: 85.2%: MYR99.4mn / HKD178.9mn*
- Q12020: 66.2%: MYR66.2mn / HKD119.2mn*

2. Factory automation solutions

- > FY2017: 14.4%: MYR39.0mn / HKD73.8mn*
- FY2018: 15.2%: MYR79.2mn / HKD149.9mn*
- FY2019: 13.3%: MYR64.6mn / HKD122.3mn*
- Q12019: 14.8%: MYR17.3mn / HKD 31.1mn*
- > Q12020: 33.8%: MYR33.8mn / HKD60.8mn*



Market leader in Malaysia in terms of revenue and profit with high growth amongst listed companies on Bursa Malaysia in the back-end semiconductor ATE market



- Consecutively 3 yeas in a row (2017, 2018, 2019) ranked in the top 200 Forbes "Best Under a Billion" list of companies that are publicly listed in APAC
- "Highest Growth in Profit After Tax Over Three Years" and "Highest Returns to Shareholders Over Three Years" for the technology sector in THE EDGE's Billion Ringgit Club ("BRC") award 2019



Ability to innovate and deliver high value-add integrated products and solution

- As at 31 March 2020, total headcount of 575 with more than 450 in-house engineers
- following completion of the second new production plant with a gross floor area of approximately 97,033 sq.ft., the Group production plant's total gross floor are is now estimated to be more than 180,000 sq.ft. and the Group expects more delivery of projects involving large-scale factory automation lines going forward
- aggressively ventured into medical segment via the acquisition of TP Concept Sdn Bhd that is into manufacturing and assembling of medical machines and manufacturing of die casting parts.
- able to deliver products and solution within relatively short lead time of 8 to 12 weeks in general



High visibility of secured purchase orders given the nature of business proposition that is mainly in new "features" product launch

*Note: translation of US\$ to MYR and MYR into HKD and vice versa are made in this document, for illustration purposes only, at the rate of US\$1.00 to MYR4.31

Company Overview (cont'd)





Headquarter located at Bayan Lepas, Penang, Malaysia.

 90,310 sq ft., Design center, prototyping, small to large volume build



Pentamaster's second plant located at Batu Kawan, Penang, Malaysia.

 97, 033 sq ft., High volume machine build, and equipment contract manufacturing 6,000+ Projects Deployed

■ 570+ Employees

■ 450+ Engineering R&D Staff

Key Market Segment

Semiconductor

Telecommunications

Automotive

Medical Device

Key Competencies

Mechanical Design

Smart Automation Programming

Vision AOI

Imaging Test

Optics Photonics Test

Electrical Test

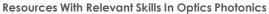
Optics Photonics Test Solution

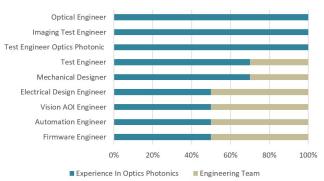
600+ systems delivered

Recognized by world leader customers

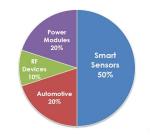
Has latest 3D smart sensing test technology

90% Repeat Customers





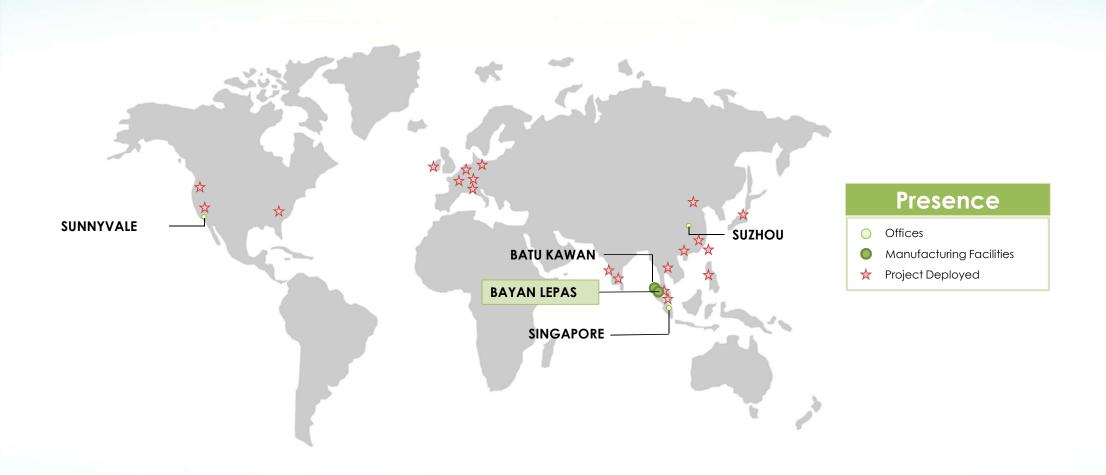
Average approx. 65% of engineering resources are experienced in their engineering field supporting optics photonics tester design.



50% of 2019 revenue contributed by optics photonics segment.

Worldwide Presence

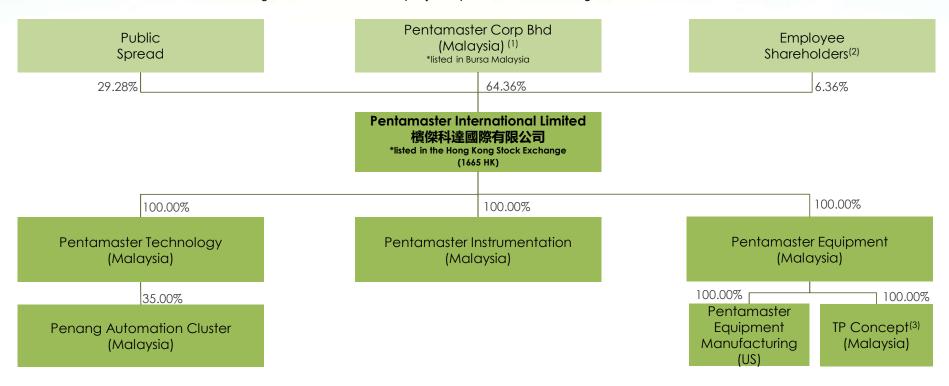




Organization Structure



The following chart sets forth the Company's corporate and shareholding structure as at **31 March 2020**



- *Note: 1. Pentamaster Corp Bhd is listed on the Main Market of Bursa Malaysia under stock code 7160 (PENT MK).
 - 2. There are approx. 200 Employee Shareholders, two of whom are Company's Directors, namely Mr. Chuah and Ms. Gan.
 - 3. On 26 September 2019, PIL entered into a share sale agreement with all the existing shareholders of TP Concept to acquire 100% equity interest in TP Concept. The conditions for completion of the share sale agreement have been fulfilled and the completion of the acquisition took place on 27 September 2019. TP Concept principal activity is manufacturing and assembling of medical machines and manufacturing of die casting parts.

Milestones



The table below is a summary of the company's key business milestones and achievements.

2003

PCB was listed on the second board of Bursa Malaysia

Pentamaster Group was awarded Industry Excellence Award by Ministry of International Trade & Industry of Malaysia in quality management category

Establishment of Pentamaster Instrumentation, marking the expansion of our automated equipment business

2015

Pentamaster Equipment developed i-ARMS to address manufacturina needs under Industry 4.0 and subsequently granted the Pioneer Status in 2016 for a period of 10 years

2006

Establishment of Pentamaster Equipment, marking the commencement of high precision manufacturing equipment business

2016

Pentamaster Technology was granted the Pioneer Status for smart device test solution for IoT industry and related modules for a period of 10 years

2018

2018

MYR100 million

Established US sales

and technical office

2017

Achieve the highest revenue of

Listing of the Company on The Main Board

technical support office in California, USA.

PCB was again named as one of the 200

Asia-Pacific public companies with less than

US\$1.0 billion in revenue and consistent topand bottom-line growth on Forbes' list of Asia's Best Under A Billion ("Forbes Award")

more than MYR400 million and PAT above

of The Stock Exchange of Hong Kong

Limited and incorporation of sales and

Pentamaster Group was awarded the 2017 Alliance Partner of the Year (APAC) by the National Instruments Corporation (NASDAQ:NATI)

PCB was named as one of the 200 Asia-Pacific public companies with less than US\$1.0 billion in revenue and consistent top- and bottomline growth on Forbes' list of Asia's Best Under A Billion 2017

2019

PCB was again named for Forbes list of Asia's Best Under a Billion 2019. three years in a row.

Acquisition of TP Concept Sdn Bhd



2019

THE EDGE's Billion Ringgit Club ("BRC") award 2019 -"Highest Growth in Profit After Tax Over Three Years" and "Highest Returns to Shareholders Over Three Years"

1999

Establishment of the

incorporation of Pentamaster

Technology, marking the

commencement of the

automated system and

equipment business

Company with the

1995

Awarded International Supplier of the Year by Dell Inc. for excellence in worldwide process technology

2004

PCB's listing was transferred to the main board of Bursa Malaysia

Establishment of first representative office in Shanahai to provide customer liaison support to customers in the PRC. The Group was also awarded Industry Excellence Award by Ministry of International Trade & Industry of Malaysia in quality management category

Awards & Recognition





 "Highest Growth in Profit After Tax Over Three Years" and "Highest Returns to Shareholders Over Three Years" for the technology sector in THE EDGE's Billion Ringgit Club ("BRC") award 2019



 Top 200 Forbes "Best Under a Billion" list of companies that are publicly listed in APAC – 2017, 2018, 2019













- Malaysia Best Under Billion Awards 2018 (Focus Malaysia):-
 - Overall Winner
 - Best Revenue Growth
 - · Best Enterprise Value

 Malaysia Best Under Billion Awards 2017) Focus Malaysia)



Our Solution



Broadly our offered solution comprise two (2) segments, namely Automated Test Equipment ("ATE") and Factory Automation Solutions ("FAS")

Solution Offering

Automated Test Equipment

Semiconductor Electronic Components Testing Solution

MEMS & SMART Sensor Test Solutions

a.Semiconductor and MEMS Sensor

[Discrete and IC Test , MEMS Microphone , RF Device , Power Device , Power Module , Gyro Motion Sensor]

b.Optics & Photonics Sensor

[Structured Light 3D Sensor, Humidity Sensor, Pressure Sensor, Proximity Sensor, Time of Flight Sensor, Wafer Level VCSEL, Active Alignment, Ambient Light Sensor, Image Sensor, spectrum sensor]

- Automated vision inspection handler
- Intelligent sortation system

End-product Test Solutions

LED Burn-in and Test

[LED Test & burn-in Handler, LED Burn-in Oven Handler, Constant Current Rack Module]

Customized Test Solutions for Consumer & Electronic product

[Consumer Appliances Test Solution, Smart Card Biometric Solution]

Pentamaster Technology (Malaysia)

Pentamaster Instrumentation (Malaysia)

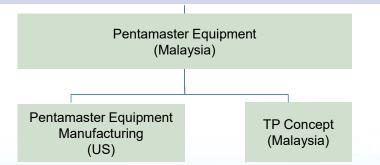
Factory Automation Solutions

FAS Module

- · Material handling equipment
- High-speed sorters
- Assembly & test modules
- Manufacturing executive system (MES)

i-ARMS Solution

- Automated assembly system for food tray
- Automated conveying, boxing, weighting, sortation, storage and palletising system
- Vacuum cleaner filter automated assembly solution



Innovate • Automate • Integrate

www.pentamaster.com.my

Products – Automated Test Equipment



Standardized and customized standalone automated equipment for (i) semiconductor electronic components testing for smart sensors and ICs (integrated circuits); and (ii) end products testing for consumer electronics, telecommunications products and LEDs.

Category	Semiconductor Electronic Components Testing Solution				
Products and Solution	MEMS & Smart Sensor Test Solutions	Automated Vision Inspection Handler Solutions	Intelligent Sortation System	End-products Test Solutions	
Test Subjects Optoelectronics, light, temperature, sound, distance, pressure and humidity		Dimension, shape, position and visual defects	Electrical functional parameters	LED burn-in and test structures, failure and functional test	

• The end product test solutions provide integrated systems, comprising electronic hardware (i.e. testing machines), firmware and software, to perform various tests on electrical and electronic end products. These products and solution are customized according to the tests and the device under test required.



MEMS microphone test handler



Structured Light 3D Sensor Test Handler



Power Module Handler



Optical VCSEL Wafer Test Handler



Time of Flight (ToF) 3D Sensor Handler

Products – Factory Automation Solutions



The Group customizes and automates manufacturing processes by integrating automated assembly and test modules, material handling equipment, robotics technology, auto inspection and manufacturing executive system. i-ARMS is a comprehensive factory automation system that integrates various combinations of FAS modules with other technology components such as vision devices, sensor devices and RFID. FAS modules offer diverse automated functions which can be applied to different processes in a manufacturing line. FAS modules can be broadly categorized as manufacturing executive system, test modules, high-speed sorters and material handling equipment.

i-ARMS solution





Power Roller Conveyor



Motorised Lifter



Automated Assembly and Test Modules

Latest 3D Product Solutions



The Group's One Stop Solution for 3D Sensors Active Alignment Assembling solution that comprises of 6-Axis Alignment Stage for modules assembling, inline UV curing, High precision glue dispenser, Vision guided pick & place handler with Advance AOI System



Active Alignment Collimator Module

Active align and assemble Laser and Lens modules



Active Alignment DOE Module

Active align and assemble DOE lens with VCSEL outer housing



Lens + Inner Housing Assembly

Active align and assemble Optical lens with VCSEL inner housing



Active Alignment Projector

Active align and assemble Collimator module with DOE module

Core Competencies





High Technological Competencies Skill



Mechanical Automation Electrical Test Instruments Firmware Vision AOI







Imaging Optics Photonics PCB Design **Toolmakers** Production



Imaging

Innovative Experience



Prototyping Fast Turn Around **Onsite Engineering**



Labs Complete **Engineering Analysis Tools**



Process Knowhow, Project Management, Ramp Support, **Production Support**



Modular Design, Reusable hardware and software. Test cell, SemiAuto system, and production system correlation.



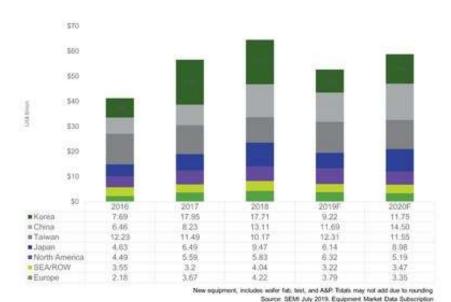
Chapter Two: Industry Overview

Semiconductor Equipment Forecast



Worldwide sales for semiconductor equipment manufacturers closed 2019 with sales totalling \$59.8 billion in 2019, registering **a drop of 7%** from the all-time high of \$64.5 billion in 2018, according to SEMI. Sales of wafer processing equipment, assembly and packaging along with test equipment sales **fell 6%**, **27% and 11%** respectively, with the exception of sales to China where it rose across all major equipment segments. In 2019, Taiwan claimed the largest market for new semiconductor equipment with sales totalling \$17.12 billion, followed by China with sales totalling \$13.45 billion.

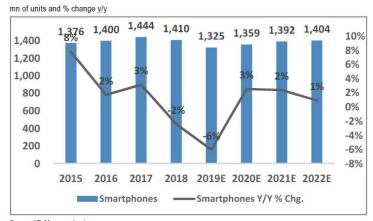
Barring the current pandemic situation, the semiconductor equipment business is expected to bounce back and grow by 7.3% in 2020, according to VLSI Research.



Meanwhile, electric vehicle (EV) sales worldwide could drop from 2.2 million in 2019 to 1.3 million by the end of this year, according to a new projection. Market researchers attribute this expected 43% drop in part to the novel coronavirus outbreak, which is affecting automotive manufacturing.

The recent analysis by Wood Mackenzie noted that "the coronavirus outbreak, potential delays to fleet purchasing due to lower oil price, and a wait-and-see approach to buying new models have all contributed to this decrease in projected sales."

Global Smartphone Market Forecasts



Source: J.P. Morgan estimates.

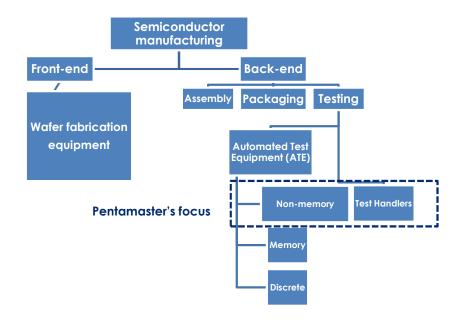
Meanwhile, global smartphone market **declined 13%** year-on-year as of Q1 2020 with the current Covid-19 pandemic. It was also the first time since Q1 2014 that the smartphone market has fallen below 300 million units in a quarter. The decline was mainly led by a **27% year-on-year shipment decline in China**. However, the bright spot was the 5G smartphone shipment share where it increases to **8% vs 1%** in Q4 2019. Additionally the Chinese smartphone market has somewhat rebounded in April 2020, showing a year-on-year **increase of 14%**.

The Global Back-End Semiconductor ATE Market



The Group involved in the non-memory ATE and test handlers markets. Test handlers are estimated to constitute about 10.0% to 12.0% of the back-end test equipment market.

The figure below is a summary of front-end and back-end segmentation of the semiconductor manufacturing processes:



Key drivers

Telecommunications



- In a typical smartphone, there are generally at least 5 sensor modules
- Major manufacturers such as Apple, Samsung, Oppo and Huawei launch new smartphone products at least once a year
- ✓ The shorter product cycles will likely result in an unprecedented demand for ATEs

Automotive

- Revenue from semiconductor ICs in the automotive sector amounted to US\$22.9 billion in 2016, with an expected CAGR of 10.3% for 2015 to 2020 *(1)
- at least 2.1 mn EVs on the roads worldwide in 2018, with the PRC and the U.S. accounting for 56.3% and 17.0%*(2)

Medical devices



- The ageing population constitutes 13.0% of the global population in 2017 and this equates to approximately 962 million people aged above 60 years*(3)
- Advancements in medical electronics have enabled remote and real-time patient data collection, where semiconductor ICs will play a major role in the healthcare industry

(1) "IoT and Automotive to Drive IC Market Growth Through 2020", IC Insights, accessed June 2017, (2) "Electric Vehicle Sales: Facts and Figures", Edison Electric Institute, April 2019, (3) "World Population Prospects: The 2017 Revision, Key Findings and Advance Tables", Department of Economic and Social Affairs, Population Division (2017), United Nations



Chapter Three: Investment Highlights

Investment Highlights



- The Group has over 550 headcounts with growth in revenue of more than 90% in FY2016 and FY2017, follow by the growth in revenue of 53.5% in FY2018, and 16.8% in FY2019
- High visibility of secured purchase orders given the nature of business proposition
- Growth in revenue is mainly underpinned by the broadening exposure of the Group in 3D sensing technology in VCSEL and its efforts in diversifying its expertise across other business segments and customers, as well as growth driven by the telecommunications and automotive sectors and the adoption of Industry 4.0 revolution in the consumer and industrial products segment. Aggressive expansion into the medical segment via acquisition of TP Concept Sdn Bhd
- Consecutively for 3 years in a row, the Group was honored to be listed on Forbes' "Asia's 200 Best Under A Billion company" for 2017, 2018 & 2019 + other awards and accreditation since 2017

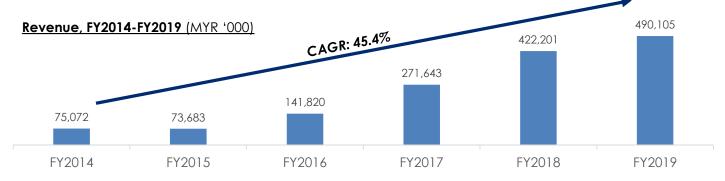
- Strong financial ratio and has been improving over the past few years
- Strong and stable management team with extensive technology expertise and industry experience



High Growth



The Group continuously achieved record-breaking revenue and PAT since 2015 to 2019, with CAGR >45% and >65%, respectively. The solid result generated in FY2019 arises from the Group's consistent focus on its business strategies with its key strengths in designing and developing holistic customised automation and test solutions backed by a dedicated team of management team and employees. For FY2019, the Group's revenue has increased by 16.8% as compared to the Group's revenue in FY2018.



Revenue, Q42018 to Q12020 (MYR '000)



Note (1): The decrease in revenue from Q42019 to Q12020 was mainly due to project "pushout"" where travelling restriction imposed globally from the COVID-19 situation that affected the Group's operations

Key Financial Ratios



Besides the tremendous growth in revenue, the quality of Pentamaster's financials are improving over the past few years.

	31 December			Quarter 1 (31 March)		
111	2016	2017	2018	2019	2019	2020
Gross Profit Margin	31.8%	28.4%	32.7%	36.8%	35.3%	34.1%
Net Profit Margin (Adjusted)	23.9%	17.2% ⁽¹⁾	24.4% ⁽¹⁾	27.0%	25.9%	26.2%
Return on Equity (ROE)	39.0%	36.6%	31.8%	29.9%	34.5%	22.5%
Return on Total Assets (ROA)	26.7%	16.0%	20.4%	23.7%	23.3%	17.8%
Current Ratio	2.1x	1.5x	2.4x	3.9x	2.6x	4.0x
Quick Ratio	1.6x	0.7x	1.6x	3.4x	1.9x	3.6x
Inventory Turnover Days	45.5	130.6	168.7	117.1	150.5	60.3
Debtors' Turnover Days	57.7	43.4	35.6	34.7	24.4	68.5
Creditors' Turnover Days	35.5	32.7	40.9	26.2	39.9	31.9
Gearing Ratio	12.3%	9.1%	2.6%	0%	2.3%	0%
Debt to Equity Ratio	N/A	3.1%	1.1%	0.8%	1.0%	0.7%
Interest Coverage Ratio	2,186.9x	3,765.9x	561.5x	749.3x	743.8	719.4

Notes:

⁽¹⁾ Net profit margin (adjusted) is calculated based on the profit for the year excluding non-recurring listing expenses, divided by revenue during the year.



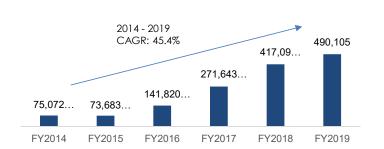
Chapter Four: Financial Information

Financial Information



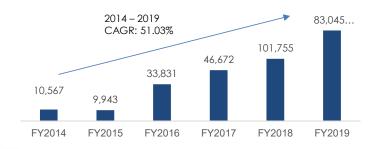


MYR'000

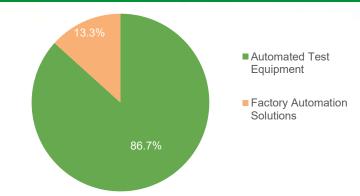


Profit for the year

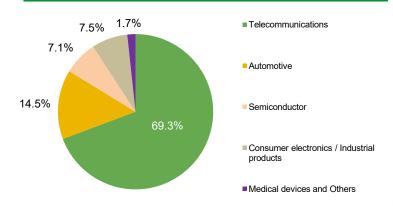
MYR'000 (HKD'000)*



Revenue by Segments (FY 2019)



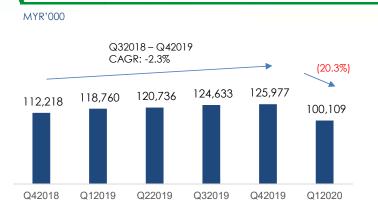
Revenue by Customers (FY 2019)



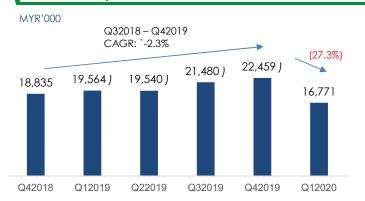
Financial Information (cont'd)



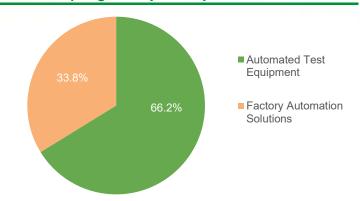
Revenue



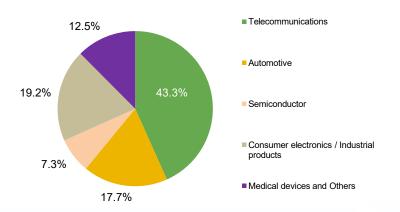
Profit for the year



Revenue by Segments (Q12020)



Revenue by Customers (Q12020)





Chapter Five: Recent Corporate Developments

Latest News



Deferment of AGM

For the 1st time throughout the Company's history, the Annual Shareholders Meeting was deferred to 3rd June 2020 without the usual fan-fare given the Covid-19 outbreak

New Employees Performance Share Scheme

On 3th April 2020, the Company announced the adoption of a new Employees Performance Share Scheme. This new 10-year scheme involved setting up an independent Trust to purchase Pentamaster International Limited (1665 HK) shares on the open market and to be vested to Selected Employees throughout the 10 year period based on Selected Employees meeting and fulfilling criteria and KPI

Involving up to 5% of the Company's paid up, this Scheme serves as part of the Group's employee retention program in retaining its existing Employees and to attract suitable personnel for further development of the Group.

Initiatives by Pentamaster to fight Covid-19

As part of the Company's ESG in fighting the current pandemic, Pentamaster is working on producing Low-Cost Ventilator to support local hospitals. The product is still in the prototyping stage and will be completed within four (4) weeks. The ventilator will be sent to local authorities for fast track certification. By building these low-cost ventilators, it will benefit Malaysia and other less developed countries that cannot afford expensive ventilators. The company anticipates of producing approximately 40 to 50 ventilators per month.

The ventilator was designed in-house with inputs from one of the Company's Board of Director, Dr Chuah Jin Chong. Going forward, this ventilator shall form a proprietary medical portfolio product of the Group.

Pentamaster Preventive Measures in Combating Covid-19



No Traveling / Visitation



NO Visitation (Vendors, Customers)



NO Servicing



24/7 Customer Care

14 Days Quarantine For Employees Returning From Abroad

NO Traveling (Business Trips, Holidays)

Sanitize Anywhere / Anytime

















Pentamaster Preventive Measures in Combating Covid-19 (cont'd)



Body Temperature Check before Entering







Employees feeling unwell will be requested to seek treatment/return home.





All Vendors are required to wear face masks upon entering.

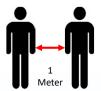
Social Distancina















Investor Relations:

Gan Pei Joo, Executive Director and CFO: pjgan@pentamaster.com.my Leng Kean Yong, Non-executive Director: yang@pentamaster.com.my



PENTAMASTER
Innovate • Automate • Integrate

www.pentamaster?com.my