

#### 2018 Annual Results Announcement

22 February 2019









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## ASMPT Recognized as TOP 100 Global Tech Leaders

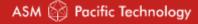
**ONLY** Back-end Equipment Supplier Being Recognized

#### 2018 THOMSON REUTERS

## TOP100 GLOBAL TECH LEADER

"The Top 100 Global Technology Leaders are the organizations poised to propel the future of technology", Brian Scanlon, Chief Strategy Officer

Thomson Reuters, 2018



## Corporate Overview

2018 Group Revenue (CAGR 2008-2018 14%)

**USD 2.49B** 

41.1%

Solutions

47.4% Back-end Equipment

11.5% Materials

## A World's Technology & Market Leader

- A leading Integrated Solutions Provider in the semiconductor assembly and packaging industry as well as in the SMT solutions market
- A leading player for CIS, LED, and Automotive
- Top 3 application markets accounted for 47% of group revenue in 2018



## **ASMPT Global Presence**



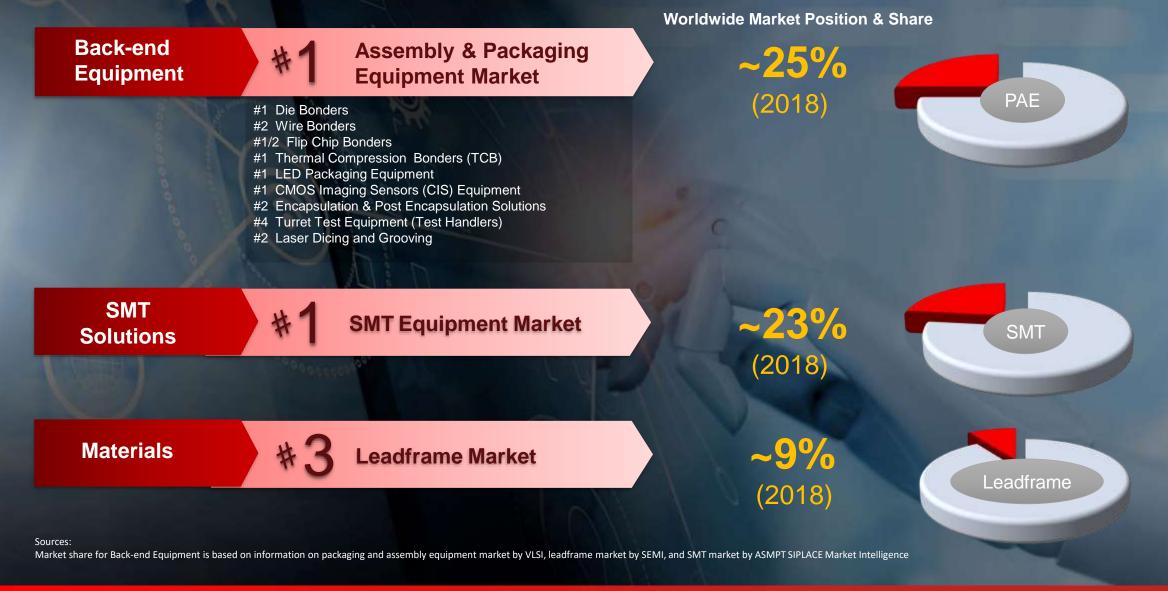
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## **ASMPT Major Facilities around the World**





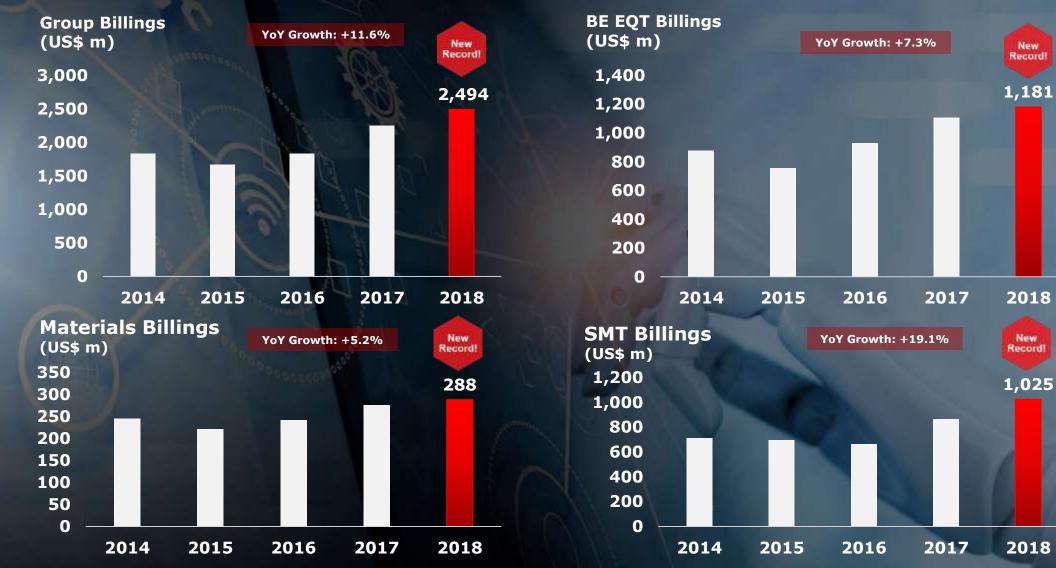
#### **Three Business Segments With Leading Market Positions**





## 2018 Financial Highlights

## **Yearly Billings**

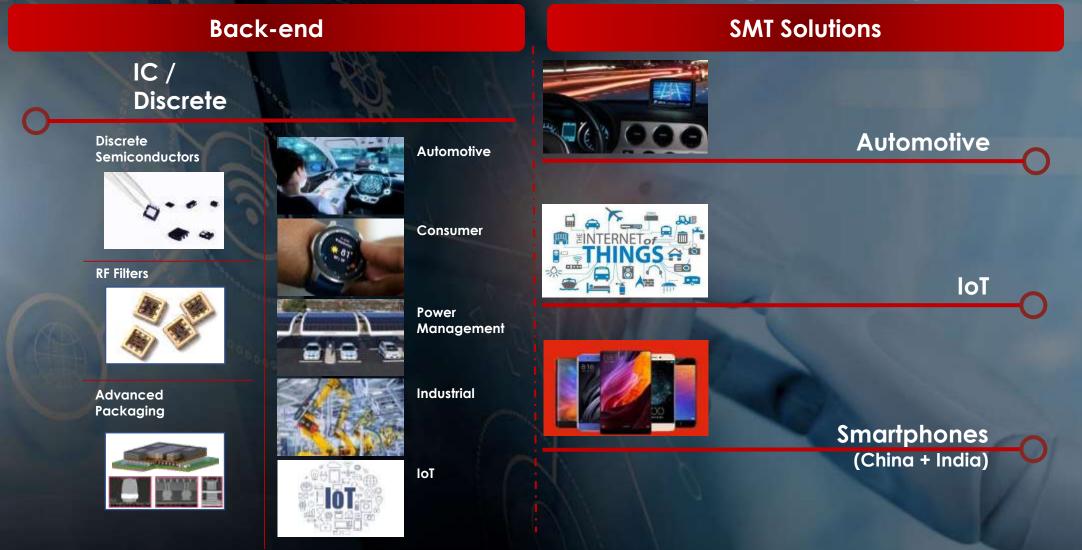


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## **Group Bookings**

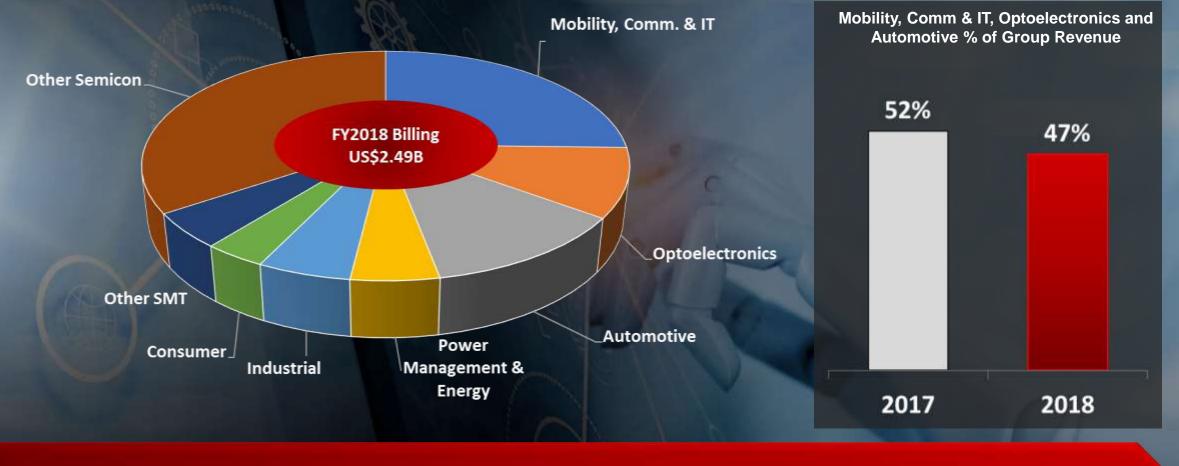
#### Yearly Group Bookings (US\$ m) **Q4 Group Bookings: 7** 4.5% YoY YoY Growth: +10.0% **Q4 Backend: A** 4.0% YoY Increased contribution from Advanced Packaging 3,500 New Record! Q4 SMT Solutions: 7 2.5% YoY 3,000 2,575 Q4 Group Backlog: A 21.6% YoY 2,500 2,000 **Quarterly Group Bookings** YoY Growth: -4.5% (US\$ m) 1,500 800 600 1,000 400 500 200 0 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 15 15 15 15 16 16 16 16 17 17 17 17 18 18 18 18 Q3 Q2 Q4 Q1 2014 2015 2016 2017 2018 14 14 14 14

## Major Drivers for 2018 Bookings/Billings





## **ASMPT Revenue Breakdown by Application Markets**



Automotive and Industrial advanced to #2 and #4 respectively

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## Sustainable and Gradually Increasing Dividends

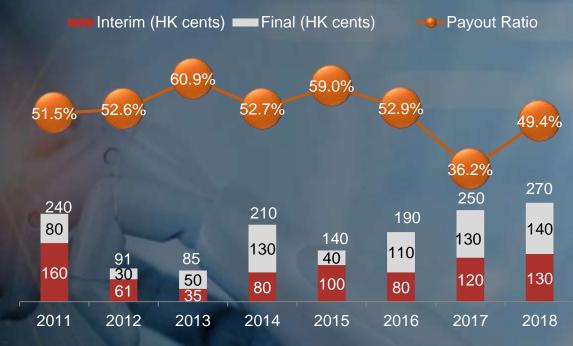


Cumulative cash returned: HKD4.8bn

#### **Share Buyback Program**

Amount exercised HKD654.1m, 1.49% of shares outstanding at 31 December 2018





|              | 1H 2018 | 2H 2018 | Full Year 2018 |
|--------------|---------|---------|----------------|
| DPS          | 1.30    | 1.40    | 2.70           |
| EPS          | 3.46    | 2.01    | 5.47           |
| Payout ratio | 37.5%   | 69.9%   | 49.4%          |

We Are Ready to Ride the Next Wave of Growth

## Future Is About Data and Only Just Beginning

No single leading driver, but a fragmented growing market!



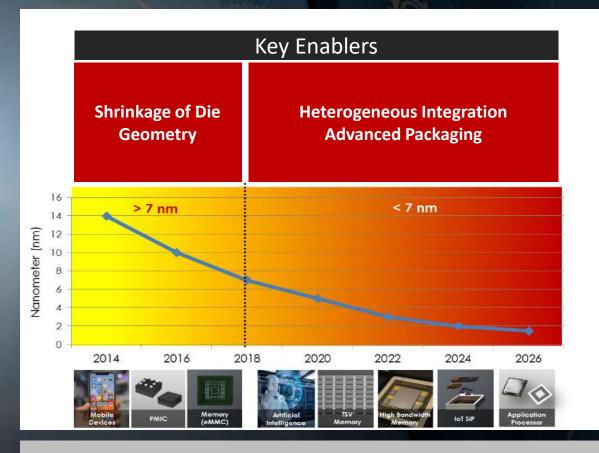


### **Market Expansion Led by Data Explosion**



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### More than Moore: Heterogeneous Integration & Advanced Packaging Shifting the Value Chain

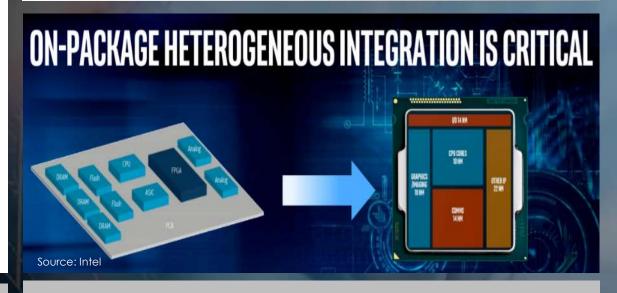


"High Bandwidth & Low Power Data Pipes <u>ONLY</u> Available On Heterogeneous Integration on Advanced Packages"

Source: Intel

#### Advantages of Heterogeneous Integration

- Integrating multi-mode technologies to enable "More than Moore"
- Faster time to market
- Less IP issues
- Flexibility
- Cost savings

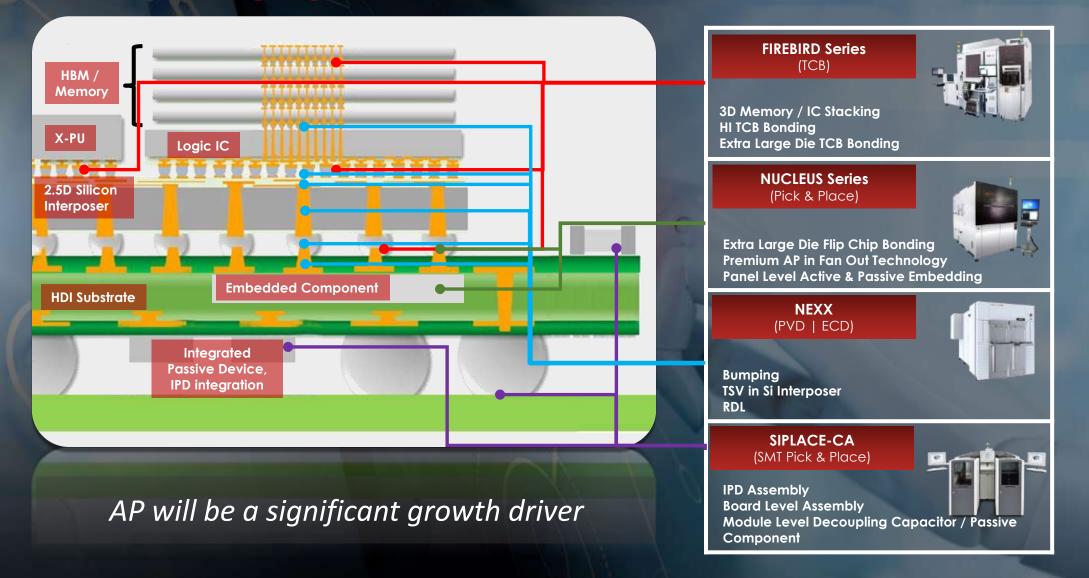


Artificial Intelligence requires

**High Performance Computing** 

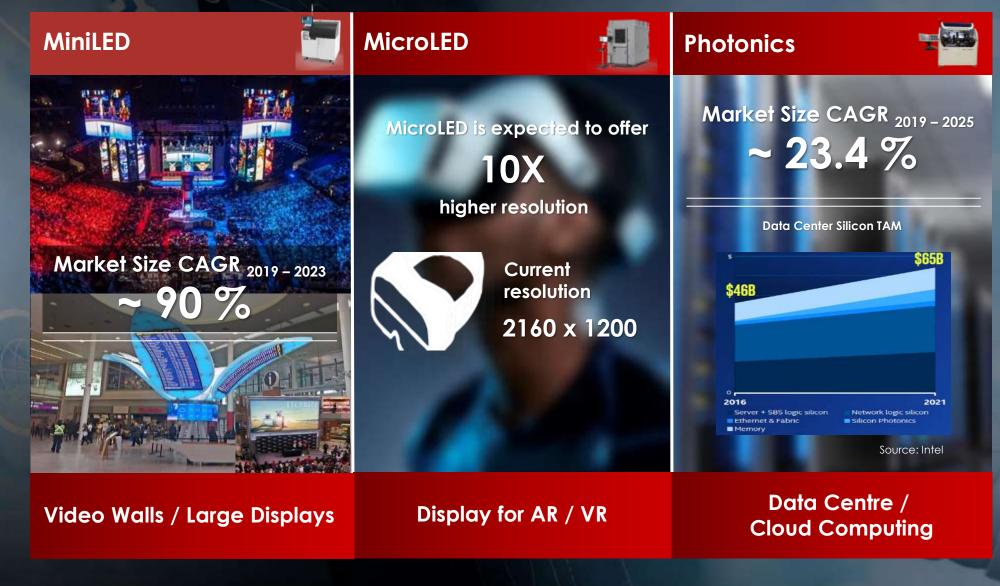


## Advanced Packaging Contributed >10% Back-end Revenue in 2018



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### **Applications Fueling OPTO Business Growth**



Source: Gamingscan, Electronics Weekly, LEDinside, ReportsnReports, Yole Development (Oct 2018)

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### **Data Explosion to spur CIS business**

#### Today...

Most Data are generated by Cameras



Youtube Data-Rich Video



Samsung Galaxy Fold: 6 Cameras



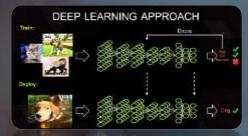
Content Creation by Social Media "Influencers" – New Marketing Strategy

Source: Youtube, Samsung, Instagram, IT World Canada, Nvidia, Precision Security Australia, Cramer.com

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Autonomous Vehicles: LiDAR, 3D



Artificial Intelligence Deep Learning – Layered Images



Cameras in VR/AR



Industrial Inspection



Tomorrow...

Security: Features Recognition

*Even more Data generated from multi applications* 



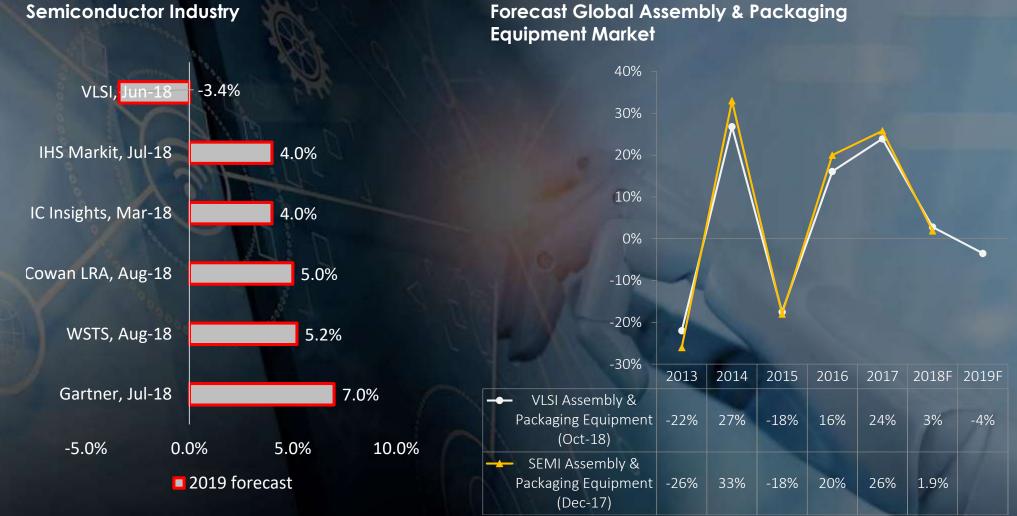
#### Automotive will surpass Smartphones in Semiconductor contents



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## Outlook

## Industry Growth Forecast (2018-2019)



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### Outlook

#### Q1 Group Billing: US\$460 million – US\$510 million

- Back-end Equipment: Expected to be flat or small decline QoQ
- SMT solutions segment: Expect QoQ ▼ , YoY ▲

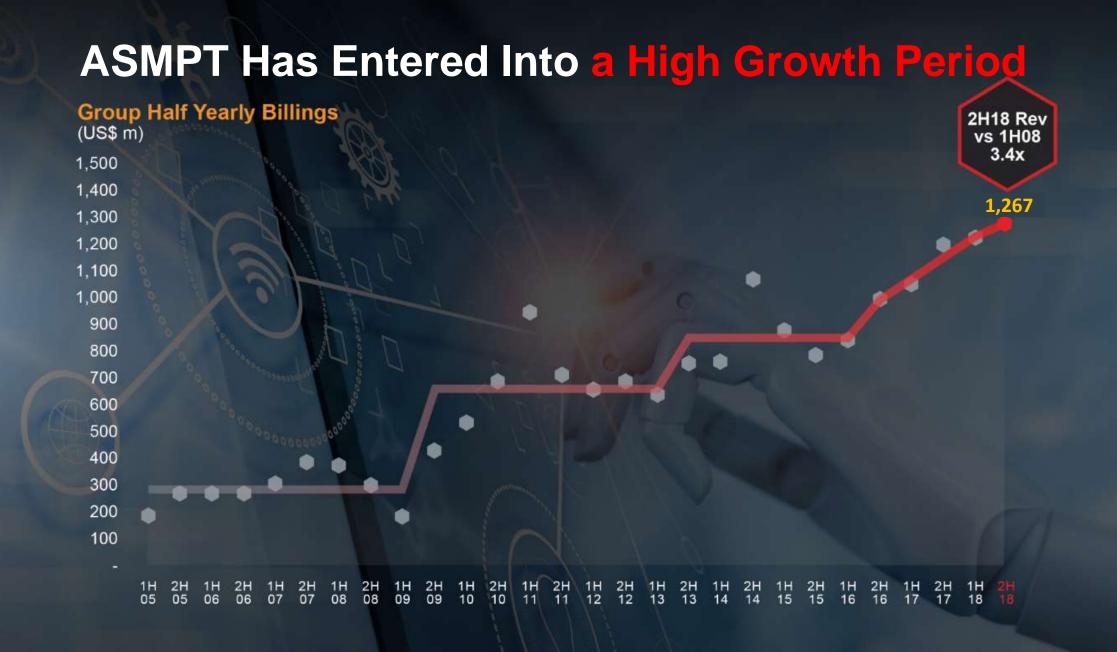
Q1 Group Booking: Likely flat or rebound slightly QoQ

Q1 Group Gross Margin: Expected to be mid 30%

#### 2019 Group Billing:

- Expect 2019 to be challenging
  - Expect Revenue VoY
  - Advanced Packaging revenue expected A

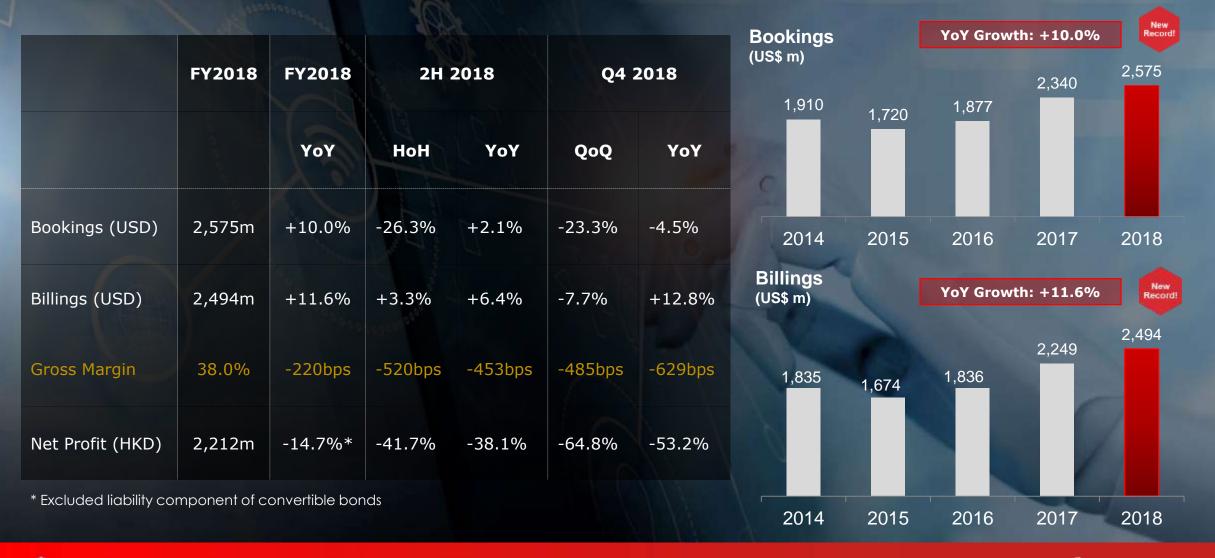




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## 2018 Financial Results

## **2018 Group Financial Highlights**



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## 2018 Segment Results - Back-End Equipment Business

|                          | FY2018 | FY2018  | 2H 2     | 018     | Q4 2018  |          |
|--------------------------|--------|---------|----------|---------|----------|----------|
|                          |        | YoY     | НоН      | YoY     | QoQ      | ΥοΥ      |
| Bookings (USD)           | 1,257m | +11.9%  | -34.8%   | +5.0%   | -11.9%   | +4.0%    |
| Billings (USD)           | 1,181m | +7.3%   | -16.9%   | -0.2%   | -23.0%   | -6.6%    |
| Gross Margin             | 45.9%  | -208bps | -463bps  | -522bps | -47bps   | -583bps  |
| Segment Profit<br>(HKD)  | 2,011m | -7.3%   | -52.6%   | -36.5%  | -65.8%   | -61.0%   |
| Segment Profit<br>Margin | 21.7%  | -342bps | -1159bps | -880bps | -1127bps | -1257bps |

- Advanced Packaging (AP) contributed >10% of Back-end equipment revenue
- AP revenue boosted by newly acquired NEXX business
- Gross Margin **▼**: Product mix and lower run rate in Q4
- Segment profit **v**: Partly due to Acquisitions



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## **2018 Segment Results - Materials Business**

|                          | FY2018 | FY2018  | 2H 2    | 2018    | Q4 2    | 2018    | <ul> <li>New billing r</li> </ul> | ecord set in 2018            |                   |
|--------------------------|--------|---------|---------|---------|---------|---------|-----------------------------------|------------------------------|-------------------|
|                          |        | YoY     | НоН     | YoY     | QoQ     | YoY     | <ul> <li>Booking redu</li> </ul>  | uction suggests a challengir | ng market in 2019 |
| Bookings (USD)           | 245m   | -17.7%  | -37.8%  | -30.0%  | -26.0%  | -39.5%  | 9                                 |                              | 10.000            |
| Billings (USD)           | 288m   | +5.2%   | -9.3%   | -1.5%   | -22.3%  | -7.8%   | (US\$ m)<br>350                   | Billing                      | New<br>Record!    |
| Gross Margin             | 11.5%  | -211bps | -368bps | -402bps | -330bps | -461bps | 300<br>250                        |                              | 288               |
| Segment Profit<br>(HKD)  | 114m   | -11.4%  | -64.8%  | -44.9%  | -87.3%  | -55.9%  | 200<br>150<br>100                 |                              | 7                 |
| Segment Profit<br>Margin | 5.0%   | -95bps  | -435bps | -218bps | -365bps | -78bps  | 50<br>0<br>2014                   | 2015 2016 20                 | 017 2018          |

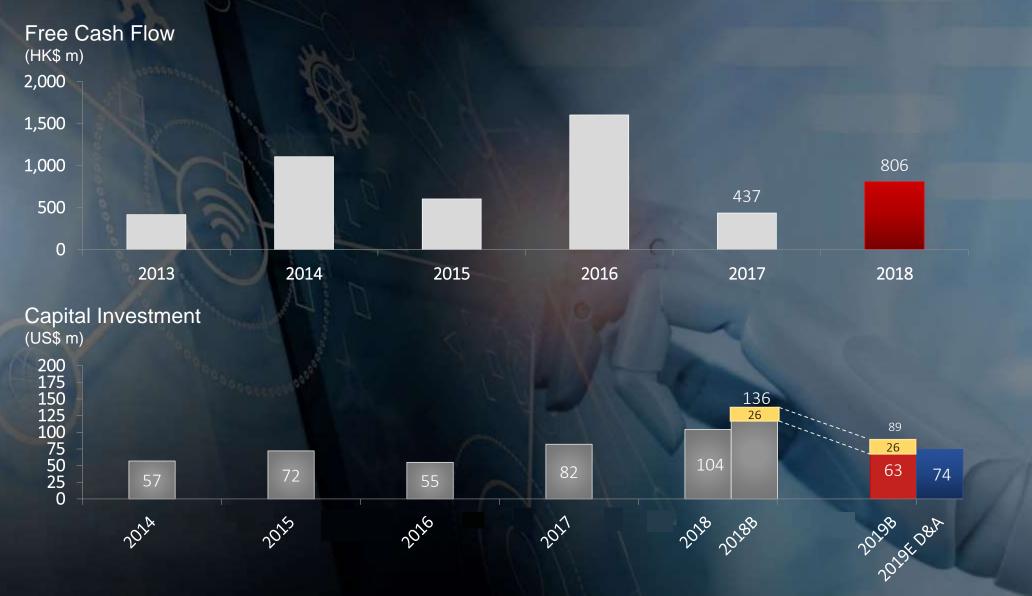
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## **2018 Segment Results - SMT Solutions Business**

|                          | FY2018 | FY2018  | 2H 2    | 2018    | Q4 2    | 2018    | <ul> <li>Achieved US\$1B revenue in 2018</li> </ul>  |
|--------------------------|--------|---------|---------|---------|---------|---------|--|
|                          |        | YoY     | НоН     | YoY     | QoQ     | YoY     | <ul> <li>Tremendous demand for Automotive Electronics and<br/>Industrial IoT</li> <li>HKD 93.9m charges related to discontinuing Solar Business</li> </ul> |
| Bookings (USD)           | 1,073m | +16.7%  | -11.8%  | +8.4%   | -32.9%  | -2.5%   | (US\$ m) Billing   |
| Billings (USD)           | 1,025m | +19.1%  | +37.9%  | +15.3%  | +12.9%  | +40.3%  | 1,200<br>1,025<br>1,000  |
| Gross Margin             | 36.5%  | -238bps | -503bps | -386bps | -873bps | -603bps | 800  |
| Segment Profit<br>(HKD)  | 1,275m | +17.6%  | +36.0%  | +7.2%   | -31.5%  | +65.7%  | 400  |
| Segment Profit<br>Margin | 15.9%  | -20bps  | -23bps  | -119bps | -782bps | +186bps | 0<br>2014 2015 2016 2017 2018  |

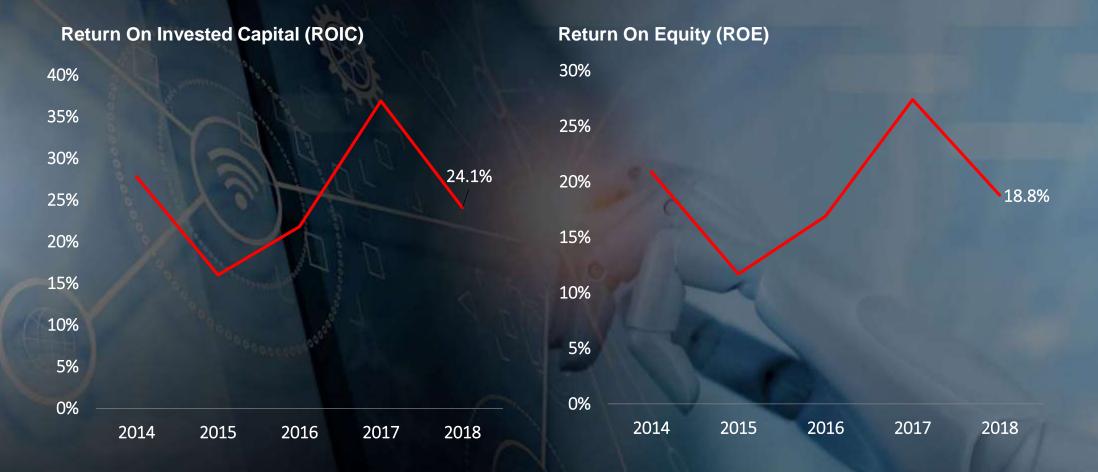
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## Free Cash Flow and Capital Investment



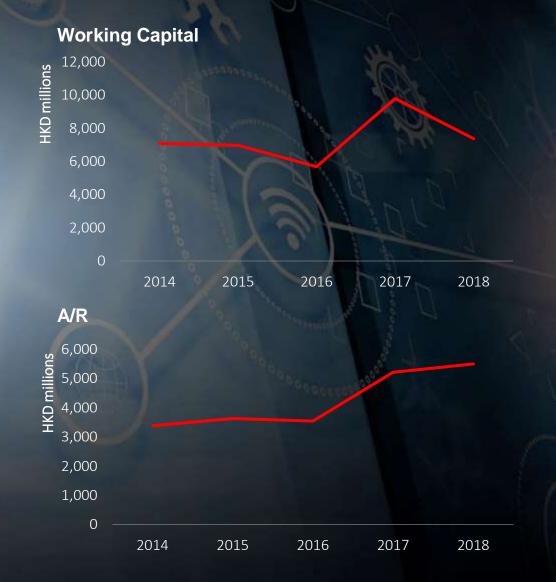


### **Financial Metrics**



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## **Working Capital Management**



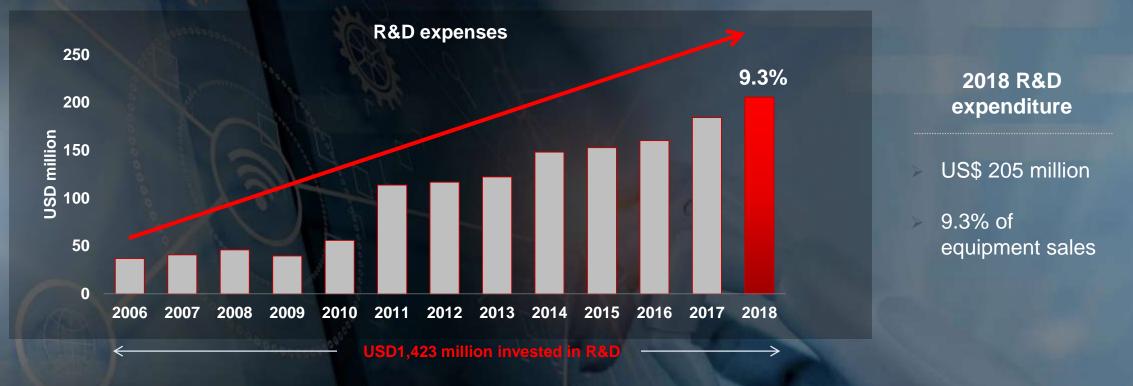
#### Cash Conversion Cycle (Days)

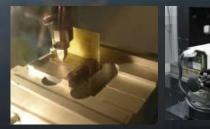




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## **R&D Commitment Makes Us a Preferred Partner of Choice**









Package Interconnection

Optics precision engineering

Vibration control

Laser dicing & grooving

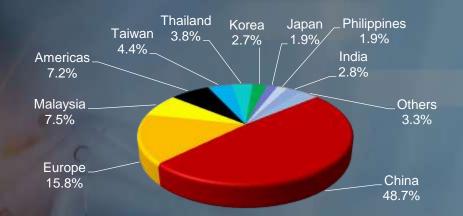


ASM 🚱 Pacific Technology

## **An Extensive Customer Base**

#### 2018 Geographical Distribution of Revenue

- No single customer accounted for more than 10% of Group revenue
- Top 5 customers accounted for 18% of Group's 2018 revenue
- > Top 20 customers include:
  - World's leading IDMs
  - > Tier 1 OSATs, major OSATs in China
  - Key LED players
  - > Major camera module makers
  - Top EMS providers
  - > Leading automotive component suppliers
- > Among Top 20 customers of Group:
  - > 4 from SMT Solutions segment
  - 5 from both Back-End Equipment & SMT Solutions segment



#### **2018** Revenue Contribution from Top 5 Customers





# Awards & Recognition

### **Recent Awards & Recognition**

Technology Achievement Grand Award of HKIA 2017 (for the third time)

- Directors of the Year Awards 2017 (Collective Board)
   Directors of the Year Awards 2018 (Individual Director)
   Hong Kong Institute of Directors
- Hong Kong Outstanding Enterprises 2017-18 HK Economic Digest

> 2017 All Stars of the Semiconductor Industry
 VLSI Research

VLSIresearch's 2017 All Stars

Federation of HK Industries





Singapore Quality Class Enterprise Singapore

Y-CHIN-Gala Dinne





## **Recent Awards & Recognition**

Factory of the Year 2016 Award (for SMT) by Produktion/AT Kearney

Ranked among Top 10 of Best Managed HK Companies Ranked among Top 10 of Best at Investor Relations

2017 & 2018 "Triple Crown" with RANKED 1<sup>st</sup>/10 BEST/BEST Suppliers Awards from VLSIresearch

2016-17 Corporate Governance Asia – Best Investor Relations Company (HK) 2017 Corporate Governance Asia – Best CEO (Investor Relations)

2015 Hong Kong Awards for Industries: Technology Achievement Grand Award











## VLSI Awards 2018



| 10 BEST<br>Segment | Rank | 10 BEST CHIP MAKING<br>EQUIPMENT SUPPLIERS OF 2010 | Rating | Stors |
|--------------------|------|--|--------|-------|
| L<br>A<br>G<br>E   | t.   | TERADYNE   | 9.25   | ***** |
|                    | 2    | <b>IDVANTEST</b>                                   | 0.10   | ***** |
|                    | 3    | ASML   | 9.05   | ***** |
|                    | 4    | Hitachi Kokusai Electric                           | 8.90   | ***** |
|                    | 5    | TEL.   | 8.45   | ****  |
|                    | 6    | AREA R   | 7.55   | ****  |
|                    | .7   | ASM 💮 Pocific Technology                           | 7.45   | ***   |
|                    |      | Hitachi High-Tech                                  | 7.45   | ***   |
|                    | 1    | B Plasma   | 9.01   | ***** |
| E.                 | 2    | DAMEC  | 8.95   | ***** |
| o<br>c             | 2    | SFORMFACTOR-                                       | 8.94   | ***** |
| U<br>S<br>E<br>D   | 4    | SPTS   | 0.90   | ***** |
|                    | 5    | Xcerra   | 8.76   | ***** |
|                    | 6    | EV G   | 8.42   | ****  |
|                    | T    | ACRETECH TOKYO SEIMITSU                            | 7.22   | ***   |

| (                          |   |             | WHAT<br>SUPPLIE<br>RE BEST | RS OF 2018<br>AT                                 |
|----------------------------|---|-------------|----------------------------|--|
|                            | Uptime     Usable Performance   |             | ANTES                      | Trust in Supplier     Recommend Supplier         |
| AMEC                       | Recommend Supplier     Trust in Supplier  | ¶.          |                            | Field Engineering     Support     Uptime         |
| ASM 💮 Pacific Technology   | <ul> <li>Field Engineering<br/>Support</li> <li>Support After Sales</li> </ul>        | AS          | <b>SML</b>                 | Recommend Supplier     Technical Leadership      |
|                            | <ul> <li>Technical Leadership</li> <li>Trust in Supplier</li> </ul>                   | <b>SFOF</b> | MFACTO                     | Technical Leadership     Recommend Supplier      |
| Hitachi High-Tech          | Trust in Supplier     Uptime  | Hitachi K   | okusai Elect               | Field Engineering<br>Support     Process Support |
| JAPAN ELECTRONIC MATERIALS | Partnering     Recommend Supplier   | S           | TCL                        | Partnering     Commitment                        |
| Plasma<br>•Therm           | <ul> <li>Trust in Supplier</li> <li>Spares Support</li> </ul>                         | SP          | TS                         | Recommend Supplier     Uptime                    |
|                            | <ul> <li>Support After Sales</li> <li>Trust in Supplier and<br/>Partnering</li> </ul> | TER         | ADYNE                      | Trust in Supplier     Recommend Supplier         |
|                            | <ul> <li>Trust in Supplier</li> <li>Uptime</li> </ul>                                 | X           | cerra                      | Trust in Supplier     Recommend Supplier         |
|                            | _   |             | Source:                    | VLSReeeurch Doc: ces_THEBEST_v18.0               |
| ASSEMBLY E                 | QUIPMENT  | R           | lating                     | VLSI STARS                                       |
| 1 ASM Pacific              | Technology  | 198         | 7.47                       | ***  |



## ASM Pacific Technology

