

688072

2023

1

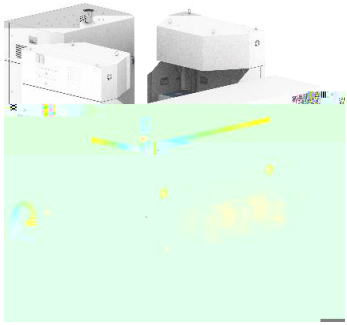
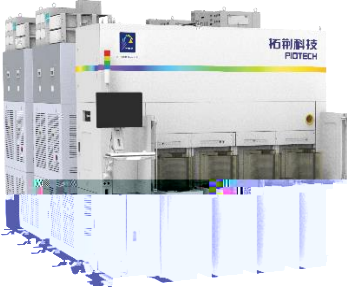
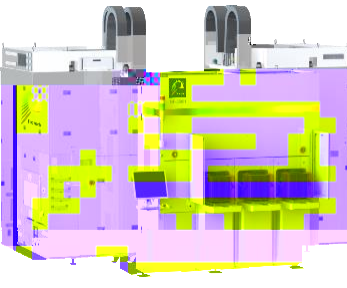
[www.sse.com.cn](http://www.sse.com.cn)

2





PECVD ALD SACVD HDPCVD

2

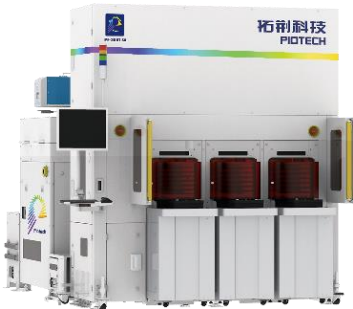
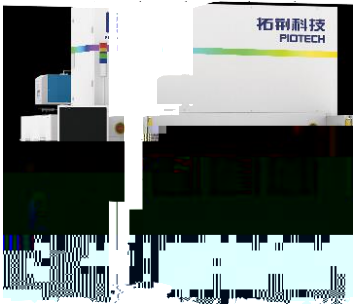
|  |   |  |
|--|---|--|
| <p>PF-300T pX<br/>PF-300T Plus pX</p>      |    |  |
| <p>PF-300T Supra-D<br/>PF-300M Supra-D</p> |    |  |
| <p>NF-300H</p>                             |  | <p>TEOS</p> <p>Thick</p>                                 |
| <p>PF-150T<br/>PF-200T</p>                 |   | <p>Si C</p> <p>Si ON</p> <p>SiO<sub>2</sub> SiN TEOS</p> |

UV Cure



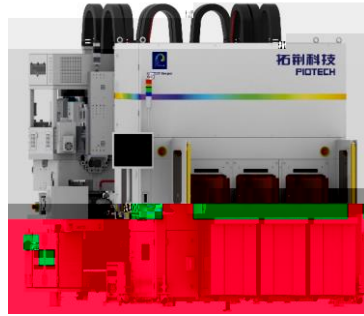
|                           |   |                                    |
|---------------------------|---|------------------------------------|
| <p>PF-300T<br/>Altair</p> |  |                                    |
| <p>TS-300<br/>Altair</p>  |  | <p>Al<sub>2</sub>O<sub>3</sub></p> |

3 SACVD

|                        |   |                             |
|------------------------|---|-----------------------------|
|                        |   |                             |
| <p>PF-300T<br/>SA</p>  |  | <p>SA TEOS</p>              |
| <p>PF-300T<br/>SAF</p> |  | <p>8      12      SACVD</p> |

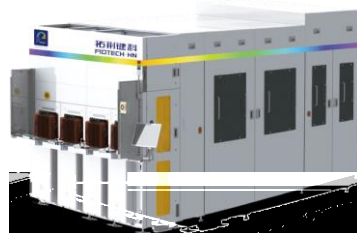
4 HDPCVD

PF-300T  
Hesper



5

Di one 300



12

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4

Demo

Demo

5

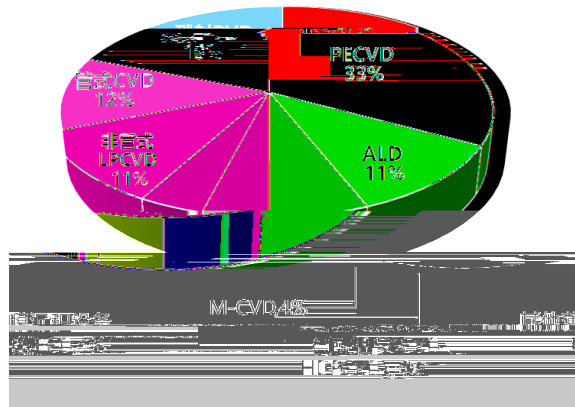
Demo

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|       |       |        |      |      |      |     |       |        |
|-------|-------|--------|------|------|------|-----|-------|--------|
|       |       |        |      | 2022 |      |     |       |        |
|       |       |        |      | SEMI | 2023 |     |       |        |
| 1,063 |       |        | 1.3% | 2023 |      |     |       |        |
|       |       |        | 2024 |      |      |     |       | 2025   |
|       | 1,240 |        |      |      |      |     |       |        |
| 2023  |       |        |      | 29%  | 366  |     |       |        |
|       |       |        |      |      |      |     |       |        |
|       |       |        |      | SEMI | 2023 |     |       |        |
|       | 90%   | 960    |      |      |      |     |       |        |
|       |       |        |      | 22%  | 2023 |     |       |        |
| 211   |       |        |      |      |      |     |       | 29%    |
|       | 2023  |        |      |      | 61   |     |       |        |
|       |       |        |      |      |      |     |       |        |
|       |       |        | CVD  | PVD  |      | CVD |       | PECVD  |
| ALD   | SACVD | HDPCVD |      |      |      |     |       |        |
|       |       |        |      |      | SEMI |     | PECVD |        |
|       |       |        |      | 33%  | ALD  |     | 11%   | SACVD  |
|       |       |        |      | 6%   |      |     |       | HDPCVD |



SEMI

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Chiplet

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18-24

2.

|          |      |     |     |      |  |     |
|----------|------|-----|-----|------|--|-----|
| Gartner  |      | CVD |     | AMAT |  | Lam |
| TEL      |      | 70% |     |      |  |     |
| EV Group | SUSS |     | TEL |      |  |     |

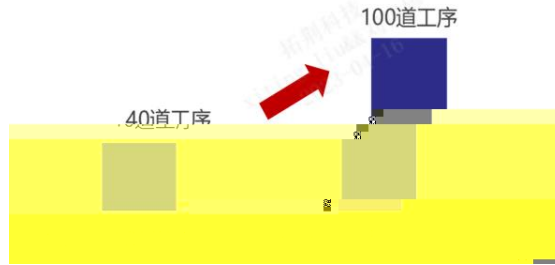
PECVD ALD SACVD HDPCVD

PECVD ALD SACVD HDPCVD

3.

|       |       |       |      |      |     |       |      |
|-------|-------|-------|------|------|-----|-------|------|
| SEMI  |       | 300mm |      | 2025 | 20% | 1,165 | 2026 |
| 12%   | 1,305 |       |      |      |     | 4     |      |
| 300   |       |       |      |      |     |       | WPM  |
| 2023  | 5.5%  | 2,960 | 2024 | 6.4% |     | 3,000 |      |
| 200mm |       |       | 2024 |      | 18  | 2023  |      |
| 12%   | 760   |       | 2024 |      | 13% | 860   |      |

|           |  |    |    |         |
|-----------|--|----|----|---------|
| 90nm CMOS |  | 40 |    | Fi nFET |
| 100       |  | 6  | 20 |         |



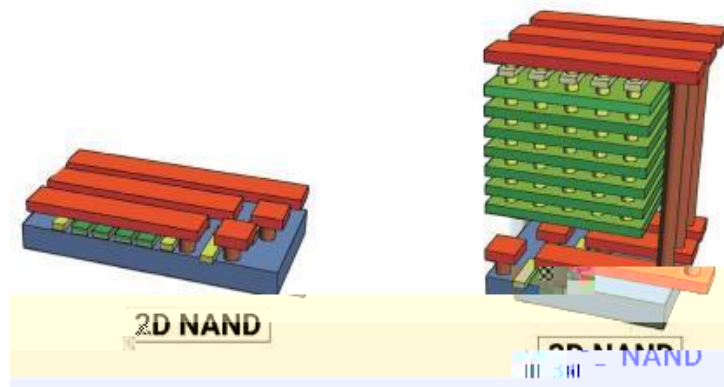
FLASH

2D NAND

3D NAND

3D NAND FLASH

2D NAND 3D NAND

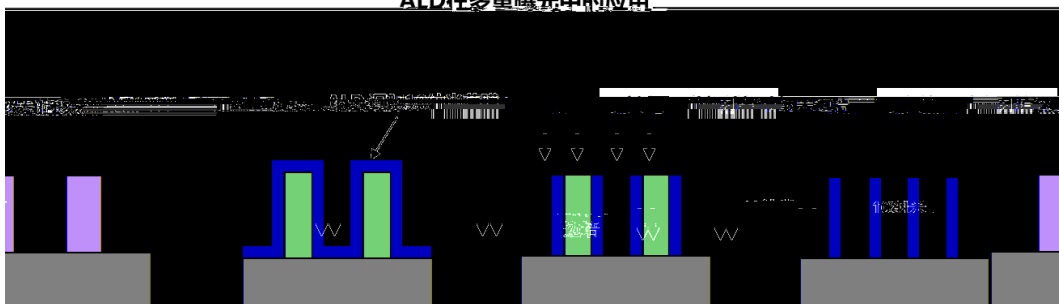


SEMI

ALD

ALD

ALD在多重曝光中的应用



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Micro Bump -

Hybrid Bonding

Al

3

3.1 3



|  |            |            |       |            |  |  |   |  |
|--|------------|------------|-------|------------|--|--|---|--|
|  | 12,058,443 | 37,180,198 | 19.76 | 37,180,198 |  |  | 0 |  |
|--|------------|------------|-------|------------|--|--|---|--|

8,302,703 25,600,000 13.60 25,600,000

2,303,775 2,303,775

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