

Spray Solvent Tool (SST)機台、Spray Acid Tool (SAT) 機台




SST



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1.適用製程：6"蝕刻(含以下)(顯影)、清洗、旋乾製程。

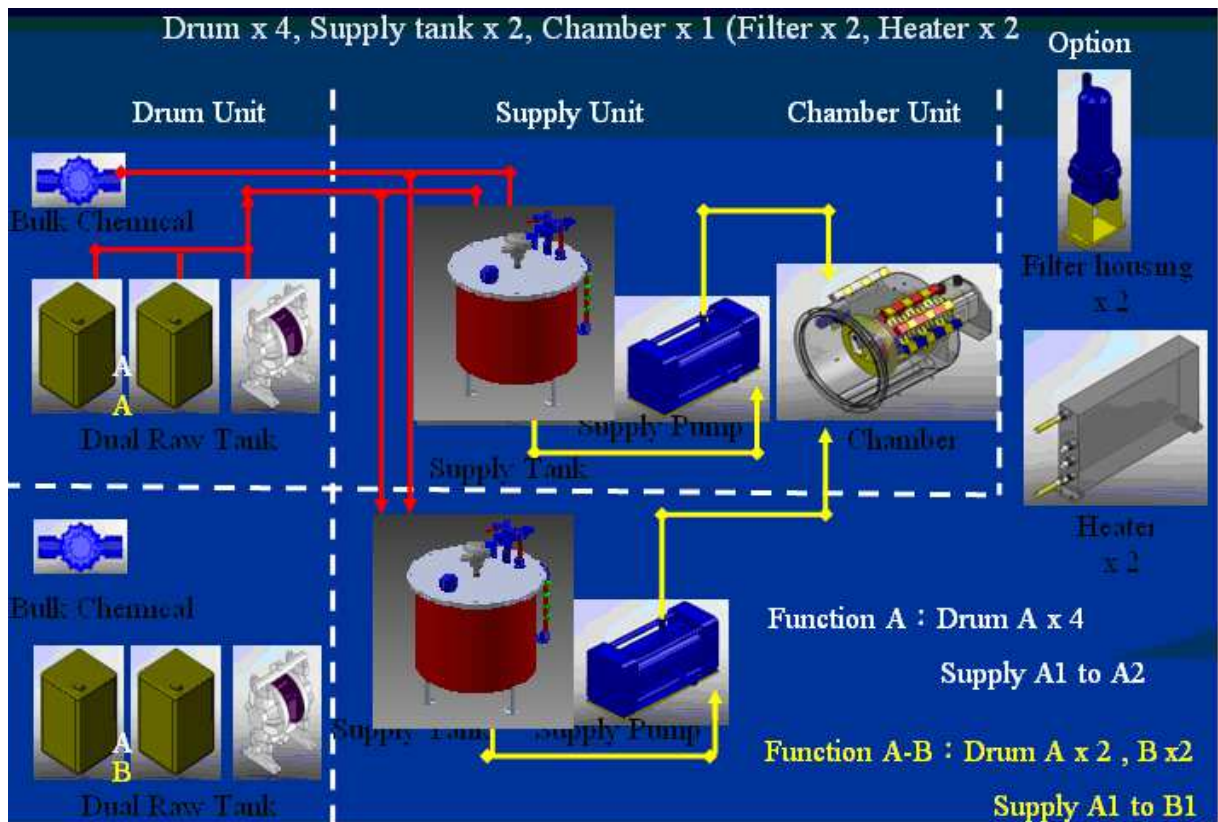
 製程目的：

- 1、**Dry-In, Dry-Out** 之連續式製程設備。(整合晶圓蝕刻、清洗、乾燥等製程於單一機台內完成等連續式生產)
- 2、**取代**傳統利用 **Wet bench 與 SRD** 進行晶圓蝕刻、清洗與乾燥等生產製程。
- 3、降低機台約 **1~2 倍**佔地空間。
- 4、提升機台產能效率(**50~150%**)。
- 5、提供具價格競爭之 SAT、SST 設備。
- 6、DIW 使用減量。
- 7、人員稼動率提升。
- 8、蝕刻均勻性、CD Loss 在 **5%**以內。
- 9、提供模組化設計，可以模組擴增提升產能
- 10、機台軟硬體安全防護設計。

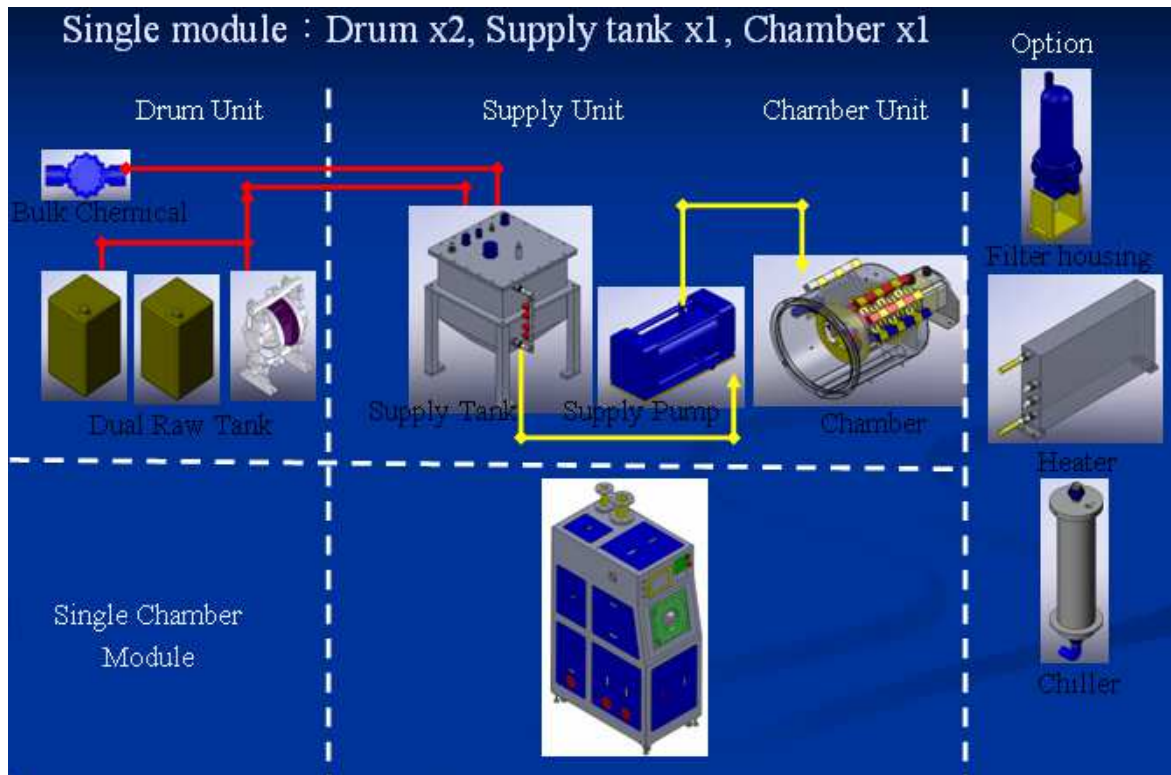
2.設備組成：Single ChamberUnit

Item	Equipment unit	Unit	SST AZ300	SAT BOE
1	Drum unit	SET	4	2
	20L Raw chemical drum (Solvent-1 x 2, Solvent-2 x 2)	EA	2 + 2	2
	Drum chemical pump (Solvent-1 x 1, Solvent-2 x 1)	EA	1 + 1	1
2	Bulk chemical port (Solvent)	SET	1	1
3	Supply unit	SET	2	1
	Supply tank	EA	2	1
	3000 Kw chemical heater (Temp Maxi.100 度)	EA	2	1
	Chemical Filter housing (10 吋, 222 O-ring)	EA	2	1
	Supply pump	EA	2	1
	Flow meter	EA	2	1
4	Chamber unit	SET	1	1
5	PC Base / HMI control system	SET	1	1
6	SEC II system	SET	1	1
7	消防系統	SET	1	0

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Spray Solvent Tool (SST)機台、 Spray Acid Tool (SAT) 機台**3.系統主要規格：**(詳如附件一、Design Matrix)

Basic Function: Chemical spray, DIW rinse, Pipe purge, Hot N2 spins dry,

1. Max. Speed of spin: Up to 30,00 rpm. (stable state :Max 2400 ~20, $\alpha = 480$)

2. HN2 Flow heater.

3. Chemical Manager --- Chemical Type/ Circulation / Temperature / Quality Control

4. With Safety Function, --- Leakage / Pressure / Inter-Lock / EMO function.

5. Recipe Capacity: Up to 15 recipes, ≥ 150 -step for each Recipe.

6. with Auto-Clean Function.

7. The vibration is less than 300 um while rotor spinning.

8. Spin speed tolerance: Less than 5%.

9. with SUS-316L-EP, Teflon Coating Rotor

10. with SUS-316L-EP, Teflon Coating Bowl

11. With 全氟 door seal & real seal.

12. Use Air seal for motor and Bowl.

13. With Brushless Sever Motor.

14. with non-contact N2 heater.

15. with 0.003um filter.

16. All PTFE Chemical, DI and N2 Valve.

17. All PFA Tube for Chemical, DI and N2.

18. with 23" LCD Monitor.

19. SEC II /CIM Function

4.設備材質：PFA, SUS, PP,防火 PVC 等。

預估空間：1000 W x 1500 D x 2000 H (未含三色指示燈高度)