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晶圓廠 振盪槽操作規範

Wafer Factory Oscillating Tank Operating Specifications

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貳、適用時機及範圍

II. Applicable timing and scope

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振盪槽操作規範

Oscillating Tank Operating Specifications

壹、 目的：

I. Purpose：

清洗 PM 後所換下來的 PARTS。

The PARTS that are replaced after cleaning the PM

貳、 適用時機及範圍：

II. Applicable timing and scope：

一、將 PM 所拆下的 PARTS，依其機台製程不同，分別放置其振盪槽。

I. PARTS removed from the PM, depending on the process of the machine, oscillation tanks are placed separately

二、振盪槽共有左右兩槽，其分別如下：

II. There are two left and right grooves in the oscillation groove, the difference is as follows：

左槽：NITRIDE 機台之各類 PARTS。

Left Tank：various PARTS of NITRIDE machine

右槽：TEOS、BPSG 兩機台之各類 PARTS。

Right Tank：various PARTS of TEOS and BPSG two machines.

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參、 安全事項：

III. Safety Precautions

- 一、 使用 DI-WATER 沖洗 PARTS 時，需配戴護目鏡以避免水漬噴濺，導致眼睛部位受傷。
- I. When rinsing PARTS with DI-WATER, goggles must be worn to avoid splashing water, cause injury to the eye area.
- 二、 使用 AIR GUN 清潔 PARTS 時，需配戴護目鏡及耳罩，避免異物噴濺及噪音，導致眼睛及聽力受損。
- II. When using AIR GUN to clean PARTS, you need to wear goggles and earmuffs to avoid foreign matter splashes and noise, which may cause eye and hearing damage.

肆、 內容：

IV. Content :

一、使用材料

I. Use Materials

DI WATER、N2 PURGE。

二、使用設備

II. Use Equipment

振盪槽、加熱器。

Oscillation tank, heater.

三、設備介面說明

III. Description of the device interface

1. 機台外觀

Appearance of the machine

NO. :

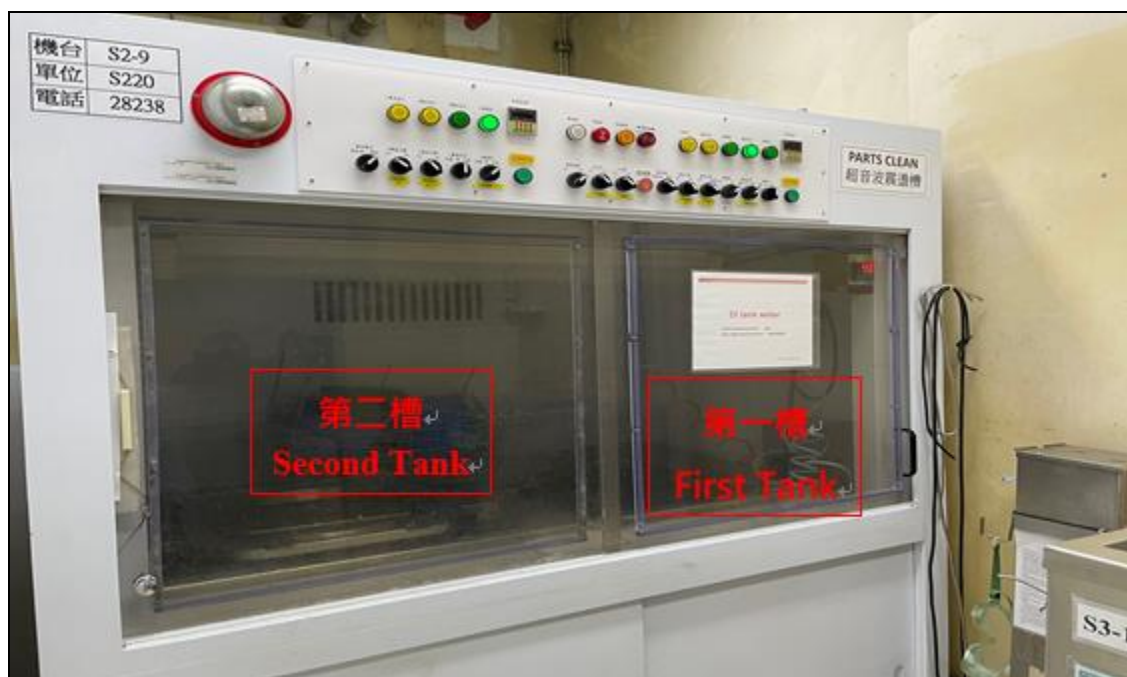
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2. 面板功能說明

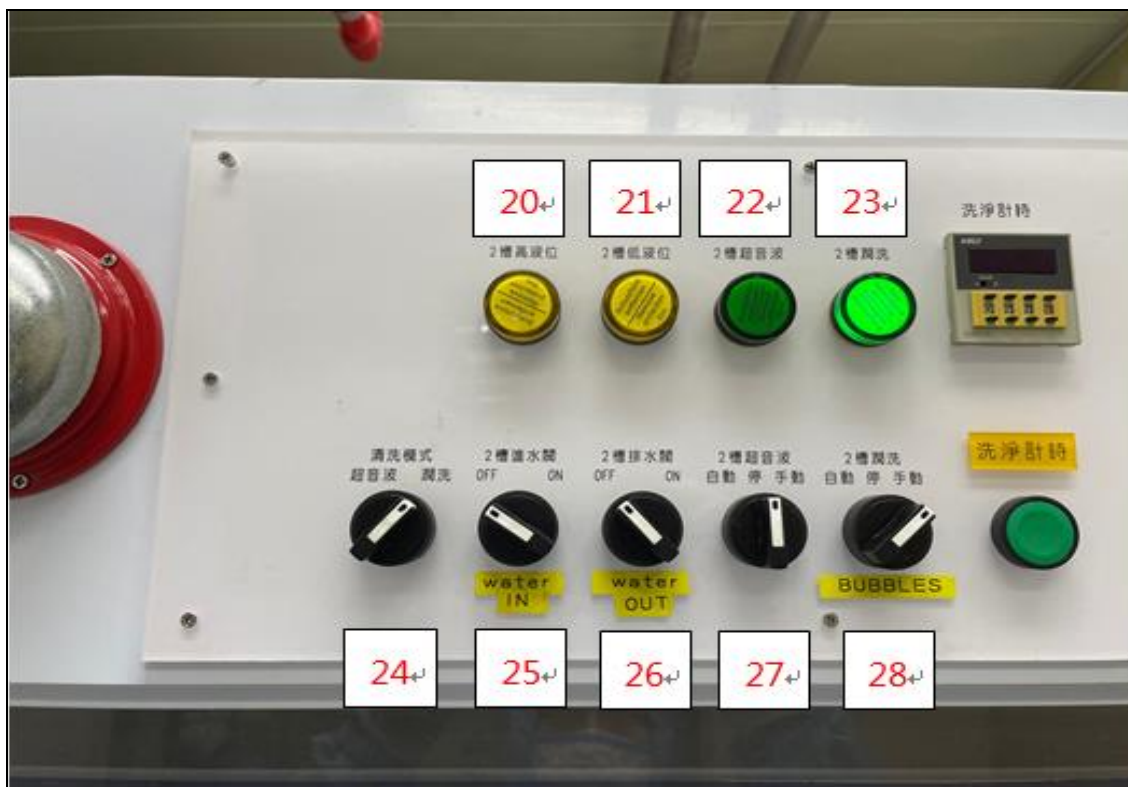
Description of panel functions



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➤ 第一槽 First Tank :

1. 電源燈 Power light	11. 1 槽電熱燈 1 Tank heat lamp
2. 蜂鳴器 Buzzer	12. 1 槽超音波燈 1 Tank Ultrasonic Lamp
3. 設備漏液警示燈 Equipment leakage warning light	13. 1 槽潤洗燈 1 Tank Rinse Light
4. 超溫異常警示 Over-temperature abnormal warning	14. 清洗模式 (超音波/潤洗) Cleaning Mode (Ultrasonic/Rinse)
5. 電源開關 (OFF/ON) Power switch (OFF/ON)	15. 1 槽進水閥 (OFF/ON) 1 Tank inlet valve (OFF/ON)
6. 安全門 (OFF/ON) Safety door (OFF/ON)	16. 1 槽排水閥 (OFF/ON) 1 Tank Drain Valve (OFF/ON)
7. 日光燈 (OFF/ON) Fluorescent lamp (OFF/ON)	17. 1 槽電熱 (OFF/ON) 1 Tank Electric Heater (OFF/ON)
8. 超溫重置按鈕 Over temperature reset button	18. 1 槽超音波 (自動/停/手動) 1 Tank ultrasonic (auto/stop/manual)
9. 高液位警示燈 High liquid level warning light	19. 1 槽潤洗 (自動/停/手動) 1 Tank rinse (auto/stop/manual)
10. 低液位警示燈 Low level warning light	



➤ 第二槽 Second Tank :

20. 高液位警示燈	High liquid level warning light
21. 低液位警示燈	Low level warning light
22. 2槽超音波燈	2 Tank ultrasonic lamp
23. 2槽潤洗燈	2 Tank rinse light
24. 清洗模式 (超音波/潤洗)	Cleaning mode (ultrasonic/rinse)
25. 2槽進水閥 (OFF/ON)	2 Tank inlet valve (OFF/ON)
26. 2槽排水閥 (OFF/ON)	2 Tank drain valve (OFF/ON)
27. 2槽超音波 (自動/停/手動)	2 Tank ultrasonic (auto/stop/manual)
28. 2槽潤洗 (自動/停/手動)	2 Tank rinse (auto/stop/manual)

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四、操作步驟

IV. Operating steps

1. 各類 PM 後所拆下的 PARTS 在放入振盪槽前，必須先做初步清理工作，以免較大的沉積物堵塞到排水孔。

The PARTS dismantled after all kinds of PM must be cleaned first before being put into the shaking tank, so as to prevent larger sediments from clogging the drainage holes

2. 放入 PARTS 後，開始注水，左槽注水之液面高度高過 PARTS 本身高度即可；而右槽之液面高度必須到達浮球位置，因此槽有加熱設備，以保護其裝置。

After putting in PARTS, start to fill water, and the liquid level of the left tank is higher than the height of the PARTS itself; The liquid level of the right tank must reach the float position, so the tank has heating equipment to protect its device

3. 注水到達定位後，左右兩槽皆可選用振盪及 N2 PURGE 的功能，以加速清潔效果；另外右槽有加熱功能（設定為 65°C），以利溶解附著於 PARTS 上的沉積物。

After the water injection reaches the position, both the left and right tanks can be equipped with vibration and N2 PURGE functions to speed up the cleaning effect; in addition, the right tank has a heating function (set to 65°C) to dissolve the sediment attached to the PARTS.

4. 振盪清潔完畢後，取出 PARTS 用 DI-WATER 沖洗，將 PARTS 的 POWDER 沖掉，再送到烘烤箱烘乾。

After shaking and cleaning, take out the PARTS and rinse with DI-WATER, rinse off the POWDER of the PARTS, and then send it to the oven to dry

伍、注意事項：

V. Notice Matter：

- 一、注水時須注意時間及液位，必免液體溢出，造成不必要的浪費。

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I. Pay attention to the time and liquid level when filling water, and avoid liquid overflow, causing unnecessary waste

二、振盪槽使用過後，須注意振盪、N2 PURGE、加熱器等功能開關是否確實關閉。

II. After using the oscillation tank, please pay attention to whether the function switches of oscillation, N2 PURGE, heater, etc. are really turned off

三、振盪槽使用前後，須用 DI-WATER 沖洗槽內四周，以利振盪槽之清潔功能。

III. Before and after using the oscillation tank, DI-WATER must be used to rinse the inside and outside of the tank to facilitate the cleaning function of the oscillation tank

四、超溫 Sensor 設定為 70°C，請勿任意調整，避免造成風險。

IV. The over-temperature Sensor is set to 70°C, please do not adjust it arbitrarily to avoid risks



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VI. Effective with Revise

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