

Manufacturer: DNS SK-200V-AVPE  
Coater/Developer Track

Wafer Size: 8  
Vintage: 1999,12  
Serial Number: 58700-0129  
Location: Japan

1. Spin coater(SC)

1) Spin motor

Rotation speed: 0 – 6000 rpm (CW,CCW)  
Max acceleration: 30000 rpm/s  
Rotation accuracy:  $\pm 1.5$  rpm  
Flange cooling: Temperature control by circulating water

2) Spin chuck

Material: PEEK

3) Resist nozzle

Scan speed: 25 – 85 mm/s  
Resist temperature control:  
Circulating water control with triple pipe structure  
Line: Max 6 line(3 line – 1 temperature control)

4) Pot rinse

Rinse dispense flow: Max 30 mL/min

5) Edge cleaner nozzle

Rinse dispense position: 0-10mm from edge  
Minimum set: 0.1mm

6) Back rinse

Rinse dispense line: 2 line  
Rinse dispense flow: 50 mL/min

7) Cup

Top cup material: PP  
Middle cup material: PP  
Bottom cup material: PPS

8) Cup rinse

Rinse dispense flow: Max 500 mL/min

9) Exhaust

Exhaust box material: SUS304  
Dumper: Cylinder open-close control

10) Resist dummy dispense: Auto or Pre-dispense

2. Spin coater(SC)/ T-ARC

1) Spin motor

Rotation speed: 0 – 6000 rpm (CW,CCW)  
Max acceleration: 30000 rpm/s  
Rotation accuracy:  $\pm 1.5$  rpm  
Flange cooling: Temperature control by circulating water

2) Spin chuck

Materials: PEEK

3) T-ARC nozzle

Scan speed: 25 – 85 mm/s  
Resist temperature control:  
Circulating water control with triple pipe structure  
Line: Max 4 line

4) Pot rinse

Rinse dispense flow: Max 30 mL/min

5) Edge cleaner nozzle

Rinse dispense position: 0-10mm from edge  
Minimum set: 0.1mm

6) Back rinse

Rinse dispense line: 2 line  
Rinse dispense flow: 50 mL/min

7) Cup

Top cup material: PP  
Middle cup material: PP  
Bottom cup material: PPS

8) Exhaust

Exhaust box material: SUS304  
Dumper: Cylinder open-close control

9) T-ARC dummy dispense: Auto or Pre-dispense

3. Spin developer

1) Spin motor

Rotation speed: 0 – 6000 rpm (CW,CCW)  
Max acceleration: 30000 rpm/s  
Rotation accuracy:  $\pm 1.5$  rpm

2) Spin chuck

Material: PEEK

3) Nozzle

Scan speed: 25 – 100 mm/s  
Line: Max 2 line (Same temperature control)

4) Nozzle cleaning

Nozzle cleaning dispense flow: Max 1 L/min  
N2 Nozzle blow: Nozzle side  
Drip removal: Ejector vacuum

5) Pure water rinse

Rinse dispense flow: Max 2 L/min

Line: 2 line

6) Back rinse

Rinse dispense output: 4 line

7) Cup

Cup material: PP

Splash guard material: PP

Inner cup material: PP

8) Exhaust

Exhaust Box material: SUS304

Exhaust dumper: Cylinder Open-close control

9) Drain

Liquid-Vapor Separation: Processed by Box under the Cup

10) Liquid dummy dispense: Auto or Pre dispense

3. Spin developer

1) Spin motor

Rotation speed: 0 – 6000 rpm (CW,CCW)

Max acceleration: 30000 rpm/s

Rotation accuracy:  $\pm 1.5$  rpm

2) Spin chuck

Material: PEEK

3) Nozzle

Scan speed: 25 – 100 mm/s

Line: Max 2 line (Same temperature control)

4) Nozzle cleaning

Nozzle cleaning dispense flow: Max 1 L/min

N2 Nozzle blow: Nozzle side

Drip removal: Ejector vacuum

5) Pure water rinse

Rinse dispense flow: Max 2 L/min

Line: 2 line

6) Back rinse

Rinse dispense output: 4 line

7) Cup

Cup material: PP

Splash guard material: PP

Inner cup material: PP

8) Exhaust

Exhaust Box material: SUS304

Exhaust dumper: Cylinder Open-close control

9) Drain

Liquid-Vapor Separation: Processed by Box under the Cup

10) Liquid dummy dispense: Auto or Pre dispense

4. Deep UV wafer edge exposure unit (EE)

1) Wafer detect: Vacuum sensor

2) Edge detect: Image sensor detect

3) Source: 200W HG – Xe lamp

4) Illumination limit control: Feedback auto-control

5) Filter select: Max 6 sheet, Auto-change

(248 band pass filter: 1 sheet standard)

(ND filter, Wave select filter, etc.)

5. Indexer

1) Built-in SMIF

\* ASYST INX2200

\* Wafer detect

\* Cassette detect

\* POD detect



装置構成情報

TR1 2

				HH 25	HH 24		
RHP21	RHP20	EEW26	RHP19				
PEB23	PEB22		RHP18	HP 17	HP 16	LPA15	
ZPC11	CP 14	ZPC10	ZPC 8	CP 13	ZPC 9	CP 12	

TR2 3

SSD 7	SSD 6	SC 4		SCP 5	
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RES28	SOL29	DEV30	HMD31	AUT32
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