



## PTW ASIA PTE LTD

ASM International A412 Doped Poly Vertical LPCVD Furnace	
Manufacturer	ASM
Model	A412
Product Description	Vertical LPCVD Furnace
Year of Manufacture	TBD
Serial Number	30298
Software version	6.80C
Heater Type	MRL
Loader configuration, 4 or 5 loader - 4	
Quartzware Configuration	
Outer tube	Quartz
Inner tube	Quartz
Boat	SiC boat
Boat fix ring/Cap quartz	Quartz
Adiabatic plate quantity	6
Back N2, Qty	N/A
BCI3, Qty & Type (L-type, Straight, Diffuser, Shower)	N/A
SiH4, Qty & Type (L-type, Straight, Diffuser, Shower)	Multihole (1) U/D/L
O2, Qty & Type (L-type, Straight, Diffuser, Shower)	Multihole (1) E
PH3, Qty & Type (L-type, Straight, Diffuser, Shower)	Multihole (1) U/D/L
ClF3, Qty & Type (L-type, Straight, Diffuser, Shower)	N/A
Vacuum Line configuration	
Design	original config
10 Torr Baratron model	MKS
10 Torr Baratron full scale setting	10(F/S)
1000 Torr Baratron model	MKS
1000 Torr Baratron full scale setting	1000(F/S)

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ATM sensor model	MKS
Vent Valve 1 (VV1) normally closed/open,plunger, diaphragm	Normally open,plunger Check valve model
Check valve model	Fujikin
Check valve resistance pressure	2.26 Kpa
Mainvalve type, Kitz or CKD	MKS
Slow valve, incorporated with mainvalve or separate(AV72,AV77)	Separate (PV003)
Slow valve orifice size	2.0mm (PV003)
Pressure range of vacuum gauge(Inficon Pirani gauge)	10T
<b>Control Table</b>	
Alarm Watch/Table setting	
Temp (Low Alarm Limit(deg)/High Alarm Limit(deg)/Check Time(min))	
U	0.7/0.7/30S
CU	0.7/0.7/30S
C	0.7/0.7/30S
CL	0.7/0.7/30S
L	0.7/0.7/30S
Pressure (Low Alarm Limit(Torr)/High Alarm Limit(Torr)/Check Time(S))	0.02/0.02/30S
<b>MFC (Low Alarm Limit(%)/High Alarm Limit(%)/Check Time(S))</b>	
MFC1	N2: 2%/2%/10sec
MFC2	N2: 2%/2%/10sec
MFC3	N2: 2%/2%/10sec
MFC4	N2: 2%/2%/10sec
MFC5	SiH4: 2%/2%/10sec
MFC6	SiH4: 2%/2%/10sec
MFC7	SiH4: 2%/2%/10sec
MFC8	1%O2/Ar: 1%/1%/10sec
MFC9	5%PH3/N2: 2%/2%/10sec
MFC10	5%PH3/N2: 2%/2%/10sec
MFC11	5%PH3/N2: 2%/2%/10sec
MFC12	ClF3: 10%/10%/10sec
MFC13	N/A
MFC14	N/A
MFC15	N/A
MFC16	N/A
MFC17	N/A
MFC18	N/A

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MFC19	N/A
MFC20	N/A
MFC21	N/A
APC Valve Action (High (%), Low (%), Time(s))	N/A
Transfer Table	
Wafer Charge command (charge/discharge)	
Side Dummy	Upper:5 / Lower:10
Product	100
Monitor	5
Product & Monitor	105
Time	
2nd charge time(min)	0
wafer cool time(min)	20min
Leak Rate Table	
Base pressure low Limit(Torr)	1%
Base pressure High Limit(Torr)	1%
Leak Check check time(s)	60s
Leak Check delay time(s)	N/A
Leak limit(Torr)	1%
Retry Limit(count)	2
<b>Loadlock Settings</b>	
Loadlock configuration	
O2 analyser model, NGK or Toray	PBI3.1 / PBI4.0
Process	
L/A Keep Value (ppm)	10ppm
N2 Flow max (L)	1300L
N2 Flow min (L)	300L
Check Stability Time(s)	N/A
Ready	
L/A Keep Value (ppm)	10ppm
N2 Flow max (L)	1300L
N2 Flow min (L)	300L
Check Stability Time(s)	N/A
Idle	
L/A Keep Value (ppm)	10ppm
N2 Flow max (L)	1300L
N2 Flow min (L)	300L
Check Stability Time(s)	N/A
L/A O2 check time (min)	N/A
L/A O2 limit (ppm)	10ppm

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POD opener O2 limit (ppm)	N/A
POD O2 check time(min)	N/A
POD check retry	N/A

**Missing/Damaged Parts List:**  
**None report, please inspect tool to reconfirm**

**Micron FAB11 APDPBC0C00(LPDE208 30298)**



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### Tool Status

R1 SCS



R2 SCS



### Robot Status

CHR



WHR



### Power Supply Brake

R1



R2



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## TCP/ECP

R1



R2



## Supply Gas Status



## Gas Flow Panel Status

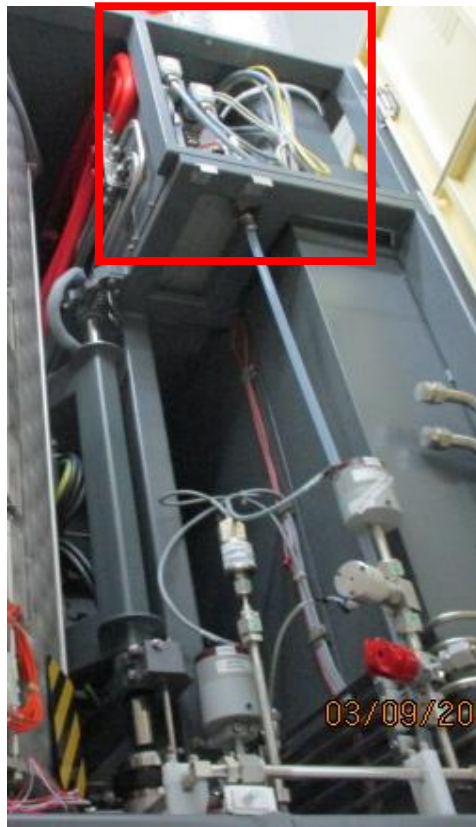


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### Heater Status



### TCF Status



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## N2 Purge Source Line



## Software Versions

Display all Versions [User: m00704] [Automatic log out after 14:55 idle] [Tool: AS18] [Tube2: LP0E208B]

Software versions							
Software release						6.80C	
Tool controllers							
	Model	Version	Date				
MSC	A412	7.12	19-Oct-11				
WMC	A412	8.02	11-Oct-11				
CHC	A412	5.10	12-Oct-11				
BTC	A412	2.JG	03-Feb-11				
Tube controllers							
T1-LPDE208A				T2-LPDE208B			
	Model	Version	Date	Model	Version	Date	
DPC	A412	2.V2	28-Sep-11	DPC	A412	2.V2	28-Sep-11
DTC				DTC			
MTC	A412PN	2.23	04-Feb-11	MTC	A412PN	2.23	04-Feb-11
Robot controllers							
	Serial#	Version	MCL Version	DEE Version			
WHR	1106006	0845-4.29A	2.93				
CHR	110663	084-4.03FC	2.25				

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## Digital I/O R1

Recipe status						Step# 4					
Recipe: STD6_PR7											
Digital Inputs						Digital Outputs					
Nr	Name	Status	Nr	Name	Status	Nr	Name	Status	Nr	Name	Status
1	N2-Press	OK	17	PmpWarn	OK	1	SIH4-D	CLOSED	17	PresCntr	LOW
2	CA-Press	OK	18	PmpAlarm	OK	2	SIH4-L	CLOSED	18	FastPump	CLOSED
3	ExhGasC	OK	19			3	SIH4-U	CLOSED	19	SlowPump	OPEN
4	ReacPrs	>12CFR	20	ManitMod	AUTOMATIC	4	PH3-D	CLOSED	20	Ev-SiPH	CLOSED
5	PmpPrs	OK	21	CentrRem	AUTOMATIC	5	PH3-L	CLOSED	21	PH3-LH	LOW
6			22			6	PH3-U	CLOSED	22	SIH4-Src	CLOSED
7	ProcIntr	PROCINTK	23			7	O2	CLOSED	23	O2-M	CLOSED
8	CapDoors	CLOSED	24			8	FlgTmLw	HIGH	24	Prg-CF3	CLOSED
9	FlngTmP	OK	25			9	N2-D	CLOSED	25	Prg-SI4	CLOSED
10	ExhReact	OK	26			10	N2-L	CLOSED	26	PH3-Prg	CLOSED
11	TubeDoor	CLOSED	27	FPmpSens	CLOSED	11	N2-U	CLOSED	27	PH3-Ltor	CLOSED
12	OverHeat	OK	28			12	SIH4-D-M	CLOSED	28	Evac-CF3	CLOSED
13	H2O-Reac	OK	29	ElevIntr	NOT ACTV	13	SIH4-L-M	CLOSED	29	N2-DIE-M	OPEN
14			30	ScrbFall	OK	14	N2-E	CLOSED	30	CF3-M	CLOSED
15			31	GasAlarm	OK	15	CF3	CLOSED	31	PH3-M	OPEN
16	Tube-ATM	VACUUM	32	GasWarn	OK	16	N2-LU-M	CLOSED	32		

## Digital I/O R2

Recipe status						Step# 13					
Recipe: STD6_PR7											
Digital Inputs						Digital Outputs					
Nr	Name	Status	Nr	Name	Status	Nr	Name	Status	Nr	Name	Status
1	N2-Press	OK	17	PmpWarn	OK	1	SIH4-D	CLOSED	17	PresCntr	LOW
2	CA-Press	OK	18	PmpAlarm	OK	2	SIH4-L	CLOSED	18	FastPump	OPEN
3	ExhGasC	OK	19			3	SIH4-U	CLOSED	19	SlowPump	CLOSED
4	ReacPrs	OK	20	ManitMod	AUTOMATIC	4	PH3-D	CLOSED	20	EvacSIH4	CLOSED
5	PmpPrs	OK	21	CentrRem	AUTOMATIC	5	PH3-L	CLOSED	21	PH3-HL	PH3-LOW
6			22			6	PH3-U	CLOSED	22	SIH4-Src	CLOSED
7	ProcIntr	OK	23			7	O2	CLOSED	23	O2-M	CLOSED
8	CapDoors	OK	24			8	FlgTmLw	HIGH	24	CF3-Prg	CLOSED
9	FlngTmP	OK	25			9	N2-D	OPEN	25	SIH4-Prg	CLOSED
10	ExhReact	OK	26			10	N2-L	CLOSED	26	PH3-Prg	CLOSED
11	TubeDoor	CLOSED	27	FPmpSens	OPEN	11	N2-U	CLOSED	27	PH3-Src	CLOSED
12	OverHeat	OK	28			12	SIH4-D-M	CLOSED	28	CF3-Evac	CLOSED
13	H2O-Reac	OK	29	ElevIntr	NOT ACTV	13	SIH4-L-M	CLOSED	29	N2-DIE-M	OPEN
14			30	ScrbFall	OK	14	N2-E	OPEN	30	CF3-M	CLOSED
15			31	GasAlarm	OK	15	CF3	CLOSED	31	PH3-M	CLOSED
16	Tube-ATM	VACUUM	32	GasWarn	OK	16	N2-LU-M	CLOSED	32		

## Analog I/O R1

Process Status [User: n8704] [Automatic log out after 1455 idle] [Tank: A510] [Tubet: LPB200A]													
Recipe						Deviator							
Recipe: N2 STD6_PR7		Process Time: 00:00:00		Position: 0 mm									
DevName: STANDBY		Step: 0 Time: 00:00:00		Setpoint: 10 mm									
		Start: 00:00:00		Speed: 0 mm/min									
Temperature													
Zone	Factual			Spike			Ramp	Rate	Power	Output	%		
	Setpoint	Actual	Deviation	Max setpoint	Setpoint	Min setpoint						Actual	
Zone 1	500.0	493.6	0.2	475.4	446.2	412.4	446.7	500.0	0.00	0.00	12		
Zone 2	500.0	499.7	0.3	485.6	456.5	424.6	457.9	500.0	0.00	0.00	7		
Zone 3	500.0	498.6	1.4	472.4	452.6	411.4	454.4	500.0	0.00	0.00	15		
Zone 4	500.0	495.5	4.5	472.7	470.6	407.7	470.2	500.0	0.00	0.00	29		
Zone 5	500.0	492.4	7.6	491.3	491.3	411.3	491.8	500.0	0.00	0.00	13		
Trig Zone													
Analog IO													
IO	Name	Setpoint	Actual	H.L.	L.L.	Unit	IO	Name	Setpoint	Actual	H.L.	L.L.	Unit
1	SIH4-D	0.00	0.00	0.30	0.00	SLM	1	Pmp-Prs	0.00	0.00	0.00	0.00	Torr
2	SIH4-L	0.000	0.000	0.000	0.000	SLM	2	PH3-Prs	0.0	2.2	0.0	0.0	BarG
3	SIH4-U	0.000	0.000	0.100	0.000	SLM	3	O2-Prs	0.0	0.0	0.0	0.0	BarG
4	PH3-D	0	0	50	0	SCCM	4	Viv-Pos	0.0	99.9	0.0	0.0	%
5	PH3-L	0.0	0.0	10.0	0.0	SCCM	5	LeakRate	0.0	200.0	0.0	0.0	mmTorr
6	PH3-U	0.0	0.0	10.0	0.0	SCCM	6	Leaking	0.0	50.0	0.0	0.0	mmTorr
7	O2	0.00	0.00	0.50	0.00	SLM	7	N2PrgCar	1	300	0	0	Sm
8	LowPrs	0	2000	0	0	mmTorr	8	SIH4-Prs	0.0	3.0	0.0	0.0	BarG
Analog IO													
IO	Name	Setpoint	Actual	H.L.	L.L.	Unit	IO	Name	Setpoint	Actual	H.L.	L.L.	Unit
9	N2-D	0.50	0.48	1.00	0.00	SLM	9	N2-Prs	0.0	2.3	0.0	0.0	BarG
10	N2-L	0.0	0.0	5.0	0.0	SCCM	10	CF3-Prs	0.0	0.0	0.0	0.0	BarG
11	N2-U	0.0	0.0	5.0	0.0	SCCM	11	ATM-Prs	0	7.26	0	0	Torr
12	O2-Level	1	1	0	0	PPM	12	FlngTmP	60.0	60.1	0.0	0.0	sec
13	HighPrs	0.00	10.00	0.00	0.00	Torr	13	ATM-Setp	0	680	0	0	Torr
14	N2-E	0.100	0.098	0.100	0.000	Sm	14	PH3H-Prs	0.0	0.0	0.0	0.0	BarG
15	CF3	0.00	0.00	0.50	0.00	Sm	15	FlngLqT	60.0	73.7	0.0	0.0	sec
16							16						

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## Analog I/O R2

Recipe									
Recipe: N2_STDB_PR7		Process Time: 00:39:10		Position: 1200 mm		Step: 13		Time: 00:00:10	
StepName: STANDBY N2-PURGE		WaitFor: Start		Setpoint: 1200 mm		Step: 13		Time: 00:00:10	
Temperature									
Zone	Raddle			Spike			Temp		Power
	Setpoint °C	Actual °C	Deviation °C	Max setpoint °C	Setpoint °C	Min setpoint °C	Actual °C	To %	Rate %
Zone 1	500.0	500.0	0.0	481.9	449.2	418.9	449.2	500.0	0.00
Zone 2	500.0	500.0	0.0	479.3	441.8	418.3	441.7	500.0	0.00
Zone 3	500.0	500.0	0.0	467.0	431.5	406.0	431.5	500.0	0.00
Zone 4	500.0	500.0	0.0	482.4	449.5	417.4	449.3	500.0	0.00
Zone 5	500.0	500.0	0.0	493.9	470.3	419.9	470.3	500.0	0.00
Fog Zone									15

Analog I/O											
IO	Name	Setpoint	Actual	HL-LL	Unit	Dir	Name	Setpoint	Actual	HL-LL	Unit
1	SPH4-D	0.00	0.00	2.70	SLM		PH3-Prs	0.00	0.00	0.00	Torr
2	SPH4-L	0.000	0.000	0.000	SLM		O2-Prs	0.0	2.4	0.0	BarG
3	SPH4-U	0.000	0.000	0.100	SLM		LowPrs	0.0	0.0	0.0	BarG
4	PH3-D	0	0	450	SCCM		Vlv-Pos	0.0	31.0	0.0	%
5	PH3-L	0.0	0.0	90.0	SCCM		LeakRate	0.0	200.0	0.0	mTm
6	PH3-U	0.0	0.0	90.0	SCCM		LeakPrs	0.0	50.0	0.0	mTm
7	O2	0.00	0.00	0.50	SLM		N2PrsCar	1	300	0.5	SLm
8	LowPrs	500	499	20	mTm		SPH4-Prs	0.0	4.1	0.0	BarG
9	N2-D	3.00	2.99	0.00	SLm		N2-Prs	0.0	2.3	0.0	BarG
10	N2-L	0.0	0.0	5.0	SCCM		CF3-Prs	0.0	0.0	0.0	BarG
11	N2-U	0.0	0.0	5.0	SCCM		ATM-Prs	0	3	0	Torr
12	O2-Level	1	1	0	PPM		FingTm	60.0	79.8	0.0	°C
13	HighPrs	0.00	0.47	0.00	Torr		ATM-Setp	0	680	0	Torr
14	N2-E	0.500	0.498	0.000	SLm		PH3-Prs	0.0	0.0	0.0	BarG
15	CF3	0.00	0.00	0.50	SLm		FingLit	60.0	71.1	0.0	°C
16											

## Temperature control system MTC

### R1

MTC System Configuration [Tank AS18] [Tubch: LP0208A]

Thermocouple type:

Maximum operating temperature:  (°C)

Minimum operating temperature:  (°C)

Number of zones:

Tube option:

Controller:

Process type:

Low temperature alert:  (°C) (0 = disabled)

High temperature alert:  (°C) (0 = disabled)

Disable spike control alarm

Natural cooling rate correction:  (%)

Deviation:

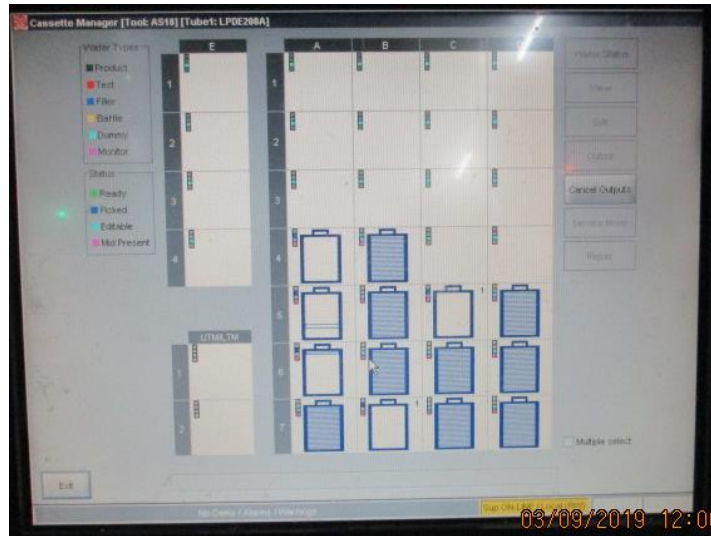
Temperature Range (°C)	Max profile deviation (°C)
0 - 200	0.5
200 - 400	0.5
400 - 600	0.5
600 - 800	0.5
800 - 1200	0.5
1200 - 1800	0.5

Buttons: Exit, Save and Exit, Print, Export

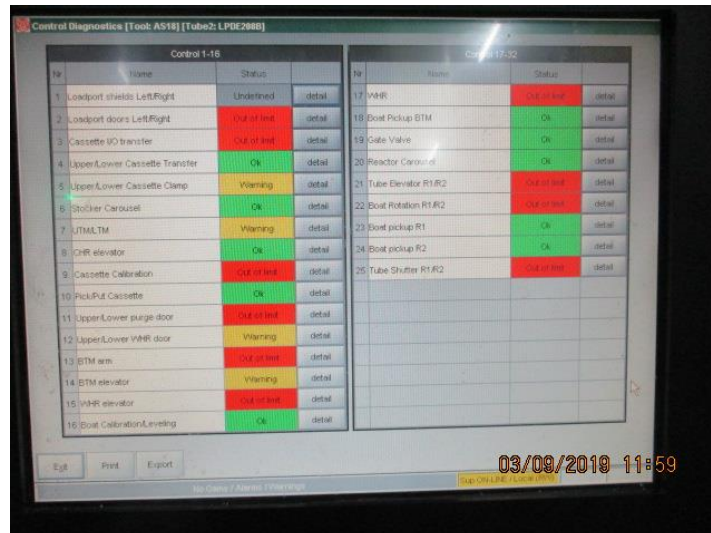
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## Stoker status



## Motion part control status



## Boat setting status

### R1 Boat wafer slot setting

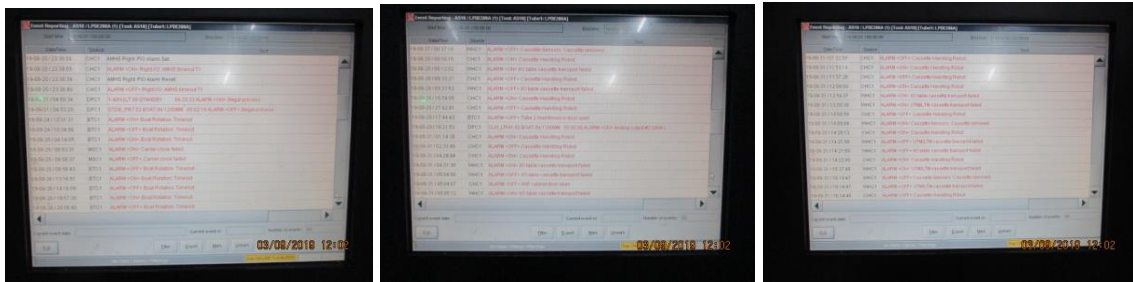
Type	Wafer size (mm)	Slots	Pitch (mm)	Delta pitch (1/10000")	Offset	Lift/Drop (mm)	Distance	Calibration (1/1000")	Depth	Warning space	Max space	Warning lift	Max lift	Phys. space	
Boat A	300mm120	300	120	3006	0	1000	150	100	90	100	225	250	80	100	130
Boat B	300mm120	300	120	3006	0	1000	150	100	90	100	225	250	80	100	130
Boat C	None														

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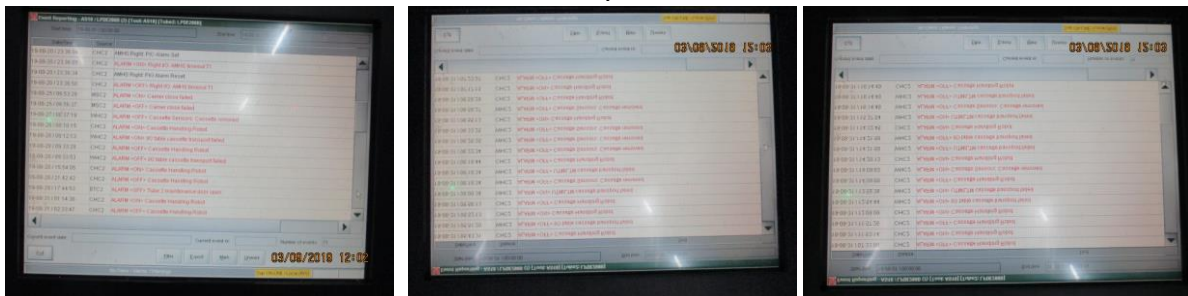
## R2 Boat wafer slot setting

Boat	Type	Wafer size (mm)	Slots	Pitch (1/1000")	Delta			Distance	Calibration	Depth	Warning		Max		Phys
					pitch	Offset	Lift/Drop				space	space	位	位	
Boat A	300mm120	300	120	3006	0	1000	150	100	90	100	225	250	80	100	130
Boat B	300mm120	300	120	3006	0	1000	150	100	90	100	225	250	80	100	130
Boat C	None														

## Alarm log R1 alarm by 3 month



## Alarm log R2 alarm by 1 month



## PTW ASIA PTE LTD



All Equipment is offered subject to prior sale. This item will be quoted based upon specific terms and configuration required. Interested parties may contact PTW Asia Pte Ltd at:

[ask@ptwsingapore.com](mailto:ask@ptwsingapore.com)

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