



Hg Solutions

Resolving Your Cost of Ownership Issues

Prospective Customer:

Hg Solutions is pleased to submit for your consideration the following quotation for an **ACT12 Clean Track** system. Serial number for this tool is **MD-E210323**.

This unit is in like-new condition, offered in a turnkey format and contains the following system components and options:

Cassette Block

- Four SMIF Foups
- Type 3 Controller
- Signal Light Tower
- Top mounted electronics avoid chemicals.
- SECS/GEM Communication.

Coat Process Block

- Two Resist Coaters (Eight Resist in each cup)
- Two BCT Coaters (Four Resist in each cup)
- Twelve total Mykrolis Intelligen Resists Pumps
- CDK Programmable Suck back Valves
- Three PHP (Precision Hot Plate)
- Temperature Controllers Each Resist (TCU)
- Two Temperature and Humidity Controllers
- Three LHP (Low temperature Hot Plate)
- Four HHP (High temperature Hot Plate)
- Five CPL (Cool Plate)

Developer Block

- Four Developer Modules
- Two Developer Solutions in each cup
- LD Nozzles for each developer solution
- Developer Temperature Controllers
- Three PHPs (precision hot plates)
- Four LHPs (low temperature hot plates)
- Six CPLs (cool plates)

Interface Block

- ASML Interface
- One WEE (wafer edge expose)
- Two stationary buffers for staging before expose
- Interconnect tubing and water lines, **New**
- One THS (temporary holding stage)
- Two ADH/HMDS (adhesion hot plates)

Hg Solutions' Value Added Features

- Thickness and Standard Deviation performance guarantee equal to OEM spec
 - **12-month parts warranty included**
 - Crating included
 - Installation performed by factory-trained engineer

Hg Solutions

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Before our customers receive their equipment, it is installed in our clean room utilizing clean room protocols. The equipment is marathon tested with the customers' recipes using nitrogen and 18 mega-Ohm water.

During the source inspection, you will be able to inspect your completed turnkey ACT system precisely as it will be installed in your own facility. At the very minimum, we guarantee to perform the following:

Pre - Startup

- 1) Assist move in of tool from dock
- 2) Help in facility locations and layout of tool
- 3) Inventory and system inspection
- 4) Assist tool move into fab
- 5) Position track and support equipment
- 6) Level support equipment and rough level system

Startup Level 1 (Pre- Introduction of Chemicals)

- | | |
|--|---|
| 1) Fine level of system (including all process stations, plates, robotics & transfer stages) | 15) Spin unit position adjustments |
| 2) Attach all accessories | 16) Process plate position adjustments |
| 3) Connect all power lines | 17) Spinner rotation speed check |
| 4) Connect all communication cables | 18) Interface position adjustments |
| 5) Connect and terminate all water lines | 19) Reliability transfer checks for all modules (1000 wafers) without handling errors |
| 6) Connect and terminate all chemical lines | 20) Inline position adjustments and checks to scanner/stepper |
| 7) Connect t/h unit ducting | 21) Setup thermo controllers (TCU) |
| 8) Set all facilities to equipment specifications | 22) Balance exhaust for plates |
| 9) Pre-power on checks | 23) Plate calibrations |
| 10) Post-power on checks | 24) Exhaust controller calibrations (PTI) |
| 11) Clear all alarms | 25) Wee unit calibrations |
| 12) Carrier position adjustments | 26) Environmental control calibrations (cup temp and humidity, wind velocity, chemical temperature) |
| 13) Align PRA pinsets | |
| 14) Adjust pins and shutter speeds per specification | |

Startup Level 2 (Introduction of Chemicals)

- | | |
|---|--|
| ✓ Pre-wet chemical filters | ✓ Calibrate all chemicals for coater units |
| ✓ Pre-wet DI water filters | ✓ Developer unit setup (dispense positions, nozzle height, Ect. |
| ✓ Introduce DI water | ✓ Calibrate all chemicals for developer units |
| ✓ Introduce process chemicals | ✓ Pre-coat setup (suck-back setup, pump dispense, EBR cut width) |
| ✓ Setup ADH unit and calibrate HMDS | ✓ Engage all interlocks |
| ✓ Coater unit setup (dispense positions, nozzle height, solvent dispense positions) | ✓ Provide turnover installation checklist |
| | ✓ See tool into production, when customer claims preparedness. |

Options

200mm Conversion

Hg Solutions is foremost a service organization, committed to your full satisfaction of this quality TEL ACT 12 system. Please do not hesitate to call with questions or to discuss the many possible options available with this equipment.

Below: Front view of the tool. Note the tool is operated using a host via SECS/GEM. Tool has quad 300mm FOUPs.



FOUP 1-4	CRA 1-0	PHP 2-24	HHP 2-30	LHP 2-14	PHP 3-24	3-30	LHP 3-14	WEE 4-4
		PHP 2-23	HHP 2-29	LHP 2-13	PHP 3-23	3-29	LHP 3-13	
FOUP 1-3		PHP 2-22	HHP 2-28	CPL 2-12	PHP 3-22	3-28	LHP 3-12	IRA 4-0
		CPL 2-21	HHP 2-27	CPL 2-11	CPL 3-21	3-27	LHP 3-11	
FOUP 1-2	CWH 2-20	LHP 2-26	CWH 2-10	3-20	3-26	3-10		
	CPL 2-19		CPL 2-9	CPL 3-19		CPL 3-9		
	2-8	LHP 2-25	SHU 2-18		3-25	3-18		
	ADH 2-7		SHU 2-17			CPL 3-17		
FOUP 1-1	TRC 2-6	PRA 2-0	2-16	3-6	PRA 3-0	TRC 3-16		
	TCP 2-5		ADH 2-15	CPL 3-5		CPL(T) 3-15		
FOUP 1-1	2-3	2-4	3-3	3-4				
	BCT (4)	BCT (4)	DEV (2xLD)	DEV (2xLD)				
FOUP 1-1	2-1	2-2	3-1	3-2	SBU 4-3			
	COT (8)	COT (8)	DEV (2xLD)	DEV (2xLD)	SBU 4-2			
					THS 4-1			

Above: View of the system Configuration Layout. As you can see this is a fully loaded system, with more than enough hot and chill plates for fast throughput.

Below: Another front view of the actual tool that you will receive. The condition of the tool is flawless due the regular maintenance performed under previous ownership.



Below: Actual picture of the carrier station arm As you can see it is in mint condition.

