

COATER / DEVELOPER PLATFORMS
CAPABILITY

ABOUT US

VISION STATEMENT

To be the Supplier of choice for upkeep and Capacity extensions for Wet and Coating tools.

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PRODUCT RANGE

- Spin Motors
- Computer repair/exchange
- Robots
- End-effector assembly and blades
- Pumps
- Process bowls
- Used tool trading and turn key refurbishment
- Coater / Developer module refurbishment

- Hotplate / Cool plate refurbishment
- Process arm custom nozzles
- Gear unit Process arm
- Spray nozzle upgrade
- Load port adapter
- Flow control

COATER / DEVELOPER PLATFORMS TURNKEY SOLUTIONS

COATER / DEVELOPER REFURBISHED TOOLS

- Process specifications, and design a system for a tool to be refurbished that meet the customers requirement. We work together from:
- Specifications setting
- Tool configuration
- Tool sourcing (if non-existent)
- Complete refurb and overhaul
- Installation and Process approval
- Warranty on the system and function

COATER / DEVELOPER PLATFORMS

Süss Microtec - ACS 300 / ACS 200 / Fairchild Falcon







DNS Screen





COATER / DEVELOPER PLATFORMS PARTS SUPPORT

PARTS(OEM & 2nd Source New)

Many other parts available for Falcon/Süss tools



ST5918M 2008-B Process arm



ST5918L 2008-A Process arm



Chucks



Bowls



Sensors



Cable chains



Medium Valves



SM Cards



Libbert cards



Flowmeter

PROCESSES

Repair Request (End-user, OEM Identify Defects

(Inspection Function Test

Repair

(Replacement Parts, Assembly, Final Inspection)

DELIVERY

REPAIR PROCESS

Requirement Survey (Meeting, Check

(Meeting, Check Specs, Field Survey) Internal Design Review

(New parts inspection New valve design) Implementation on Modification

Fabrication Function Final Inspection) Delivery & Technical Support

(Installation, Additional Testing, Troubleshooting)

MODIFICATION PROCESS

SPINMOTOR AND CONTROLLER REFURBISHMENT



OVERALL BENEFITS:

- Reliable and comprehensive repairs
- Fast turnaround times with express option
- 1 Year warranty on Spin motor



GENMARK ROBOT GP4S; GP4P; GP7...

ROBOT REFURBISHMENT

- PARTS REPLACEMENT
- STANDARD LEVEL TOLERANCES AND CLEARANCES
- SERVO MOTOR REPLACEMENT
- ELECTRICAL HARNESSING
- CYCLE TEST









END EFFECTORS

End-effectors 2nd source or complete redesign of any end-effectors possible





COATER/DEVELOPER REFURBISHMENT

- Refurbishment of all coater and developer modules
- Custom changes from liquid lines and anything else possible
- After refurbishment test of all funtions and tighness test of liquid lines











GEAR UNIT PROCEESSARM REFURBISHMENT

We also offer 2nd source new Processarms.
Customers do not have to wait for the refurbishment.









CHUCK AND BOWLS

We can produce and re-design any kind of bowls and chucks.









PROCESSARM CUSTOM NOZZLE UPGRADES/CHANGES



Custom Nozzle inserts



Custom Diameters with or Without Double Containment





Custom Number and Order of Nozzles

SPIN CHUCKS REPAIR AND RE-DESIGN



Repair and testing of existing chucks

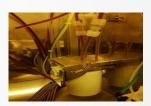


Re-design or new design of any chucks Find solutions for different problems

WAFERTECPUMP SYSTEM MODIFICATION REPAIR



Custom trap tank solutions With sensor



Filter integration for HV medium



Bottle empty Tube Sensor upgrade





Changing or build up new pump system



Custom Nozzle Setups

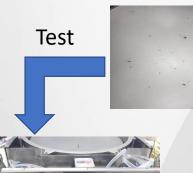
Süss / Falcon **REPAIR AND UPGRADES**

HOTPLATE REFURBISHMENT DNS SCREEN - SUSS





Refurbish







FLOWMETER UPGRADE





Examble existing flowmeter



- Upgrade kit for existing flowmeters without flow monitoring (with Keyence sensor)
- Create alarms if flow is not correct during process

LOADPORT ADAPTER UPGRADE

Benefits of replacing existing 200mm Suss Adapter:

- For Wafermapping, no movement of wafers necessary
- No maintenance of cylinders or mechanical part necessary
- Solution for particles on wafer. No mechanical movement above the wafer



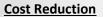
Adapter for Brooks Loadboard on ACS300 for 200mm production For Wafer mapping, sensor holder must be changed

SPRAY NOZZLE UPGRADE

Quality Increase

Fixed spray angle and defined drop size
Easy mechanical adjustment of the nozzle
Electromagnetic vaporization
Minimal mist and over-spray - Reduction of spray dust

Monitoring and flow detection with alarm



Sprayed solution is delivered to the target with minimal waste

Reduction of liquid consumption (up to 50%)

Reduction of process time (depends on actual system)

Reduced Exhaust needed

No N2 needed for Vaporization

Only 1 nozzle for 4/5/8 inch. 2 Nozzle 12 inch



Control Unit



Sprv Nozzle

Süss / Falcon
REPAIR AND UPGRADES

SPRAY NOZZLE UPGRADE

MeSpray Nozzle Upgrade dium Reduction: Change from Existing Spray Nozzle with N2 to New Spray Nozzle

Old System

- 8": 2 Nozzles 2x 70ml/min developer medium 80 sec Stop Medium 1x 200ml/min 14sec Consumption: 186ml 0,65\$ / Wafer
- 12": 3 Nozzles 3x70ml/min developer medium 80 sec Stop Medium 1x 200ml/min 14sec Consumption: 280ml 0,98\$ / Wafer

New System

- 8": 1 Nozzles 1x 70ml/min developer medium 80 sec Stop Medium 1x 100ml/min 14sec Consumption: 93ml 0,32\$ / Wafer
- 12": 2 Nozzles 2x70ml/min developer medium 80 sec Stop Medium 1x 200ml/min 14sec Consumption: 186ml 0,65\$ / Wafer

Assumed Price / Liter 3,50\$

WHAT WE CAN DO FOR PROACTIVE SERVICES

COST REDUCTION PROGRAM

- Reversed engineering process on applicable parts
- Prompt spare outsourcing at lower cost
- Competitive from any other supplier
- Supports "WIN-WIN" situation to both parties

SPRAY NOZZLE UPGRADE

- Low medium consumption(~50%)
- Maintenance free
- Quality increase

ROBOT REFURBISHMENT

- GP4P
- GP7
- GP4 / GP4s
- Full refurbishment
- Full testing after refurbishment

SPARE PARTS READINESS

- Support most on Non-consumable local and overseas inventory as defined
- Lower cost on consumable parts local and overseas inventory
- Parts refurbishment
- Parts flexibility OEM or PTW Asia

TRAINING SUPPORT

- Training at our facility is also available
- On site training at lower cost

OUR GAME PLAN

- ✓ Technical support : 24/7
- ✓ Includes Major Planned Maintenance and technical troubleshooting services
- ✓ Bring in Legacy tools in local warehouse for part exchange program
- ✓ Supports CIP to improve tool utilization performance



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