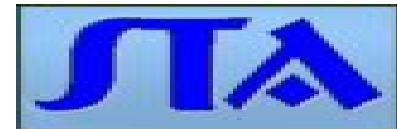


Semiconductor Technology America, Inc.

Robot & Wafer Transfer Business

Technical support frontier company
for Semiconductor & LCD business in worldwide.

Semiconductor Technology America
4773 Pacific Ave
Eugene, OR 97402
Tel:541-344-1170 // Fax:541-344-1187
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Service Program

- **Modification/Upgrade service of the Robot & Transfer System**
 - Customized modification service due to increase the productivity
(Example; VTR5 to MTR5 Modification , MTR5 to MAG7 Upgrade)

- **Refurbishment Service of the Robot & Transfer System**
 - Fully refurbish and replace the most of the parts like a brand new robot system

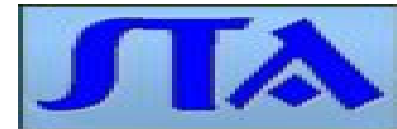
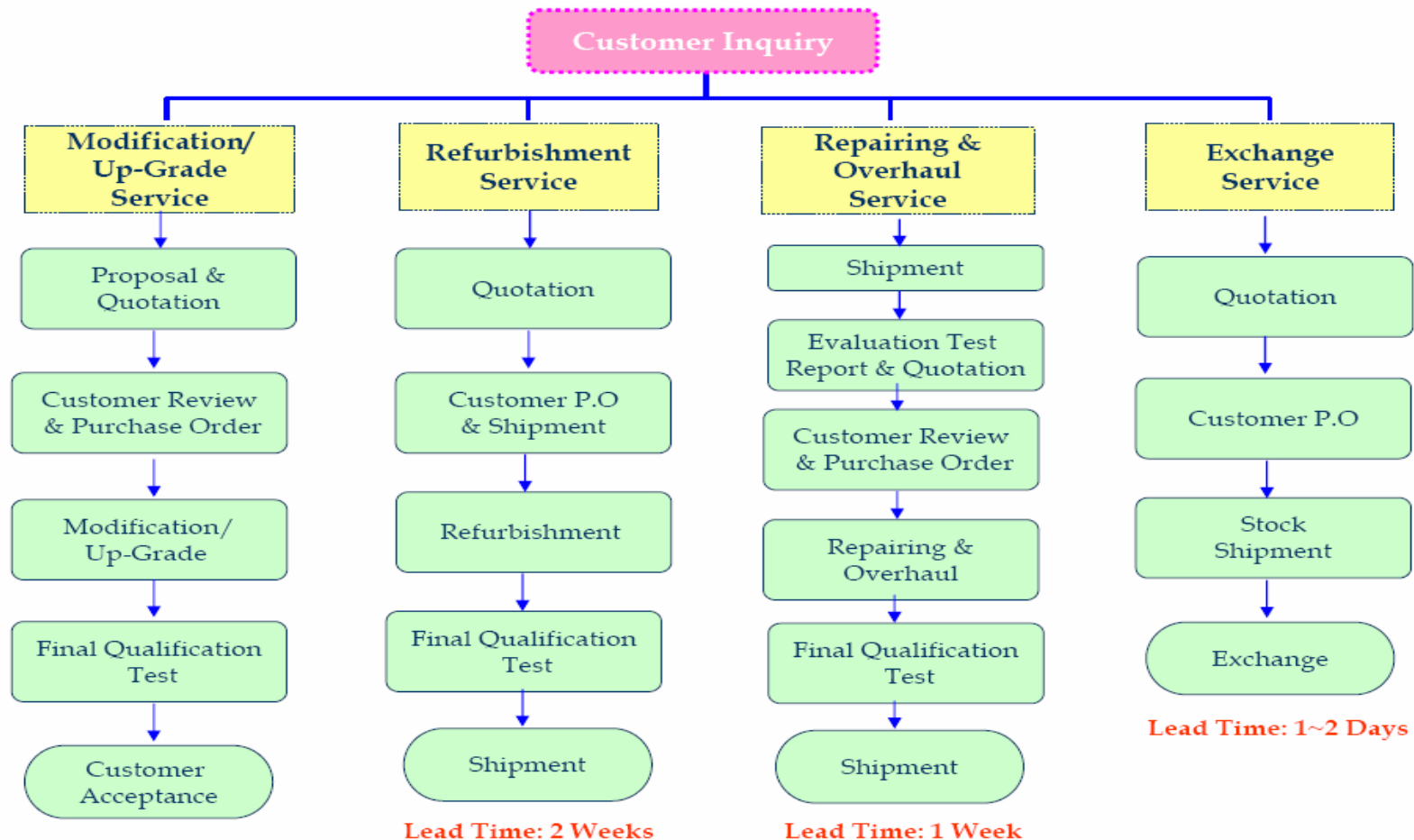
- **Repairing & Overhaul Service of the Robot & Transfer System**
 - Troubleshooting the robot and replace only trouble parts then overhaul

- **Stock Level Exchange Service of the Robot & Transfer System**
 - Fast Backup service using our provide stock robot system

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Service Procedure



Qualification Test Lab



Repair Shop



Part Inventory

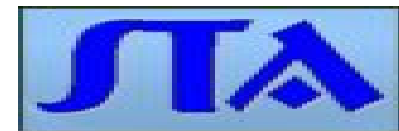


Robot & ARM Test Stands



Vacuum Leak Test

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Available Robot & Our Capability

MAGNATRAN 7.1 (Brooks)



- Vacuum Robot & Arm Set
- 200mm & 300mm Compatible
- Magnet Drive Motors
- Linear Guide Z Axis

OEM CUSTOMER

- NOVELLUS
- LAM RESEARCH
- JEL
- ULVAC
- TEL
- ANELVA
- OTHERS



GenMark Robot & Controller



- ATM Robot
- CANON Stepper (CVD:APT-5800)
- GENUS CVD(6000)
- AG (Measurement Equip)
- ULTRA TECH Stepper (Photo)
- 4-POINT PROBE (OP2600)

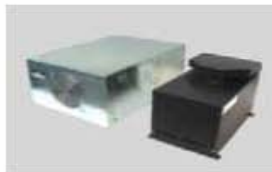


- GenMark Robot Controller
- GB3
- GB4
- GB4P

Equipe(PRI) Robot & Controller



- ATM Robot
- ATM-Series Robot & ESC-Series Controller
- Qualification Test
- Repair & Refurbish Program
- On call & On site Service Available



Other Products



- AMAT HP/VHP Robot Series.
- Acculiner – 300mm Wafer
- AGV Servo Arm – Automatic Elevator
- Cassette Elevator
- Aligner – 200mm Wafer
- Aligner Controller



Available Robot & Our Capability

MAGNATRAN 70 & 74 (Brooks)



- LCD PRODUCTION ROBOT
- Single Arm
- 48Hr Life Test
- 72Hr Qualification Test
- Repair & Refurbish Program

➤ OEM CUSTOMER : AKT

MAGNATRAN 60



- LCD PRODUCTION ROBOT
- Single Arm
- 48Hr Life Test
- 72Hr Qualification Test
- Repair & Refurbish Program

➤ OEM CUSTOMER :
ANELVA, UNAXIS

Acu / AquaTran - Series



MULTITRAN 5 (Brooks)



- Vacuum Robot, 48Hr Life Test
- 72Hr Qualification Test
- Repair & Refurbish Program
- Rental Program, Exchange Program
- On call & On site Service

ROBOT ARM (Brooks)



- Vacuum Robot Arm
- User - All Robot users
- 48Hr Life Test
- 72Hr Qualification Test
- On call & On site Service

Reliance



- ATM robot
- User - All Robot users
- 48Hr Life Test
- 72Hr Qualification Test
- On call & On site Service

Our Key Product Inventory



MAGNATRAN 7.1 (Brooks)



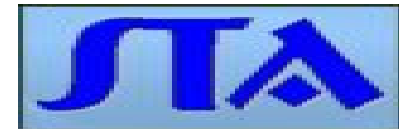
MULTITRAN 5 (Brooks)



ATM Robot (Equipe/PRI)



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Wafer Handling Inventory



MARATHON EXPRESS 700 - 200MM - (2 Systems)

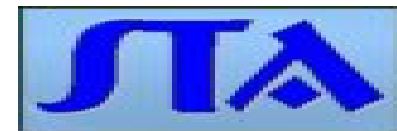
The Marathon Express® 700 (MX700) platform is a high productivity, high throughput seven-sided process integration system with two load locks and five process facets. The MX700 is ideally suited for CVD and PVD applications, as well as Etch and large non-MESC process modules such as those used in MR Head manufacturing, fully integrate to Factory Automation solutions such as AGV and SMIF.



MARATHON EXPRESS 600 - 200MM - (2 Systems)

The Marathon Express® 600 (MX600) platform is a low cost six-sided process integration system with two load locks and four process facets. The MX600 is ideally suited for applications with two process modules such as Ash or RTP. The MX600 will handle substrates from 100mm to 200mm round.

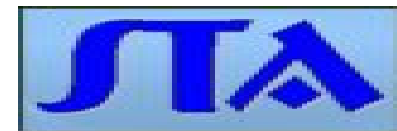
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Available Robot List I

Brooks Robot Model	• • • • •	• • • • •Maker	• • • • •	• • • • •	• • • • •Wafer
ATR7(Acuatran)	CU ELECTROPLATING	NOVELLUS	SABRE/SABRE-NeXT™	2 Years	300mm
Wet-ATR7(Aqutran)	CU ELECTROPLATING	NOVELLUS	SABRE/SABRE-NeXT™	2 Years	300mm
ATR8(Reliance)	HDP CVD	NOVELLUS	Concept3 Speed	2 Years	300mm
MAG 7+ Arm	HDP CVD	NOVELLUS	Concept3 Speed	3 Years	300mm
ATR7	PECVD	NOVELLUS	Concept3 Vector	2 Years	300mm
ATR8(Reliance)	PECVD	NOVELLUS	Concept3 Vector	2 Years	300mm
ATR8(Reliance)	PECVD	NOVELLUS	Concept3 Altus	2 Years	300mm
MAG 7 +Arm	PECVD	NOVELLUS	Concept3 Altus	3 Years	300mm
ATM-407	CVD	8"ARC DEP	Producer	2 Years	200mm
MAG7	CVD	8"Novellus C2 Sequel	C2 Sequel Express	2 Years	200mm
MAG7	HDP CVD	8"Novellus C2 Speed	C2 Speed	3 Years	200mm
MTR5+ Arm	HDP CVD	8"Novellus C2 Speed	C2 Speed	3 Years	200mm
MAG7	CVD	8"Novellus Altus	Altus	3 Years	200mm
Brooks Mag7	HDP CVD	CVD	Novellus Speed	3 Years	200mm
Mag7+ Arm	DRY ETCH	LAM	Alliance	2 Years	200mm
ATM-207	DRY ETCH	LAM	Alliance	3 Years	200mm
Mag7+ Arm	CVD	JEL	Eureca	3 Years	200mm
MTR5+ Arm	CVD	JEL	Eureca	3 Years	200mm
MTR5	CVD	TES	Tellia	3 Years	200mm
Mag7	CVD	TES	Tellia	3 Years	200mm
VCE 4,6(Vacuum Casser Elevator)	PECVD	NOVELLUS	Concept3 Speed	3 Years	200mm
Aligner controller	PECVD	NOVELLUS	Concept3 Altus	3 Years	200mm
R-motor	DRY ETCH	LAM	Alliance	2 Years	200mm

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Available Robot List II

Brooks Robot Model	• • • •	• • •Maker	• • • • • • • •	• • • • • • •	• •Wafer
ATR8	CMP/Wet	ADE WFR FLATNESS INSPECTION	AFS		300mm
Wetbot-WTM511-2-FWS-02	CMP/Wet	AMAT CMP	REFLEXION		300mm
ABM-407	CMP/Wet	FSI ACID SPRAY PROCESS	ZETA		300mm
DBM-2407	CMP/Wet	FSI ACID SPRAY PROCESS	ZETA		300mm
DBM-2407	CMP/Wet	FSI CRYOKINETIC CLEAN	ANTARES		300mm
ATM-407	CMP/Wet	SEZ ACID SPRAY PROCESS	SP304		300mm
DBM-2406 V2	CMP/Wet	SEZ SINGLE WAFER CLEAN	DV-38BF		300mm
ABM-405	Metrology	Accent FTIR	QS3300ME		300mm
ABM-405-1-S-CE-S293	Metrology	AMAT CD-SEM	Verity		300mm
ABM-405-1-S-CE-S293	Metrology	AMAT DEFECT REVIEW SEM	SEMVision CX/G2/G2-FIB		300mm
ATR8	Metrology	FEI CLM FIB SEM	CLM-3D		300mm
ABM-407	Metrology	KLA BRIGHTFIELD WAFER INSPECTION	2350/2365		300mm
ATR8	Metrology	KLA CD SEM	8450		300mm
ABM-407	Metrology	KLA DARKFIELD WAFER INSPECTION	AIT XP / PUMA 9000		300mm
ATR8	Metrology	KLA E-BEAM INSPECTION	ES20/ES31/ES32		300mm
ABM-407	Metrology	KLA MACRO-WAFER INSPECTION	Viper		300mm
ABM-407	Metrology	KLA OVERLAY REGISTRATION MEASUREMENT	5300 Archer 10/Archer AIM		300mm
ABM-407	Metrology	KLA RESISITIVITY MEASUREMENT	RS100		300mm
ABM-407	Metrology	KLA THIN FILM MEASUREMENT	ASET-F5x / Spectra-Fx		300mm
ATR8	Metrology	KLA UNPATTERNED WAFER INSPECTION	SP1		300mm
ABM-405C-1-S-CE-S293	Metrology	ThermaWave FILM THICKNESS MEASUREMENT	OP5340		300mm
ABM-407	Metrology	Veeco ATOMIC FORCE PROFILING	VX330		300mm
ATR8	DRY ETCH	LAM DRY ETCH	2300 Exelan Flex		300mm

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Available Robot List III

Brooks Robot Model	• • • • •	• • • • •Maker	• • • • • • • • • •	• • • • • • • • • •	Wafer
ATR8(Reliance)	DRY ETCH	LAM DRY ETCH	2300 Versys		300mm
MAG 7	DRY ETCH	LAM DRY ETCH	2300 Exelan Flex		300mm
MAG 7	DRY ETCH	LAM DRY ETCH	2300 Versys		300mm
ATR8(Reliance)	DRY ETCH	NOVELLUS ASH	Sierra/Gamma		300mm
ABM-407	ETCH	KLA ELECTRICAL MEASUREMENT	Quantox w/Ultra-EOT Option		300mm
ATM-205	Thermal/Implant	SDI CV TEST	Faast 330		300mm
ABM-405C-1-S-CE-S293	Thermal/Implant	ThermaWave IMPLANT MONITOR	TP630		300mm
ATR8	Thermal/Implant	Varian MEDIUM-CURRENT	VIISTa 810		300mm
Dual Arm Robot-DBM-2706	Thermal/Implant	Varian MEDIUM-CURRENT	VIISTa 810		300mm
ATR8	Thermal/Implant	Varian VIISTA HCP HI CURRENT	VIISTa 80HP / VIISTa HCP		300mm
Dual Arm Robot-DBM-2706	Thermal/Implant	Varian VIISTA HCP HI CURRENT	VIISTa 80HP / VIISTa HCP		300mm
ATR8	Thermal/Implant	Hypernex GRAIN BOUNDARY MEASUREMENT	AutoTex30		300mm
ATR8	Thinfilm	Jordan Valley XRR/XRF THINFILM MEASUREMENT	5200T		300mm
ATM 407B + track	Thinfilm	Measure	KLA 5300		200mm
ATM 407B	Photo	Measure	KLA 5300		200mm
ATM 407B + track	Photo	Measure	KLA AIT		200mm
ATM 407B + track	Photo	Measure	KLA AIT		200mm
ATM 407B	Photo	Measure	AMAT SEM vision		200mm
ATM 407B	Photo	Measure	KLA 1800		200mm
Orbitran	Plasma	Ash	Gasonic L3500		200mm
ABM-107	Thinfilm	RUDOLPH OPAQUE FILM THICKNESS MEASUREMENT	Metapulse		300mm
ABM-405C-1-S-CE-S293	Diffusion	ThermaWave Optiprobe	OP5340		200mm
ATM 100	Diffusion	ThermaWave Optiprobe	OP2600		200mm

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