

SiSTEM Technology

Semiconductor and High Technology



Equipment Solutions



The Company

SisteM Technology is a full service company in operation since June 2004. Prior to this, SiSTEM's founder, Chris Ridge, had worked in the semiconductor and high technology industries for over 30 years in research and development, process engineering and later capital equipment distribution.

Our Goals

Our company goals are to supply to our customer's advanced technology products which meet their needs of quality build and reliability, on-time delivery, and competitive cost. Only in this way will we establish a justifiable reputation as a key supplier in what is an increasingly demanding and ever-changing advanced technology market place.

Our Suppliers

A key part of our success to date may be attributed to the impressive list of manufacturing suppliers that we are privileged to represent in the UK and Ireland, Europe and, in some cases, Globally. Many of these companies are world-wide leaders in their fields and they continue to contribute to the outstanding developments and ranges of products offered by the Micro and Nano-electronics, Photovoltaic, Thin Film display, and other High Technology industries.

Customer Support

From our offices in the Caswell Science & Technology Park, we support our customers across the UK and Ireland and in Mainland Europe. We offer installation, commissioning, warranty support, service contracts and upgrades from our factory-trained engineers who share our commitment to quality of supply.

Marketing and Affiliations

SiSTEM Technology has attended at many of the UK and Ireland exhibitions and conferences in recent years and our customer base continues to grow as a result of our ever-increasing exposure through these events. Our affiliations with the UK's leading trade associations for our industry, NMI (National Microelectronics Institute) and JEMI (Joint Equipment and Materials Initiative) also play a major role in helping to promote the goods and services our company provides.



Supplies that meet your time, cost and quality expectations.



Atomic layer Deposition



PICOSUN R-SERIES

Manual or semi-automatic processing for research and development



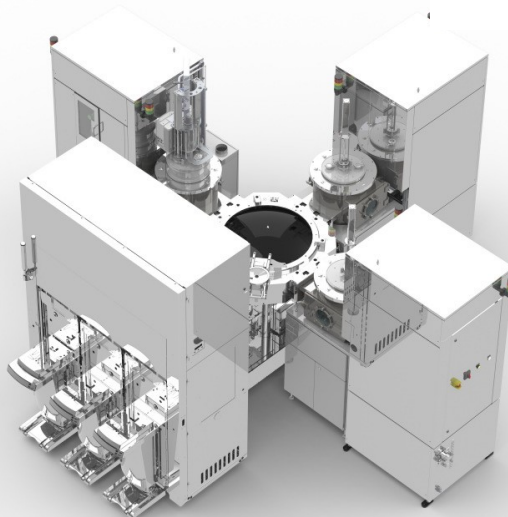
PICOPLASMA™ Source System

Picosun's innovative PICOPLASMA™ plasma enhanced ALD (PEALD) source system is based on a highly advanced, ion-free remote plasma source.



PICOSUN P-SERIES

Fully automatic single wafer, cluster and batch processes for high-volume manufacturing



Supplies that meet your time, cost and quality expectations.

Atomic layer Deposition



PICOSUN™ novel, innovative Roll-to-Roll ALD Coating System.

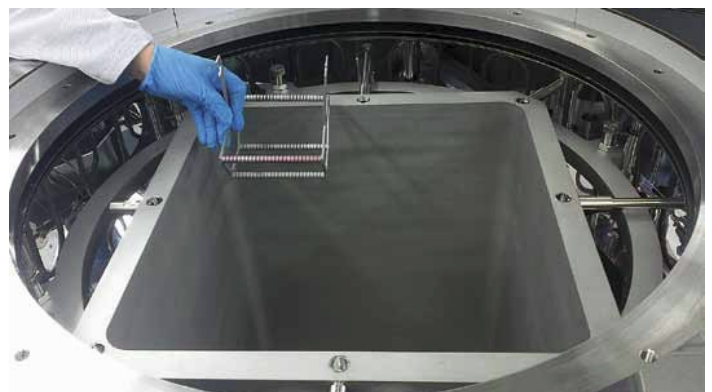
ALD is well suited technique for depositing thin inorganic coatings onto temperature-sensitive and/or flexible

Picofloat™ Particle Coating System

The powder to be coated is in a constant motion which ensures uniform ALD film formation on every particle down to nano-scaled dimensions

PICOSUN™ P-1000 ALD Reactor

Has an extra-large reaction chamber for wafers up to 450 mm diameter, sheets of glass, and large batches of 3D objects.



Supplies that meet your time, cost and quality expectations.

Sputtering Systems



MRC 603 Fully Refurbished



MRC 943 Fully Refurbished



New Confocal Sputtering Systems



New R & D Sputtering Systems



MRC ECLIPSE Fully Refurbished / Re-manufactured Sputtering Systems

Guaranteed to meet or exceed OEM Specifications

Supplies that meet your time, cost and quality expectations.

Photolithography

solarsemi

Spin Coat, Develop, Etch and Bake Systems



Supplies that meet your time, cost and quality expectations.



Wet Process

Wet processing stations and ancillaries for batch or single wafer substrates and wafers.

From simple manual though semi-automated to fully automated C2C systems.

International Standards - SEMI-S2, UL, CE.

Materials of construction; PP, FRPP, PVDF, CPVC and Stainless Steel



Simple PP acid etch bench



SS Solvent wet bench

Chemical Delivery Systems

Bulk Chemical Dispense Systems, Portable Chemical Handling Equipment, Chemical Dosing, Feed and Bleed



Semi-Auto Rotary Robot etch bench



Fully-Automated Linear Robotic wet bench

Chemical Heaters



Teflon In-line heater



Teflon Immersion heater



SH Gas/Solvent heater



Ultra-Pure DI water heater



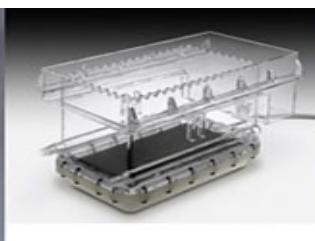
HOTSHOT Quartz chemical Heater



High Temp Filter Housing



Megasonics



Megasonic Tank Systems. Stainless Steel, Quartz or Kynar tanks with Direct mounted transducer arrays



MegPie Single Wafer Radial Megasonic transducer

Supplies that meet your time, cost and quality expectations.

Thermal Process



RCH ASSOCIATES, INC

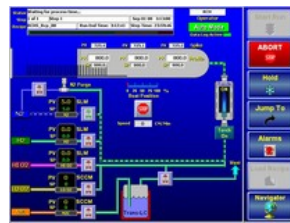
Horizontal Diffusion Furnaces

RCH Associates specializes in new LPCVD/Diffusion systems as well as replacement OEM gas systems (Thermco, Bruce, Tempress, ACS, etc.) fully retrofittable into existing or remanufactured source cabinets.

RCH's portfolio of products and capabilities extends from basic Bench Top Furnaces or Research Grade systems to high production, full capability horizontal stacks



The ASTRA CONTROL SYSTEM provides Ethernet-linked, integrated controls with touch screen graphical simplicity.



5600 Series Furnace System

Furnace Elements and Insulation Products



Electric Furnace Systems which operate in Air or Inert Gas to 3000 F.

- Heating Chambers for :
- Wafer Processing Furnaces, Muffle Furnaces and Industrial Processing
- Ceramic Vacuum Formed Fibrous Components including:
- Heating Elements and Custom Shapes
- High Temperature Gaskets & Seals for door jams, pillows etc.
- Vestibule Blocks
- Foundry Service: We offer a complete line of heating and insulation products



Vertical Furnace Element



Torch Element

Replacement Furnace Elements for TEL, ASM, SVG THERMCO, KOKUSAI, TEMPRESS and Others

Supplies that meet your time, cost and quality expectations.

Thermal Process

Vacuum and Convection Ovens



Fortrend-YES have partnered to develop the SIO-300-450 series of High Temperature, Air Cooled, Controlled Process Gas Composition, Laminar Cross Flow, Vertical Vacuum Ovens—the result of many years experience in the design of low particle and Oxygen Concentration systems.



The SIO-450-250 system incorporates the 450mm version of a state-of-the-art thermal curing chamber developed by Fortrend. The SIO-450-250 is offered for either vertical or horizontal wafer orientation to meet the process requirements. The system can have either one curing chamber with two FOUP's or two chambers with Four FOUP's to double the through put at lower cost.

450mm Automated High Performance Thermal Curing System, SIO-450-250

Supplies that meet your time, cost and quality expectations.



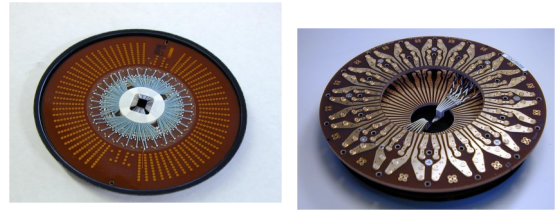
Probe and Test

Cantilever Probe Cards

Epoxy : Mainstream Applications and fine pitch down to 44 μm . Multi-die Testing. Fine pitch Shelf cards.

Blade: Hybrid devices testing, special applications.

Parametric Technology: Parametric testing, low leakage and ultra low leakage down to 1 FemtoAmp/Volt for Keithley/Agilent and others.



Probe Cleaning Materials



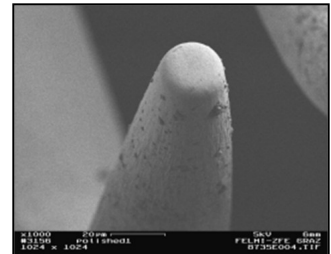
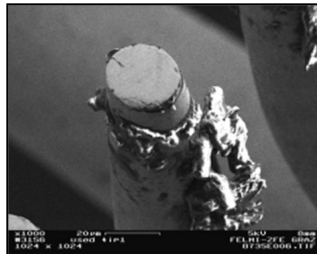
Probe Clean

Probe Polish

Probe Scrub

Probe Lap

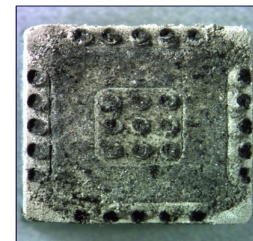
Probe Form



From flat contaminated tips To Cleaned and re-shaped tips

Test Socket Cleaning Materials

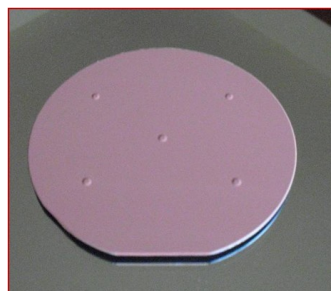
“On-Line” Test Socket Cleaning for Increased Yield with Reduced Rescreen



Chuck Cleaning Wafer Engineered Cleaning Solutions for Wafer Handling Tools and Wafer Chuck



Compliant Edge Ring
Wafer Handler Arm



Compliant Surface Eject
Features for ESC Chuck



Compliant Spoke Features
Pin Chuck and Handler Arm

Supplies that meet your time, cost and quality expectations.



Vacuum Traps

MV Multi-Trap®

High Capacity, High Efficiency, Vacuum Inlet Trap
Removes corrosive and abrasive particles that can destroy your vacuum pump
Extends Pumping System Preventative Maintenance periods by up to 2 times or more.
Common Applications are; LPCVD, PECVD, METAL ETCH, MOCVD, ION IMPLANT, HVPE,



MV Posi-Trap®

Foreline Trap Ensures positive flow with no “blow-by”
All stainless steel construction
Straight-thru and right-angle styles offered
Wide variety of filter elements to choose from



Midi-Mist™ & Maxi-Mist™

Stainless steel construction resists corrosion
Protects environment from vacuum pump exhaust
Drain plug for recovering pump fluids
Simple disassembly and cleaning
High-capacity coalescing filters drain oil into a large reservoir for easy recovery
Designed for large capacity vacuum pumps



VisiTrap®

Vacuum Inlet trap with transparent Sump
Select inserts for trapping particles, water, oil, or corrosive chemicals
Transparent sump shows when to change insert without removing from vacuum system



Visi®Flow

A compact, portable, self-contained system for continuously filtering mechanical vacuum pump fluid



Supplies that meet your time, cost and quality expectations.

Handling and Automation



Mass Wafer Transfer Systems .



PLM-C1™, Pod Lift Mechanism

PLUS 500R Pod Load/Unload System



Four cassette transfer robot types -> flexible combinations

Fortrend PLM-200 EUV SMIF Pod Opener



450mm FOUP Opener, FO-4500

Fortrend PIS 200 EUV Dual Pod Opener & Inner Box



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Handling and Automation



Reticle Storage Systems



Lamina-203 – Three load port configuration



Fortrend's eRack system

LED Sorters and EFEMs

50mm – 200mm Open Cassette Wafers

The LED Sorter is based on Fortrend's successful 200 and 300mm wafer sorters used in the Semi-conductor FABs.



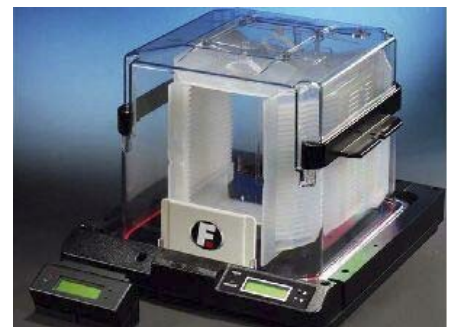
InforTrac® Hardware Solutions for Lot ID Tracking System

Three Protocols are available for all InforTrac® RFID Reader/Writer

- (4) SEMI SECS-II
- (5) ASYST TAG Messages
- (6) Custom messages



Reader RFT-2000x-LCD



Supplies that meet your time, cost and quality expectations.

PVD Thin Film Materials



Sputtering Targets

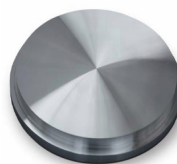
OEM Configurations:

- ConMag™ I, Quantum™ mini, for Varian™ 3180 /3190
- ConMag™ II for Varian™ 3280/3290
- Quantum™ M, L, XL for Varian™ M2000/M2i/3290
- Varian™ XM 90
- PerkinElmer™ 4410, 4450
- ANELVA™ 1012, 1013, 1015, 1051, 1060
- AXCELA™ 200/300
- ULVAC™ SRH420
- MRC™ 603, 943, SPA10, SPA12, RMX10, RMX12, Mulnset
- AMAT™
- Oerlikon™ CL200, LLS EVO

Al Targets



Oerlikon™ LLS



ConMag™ II for Varian™

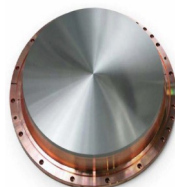


AMAT™ ENDURA

Ti Targets



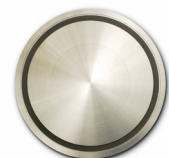
Quantum™ for Varian™ M2i



AMAT™ ENDURA



TANGO™



AVISA (TRIKON)™

Cu Targets



NEXX™



AMAT™ SIP

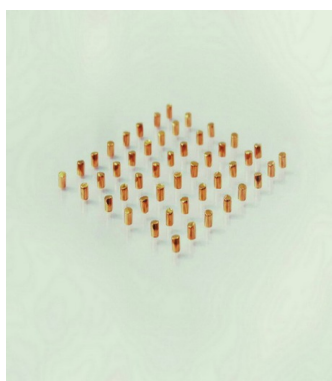


TANGO™

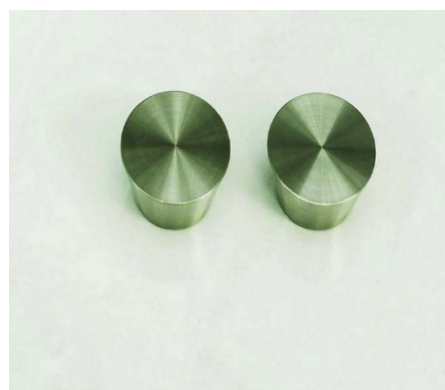


AVISA (TRIKON)™

Evaporation Materials



Cu evaporation material



Ni starter source material

Supplies that meet your time, cost and quality expectations.

Photovoltaics



Automated PV Cell Load/Unload Transfer System for Tray

TLS6030



For tray type PV carriers. This improved version offers back side contact only and PV cell transfers at the lowest cost of ownership to OEM customers. It is also equipped with advanced features like Fortrend proprietary on-the-fly cell breakage inspection system, broken cell recovery robot, empty cassette buffers, tray preheat cycles and manual tray load/unload port, and flexible tool interfaces for PECVD and RIE tool makers.

Automated PV Cell Load/Unload Transfer System for Ion Implantation System

RCT- 0602

Ion implantation is a technique that has been demonstrated to improve solar cell efficiency and eliminate process steps in standard and advanced cell designs. Fortrend has developed a high efficiency PV cell load/unload transfer system, RCT-0602, for PV ion implanters. This system transfers 6 cells in a batch to vacuum chamber from a single cassette and returns the cells back automatically. It is also equipped with advanced features like Fortrend proprietary on-the-fly cell breakage inspection system, broken cell recovery robot, and SCARA robot for transferring cells in and out of vacuum chamber.



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