



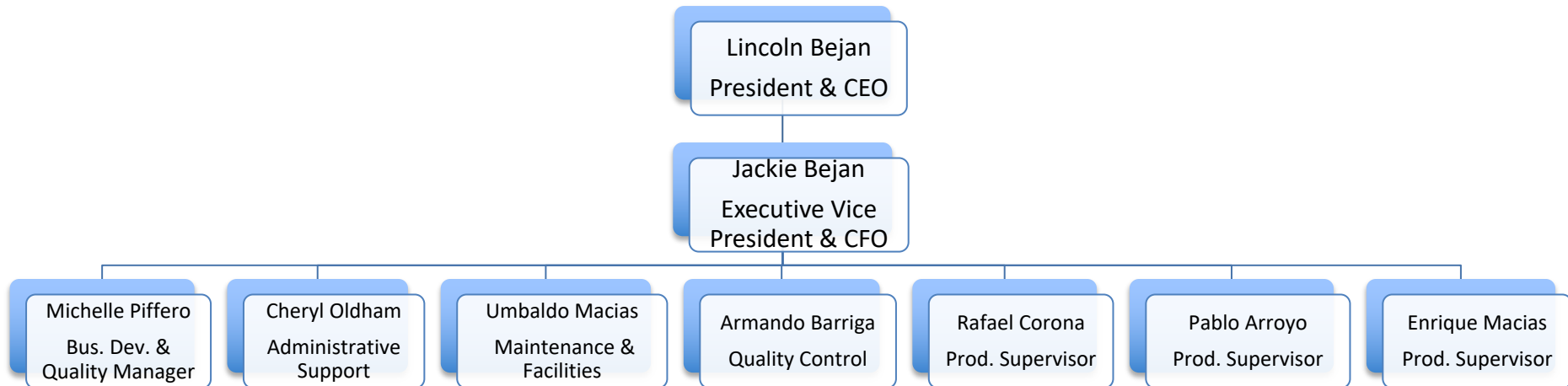
NanoSILICON, Inc.



Located in the heart of Silicon Valley San Jose, California.
NanoSILICON, Inc. was founded in 2010.



NSi Management



Facility #1, 9,400 sqft *
Facility #2, 5,440 sqft *



NSi Product Offerings

- Silicon Reclaim Services: 50.8mm Through 300mm Diameters
- Silicon Wafer Sales: 50.8mm Through 300mm Diameters
Virgin Test, Virgin Prime, Reclaim Grade
- Semi Standard And Custom Wafer Specifications
- Thermal Oxide And Other Thin Film Deposition
- Metrology: ADE, KLA-Tencor 6220, Nanometrics 210
- Alternative Substrates: Borofloat, Quartz, Fused Silica
- Inventory Management And Consignment
- Laser Cut Down - Edge Profiling - Laser Scribe
- Cassette And FOUP Cleaning, Destruction Of Scrap, R & D Services



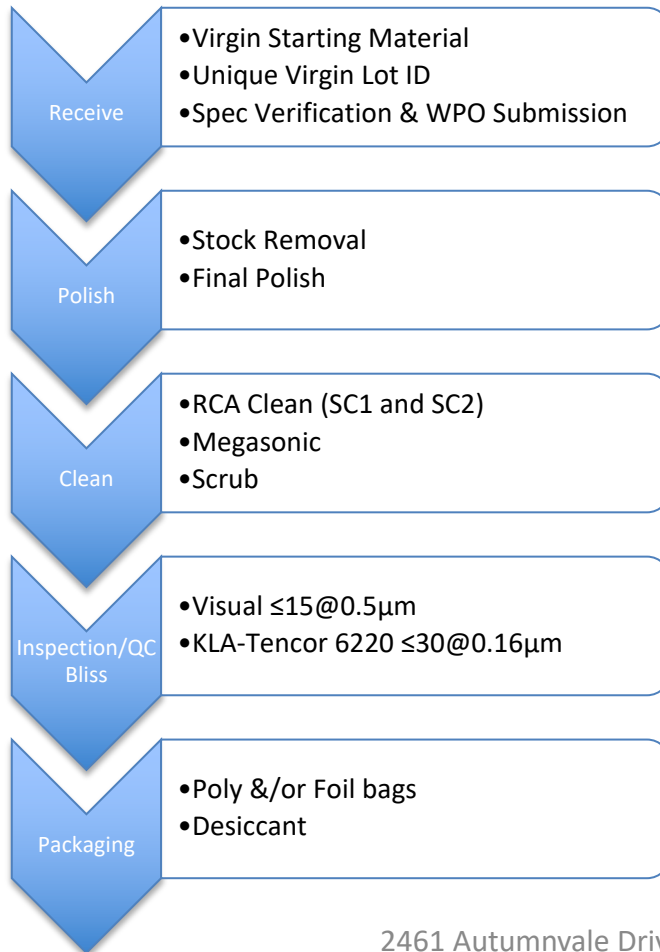
NSi Reclaim Capabilities

- Film Strip / Etch
 - Metal And Non-Metal Films
 - Separate Metal And Non-Metal Lines To Prevent Contamination
- Polish / Lap / Etch
- Laser Scribe
- Class 100 Clean Room
- Metrology
 - Type, Resistivity, Orientation, Particle Counting to $\leq 30@0.16\mu\text{m}$
- Specification Binning
- Full Final Disposition For Wafer Accountability

NSi Process Flow

Reclaim

Virgin Test & Prime





NSi Customer Lot Integrity

- Unique Traveler And Lot ID Per Specification
- Traveler Accompanies Wafers Throughout Production
- Production Alternates Diameters With Every Lot Change
- Each Department Records Yields And Approves Traveler Before Passing To The Next Production Step
- QA Checks, Guarantees, And Applies A Final QA Sticker Signifying Specification Compliance

Production Order: TEST 1234
 Start date: 04/01/2022 - 03:00 PM Due date: 05/02/2022 - 03:00 PM



Product	Obs	Quantity	
12P0 0-100 >675 SN R 1KA TOX	12P0 0-100 >675 SN R 1KA TOX	1000	
12P0 0-100 700-725 SN R	12P0 0-100 700-725 SN R	1000	
Order Nr	Client	Box quantity	
		0	
Product	Lot	Quantity	Estimated production time
12P0 0-100 >675 SN R 1KA TOX (12P0 0-100 >675 SN R 1KA TOX)	TEST 1234-A	1000	11000H00



Operation	Notes Machine	Time
Sort/PC		



1. Sort/PC -	#3 Low Resistivity - ADE Microsense 6033, #2 High Resistivity - ADE Microsense 6033, #1 Thickness - ADE Microsense 6033, #4 Thickness - ADE Microsense 6033, No Machine (Sort)	1000H00
--------------	--	---------

Polish



		1000H00	2. Strip -
--	--	---------	------------

Sort/PC



3. Sort/PC -	#3 Low Resistivity - ADE Microsense 6033, #2 High Resistivity - ADE Microsense 6033, #1 Thickness - ADE Microsense 6033, #4 Thickness - ADE Microsense 6033, No Machine (Sort)	1000H00
--------------	--	---------

Polish



	Polish, #11 P - Gigamat, #10 P - Strausbaugh, #13 P - Gigamat, #12 P - Gigamat, #7 P - Siltec, #6 P - Siltec, #9 P - Strausbaugh, #1 L - Peter Wolter's, #8 P - Siltec, #3 P - Siltec, #5 P - Siltec, #4 P - Siltec, #1 P - Siltec, #2 P - Siltec, #16 P - Siltec, #1 F - Strausbaugh, #14 P - Strausbaugh, #15 P - Siltec, #4 F - Strausbaugh, #2 F - Strausbaugh, #3 F - Strausbaugh	1000H00	4. Polish -
--	--	---------	-------------

Clean



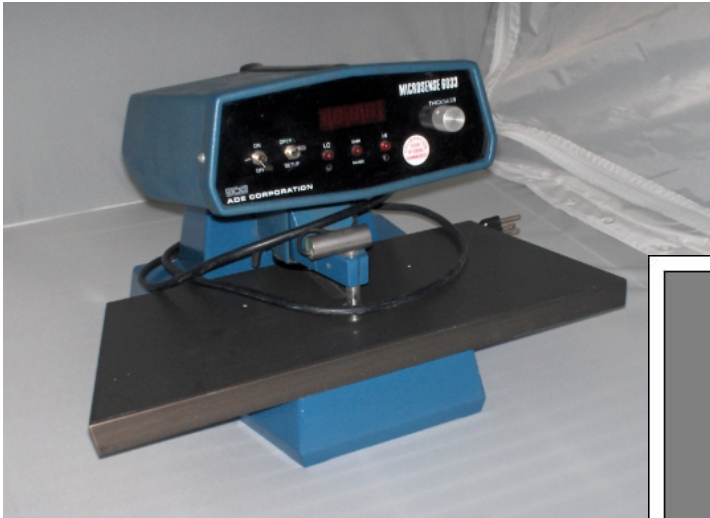
5. Sort/PC -	#3 Low Resistivity - ADE Microsense 6033, #2 High Resistivity - ADE Microsense 6033, #1 Thickness - ADE Microsense 6033, #4 Thickness - ADE Microsense 6033, No Machine (Sort)	1000H00
--------------	--	---------

QA/QC



	Polish, #11 P - Gigamat, #10 P - Strausbaugh, #13 P - Gigamat, #12 P - Gigamat, #7 P - Siltec, #6 P - Siltec, #9 P - Strausbaugh, #1 L - Peter Wolter's, #8 P - Siltec, #3 P - Siltec, #5 P - Siltec, #4 P - Siltec, #1 P - Siltec, #2 P - Siltec, #16 P - Siltec, #1 F -	1000H00
--	---	---------

NSi Metrology Tools



ADE Microsense 6033

Indicates Thickness, Resistivity, & TTV

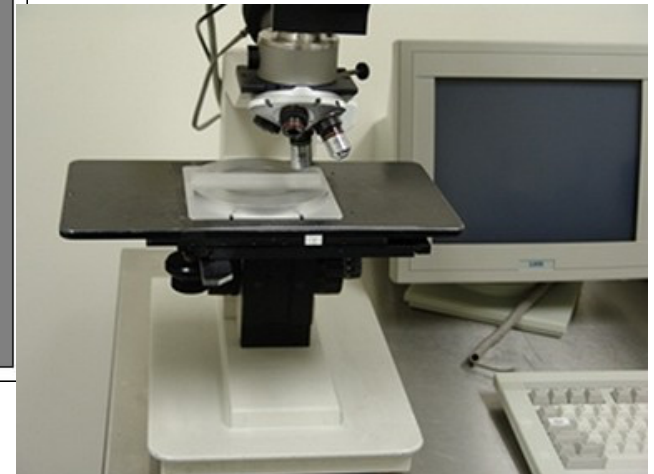
KLA Tencor Surfscan 6220 →
Maps Defects And Particles



Nanometrics 210



Verifies Oxide Film
Thickness And Uniformity





NSi Metals Policy

300mm
SILICON WAFERS

VPD ICP-MS Method Detection Limits, atoms/cm ²		
<i>Method detection limits for WSS, DFS and BSE ICP-MS vary depending on techniques.</i>		
Aluminum	Al	1e9
Antimony	Sb	1e7
Arsenic	As	2e9
Barium	Ba	8e6
Beryllium	Be	1e9
Bismuth	Bi	5e6
Boron	B	2e10
Cadmium	Cd	2e7
Calcium	Ca	1e9
Cesium	Cs	3e7
Chromium	Cr	3e8
Cobalt	Co	3e8
Copper	Cu	1e8
Gallium	Ga	2e7
Germanium	Ge	5e7
Hafnium	Hf	3e7
Iron	Fe	5e8
Lanthanum	La	1e7
Lead	Pb	2e7
Lithium	Li	3e8
Magnesium	Mg	5e8
Manganese	Mn	1e8
Molybdenum	Mo	1e7
Niobium	Nb	5e7
Nickel	Ni	3e8
Potassium	K	1e9
Rubidium	Rb	5e8
Sodium	Na	1e9
Strontium	Sr	5e7
Tantalum	Ta	2e7
Thallium	Tl	3e7
Thorium	Th	3e7
Tin	Sn	1e8
Titanium	Ti	3e8
Tungsten	W	5e6
Uranium	U	3e8
Vanadium	V	5e7
Yttrium	Y	1e8
Zinc	Zn	3e8
Zirconium	Zr	5e7

- ChemTrace Quarterly Metals Analysis
- VPD ICP-MS Method
 - Vapor Phase Decomposition Inductively Coupled Plasma – Mass Spectroscopy
- Thirty Different Elements Tested
- Focus On Nine Elements Important To The Semiconductor Industry

NSi Metals Data:

Copper Cu	<1E10
Chromium Cr	<5E10
Iron Fe	<5E10
Nickel Ni	<5E10
Calcium Ca	<5E10
Sodium Na	<5E10
Zinc Zn	<5E10
Aluminum Al	<5E10
Potassium K	<5E10



NSi ISO 9001:2015 Timeline



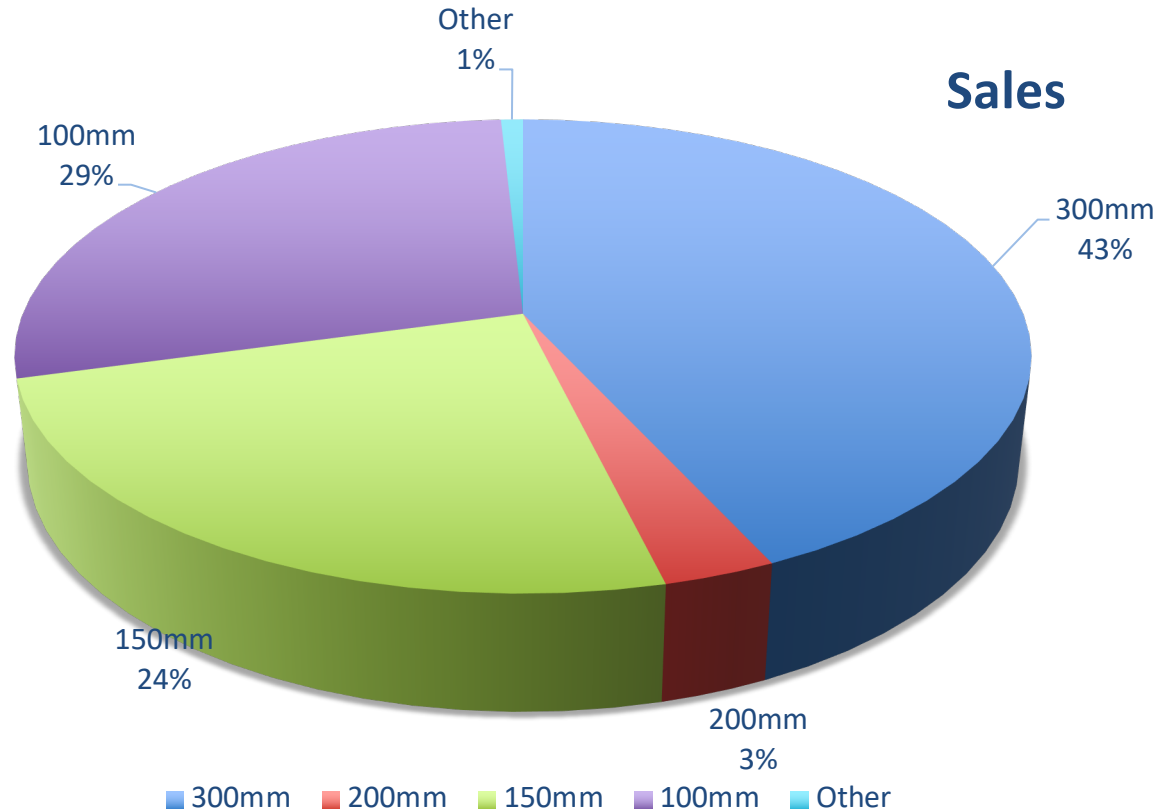
2021

- Signed On With Perry Johnson Registrar
- Implement All Inclusive ERP, CRM, WIP, And QMS Software System

2022

- Q2 Perry Johnson Gap Analysis
- Q3 Perry Johnson Internal ISO Audit
- Q4 Perry Johnson Certification Audit

NSi Sales By Diameter





NSi BCP And CSR

Business Continuity Plan

- Secondary Backup Tools
- Duplicate Facility
- Adequate Insurance Coverage

For All NSi Tools, Consumables, And Inventory

Corporate Social Responsibility

- Recycle Programs For E-waste, Plastics, And All Regular Waste
- Wet Scrubber System Surpasses Emission Standards Allowing Bay Area Air Quality Management District To Grant Permit Exemption
- Clean Harbors Collects All Hazardous Materials In Lieu Of Neutralizing In House And Eliminating Through The POTW System



NSi Summary

- **NanoSILICON, Inc.** is interested in becoming your wafer vendor, with the focus on following your lead.
- **NanoSILICON, Inc.** is a service driven entity and understands today's high demand to remain flexible with our customers.
- We will be price competitive and will not compromise our quality standards for the sake of market share.
- Thank you for your time. We look forward to working with you.



NanoSILICON, Inc.