

Pure wafer



QUALITY, RELIABILITY, AND COMMITMENT

WAFER RECLAIM | THIN FILMS | BROKERAGE | PARTS CLEANS | WAFER MANAGEMENT | FOUNDRY SERVICES

WWW.PUREWAFER.COM

QUALITY, RELIABILITY, AND COMMITMENT

Welcome to Pure Wafer, America's number one provider of prime grade silicon wafer reclaim, wafer processing and custom thin film coating services. For 30 years, Pure Wafer's commitment to providing high quality, high reliability silicon wafers has been the driving force behind its expansion, making it America's number one wafer reclaim leader.



Silicon Wafer Reclaim

- Comprehensive 32nm, < 37nm and >55nm wafer reclaim processing technologies
- Advanced wafer fabs in Prescott, Arizona and San Jose, CA California
- Industry-leading wafer processing services, 50mm to 300mm

**32nm, 37nm and 55nm
Wafer Reclaim Process
Technologies**



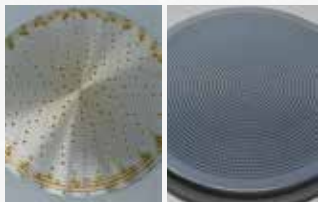
Thin Films

- Broad range of thin-films, PECVD, HDP, photoresist, PVD, ECU, CVD tungsten, CVD tungsten nitride, thermal oxides, annealing and metrology services
- Exclusive agreement with world number one semiconductor deposition company, Lam Research



Wafer Brokerage, Wafer Management Software and Parts Cleaning

- Wafer management software business enables customers to design & build products, and match specific needs. Wafer sharing, inventory management and custom reporting with user generated dashboards have made this a popular addition for customers
- Long-standing relationships with major silicon manufacturers allows for a broad range of 50mm to 300mm silicon products
- Parts cleaning business cleans the final critical parts of the largest OEMs in the world



PURE WAFER AT A GLANCE

35 Million

WAFERS AND COUNTING

Pure Wafer started reclaiming wafers in the micron era. It has witnessed more than 1000 times reduction in feature sizes, moving from sub-micron to the nanotech era over its 25-year history. Reclaiming wafers offers companies a cost-effective program for maximizing the value of previously used silicon substrates. Because of the high costs of prime grade silicon and the large volumes consumed, most semiconductor facilities, OEMs and R&D groups use reclaimed wafers to simulate, optimize and monitor their manufacturing processes and equipment. It is a highly complex process that requires experience and know-how. Pure Wafer has become the industry standard for high quality and high reliability silicon wafer reclaim services. Since its inception, Pure wafer has cleaned, reclaimed, and filmed more than 35 million wafers propelling its growth.

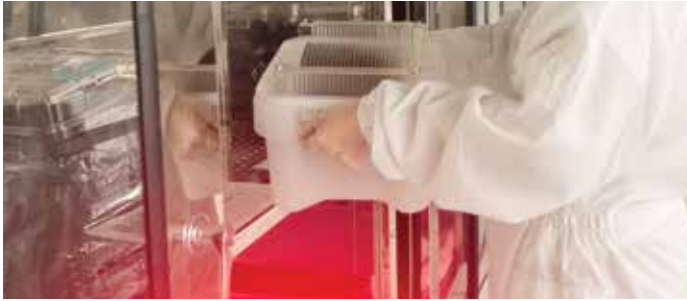
Quality and reliability are our calling cards. Today, our wafer products and services support the world's



- ✔ LOGIC IC MAKER
- ✔ ANALOG DEVICE MAKER
- ✔ ETCH EQUIPMENT MANUFACTURER
- ✔ THIN FILM DEPOSITION EQUIPMENT PROVIDER
- ✔ US FOUNDRY
- ✔ NUMBER ONE SEMICONDUCTOR MATERIALS PROVIDER

EXCELLENCE IN MANUFACTURING

Pure Wafer deploys the most advanced wafer reclaim manufacturing technologies carried out exclusively at its two fabs in Prescott, Arizona, and San Jose, CA.



CA FACILITY

Running since 1998, services include:

- Customer fabrication, specialty engineered products
- Services wafer diameters from 100mm - 300mm
- Glass and quartz reclaim services
- Reclaim of AlTiC Wafers with Thin films
- Laser marking capability
- Lapping
- Cassette cleaning
- Wafer grinding
- Thermal oxidation (up to 150,000Å)
- 300mm photoresist services



AZ FACILITY

The Prescott, AZ plant has been running since 1998. It provides advanced reclaim manufacturing:

- Services wafer diameters from 200mm - 300mm
- Only US based low particle reclaim facility
- Cassette cleaning
- 44,000 square foot facility serves large IDMs
- RFID capability
- Advanced SPC control of key parameters
- Automatic data collection, lot tracking

PRODUCTS & SERVICES

Wafer Products

50mm to 300mm virgin, prime grade and test grade silicon wafers
50mm to 300mm dummy silicon wafers
300mm low particle material (LPDs down to 19nm level)
Ultra-flat SSP and DSP silicon wafers
Ultra-thin and ultra-thick SSP and DSP silicon wafers

Custom Wafer Processing Services

50mm to 300mm

Custom Thin Film Coatings

PECVD, HDP, Photoresist, PVD, ECU, CVD Tungsten, CVD Tungsten Nitride, thermal oxides, annealing and metrology services

Parts Cleaning

Pure wafer cleans the final critical parts for the largest OEMs in the world. These parts are used by manufacturers to support 10 nm to 3 nm technology nodes. Pure Wafer parts cleaning is used by the world's top IDMs to make CPUs, IoTs, MCUs, Sensors and much more...

Wafer Brokerage

Pure Wafer has long standing relationships with major silicon manufacturers, allowing for a broad range of 50mm to 300mm silicon products. Pure Wafer also offers glass, quartz, gallium arsenide (GaAs), silicon-on-insulator (SOI) wafers.

Wafer Management Software

Innovative wafer management software enables efficient, cost-effective silicon wafers. Customers are able to access up to the minute inventory, design and build products to match their specific needs and even track orders in real-time. Wafer sharing, inventory management and custom reporting with user generated dashboards have made this a popular addition for customers.



CUSTOM DEVELOPMENT & FOUNDRY SERVICES

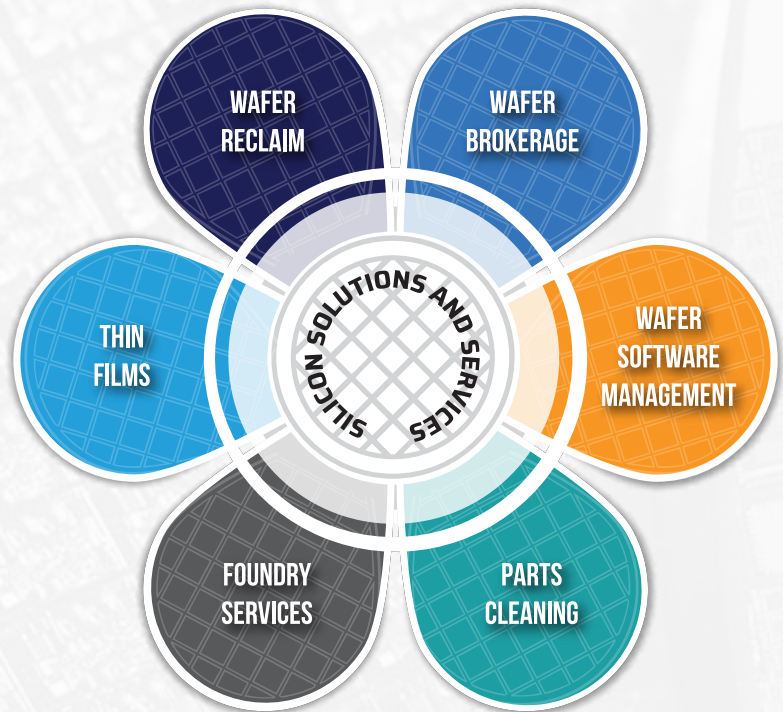


FROM NOEL TECHNOLOGIES

- Advanced lithography
- Thin films
- Engineering services
- Custom processes
- Chiplets
- Development work



COMPREHENSIVE RANGE OF WAFER PRODUCTS AND DEVELOPMENT SERVICES



GLOBAL SALES, SERVICES & SUPPORT

Pure Wafer's prime grade silicon grade silicon wafers, reclaim, and specialty films services are backed by world-class customer service helping to maintain our position as the industry standard for quality and reliability. We provide support to our customers throughout the United States, Europe, Japan and Southeast Asia.

HEADQUARTERS, PRODUCTION FACILITY & SALES OFFICE

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San Jose, CA 95131
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408-845-0765

FILM SALES AND MATERIALS

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360-891-9344

PRODUCTION FACILITY

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Prescott, AZ 86301
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ISO 9001 CERTIFIED
ISO 14001 CERTIFIED

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CAGE: 78NC6

