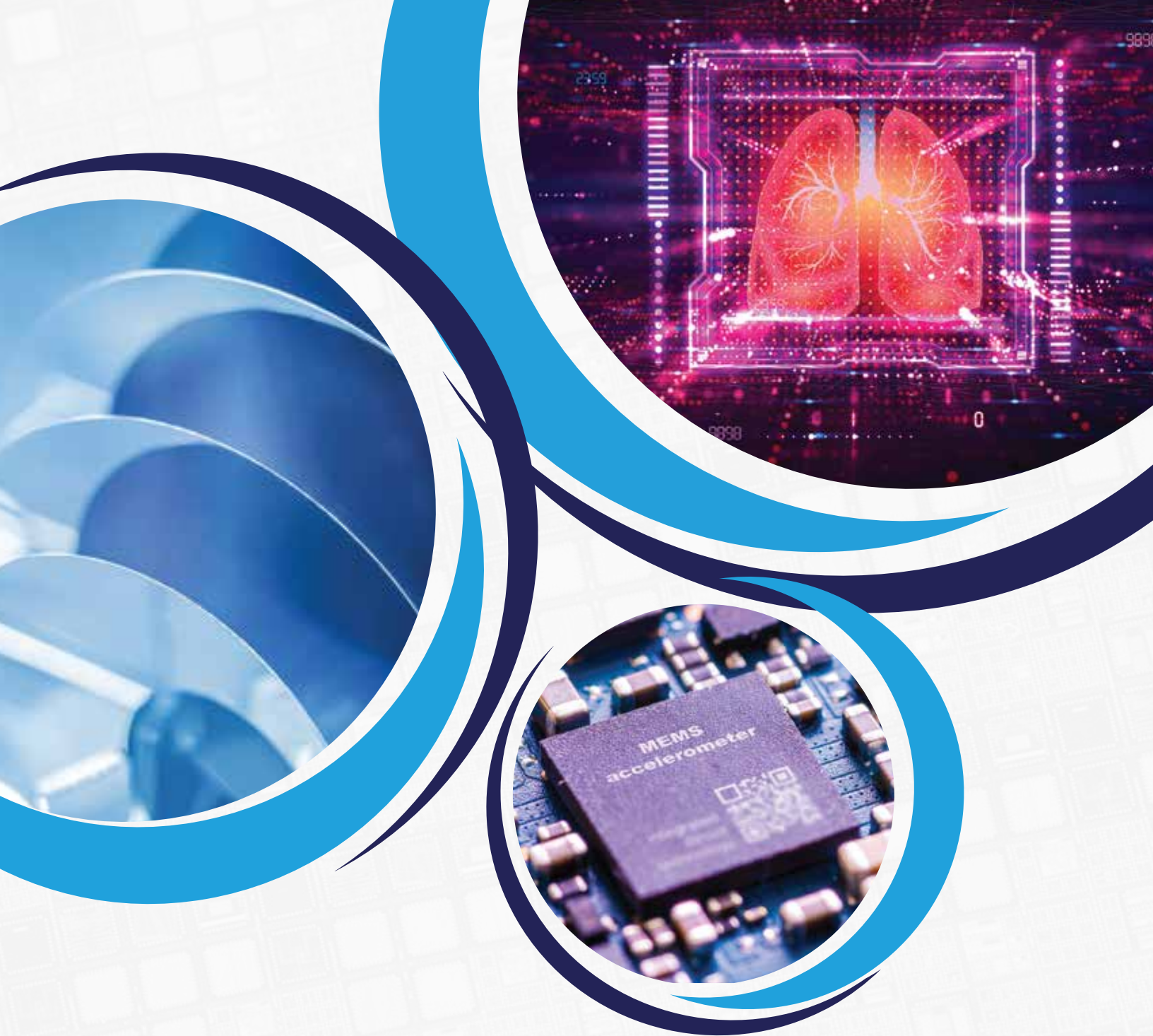




BRIDGING THE GAP BETWEEN **DESIGN AND PRODUCTION**

FOUNDRY SERVICES | WAFER RECLAIM | PROCESS DEVELOPMENT | OPTIMIZATION | ADVANCED LITHOGRAPHY
THIN FILMS | MULTI-LAYER PROCESSING

WWW.PUREWAFER.COM



Pure Wafer Foundry services delivers process development and optimization solutions for fabless semiconductor companies, IDMs, OEMs and the startup community, offering a wide range of development services that bridge the gap between design, and production. We have been innovating for more than 30 years, helping to create novel applications in life sciences, photonics and MEMS.

Although we have served industry leaders for more than 30 years, including customers like Apple, IBM, Intel, AMAT, KLA, VLSI and ONTO - we also support the start-up community serving as a much needed development resource and partner that enables start-ups access to cost effective and timeline prototyping and other development services.

Single & Multi-Layer Processing

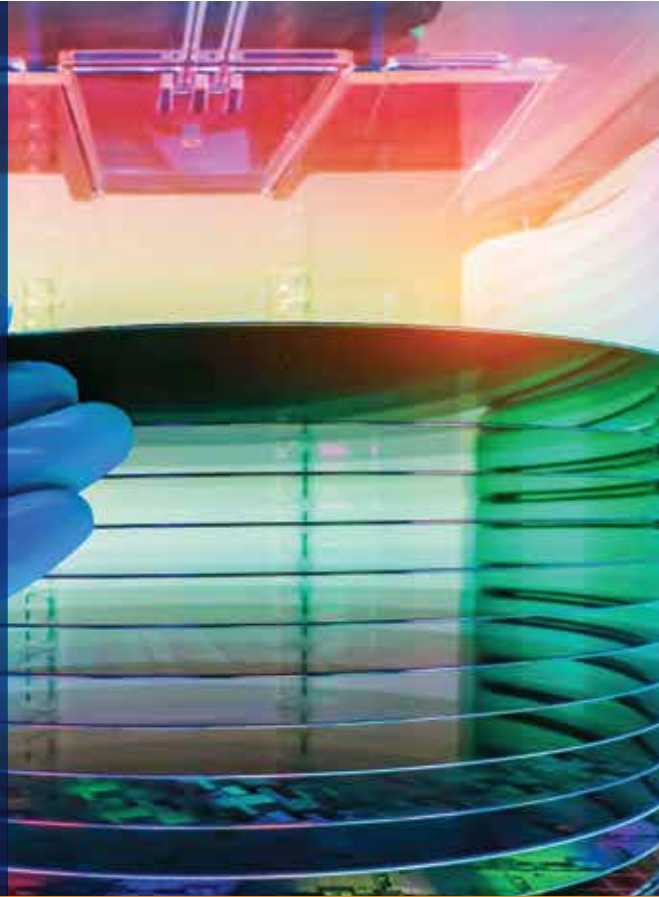
- Dielectrics
- Thin Film PVD Metals
- Photo Resist
- Lithography

Setting Wafer Standards

- Establish metrology & Inspection standards
- Industry proven for decades with SEMI equipment specification standards

Sensors, MEMS, Photonics

- Power electronics support EV, automotive growth
- MEMS (Micro electro-mechanical structures) used in health care, bio science and industrial
- Microfluidics to sensors MEMS, Photonics segment
- Photonics electro optical modulators used in automotive, data centers, and acoustic applications



DEEP DEVELOPMENT EXPERTISE

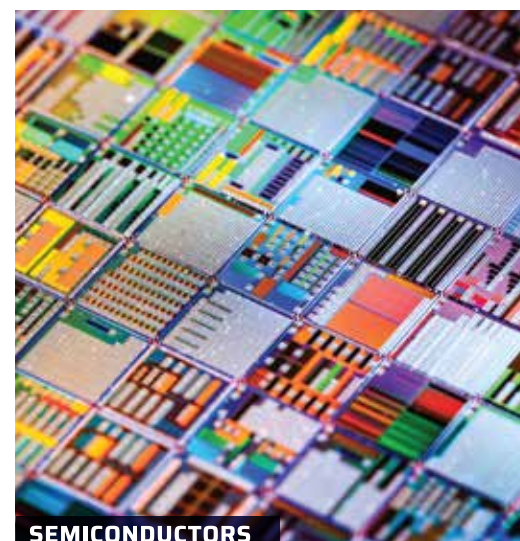
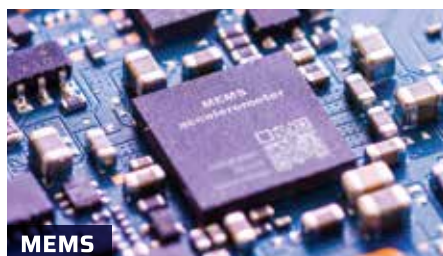
Lab to Fab Production
Versatile Tool Sets
Broad Range of Materials
Collaborative Approach
Dielectrics and Metals

Lithography
Advanced Engineering
Applications Development
50mm Wafer to 300 mm
Wafer Coverage

Semiconductors
Biotech
MEMS
Photonics

ENABLING NOVEL APPLICATIONS IN SEMICONDUCTORS, LIFE SCIENCES AND MEMS

Development, characterization and validation are critical process steps in biotechnology as they are in semiconductor manufacturing. Those same critical semiconductor materials used to develop the latest chips are also pioneering innovations in life sciences. Often though, early prototyping is a challenge as production concerns override early-stage development programs. That's where PURE Wafer comes in. PURE WAFER leverages its unique range of foundry services, including 30+ years as a key development hub for early-stage biotech prototyping helping to bridge the gap between the lab and the fab.





WAFER RECLAIM

Industry leading wafer reclaim process technologies down to 19nm and 26nm defect counts

Advanced wafer fabs in Prescott, Arizona and San Jose, CA California

Industry-leading wafer processing services, 50mm to 300mm

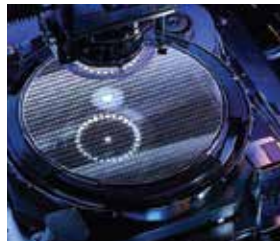
LITHOGRAPHY

Stepper

200mm >0.5mm

150mm >1um

100mm >1um



Contact Printing 1x

300mm >2.0um Features

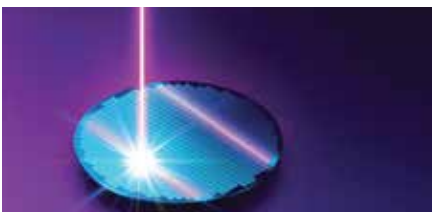
200mm, 150mm, 100mm,

50mm >2.0um Features

Mixed Lithography

Stepper & Contact

Non-Standard



PHOTORESIST

- 365nm: 1um to 20um
- 193nm: 700A to 7KA
- 248nm: 7KA to 2um
- Plating Resist 30um - 75um
- SU-8: 5um to 50um

THIN FILMS 300MM & SMALLER

Dielectrics

- Thermal Oxide
- LPCVD Nitride
- PECVD SiO2

PVD Thin Film Metals

- Titanium
- Titanium Nitride
- Chrome
- Aluminum



WET CHEMISTRY ETCHES

- Silicon Etch: KOH, TMAH
- BOE 10:1, HF 10:1, HF 100:1
- Poly Silicon, ITO, ZNO, AZO
- Chrome, Ti, TiN, Al

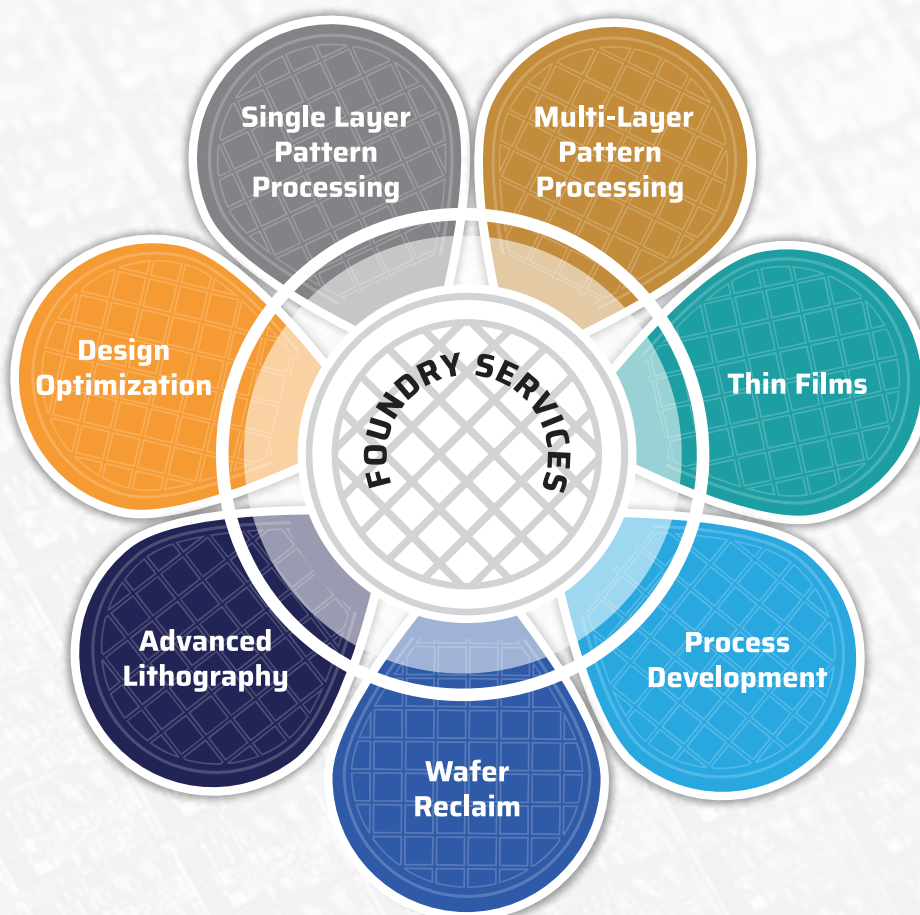
CAPABILITIES

- 50mm to 300mm Substrate Capabilities
- Top supplier of semiconductor film standards
- Full wafer device manufacturing for in-situ applications - development to production

PLASMA ETCH

- Fluorine based chemistries including CF4, CHF3 & SF6 with O2 and/or Argon carrier gas
- Critical dimension ranging from 0.5um and greater
- Photoresist thickness ranges: 6,000A to 10.0um
- Post-etch photoresist removal: EKC solvent strip, O2 plasma ash or Piranha (hot sulfuric)
- Deep Si, TSV, Dielectric Etch Capability

COMPREHENSIVE SILICON SOLUTIONS AND SERVICES



Serving Semiconductors, Life Sciences, MEMS and Photonics

Headquarters, Production Facility & Sales Office

2240 Ringwood Avenue San Jose, CA 95131

Phone: 408-945-8112

Fax: 408-845-0765

Account Payable: x 303

Shipping & Receiving: x 325

Production Facility

2575 Melville Road Prescott, AZ 86301

Phone: 928-771-8900

Fax: 928-771-8901

Account Payable: x 518

Shipping & Receiving: x 520

Film Sales and Materials

12117 NE 99th Str, Suite 1930 Vancouver,
WA 98682

Email: films@purewafer.com

Pure Wafer Foundry Services

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Phone: 408-374-9549

Email: foundry.services@purewafer.com

Pure Wafer Customer Service

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Carol Pabon, General Manager

Email: carol.pabon@purewafer.com



Lam Research
Preferred Supplier
Award Recipient



Your Pure Wafer Contact

Name:

Email:

Telephone: