THERMCO SYSTEMS

INNOVATION, EXPERIENCE & RELIABILITY

SOLUTIONS

Thermal Diffusion, LPCVD, Graphene, Carbon Nanotube
Wet Processes Clean, Etch, Strip, Metal Lift-off, Porous Si
Epitaxy n-doped, p-doped, p & n doped, silicon materials, SiC

THERMCO
T-CLEAN

FULLY AUTOMATED, SEMI-AUTOMATED AND MANUAL WET BENCHES

Thermco design and manufacture a comprehensive range of wet benches for semiconductor and related electronic manufacturing processes. From simple manual stand-alone R&D applications, to fully automated production wet benches with connectivity to the fab host via SECS/GEM.

R&D, PILOT PROCESS, VOLUME PRODUCTION

WET PROCESSING SOLUTIONS

- Clean & Etch
- Pre-diffusion / RCA Clean
- Standard Clean SC1, SC2
- BHF / BOE, QDR
- Ultrasonic, Megasonic , Agitation
- Metal Lift-off
- Porous Si
- Single wafer cleaning
- Electroless metal deposition Au, Ni, Pd, Cu, Ag
- Furnace Tube & Quartzware Cleaners
- MEMS Process Systems
- Bespoke Processes
- Aqueous & Solvent applications

High reliability process solutions for FEOL and BEOL technologies

FULLY AUTOMATED WET BENCHES FEATURING

Cassette load-unload processing of 25 - 50 ≤ 300mm substrates. 3-axis ultra reliable cartesian robot serving multiple process and rinse baths. Reduced Surface Tension Dryer or SRD. Multiple recipe setting via HMI with P&ID real-time display and maintenance facility. SCADA based control system with full SECS/GEM interface to fab host.

WET BENCH OPTIONS

Process baths with filtered recirculation, chemical monitoring and dosing control, ultrasonic, megasonic, and robotic agitation in a variety of materials including Polypropylene, Quartz, PVDF, and PFA. QDR with resistivity monitoring & recirculation / weir bath. Glove wash and sample port. Solvent or Aqueous applications, stainless steel or Polypropylene construction, Fire Suppressant System and FM4910 compliance.

HMI AND CONTROL SYSTEM

PLC based control system with 64-bit SCADA designed for process control, manufacturing systems and open automation applications. Compatible with .NET platform and Microsoft operating systems.

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Thermco Systems is a market leading manufacturer of Semiconductor Production Equipment (SPE).

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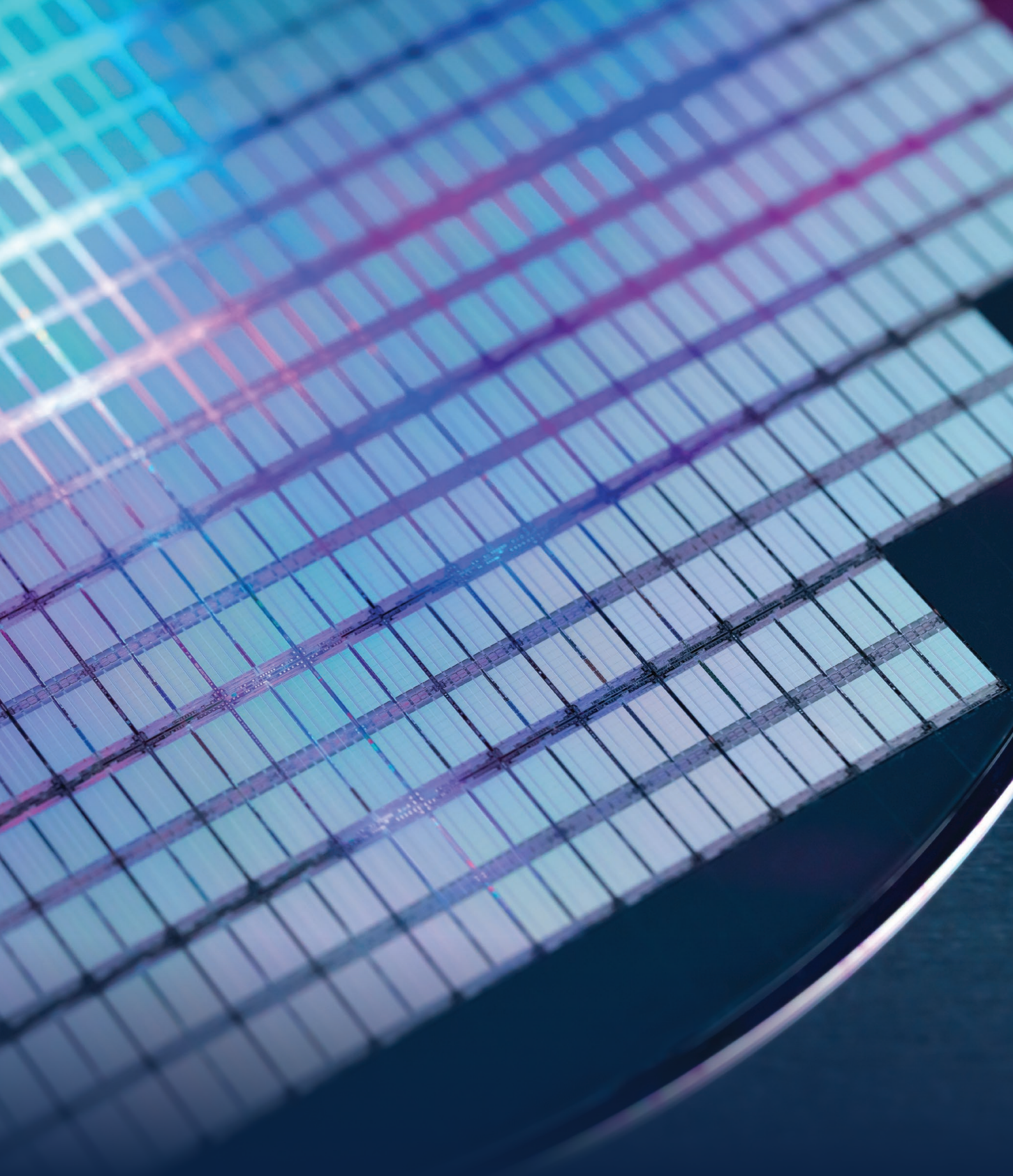

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