Safire 3.0 Firing Furnace with DriTech Dryer
The tools you need for process perfection

The new Safire™ is designed and built on a foundation of high throughput and mass production with the features needed for process separation, stability, high uptime and the ability to tailor thermal profiles. The redesigned heating/cooling sections and belt movement system ensures the greatest degree of firing repeatability and capability for cell efficiency optimization in a high throughput platform.

The Safire’s dual independent chamber design eliminates lane-to-lane loading influence. Microzone™ Technology provides the ability to precisely tailor the burn-out interval, the time above melting temperature and peak firing. SolectFire™ enables independent temperature control of top and bottom zones for optimal frontside and backside firing.

The Safire is integrated with the DriTech™ dryer which decouples VOC removal from the burn-out process. The new oxidizer ensures ultra high VOC destruction efficiency without clogging and prevents furnace and facility contamination.

Features at a Glance
- Uniform, stable and repeatable cavity temperature (+/- 2°C)
- Dual independent chambers with no lane to lane influences
- Uninterruptible power supply
- Rapid thermal ramping (up to 250°C/sec)
- Enhanced thermal cooling (up to 200°C/sec)
- Up to 15,000 mm/min belt speed
- Edge contact belt with Ti alloy coating
- Master production control interface
- Enhanced Microzone™ Technology for precise thermal profile control
- Enhanced SolectFire™ Technology for top/bottom temperature control
- Data logging and data trending
- DriTech™ Dryer with integrated VOC Thermal Oxidizer
- Hot swappable lamps on furnace

Setting the pace for the industry
99% uptime
9,000 wafers/hour

Thermal Processing Technology
The high-performance Safire 3 firing furnace has segmented and optimized critical components of the cell process for maximum control and stability. Burn-out is separated from firing for proper binder removal, a contamination-free firing zone and a stable, repeatable thermal experience.

The advanced features and technology designed into the integrated Safire and DriTech offer a complete solution capable of achieving process perfection with all materials and architectures. Additional options such as the in-situ belt cleaner and PowerLock LID prevention bring even more value to the system.

**OPTIONS**
- Profiling systems
- CE compliance
- In-situ belt cleaner
- Intermediate exhaust oxidizer
- PowerLock LID prevention

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**POWER LOCK™ LID PREVENTION**

PowerLock™ LID Prevention minimizes the effect of light induced degradation.

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**Notes:** Specifications are subject to change without notice. Contact Despatch Industries for the most updated specification. *Front-side printed last. Throughput dependent on belt speed, paste type, solvent load etc.*