



# MINILOCK DUO

Dual Chamber



The Minilock Duo allows two independent process modules to be coupled to a vacuum loadlock. This increases a researcher's capabilities by not exposing samples to atmosphere between layers. The system can be configured for 8 inch, 300mm, or 450mm chucks in a footprint that is the same as a typical single chamber system from our competitors. Any combination of the following process modules is possible: PR Strip, RIE, PE, ICP, DRIE, PECVD, HDCVD, PVD, or ALD.

## TOUCH SCREEN



The touch screen interface provides the operator with full process information at all times. The intuitive software interface guides the operator through each sequence in a logical fashion, and gives fingertip control of all process parameters.

A Program Logic Controller on each module provides simple and reliable system control. The standard Trion Technology interface ensures quick connections to all components, and the additional ports allow for future upgrades.

## MINILOCK



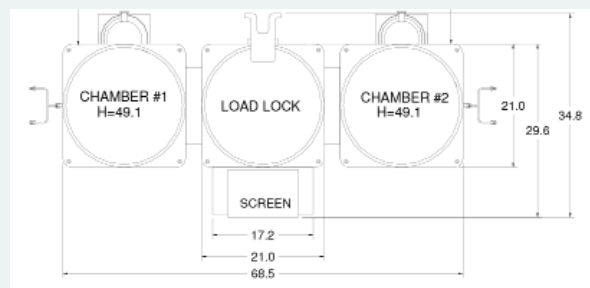
The vacuum loadlock is a separate chamber to load the samples. It has a slit valve to each module that allows the reactor chambers to stay under vacuum. There is a robotic arm that has a direct drive pick-and-place mechanism that provides high reliability, and accurate loading.

## SAFETY

Our systems have been designed and manufactured following Semi S2 guidelines, and are CE compliant. Large, well-marked EPO buttons are placed on the front of the system so the system can be easily put into shutdown mode should any dangerous situation arise.

## FACILITIES

Facility schematics can be provided upon request.



## A COMMON CORE



All main components are used across the complete product platform. This means that they are time tested for production, easier to support, and result in a lower cost of ownership.

This approach has also resulted in improved reliability and uptime as it is easy to identify potential issues from our experiences from production that are transferred back into the core platform.

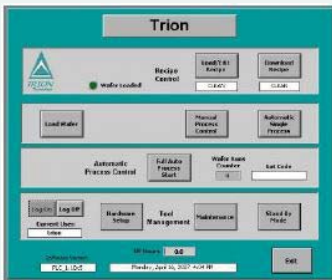
## PROCESS LAB



Trion Technology operates a full Applications Laboratory that can provide guidance, and support of our customers through a large process library. Standard datasheets can be provided for a wide range of applications such as:

- Photoresist Strip
- De-scum
- Failure Analysis
- General Dielectric Etch
- Deep Silicon
- Compound Materials
- Metal Etch
- Photovoltaics
- PECVD
- PVD
- ALD

## SOFTWARE INTERFACE



A consistent software interface gives the user a sense of familiarity and confidence in tool operation. It is easy to do major code updates whilst retaining recipes, and the software also allows easy recipe transfer between systems, and includes hardware diagnostics, data logging, easy hardware configuration, and can be interfaced to factory automation software.

Please also consider Trion Technology to provide process solutions for:

**PR Removal**  
**RIE**  
**PE**  
**ICP**  
**PECVD**  
**HDCVD**  
**PVD**  
**PEALD**



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Founded in 1989 by Randy Crockett, Trion Technology is a privately held company that manufactures leading-edge processing equipment in the USA. We delivered our first system to Sematech in 1990, and have an installed base of over 550 systems. Our customers range from a small university department, to a start-up with limited funding, to large corporations running 24/7 production operations. With such a diverse customer base, and a 25+ year process library, we are uniquely positioned to provide a true "Lab to Fab" philosophy.

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