



# Bruce Technologies Inc.

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## S-300 Specifications

Uptime: >98%  
 MTBF: 500 Hours  
 MTTR: Recovery = 5 minutes  
 Repair = 4 Hours

Maximum Load Capacity:

<u>Wafer Size</u>	<u>Quantity</u>
100mm	300 Wafers
125mm	300 Wafers
150mm	300 Wafers
200mm	300 Wafers
300mm	100 Wafers

## S-300 Multiple Boat Cantilever Loading System

The S-300 automated multiple boat horizontal furnace cantilever loading system is a low cost system designed to assist the fab operator in safely loading and unloading wafer boats to all cantilevers on a furnace stack. Operators place boats onto the load platform at an ergonomically correct height eliminating the need for operators to climb ladders or perform the repetitive motion of loading wafer boats onto the silicon carbide paddle. Load times are typically less than 3 minutes. Control and setup is through a single color flat panel touch screen, instructions are in plain English.

The S-300, mounts directly onto the load station and is compatible with any furnace and cantilever system. Using casters and quick disconnect latches the S-300 can be quickly removed from the load station to allow for maintenance.

SECSII/GEM interface is available for factory host communication.

- **Provides safer working environment**
  - *Eliminates need for ladders*
  - *Eliminates awkward loading*
  - *Provides ergonomic correct loading*
- **Reduces cleaning needs in load station by:**
  - *Eliminating of Quartz Chips*
  - *Removing source of Particulate Contamination*
- **More controlled process repeatability for greater product uniformity, reducing “tweaking time”**
- **Quartz boats/baffles are stored on paddle when not in use - retrieved automatically only when needed**
- **Reduces Quartz Consumption**

*Note: Specifications are subject to change*

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