

Secur-Lok™ Quartz Boats

The *iSiS* Secur-Lok™ Quartz Boats are specially designed for the *iSiS* Saf-Lok™, Sur-Lok™, & Sur-Lok II™ Self-Locking Quartz Boat Handle and the standard series of Norton™ Silicon Carbide paddles. The boat can be used for low, medium, and high temperature process applications for atmospheric and LPCVD horizontal furnaces running 150 mm silicon wafers.



The boat's unique footprint and upper rail design allow only direct contact between the bottom of the quartz boat and the flat of the SiC paddle. By eliminating any contact between the rail support bands and the paddle wings, boat warpage, caused by long process cycles at high temperatures, is no longer a problem. This design also helps to reduce particles due to quartz chips which are common to conventional and shell-shaped quartz boats which contact the paddle wings.



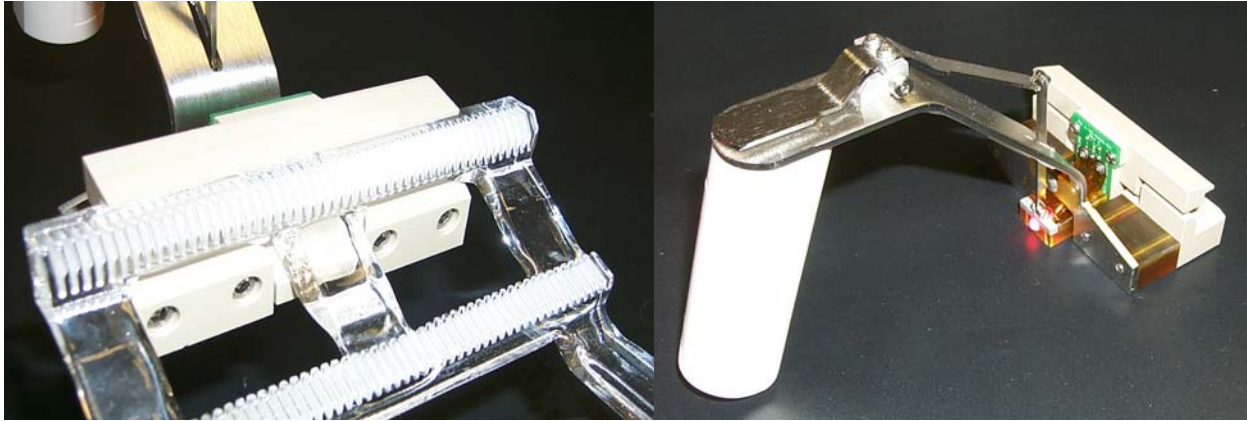
The boats machined upper rail and support band are specifically made for the *iSiS* Saf-Lok™, Sur-Lok™, and Sur-Lok II™ Self-Locking Quartz Boat Handle. The specially contoured center rail support band works with the handle's self-locking mechanism to hold the boat in place. Securing the handle to the boat is as simple as sliding the handle under the edge of the boat and lifting gently. The locking mechanism pivots automatically, securing the boat to the handle. To release the boat, gently set the boat down and the locking mechanism will release and pivot out of the way.

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This footprint of the Secur-Lok™ Quartz Boats is identical to that of the 50 slot Norton™ Silicon Carbide Contiguous Boats for 150 mm wafers. This feature allows the use of a single transfer adapter to be used for both the *iSiS* Secur-Lok™ Quartz Boats and the 50 slot Norton™ Silicon Carbide Contiguous Boat in most wafer transfer machines including Mactronix and Comet.

Ordering Information

Part Number	Description
6-80-0051-00	Contiguous Carrier, 51 Position, 150mm
6-80-0125-00	Boat, 25 Slot, High Temp, 150mm
6-80-0126-00	Boat, 26 Slot, High Temp, 150mm
6-79-0150-00	Boat, 50 Slot, High Temp, 125mm
6-80-0150-00	Boat, 50 Slot, High Temp, 150mm
6-80-0151-00	Boat, 51 Slot, High Temp, 150mm
6-80-1051-00	Boat, 51 Slot on 50 slot Base, 150mm
6-80-2051-00	Boat, 51 Slot on 50 slot half round base, 150mm
6-80-0152-00	Boat, 52 Slot, High Temp, 150mm
6-79-0152-00	Boat, 52 Slot, High Temp, 125mm, 3rd rd paddle
6-79-0152-01	Boat, 52 Slot, High Temp, 125mm, flat paddle
6-82-0010-00	Dummy Boat, 14 Slot, High Temp, 150mm
6-82-0020-00	Source Boat, High Temp, 150mm
6-82-0022-00	Source Half Boat, High Temp, 150mm
6-82-0030-00	POCL Baffle Boat, High Temp, 150mm
6-82-0040-00	Baffle Boat, 6 slot, 5 Disc, High Temp, 150mm
6-82-0050-00	Baffle, 5 Disc, 150mm
6-84-0150-01	Disc, One Hole, 150 mm
6-84-0150-04	Disc, Four Hole, 150mm
6-84-0150-19	Disc, Nineteen Hole, 150 mm

Saf-Lok™, Sur-Lok™, & Sur-Lok II™ handles for Secur-Lok™ Quartz Boats, and Saf-Lok™, Sur-Lok™, & Sur-Lok II™ handles for Norton™ Silicon Carbide Contiguous Boats and Half-Contiguous Boats are also available. Contact **innovative Silicon Systems** for more information.

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