



# Brooks On-Board<sup>®</sup> Upgrade for xR-80 Ion Implanters

## Turn-Key Upgrade Package:

Brooks offers a performance-enhancing, fully-integrated On-Board Cryopump upgrade solution for all 9000 series and xr80 series Ion Implanters:

- On-Board 10 Cryopumps replace the Cryo-Torr<sup>®</sup> 10 Cryopumps on the SIDE and REAR Stations.
- Single-compressor systems are upgraded with two Model 9600 Compressors.



## Value Proposition:

This upgrade is for Customers who are concerned with reducing regeneration-caused downtime. This upgrade will *increase tool availability* and *increased wafer throughput* by enhanced hydrogen pumping during ion implants.



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## Features

- Automated regenerations designed for optimal photoresist removal
- Fast Regenerations restore hydrogen pumping speed and capacity to 100%
- GOLDLink® enabled
- Analysis of historical On-Board performance
- Installed by experienced Brooks Engineers
- Backed by 1-800-FOR-GUTS®: 7x24x365 Technical Support

## Benefits

- Lower Maintenance Costs
  - *Save \$3,000 to \$10,000 per cryopump over 24-months*
- Increase Tool Availability
  - *Reduce monthly regeneration times from 60 hrs to 18 hrs per pump*
- Increases Wafer Throughput
  - *Minimize pressure excursions and implant "dose holds"*
- Extension and optimization of pump change-out cycles from historical analysis.
- Faster and improved automated regenerations
  - *Full Regeneration = 3 hours*
  - *Fast Regeneration < 1 hour*



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By utilizing On-Board's **FastRegen<sup>®</sup>** capability, availability-increasing benefits are immediately realized via reduced regeneration downtime. In addition, the new On-Board Ion Implant module will optimize Full Regenerations to remove internal build-up of process by-products, effectively extending each pump's operational life.

## Monthly Regeneration Hours

