

Equipped with a rigorous quality program, a broad range of tooling and unrivaled technical expertise devoted exclusively to ion implantation, INNOVION is a powerful and flexible outsource option serving the production manufacturing and R&D environments in need of ion implantation.

With a broad base of implanters, INNOVION supports traditional IC manufacturers and plays a vital role for key players in emerging technologies from silicon-on-insulator (SOI) to compound semiconductors.

Flexibility. Expertise. Speed.
All you need at one implant foundry.

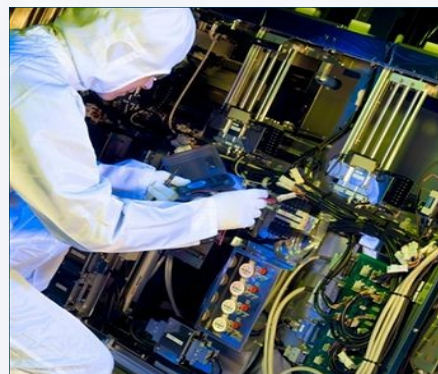
World's Largest Implant Foundry

- ▮ Capacity for large volume production
- ▮ Modern SPC and advanced quality systems
- Certified to ISO 9001:2008 Standard
- ▮ 7-day a week operation
- ▮ Prompt, reliable product turnaround
- Same day service available
- ▮ Free local area and airport pick-up/delivery



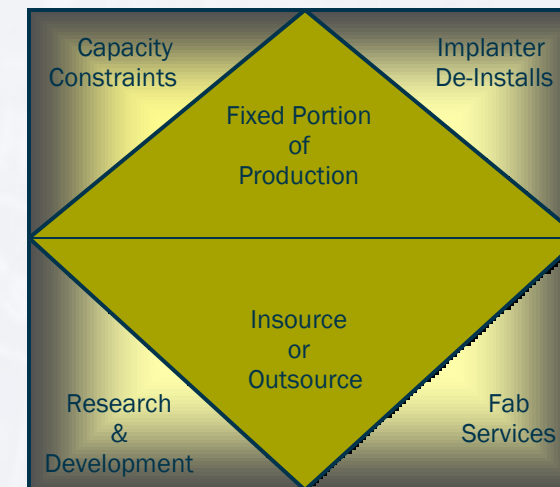
Implant Services

- ▮ 20 High/Medium/Low dose implanters
- ▮ Standard and Specialty implants
- ▮ 2" to 200mm diameter substrates
- ▮ Implants into unique target materials
- ▮ Low and high energy processes
- ▮ Substrate heating and cooling



Beam us up...™

Business Categories

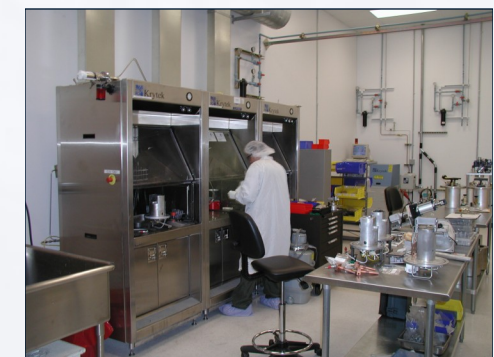


Process Engineering

- ▮ Process and technical engineering expertise
 - Implant recipe creation
 - Post-implant characterization
 - Device process troubleshooting
- ▮ Specie certification with SIMS (optional)
- ▮ SRP and other analysis (optional)

Fab Services

- ▮ Implanter source/subassembly rebuilds
- ▮ Major component/parts cleaning
- ▮ Dedicated rebuild/cleaning/testing area
- ▮ Implanter deinstallations and moves
- ▮ Large consumable parts inventory





Evolution of a Specie

Implant Process Capability

Implanter OEM / Model	Energy (keV)	Wafer Diameter	Load Type	Primary Species														Dose Range	Tilt Angle
Low / Medium Dose																			
Axcelis 6200	10 - 200	3" - 150mm	Single Wafer	H													E10 - E14	0° - 10°	
Axcelis 6200AV	10 - 200	3" - 150mm		B	P	BF ₂	As	In	Sb	Si	Ge	Ar	C	N	O	Al		0° - 60°	
Varian E220	10 - 200	3" - 200mm																0° - 60°	
Varian E500	10 - 250	150 - 200mm																0° - 60°	
6200ER	3 - 200	2" - 200mm		Custom tool for a wide range of alternative species & materials*													0° - 10°		

*Contact INNOVION Sales for details on capabilities of this custom tool

Broad Range																				
Axcelis GSD 200E	1 - 180	150mm	Batch	H	He	B	P	BF ₂	As	In	Sb	Si	Ge	Ar	C	N	O	Al	E11 - E17	-10°-10°
Axcelis GSD 200E	1 - 180	200mm																		
High Dose																				
Axcelis NV10-180	10 - 180	2" - 150mm	Batch	H	He	B	P	BF ₂	As	In	Sb	Si	Ge	Ar	C	N	O	Al	E12 - E16	0° / 7°
High Energy																				
NV/HE	200 - 600	2" - 150mm	Batch	H	He										Ar	C	N	O	E11 - E15	0° / 7°

Full Suite of Multi-Range Implanters

- Broad range of species, energies and doses
- Ultra-thin, pieces and specialty substrates
- Advanced substrate temperature control
- Specializing in H⁺, He⁺ processes
- Robust dosimetry and contamination control

Sophisticated Process Techniques

- Alternative species: Be, Co, F, Mg, Ti. . . .
- IDM, MEMS, Lasers, VCSELS. . . .
- Modified materials: GaAs, GaN, InP, InSb, LiNbO₃, Quartz, SiC, SiGe, SOI. . . .
- Isolation implant sequence process
- Heated GaAs cleaving implants



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