



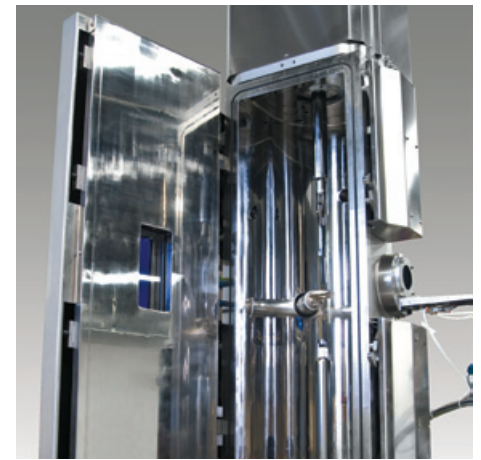
FLOAT ZONE SYSTEM

Fast Turnaround Sampling for Material Purity Assurance

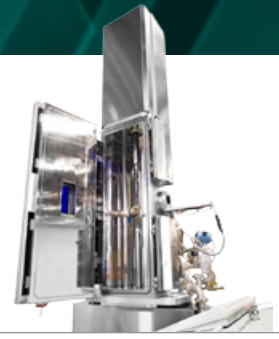
The float zone process is widely used by silicon manufacturers for analytical lab sample preparation and material quality control. It plays a crucial link in determining impurity content, which underscores the tool's importance in efficient manufacturing of solar and semiconductor grade silicon. Easily operated, the GT Advanced Technologies GT-FZ100™ has a 15-year heritage of providing fast turn-around sampling and batch check for reactor runs, to help ensure high quality production. One measure of the tool's reliability and performance is demand: we receive repeat orders from customers using GT Advanced Technologies FZ systems manufactured in 1995 that are still operational.

Key Advantages Include:

- Robust system with fast turnaround sampling
- High reliability levels resulting in low cost of ownership. Components are designed for extreme durability and simple maintenance
- Easy operation; recipe driven process control
- User-friendly, color touch screen interface
- Process know-how and technology transfer
- Equipment footprint configurable for flexibility in space utilization
- Vacuum pump options: dry or wet pumps
- Power supply choices: tube style or solid state RF generators



With over 15 years experience in silicon manufacturing equipment—and in the design, manufacturing and service of float zone—GT Advanced Technologies is the leading supplier and partner for FZ systems and solutions. Providing customers with world-class support and technical training, ensures productivity optimization and reduced operating costs.



Float Zone System

About GT Advanced Technologies

GT Advanced Technologies leverages its core crystalline growth and materials expertise in polysilicon, photovoltaic and sapphire to deliver sustained value to our customers. Our innovative ideas and industry experience enable the evolution and commercialization of products that elevate performance, improve quality and lower manufacturing costs.

Learn more at www.GTAT.com

FZ100™ Float Zone System

Standard Specifications

Standard Specifications	
Polysilicon Feedstock	
Feed rod clamp diameter range	10-25mm
Max. polyrod dimensions (diameter X height)	25 x 400mm
Ingot Properties	
Typical ingot dimensions (diameter X height)	10 x 185mm
Cycle time (from loading to unloading)	1 hour
System Control	
Computer hardware	Industrial PC
Automatic diameter control system	Yes
Microsoft Windows compatible	Yes
Software allows remote mistake diagnosis	Yes
Software allows archiving of process data	Yes
System	
Internal dimensions (height x width x depth)	1092mm(43") x 330mm(13") x 343mm(13.5")
Construction material	316L stainless steel
Door size (height x width)	1194mm(47") x 330mm(13")
Number of viewports	2
Spindle material	300 series SS
Pulling length	400mm max
System availability / typical uptime	>99%
System dimensions	1 x 1 x 4 M
System weight	1,400 kg
Power input	400VAC, 3 Phase, 50Hz, 50Amp
Warranty	1 year



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