

40 ANNIVERSARY

1984 - 2024

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About



Since 1984, A Resource for Semiconductor Manufacturers Glemco is one of the original second source manufacturers for the semiconductor industry.

Glemco designs, manufacturers and distributes products and services custom tailored to our customers requirements. Founded in Leander, Texas, in 1984, our extensive experience in the industry has led to the development of cutting-edge product and service solutions that reflect the evolution of semiconductor manufacturing technology. We support a global customer base with products and services that increase production efficiency, simplify maintenance, and reduce operational costs for semiconductor manufacturing equipment.

Product Portfolio



A wide range of consumables, spares, maintenance and repair products for front end process equipment:

- Axcelis ®
- 3204, 3206, 6200, 6200A
- NV10 / 10-80 / NV10-160
- NV20A
- 8200P, 8250
- GSD Classic, 80, 160, 200, 200E, 200E2
- GSD HE / HE3 / VHE
- GSD III / Ultra / HC3
- Purion
- Paradigm

- Applied Materials ®
- 9000 / 9200
- 9500
- Quantum
- XR-80
- XR-LEAP
- VIIsta 900XP
- VIIsta HCP, HCS
- Trident
- Aviza® W/J®
- 998, 999, 1000

- TEL®
- ACT12
- Lithius PRO PRO V
- Varian®
- 80-10 / 120-10
- 80XP, 160XP, 180XP
- CF/DF, 3000, 350D, 300XP
- E-220 / E-500
- VIIsion 80 / 200
- VIIsta 810

- Delatech ®
- 858/859
- DNS ®
- AS-2000
- LAM / Novellus ®
- Concept 1
- Concept 2 Altus
- Concept 2 Sequel
- Concept 2 Speed



Capabilities Customer Support



As the manufacturer, Glemco is responsive and reactive to customer concerns. And we control the manufacturing process, so we can ensure you get only the highest quality in materials and workmanship.

High purity graphite - Refractory metals - High performance plastics

Welded or brazed precision assemblies - Ceramic Insulators - Wire and cable harnesses

Refurbishment and Repair of high value assemblies

Precision and vented fasteners - Fittings - O-rings - Vacuum gauges

Electrical feed-throughs - Motors and potentiometers - Pneumatic actuators -

Large Inventory of consumables and spares

On site inventory management - Custom kitting and labeling

Custom Solutions Provider

Experienced technical support - The BEST customer service experience.



Specialty Materials Refractory Metals



Glemco manufactures Tungsten, Lanthanum-Tungsten, Molybdenum and Tantalum products for all ion implanter equipment.

Glemco is a high precision CNC shop handling complex parts and materials.

Milling Machinery:

Positional and dynamic 5 axis machining centers, up to x=60" y=26" z=24", High speed drilling and tapping centers, up to x=24" y=15.75" z=24", Vertical machining centers, up to x=24" y=12" z=12"

Turning Machinery:

2 axis max diameter 9" max thru spindle diameter 2", max length 22"; 4 axis with live tooling, max diameter 14", max thru spindle diameter 3", max length 24"; 5 axis with live tooling, max diameter 9", max thru spindle diameter 2.6", max length 4.7"

Wire Electrical Discharge Machinery:

Max part size x=41" y= 32.25" z= 11.75"; Max cutting capacity x=23.5" y= 15.5" z= 12"









Specialty Materials Graphite



Glemco manufacturers high-performance graphite solutions for all ion implanter equipment.



Material Grades Offered	Bulk Density (Mg/m³)	Shore Hardness (HSD)	Electrical Resistivity (μΩ*m)	Bending Strength (Mpa)	Compressive Strength (Mpa)	Thermal Conductivity (W/(m-k))	Avg. Grain Size (µm)
HP Graphite	1.81	91	18	113.00	210.00	72	2
STD Graphite	1.81	64	13	61.70	n/a	104	7

Super Purified to less than 5ppm impurities
VGI Coating for particle management
Enhanced Designs for Improved Performance
Customer Specific Designs for Critical Processes



Material Support Solution



Glemco maintains an extensive inventory of critical parts and materials to support our customers.



Nickel Silver Inconel Stainless steel **Boron Nitride** Vespel ® Hastelloy Torlon ® Aluminum Oxide Delrin ® **PEEK** Teflon ® Titanium Nylon ® **UHMW** Copper Aluminum ESD (conductive plastics)

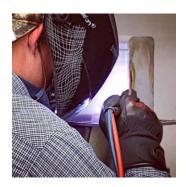




Specialty Processes



Glemco has expertise in a broad range of manufacturing processes.





- •Dip Brazing
- Soldering
- Vapor Degreasing
- Ceramic to Metal Sealing
- Electropolishing
- Production Leak Testing
- •Pressure Testing
- Part Marking

- •Heat Treating
- Arc Welding
- Plating
- Coatings and Paints
- Surface Finish
- Passivation
- Brazing
- •Epoxies and Resins
- •Vacuum Brazing





Trusted Customer Specific Solutions



Glemco partners with customers to develop unique solutions that increase productivity.

Glemco designs and manufactures customer specific ion implanter components and assemblies for specialty implants, such as Aluminum, Antimony, ++ & +++ charge, Gold, Indium and more.















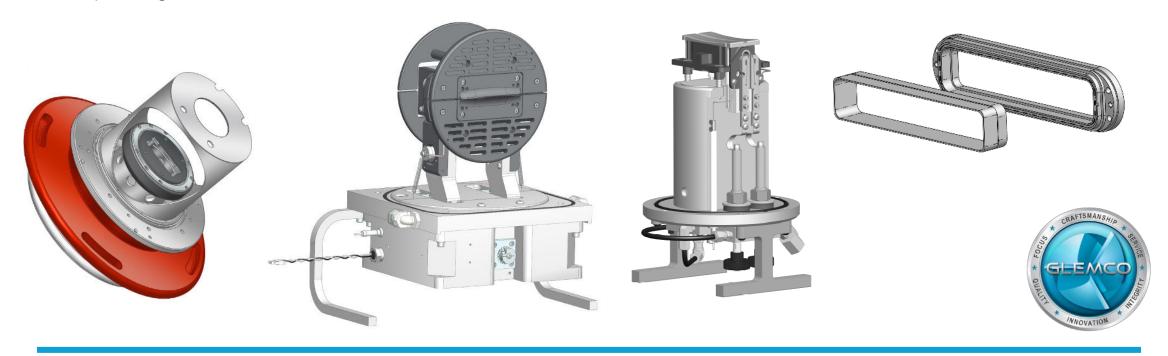


Complete Support Assemblies and Upgrades



Glemco manufactures standard, enhanced and customer specific equipment upgrades and assemblies.

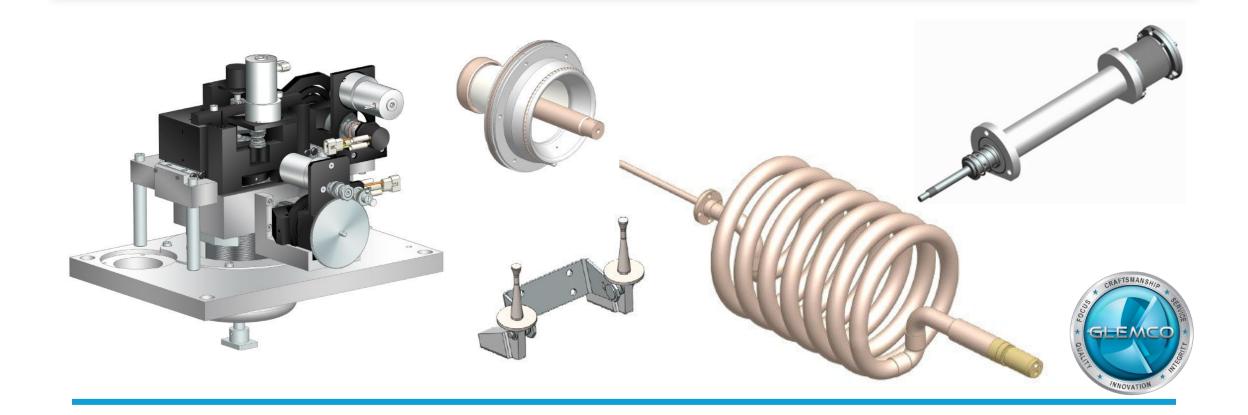
Glemco manufactures complete assemblies, customized to customer requirements, including ion sources, source flanges, extraction heads and analyzer magnet chambers and more.



High Quality Services Extending Value



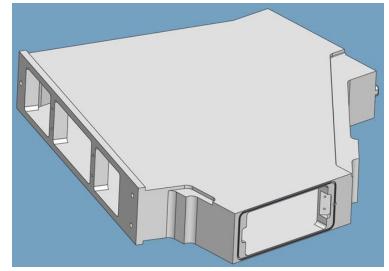
Glemco provides overhaul, refurbishment and repair of parts and assemblies used in semiconductor equipment.

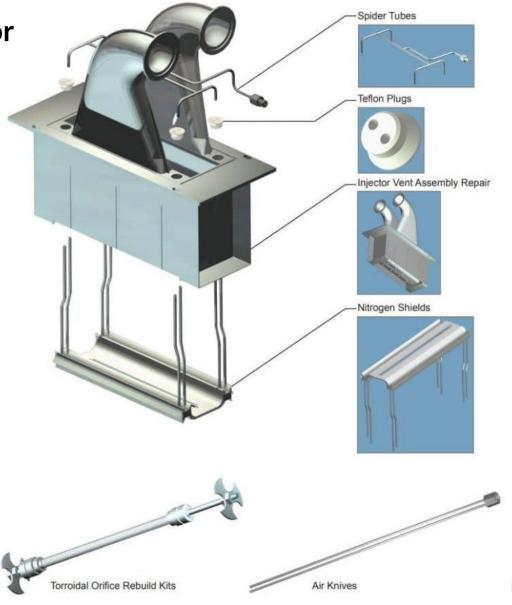


Legacy Support Parts and Services for a wide range of Equipment



Assemblies, Consumables, Refurbishment and Repair for customer specific equipment







INNOVATION By Design



Glemco works with customers to provide innovative solutions for specific process conditions.

Universal Heavy Process EMER Upgrade Kit – Redesigned Insulating Washers Provide Extended Surface Area to Prolong Coating and Eliminate Shorting ◆ Threaded Caps for Easier Service Access ◆ Elimination of Teflon, Tin, and Copper from the Assembly ◆ Solid Tantalum Buss Wire Delivers 5Kv to the Inner Elecrode Ceramic Power Feedthroughs Provide Strong Vacuum Seal ◆ Feedthroughs Protected from Process Material

Source Alignment and Extraction Upgrades for E500 – Precision Alignment Interface Between Source Body and Flange ◆ Dowel Pin Interfaces Ensure Optimum Beam Optics ◆ Improved Shielding from Process ◆ Shroud Incorporates Easy Access Door ◆ Customized Vaporizers

V3 Bellows Liner – Liner Flange Marked to Guide Orientation during Installation to Reduce Shorting ◆ Disposable Shield Liner Protects Bellows Convolutions from Contamination ◆ Extends Time Between PMs

Shielded Source and Liner Flange Upgrades – Built-in Protection from Process Coating for Fixed and Floating Clamp Rings ◆ Water Cooled and Non Water Cooled Designs

Electrode Assembly – High Density Graphite ◆ Precision Alignment Fixtures ◆ Improved Isolation ◆ Even Distribution of Vacuum Pressure ◆ Reduced Vacuum Leaks ◆ Arm Servicing without Realignment

Manipulator Refurbishment – Replace Hardware, Orings, Gears, Drive screws, Clutches, Slide/roller bearings, Bellows, Shafts ◆ Roll Pins Replaced with Opposing Lock Screws ◆ Potentiometers Upgraded to Quick Connect ◆ Electrode Alignment ◆ Vacuum and Load Testing

Moving Clips – High Performance Plastic Pins ◆ Upgraded Bearings and Spacers ◆ Refurbishments replace Pins, Springs, Bushings, Spacers

2X Dual Vaporizer Assembly – Increased Antimony Capacity ◆ Clog Resistant Quad Port Nozzle ◆ Improved Thermal Shielding ◆ Spring Loaded Thermocouples

HDP Gas Trench Covers – Dual/Split Nozzle Injectors ◆ Oring Shield Blocks Plasma from Attacking Oring ◆ Integrated Jack Screws Simplifies Removal

GLEMCO: A Differentiated Customer Experience

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- 1. Different and distinct in character.
- 2. Different in the process of growth or development.

Evolve, modify, alter, adapt.

Random Experience

Consistent Experience

Functional

- Intentional
- Consistent

Differentiated Experience

Emotional & Functional

- Differentiated
- Invaluable
- Intentional
- Consistent



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