



JELIGHT COMPANY

Your Quartz Engineering Company



Your Partner For :

- Precision Fabricated Quartz Products
- UVO Cleaning Systems
- UV Lamps



JELIGHT COMPANY INC.

With our quality, consistency, and integrity at Jelight, we will not settle for less, nor should our semiconductor partners.

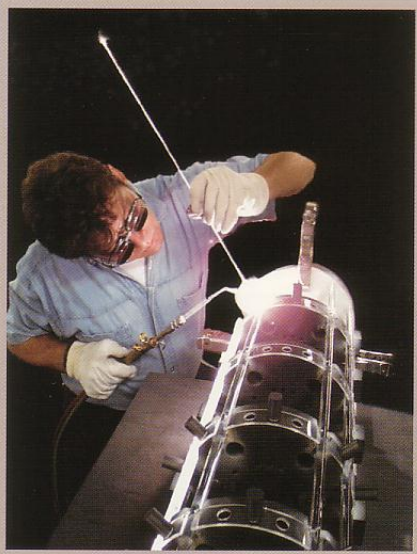
Our facility and staff speak volumes of our commitment to meet and exceed the needs of our customers. With over 140 years of combined glassblowing experience plus 27,000 square feet of engineering and production space, Jelight's industry leading craftsmen are equal to the task.

Jelight manufactures a complete line of products engineered and built to the exacting standards of our industry partners. Every aspect of our ISO certification is utilized to meet your quartz needs in CVD and diffusion applications. From boats, tubes and pedestals to a wide range of accessories, Jelight stands behind every product we deliver.

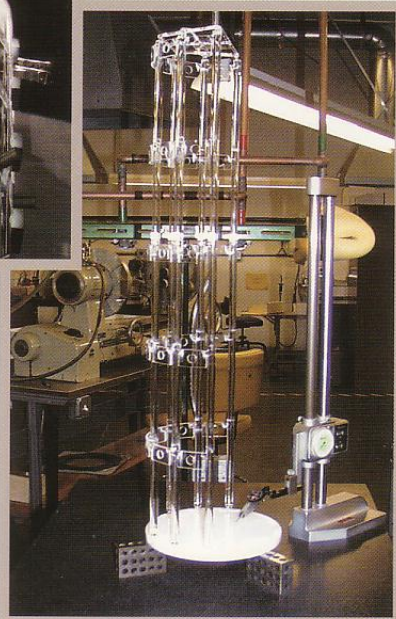
Jelight's in-house engineering staff and customer support teams are dedicated to total customer satisfaction. To deliver anything less is unacceptable.

*Bringing
Engineering Concepts
To Reality*

PRODUCTION FLOOR



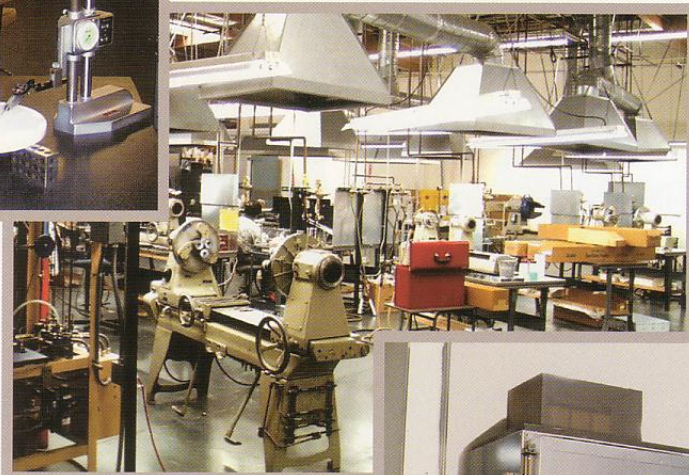
*Vertical Wafer Carrier
Welding Fixture*



In Process Inspection



SVG Fin Pedestal



Jelight's Small Lathe Department



Vertical Annealing Oven

- *20,000 Square Foot
Of Production Floor*
- *24 Production Lathes*
- *4 Annealing Furnaces*
- *Vertical & Horizontal*
- *4 Auto Cad Engineering
Stations*
- *Cad/Cam Reverse
Engineering*
- *Production In-Line
Inspection Stations*



www.jelight.com

LATHE DEPARTMENT

Jelights Lathe Department Is
Equipped To Handle All
Your 300 mm Quartz Needs.
Our 24" Bore Lathe Can
Handle Tubing Up To
600 mm In Diameter.

Quartz Burners Manufactured
By Jelight Insure Our Products
Meet The Highest Purity Levels
For Contamination Free Welds.

Jelight Company Provides
A Wide Range Of Raw
Materials To Meet Your
Process Needs.

Jelights Material Suppliers Are:

General Electric (GE)

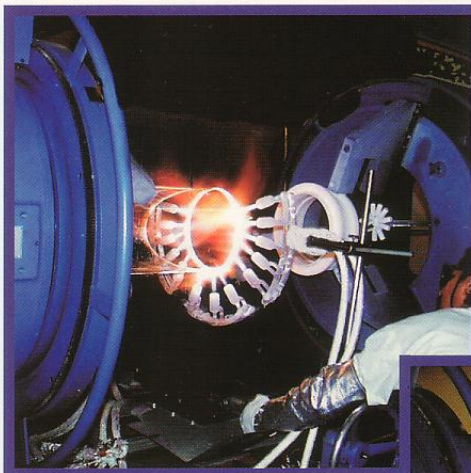
Osram Sylvania (GTE)

Quartz Products

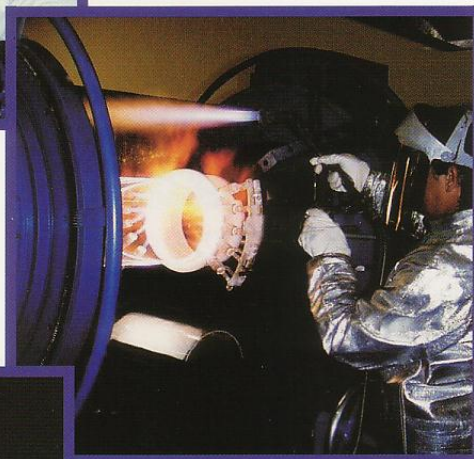
Heraeus Amersil



Authorized GE Distributor



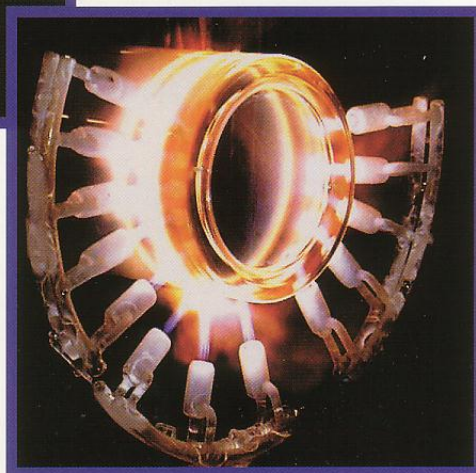
*Splicing Tubing to an
Opaque Flange*



Working out a Splice Weld



*Fire Polishing the Tubing After
Splicing of Opaque Flange*



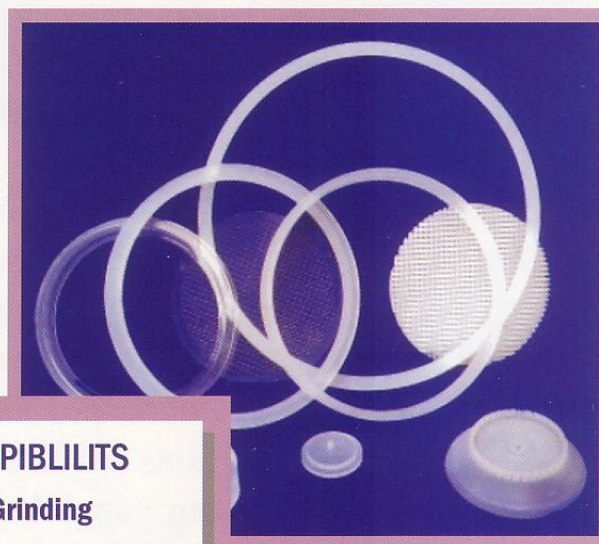
Jelights Custom Quartz Torches

MACHINING DEPARTMENT

The extensive experience of our cutting & grinding department has enabled Jelight to manufacture quality quartz products to exacting industry standards. Our two HAAS CNC vertical mills and three Bridgeport mills are critical in meeting today's production requirements and acting tolerances as precise as 0.001 of an inch.



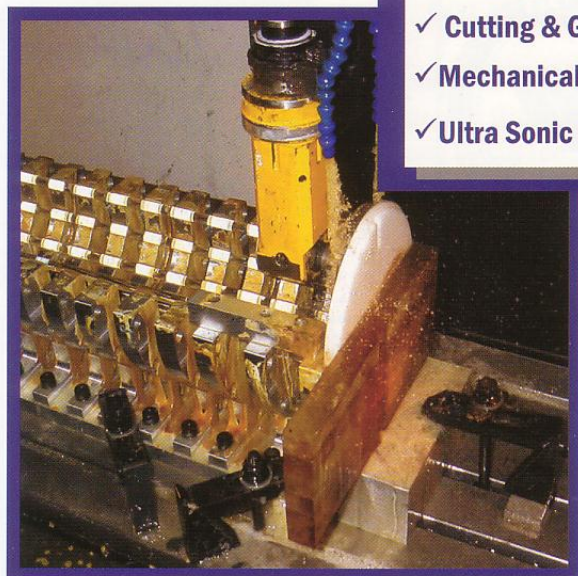
HAAS VF-3 & VF-4 CNC Mills



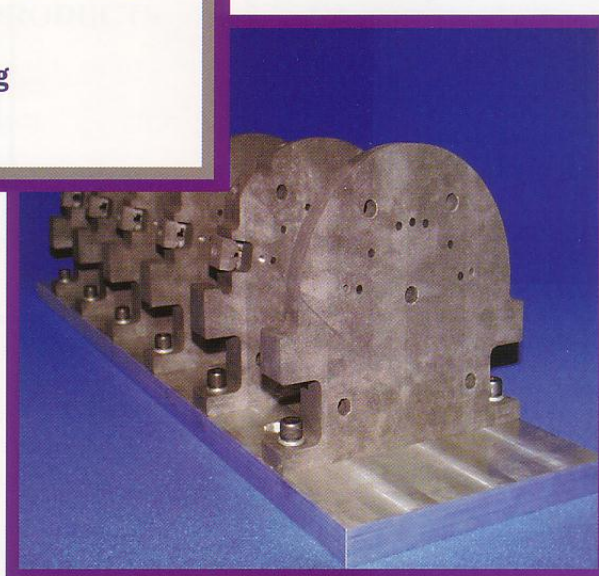
*Precision Ground
Quartz Rings & Disc's*

MACHINING CAPABILITIES

- ✓ Precision Drilling & Grinding
- ✓ Wafer Carrier Slotting to $\pm .001"$
- ✓ Fixture Design & Manufacturing
- ✓ Cutting & Grinding
- ✓ Mechanical Polishing
- ✓ Ultra Sonic Drilling



CNC Slotting of a Vertical Wafer Carrier



Vertical Wafer Carrier Welding Jig

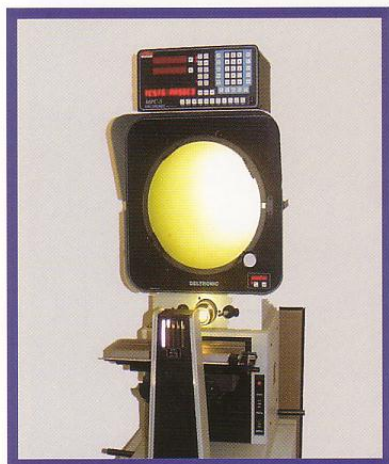


QUALITY CONTROL

Our quality management team has the experience and tools necessary to insure only high quality products are delivered to our customers. Jelight Co. was honored to receive **ISO 9001 Certification** in 1997. The same commitment to excellence led Jelight Co. to develop a first class quality assurance team and

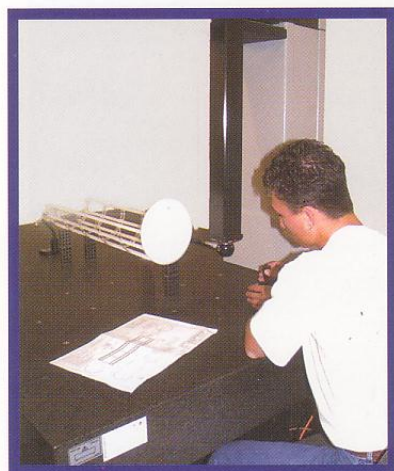


Jelight's QA Department and Brown & Sharp CMM



Deltronic MPC-5 Optical Comparator

Inspection facility. Jelight has invested in the finest equipment available, including Brown & Sharp's Xcel 9.15.9 coordinate measuring machine (CMM) and a Deltronic optical comparator. This ensures Jelight's quartz products are manufactured to the rigid specifications required for today's automation. We are proud of our capabilities and stand behind every product we deliver.



Wafer Carrier CMM Inspection

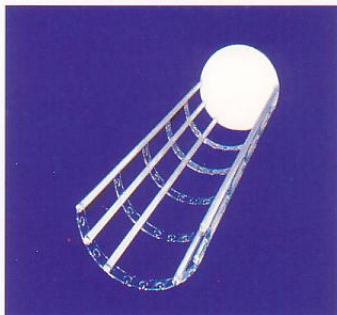
ISO 9001 Certification

100 % Inspection

CMM Detailed Inspection Reports

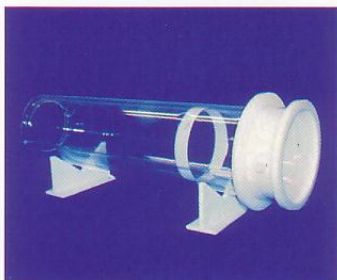
OEM Certified Supplier

Quartz Products - OEM To End User Applications



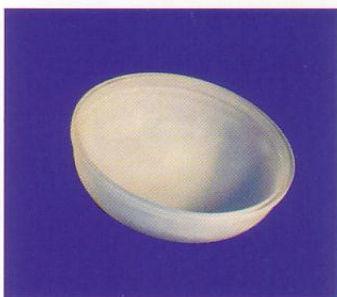
QUARTZ WAFER CARRIERS

- 100 mm to 300 mm Wafer Carriers
- OEM Boats - SVG, Tel, BTI, MRL, ASM
- Continues Boats, LTO, BPSG, CVD, Diffusion
- Semi Standard Med. and Low Profile Boats
- Vertical and Horizontal Carriers



VERTICAL AND HORIZONTAL TUBES

- Double Wall Tubes & Liners
- High Temperature Heavy Wall Furnace Tubes
- Pedestals & Accessories
- RTP Tubes



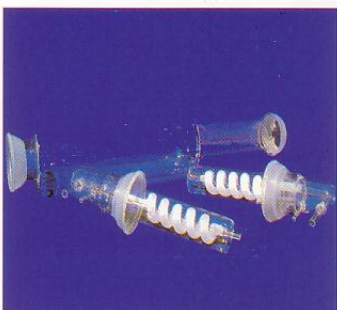
SINGLE WAFER & CUSTOM QUARTZ

- Bell Jars, Domes, Chambers
- Tanks, UV Products, Coils, Injectors
- Wet Etch Process Tanks and Carriers
- New Product Development & Prototyping



SOLID QUARTZ PRODUCTS

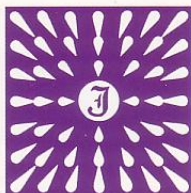
- Opaque & Clear Fused Quartz
- Flanges, Blocks, Baffle Discs,
- Quartz FlairTec Fittings
- Precision Drilling For Injectors And Tips
- Complete Cutting & Grinding Capabilities



DIFFUSION ACCESSORIES

- High Flow Torch Injectors
- Quartz Doors & End Plats
- Quartz Grids, Doors, Rings
- Steam Chambers
- OEM Certified Quartz Supplier





JELIGHT COMPANY, INC.

2 Mason
Irvine, CA 92618

Tel: (949) 380-8774
Fax: (949) 768-9457
E-Mail: jci2@jelight.com



Serving our customers needs since 1979



Authorized GE Quartz Fabricator Distributor

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