



# Beta Buzz

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## What's Happening...

### Beta Squared Lithography, Inc.

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This publication is designed to give  
accurate and authoritative  
information in regard to the subject  
matter covered for the employees  
and customers of  
Beta Squared Lithography, Inc.

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Front Page:

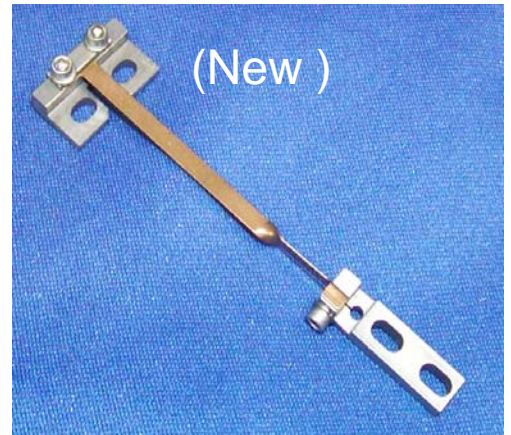
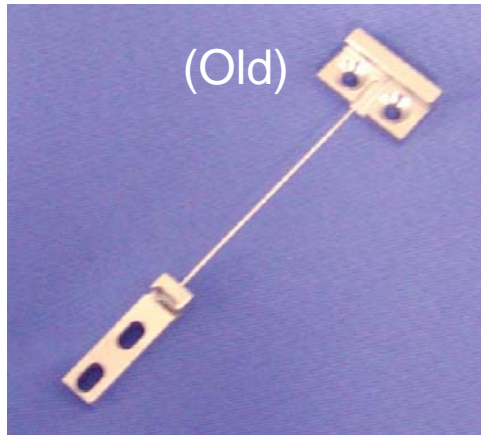
#### High Reliability Parts

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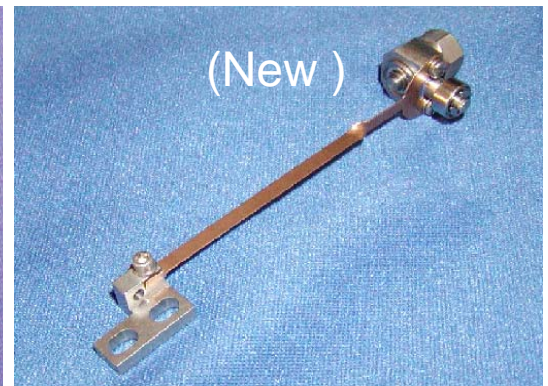
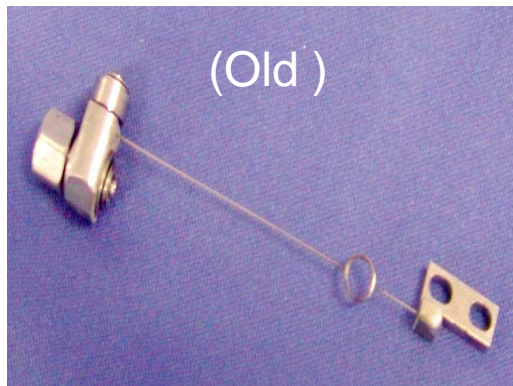
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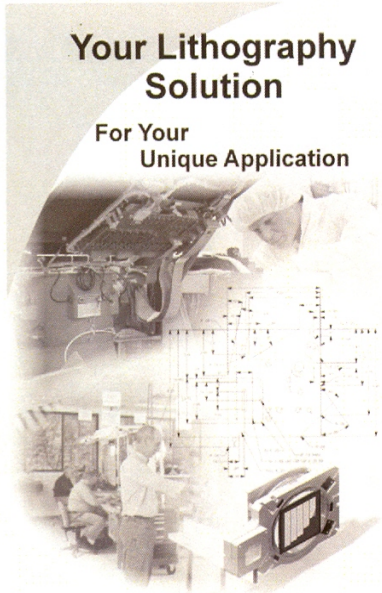
## BSL's High Reliability Parts!

We at BSL have taken a look at several parts over the years that were replaced quite often, causing downtime, halting production and causing production schedule delays. Well, BSL has responded by making those parts better. Here are just two of those parts. Yes, we built a "better mousetrap". Pictures on the left are the OEM (Old) version. The top picture is the **Mask X Flexure Assembly**. As you can see, each end is connected by thin "piano wire". This is where you would have your breakage at the welds.



We took this and made it better. Our design (New) has no welds, eliminating parts breaking from stress. These parts are mechanically fastened with a stronger mask flexure retainer. We also made our **Wafer X Flexure Assembly** (pictured below) the same way, better than the original. Here you can see the difference between the OEM design and BSL's high reliability design. Call for a quote and Upgrade NOW!





Beta Squared Lithography Inc. has redesigned the Micralign™ today for tomorrow's compound semiconductor requirements, incorporating BSL's trademark reliability and performance upgrades. We currently have systems throughout the world that are processing these substrates/applications:

- Gallium Arsenide (GaAs)
- Silicon Carbide (SiC)
- Sapphire (Al<sub>2</sub>O<sub>3</sub>)
- Cadmium Zinc Tellurium (CdZnTe)
- Cadmium Mercury Tellurium (CdHgTe)
- Germanium (Ge)
- Quartz (SiO<sub>2</sub>)
- Pyrex
- Solar/HD Heads/Ink Jets
- Gyros/Accelerometers

To find out more information or to purchase a refurbished Micralign™ for your compound semiconductor requirements, email us at: [sales@beta2L.com](mailto:sales@beta2L.com)



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## Why Companies Choose BSL

- Largest and Most Knowledgeable Field Engineering Staff Servicing Micraligns
- On Demand Emergency Service
- High Reliability and Throughput Enhancements That Reduce Cost of Ownership
- Redesigned Parts-**Better Than the Original**
- Depth and Breadth of Inventory
- Leading Edge Equipment Modifications
- New Software Development
- Fully Electronic Documentation Control
- System Integration
- Follow Lean Manufacturing and ISO 9001 Practices
- **Micraligns Are Our Business**

## Micraligns™ for Sale

*Beta Squared Lithography, Inc., the leader in Micralign™ Sales, Service, High Reliability Parts and Equipment Upgrades has a large inventory of Micralign™ Mask Aligners available for sale with or without OS2000. Let BSL configure a Micralign™ that meets your specifications.*



***"We focus on high reliability, throughput enhancements, and reduced cost of ownership for our customers."***

## ***Beta Squared Lithography Sales, Service & Support***

**BSL, Inc.**, provides mainstream lithography equipment that incorporate custom-designed solutions to expand and improve the capabilities of the product to the customer. BSL also has a full-service repair facility for many of the repairable parts of the **Micralign™**. These services span electrical / electronic board repair, optics stripping / re-coating / alignment and mechanical repair / alignment.

Compound semiconductors and Nano-technologies are the perfect match for the new Micralign™ technology we offer today. A large depth of focus and 1.0 micron resolution, combined with our **OS2000** control system's flexibility, vision system and global alignment, provides stepper-like automation.

Beta Squared Lithography has a Micralign™ re-build and retrofit service, including:

- Fully refurbished and warranted Micralign™ tools
- Wafer size changes
- Air-track to PAL conversions
- 900, 800 and 300 manifold upgrades
- Re-hosing (replacement of every hose in the tool)

The company is headquartered in Brookfield, CT, USA, with satellite offices in Singapore, France, and Korea.

We have a huge inventory of **Micraligns™** that are completely refurbished to "**Factory Specifications**". The **depth & breadth** of our global inventory consists of "high reliability" parts and accessories that are unsurpassed and ready to ship anywhere. We can completely refurbish, upgrade and customize your existing equipment to meet today's requirements. BSL offers **Process, Maintenance and OS2000 training** for Beginner, Intermediate/Advanced levels along with technical support. Our Field Service and Support Staff is available both overseas and domestic. We provide the highest quality of custom **maintenance services**, based on your needs, available both overseas and domestic.

