



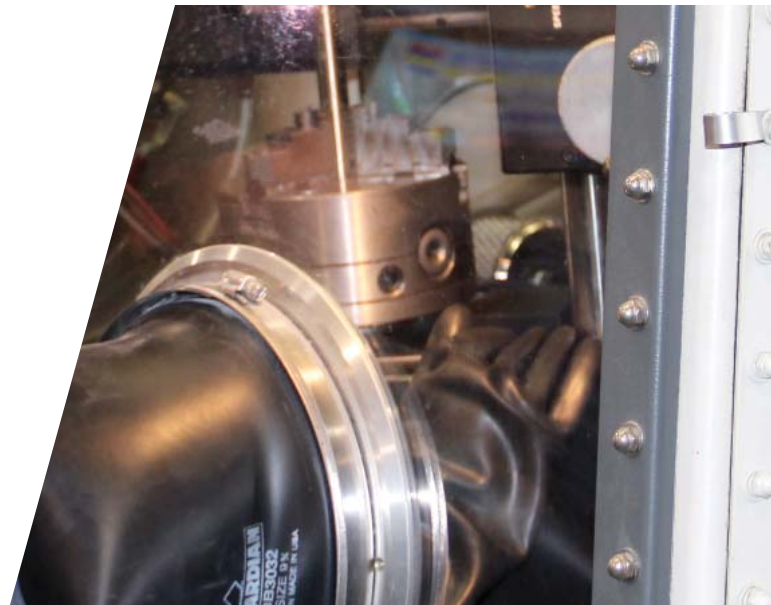
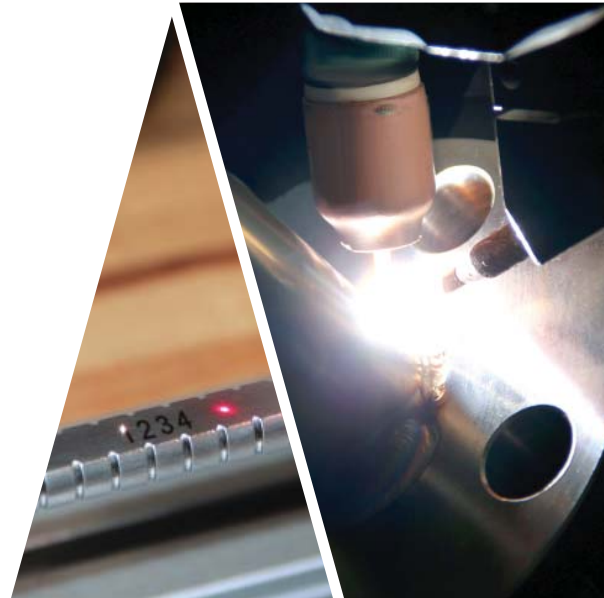
**APEX PRECISION**  
APPLIED WELDING SOLUTIONS

# Applied Welding Solutions for Mission-Critical Components

- > Laser Welding
- > Orbital Welding
- > Glovebox Welding
- > Manual Metal Arc Welding
- > Metallurgical Analysis
- > Laser Marking
- > Equipment Services

**ISO 13485 Certified**

A DIVISION OF





As the premier welding division of Applied Energy Systems, Apex Precision delivers comprehensive precision welding, laser marking, and QA services for mission-critical components across a diverse range of complex welding applications and requirements.

From medical to semiconductor, industrial, aerospace and analytical sectors, we provide purpose-driven precision welding solutions, in an ISO 13485 certified environment, that solve application challenges and exceed expectations for repeatable quality and speed. As a comprehensive welding provider, our services span laser welding, orbital welding, glovebox welding and manual welding, as well as metallurgical analysis and laser marking services.

Founded upon nearly 50 years of excellence in delivering high and ultra high purity gas delivery systems and equipment, Apex Precision has become synonymous with a new level of quality in specialized weldments.

## Explore Our Welding Services for Mission-Critical Components:



### Laser Welding

Best leveraged for high-precision metal joining applications, our laser welding capabilities enable us to deliver the smallest and most delicate welds with the highest possible precision.

#### FEATURES INCLUDE:

- > Precise, Repeatable Results
- > Small Heat-Affected Areas
- > Deep, Strong Welds
- > High Speed of Production
- > Computerized Precision



### Orbital Welding

Our orbital welding services are used largely by the semiconductor and pharmaceutical industries because of our ability to eliminate contamination and maximize weld consistency with this technique.

#### FEATURES INCLUDE:

- > Ultimate Repeatability & Accuracy
- > Smooth, Even Tube Bore
- > Small Heat-Affected Areas
- > Elimination of Defects
- > Suited for Cleanroom & High Purity Applications



## Glovebox Welding

Through our glovebox welding services, we are uniquely capable of serving specialized welding needs that demand a high purity inert environment for controlled quality assurance.

### FEATURES INCLUDE:

- Controlled Inert Environments
- Reduced Oxygen & Moisture
- Clean Seams & Minimal Impact
- Low Heat Input
- Component Sealing



## Manual Metal Arc Welding

Our commitment to the art and science of welding precision is no more apparent than in our manual welding work. These services offer customers great versatility for custom & fragile needs.

### FEATURES INCLUDE:

- High Quality Welds
- Complete Versatility
- Adaptability to Space & Location
- Material Variety
- Delicate Work Pieces



## Metallurgical Analysis

Our advanced QA technologies ensure repeatable quality and excellence of all welds, closely scrutinizing material selection, joint design, cleanliness and weld strength.

### FEATURES INCLUDE:

- Tensile Testing
- Video Inspection
- Cross Section Analysis
- Weld Qualification
- Helium Leak Testing



## Laser Marking

We deliver a full range of laser marking and engraving services for manufactured components with the greatest levels of turnaround time, accuracy, and precision.

### FEATURES INCLUDE:

- Laser Engraving
- Alphanumeric Characters
- Logos & Pictures
- Serial & Part Numbers
- Component Marks
- Safety Certifications



## Equipment Services

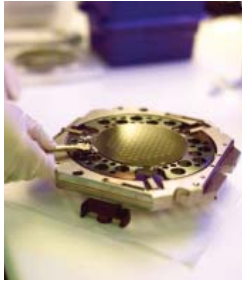
Apex Precision offers a wide variety of orbital welding equipment solutions ranging from equipment sales and rentals to equipment training, maintenance, and repairs.

### SERVICES INCLUDE:

- Training and Technical Consultations
- Repairs and Routine Maintenance
- Warranty Replacements
- Inspections/Validations
- Orbitalum Equipment Sales and Rentals



# Purpose Yields Precision: Performing for Application Needs



## Semiconductor Applications

For ultra high purity applications like semiconductor manufacturing, the quality of welded components is directly linked to that of the end product. From sensors to gas delivery components, gauges, valves,

regulators and transducers, we deliver a full range of welded components fit for semiconductor's high standard of precision.



## Medical Applications

In delicate medical applications, the quality of welded components impacts patient quality of life. Within an ISO 13485 certified environment, we deliver outstanding laser

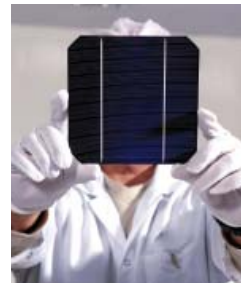
welding, marking, and quality assurance services with repeatable precision that the medical sector can rely on.



## Industrial Applications

For diverse industrial operations, precision welded components must be perfectly optimized for functional needs. With extensive systems-level engineering capabilities, we work to understand your critical performance

requirements, then provide outstanding purpose-driven welded components designed to meet those requirements.



## Sensors & Analytical Applications

In analytical applications, weld quality is a primary driver of accuracy and performance. From heat sensors to flow meters and leak detector components, we

channel robust problem solving capabilities to produce a range of sensor and analytical components.

## A Division of Applied Energy Systems

Founded and focused on excellence in gas delivery, customers turn to Applied Energy Systems (AES) for high-value systems engineering and production – including design, manufacturing, testing, field services and various welding solutions. Our excellence permeates our products, services, solutions and every industry we touch, to power process innovation for hundreds of organizations worldwide.

Through our Apex Precision division, AES is raising the standard of repeatable quality and speed for precision welding services.

To learn more, visit [www.apexprecisionwelding.com](http://www.apexprecisionwelding.com) today.



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## REQUEST WELDING SERVICES:

Contact the Apex Precision team today at **610.647.8744**.

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