



# Semiconductor Equipment *Solutions and Services*



**Top Quality Wet Process Systems**

## Built on Commitment

MEI provides tailored, quality equipment and services for high technology manufacturers. We've been in business since 1990, serving satisfied customers around the world. Our custom solutions focus on:

A single-minded customer-oriented service philosophy.

Process and throughput are vital. Quality engineered equipment, matched to your process and fab design needs through a partnership design process.

Precision and control drive yield. Configurable, flexible, modular designs, modeled in solid works.

Usability is key. Production ready tools: maintenance access, quality, ergonomics and safety are designed and built right in.

Up-time is critical. Field-proven reliability. Warrantied products are combined with award winning service, installation and support.

## MEI Products & Services

- **Wet Process Systems**
  - Tailored Wet Process Systems
  - Auto, Semi-auto & Manual Wet Benches
  - Linear, Rotary and Front-Back Robots
  - Fume Hoods & Parts Cleaning Benches
- **Used Equipment Upgrades & Reconditioning**
  - Wet Process Systems and Wet Stations
  - Spin Rinse Dryers
  - Software Control Systems
- **Field Repair, Service & Support**
- **Automation Software**
  - IDX Automation Software
  - Touch Screen & Configurable SECS/GEMS
  - Real Time & Windows-based
- **Chemical Delivery & Handling Systems**
  - Bulk Delivery from Bottles & Drums
  - Chemical Mixing & Control
  - Chemical Recovery & Collection
- **Cleanroom Safety & Ergonomic Equipment**
- **Rigging, Moving, Crating & Installations**
  - Move In/Move Out for Cleanrooms, Fab or Production Line Moves
  - Custom Pedestals
  - Seismic Anchors
  - Vacuum Packaging & Crating for Export, Storage or Shipment
- **OEM Parts/Contract Manufacturing Services**
  - Prototyping to Production Runs
  - Plastic & Metal Fabrication
  - Powder Coating
  - Three & Four Axis Precision Machining

*At MEI our reputation is built upon our commitment to outstanding customer service.*



**Fully Automated Batch Wet Processing**

## Wet Process Systems

MEI's wet process systems and benches etch, clean, and strip wafers up to 300 mm in diameter, and include fully automatic, semi-automatic and manual options, with a choice of linear and rotary robotics. Unique, proprietary design elements ensure safe, reliable, easily maintained, production-ready equipment. Each MEI system is tailored using Solid Works with detailed drawings that ensure quality, precision and accurate documentation. MEI wet process systems are installed in major fabs across the industry, worldwide. In addition to semiconductor processing, we build custom systems for use in solar PV, medical parts, MEMS, bio-pharma, life sciences, and other application industries.

## Used Equipment Upgrades & Reconditioning

MEI can extend the usable life of many brands and models of wet process equipment and spin rinse/dryers, both at the system and component levels. We specialize in controller upgrades to improve ease of use, supportability and process control. We replace parts, upgrade equipment and material, or completely redesign and recondition your existing system within the confines of its current shell and footprint. We also repair and upgrade your existing support systems. We handle Verteq, Akרון, Bold, BPS, Chemical Safety Technology, Amerimade, Semitool, SEZ, SCP, UltraFab, Universal Plastics and Universal Systems equipment, along with many other manufacturers.



**Wet System Repair & Upgrades**



**Field Service & Support**

## Field Repair, Service & Support

MEI has an array of field service capabilities designed to keep your wet process tools in service and operating at high-throughput levels. MEI offers full service contracts, with field service technicians at your site on a daily basis, or through on call service with hourly or by-the-job fees. Our technicians are knowledgeable, professional, and responsive, and are usually able to be at your site and troubleshooting within 24 hours. We also provide preventive maintenance services on a contract basis and will provide you, free of charge, an audit of your existing tool set complete with maintenance and upgrade recommendations. We service most brands and models of wet process equipment.

## Automation Software

MEI's proprietary IDX control automation software is extremely flexible and ideal for multitasking environments. It is widely regarded as the gold standard in automated wet bench systems, for its ability to streamline processes and provide unparalleled ease-of-use. A touchscreen operator interface with easily manageable recipe control, combined with critical access to valves and I/O points on the main touchscreen, make MEI's IDX automation software outstanding for both process and maintenance productivity. IDX Operates on Windows XP/2000 and conforms to GEMS/SECS II standards.



**Easy to use IDX Automation Software**





**Drum & Bottle Chem Systems**

## Chemical Delivery & Handling Systems

MEI's broad range of chemical handling equipment encompasses delivery, distribution, reclaim (recovery), and transport. Drum and bottle systems are available, along with custom valve manifold systems and mixing systems. Controls are managed with MEI IDX Automation Software. We design and build for cleanroom/semiconductor as well as industrial use. Our certified pure bond welders and in-house plastics and metal fabrication shops ensure quality and control. Safety is designed right in, with designs to meet SEMI-S2 standards. MEI's drum transport truck is designed for fab use and we offer custom and standard chemical carts.

## Cleanroom Safety & Ergonomic Equipment

MEI offers a growing list of cleanroom ergonomic and safety products including an ergonomic touchscreen swingarm, a class 100 cleanroom hoist for safer lifting, and a variety of wafer handling solutions. All products are developed, manufactured, and installed in close coordination with industry professionals specializing in ergonomics and safety. Some of our products have become "fab standards" in certain semiconductor facilities. MEI understands the nuances and importance of cleanroom ergonomics and safety, and we offer solutions to meet your needs.



**Ergonomic Touch Screen Swing Arm**



**Cleanroom Rigging & Installations**

## Rigging, Moving, Crating & Installations

MEI's rigging, machinery moving and crating expertise is unparalleled. We specialize in complete cleanroom and fab relocations as well as individual process equipment moves and installation. We have moved billions of dollars worth of heavy and sensitive equipment. Our teams are trained in all cleanroom protocols. MEI manufactures and installs custom pedestals and seismic anchors for wafer processing equipment. Our crating teams are experts in crating process equipment, entire manufacturing lines, or large or heavy items. MEI can barrier bag or vacuum package equipment to reduce contamination and moisture. We crate for export, storage or shipment.

## OEM Parts/Contract Manufacturing Services

MEI offers outstanding OEM contract manufacturing services in precision machining, plastic and metal fabrication, and powder coating. MEI can handle jobs ranging from prototyping and small run custom parts to large production runs of standard parts. We have experience with a variety of materials including stainless steel, aluminum, titanium, beryllium and a wide range of plastics. As in all of our work, exceptional customer service and satisfaction is our goal. We have top-notch skills and equipment to build parts and sub-assemblies to satisfy your outsourced manufacturing needs.



**Quality Plastics Fabrication**



877-858-3270



MEI, LLC  
3838 Western Way NE  
Albany, OR 97321

[www.meillc.com](http://www.meillc.com)

Phone 541-917-3626  
Toll free 877-858-3270  
Fax 541-917-3623  
Sales 541-704-2424  
Sales Fax 541-917-0174

## Our Business Philosophy

*Quality employees working in partnership with demanding customers*

MEI's success is defined by the quality of its employees. To achieve our mission requires employees who are skilled, versatile and extremely hard working. Add to those qualities professionalism and integrity, and you have a description of the typical MEI associate. Every MEI employee knows that customer service is our number one priority. Our division heads have a combined 100 years of experience in the semiconductor manufacturing equipment industry, and 50 years with MEI. This leadership and experience result in the delivery of top quality equipment and service that will exceed your expectations.

Our success relies on our ability to build effective partnerships with our customers. Top-notch equipment design and service requires knowing not only our customer's required specifications, but also what the scope of their project entails, and the end use of the tool or service being considered. We partner with your team pre-project to carefully identify every consideration, so we get it right for your use—first time, every time. Our company is built on commitment, and we deliver.



### Award Winning Service & Support

*Multiple winner of the Global Supplier Excellence Award given by a major semiconductor manufacturer*

### Our Customers Say ...

*(together) we have done things the industry has never heard of or thought could be done. I want to express my gratitude for the team you put together and the great people they are from the top to the bottom. Our company would not have been able to do what we have done with out such a strong partnership.*

—November 2007

*You guys have done a great job for us and I would tell that to anyone who asks. Your understanding and willingness to work with us to achieve our goals is greatly appreciated.*

—July 2007

*Quality products and services, focusing on throughput, precision, usability and up-time.*