



Marca
Machine Engineering, LLC


[HOME](#)
[ENGINEERING SOLUTIONS](#)
[CUSTOM MACHINERY](#)
[MACHINING](#)
[ABOUT US](#)
[CONTACT US](#)
[WELCOME SITE MAP](#)
[CUSTOM SOLUTIONS AUTOMATION ASME VESSELS VACUUM SYSTEMS FABRICATION](#)
[PVD SYSTEMS HYDRAULIC PRESSES AUTOMOTIVE POLYMER REACTORS PHARMACEUTICAL WEB HANDLING SEMI-CONDUCTOR TEXTILES RECYCLING](#)
[TOOL & DIE CNC & MANUAL](#)
[MME QUALITY FACILITIES PHILOSOPHY HISTORY](#)
[INFORMATION](#)

High Pressure, Super-Critical Fluid Chambers...

Customer's Expectation:

The design and manufacture of a high-pressure, supercritical fluid machine tools for the cleaning of refined silicon wafers used in the production of advanced integrated circuit wafers.

Challenges Presented:

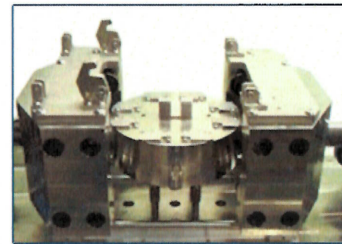
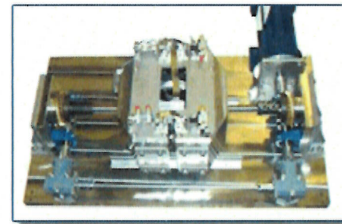
- To build ASME Division 1 and Division 2 pressure vessels consisting entirely of machined parts completely devoid of any welded joints.
- Finish of all process side machined surfaces had to meet stringent industry decontamination specifications.

MME's Custom Solutions:

MME's acquisition of its ASME Division 2 Certification of Authorization further enabled us to develop and perfect the manufacturing techniques required to provide pressure chambers that were electro-mechanically operated while able to maintain absolute pressure boundary integrity.

Functional & Economic Benefits to Customer:

While not only receiving a highly profitable vessel and methodology, the customer was able to evolve its technological advantage in both its product and production offering in the semi-conductor industry.



Links

[Inline Metallizing](#)
[Plastic Metallization](#)
[Magnetron Sputtering](#)
[Thick Layer Metallization](#)
[Revolution-3D](#)
[CM40](#)

Social Media



Quick Contacts

John Shaw
General Manager
jshaw@marcamachine.com
p 1-207-854-8471 ext. 102
c 1-207-415-3006

Frederick Veitch
President/ CEO
fveitch@marcamfg.com
p 1-207-854-8471 ext. 121