

The Technology Consortium, Ltd.

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Manufacturing Aseptic Robotic Solutions...

We specialize in equipment, services, and system solutions that:

- ◆ Exceed your project quality requirements...
- ◆ Reduce your manufacturing and equipment expenditures...
- ◆ Are provided as specified, and on time...

Robotics for the Biotech and Pharmaceutical industries...

Robotic manufacturing has become the "Standard" for accurate Aseptic manufacturing systems. The latest generations of robots are especially tailored to the validation requirements of Biotech and Pharmaceutical production.

Current robotic systems conform to medical requirements such as CFR Part 11 for tracking and validating software. In addition, today's robots can perform the precise movements needed for small, thin, and complex parts.

Aseptic Robots for production and traceable validation.

- ◆ Robotics and vision inspection let the manufacturer inspect every vial or medical component, eliminating defects.
- ◆ Robots capture product data in real time and archive this information in the PC-based controller.
- ◆ Data-collection boards or software interpret the data, generate, and store reports to comply with traceability requirements.
- ◆ Fully Automated Isolated Robotics are ideal for discreet aseptic processes such as Fill & Finish, Cell Extraction, or any other sterile processes.



We offer custom designed aseptic automation equipment and assembly systems. We specialize in precision assembly and process equipment for the Biotech, Medical and Pharmaceutical industries.

Production and Process Equipment

Segregation & Transfer

Liquid/Solid-Dose Dispense and Pack

Package-Inspect-Case pack

Product Quality Assurance Verification

Precision Component Assembly

Form-Fill-Seal

Product Quality Inspection

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Biotech, Food, and Chemical Process Solutions...



In addition to the aforementioned Aseptic Robotic equipment, we offer process and storage equipment. Our partner companies specialize in high quality stainless steel tanks and vessels for both atmospheric and pressure applications...

We have experience and strong customer service in the Biotech, Chemical, Food, and Medical Industries...

We offer custom metal fabrication and equipment produced to the strictest standards.

We commonly produce products from stainless steel, ferrous, non-ferrous, and powder coated metals.

- ***Accurate metal fabrication of process and storage tanks & vessels.***
- ***Laser cutting, welding, and precision fabrication of ducting and sheet metal.***
- ***Custom machinery produced with specialty finishes and coatings.***



***See Next Two Pages For The "PROCESS SOLUTIONS"
PRODUCTS & SERVICES GUIDE***

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PRODUCTS:

Omega Lift Material Handling Systems

- ✓ *Omega™ Lift stationary lifters*
- ✓ *Omega™ Mover portable lifters*
- ✓ *Omega™ fork lift attachments*
- ✓ *Omega™ Hoists and Hoist attachments*
- ✓ *Omega™ Platform lifts*
- ✓ *Omega™ Blenders (drums & bins)*
- ✓ *Omega™ drum dumpers*

Miscellaneous Material Handling Equipment

- ✓ *Drum mixers and rollers*
- ✓ *Manual and powered pallet jacks*
- ✓ *Weighing pallet jacks*

Drums

- ✓ *Stainless steel & Hastelloy (For shipping and process uses)*
 - *Capacities from .75 liter through 100 gallon*
- ✓ *Plastic (For shipping and process uses)*
 - *Capacities from 5 to 55 gallon*

Drum accessories

- ✓ *Cones with discharge valves*
- ✓ *De-lumpers*
- ✓ *Discharge stations*
- ✓ *Dollys*
- ✓ *Fill tubes, silicone caps*
- ✓ *Transition pieces*

Pressure vessels in Stainless steel from 1 to 500 gallon capacity

Bins & Hoppers

- ✓ *Stainless, Hastelloy, and plastic*
- ✓ *Capacities from .75 liters through 500 gallons*
- ✓ *Discharge stations*
- ✓ *Can be manufactured to work with any existing discharge/blending system.*

Tanks

- ✓ *Stainless steel, steel, plastic and Hastelloy*
 - *Capacities from .75 liter through 3000 gallon*
 - *vertical & horizontal configurations*
 - *round, oval, square and rectangular*
 - *Pressure and atmospheric configurations*

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Environmental systems; Secondary containment pallets, flooring

Miscellaneous products

- ✓ *Control panels built to suit in stainless steel*
- ✓ *Pallets in stainless steel and aluminum*
- ✓ *"Palletainers" – caged pallets*
- ✓ *Vial trays in stainless steel and aluminum*
- ✓ *"Ergoscoops" in stainless and aluminum*
- ✓ *Vibratory feeding systems*
- ✓ *Sanitary piping systems*
- ✓ *Tables & sinks*
- ✓ *Carts – single and multi-tier*

Control and process panels and boxes

- ✓ *Electrical - NEMA 4x*
- ✓ *Air/water panels*

"Pharmaseal Scrubs"™ (world-wide patent pending)

- ✓ *Equipment covers – disposable & reusable*
- ✓ *Specialty packaging*

System Integration/Conversions

- ✓ *Containment Conversions*
 - *Modify existing equipment from varied manufacturers and integrate new equipment for contained powder processing*
- ✓ *New product/process conversions*
 - *Modify existing equipment from varied manufacturers and integrate new equipment by Process Solutions and others*

SERVICES:

Control systems design & integration

- ✓ *Troubleshooting, streamlining and integration of process equipment/powder handling controls that we can provide or that already exist at your facility*

Polishing Services

- ✓ *Polishing at our facility or at yours, capabilities to bring surfaces up to an Ra of 2 or to any level required*

Machining services

- ✓ *CNC mills and lathes, surface grinding, manual machining for prototypes and production runs*

Sheet Metal Fabrication

- ✓ *We will design and/or build to suit any sheet metal/plate applications*
- ✓ *Punching, plasma burning & laser cutting, rolling, bending, powder coating, painting*