

# CL TECHNOLOGIES

Manufacturing for the Future

1702 SE Village Green Drive  
Port St Lucie, Florida 34952  
(772) 380-1300  
[www.CLTech.com](http://www.CLTech.com)



June, 2009

## Who Are We?

- Established in Brooklyn, New York, in 1957 and relocated to Port St Lucie, Florida in 1986.
- A reliable source for producing complete kit assemblies or individual parts for your manufacturing needs utilizing a variety of processes ranging from stamping, sheet metal, welding, and machining.

# Why do business with us?

## Cost Competitive

- Low overhead operation helps to keep costs down
- Automated equipment makes C&L very efficient in labor utilization as well as material utilization
- Many customers coming back from overseas experiences
- Heavily involved with our customers during the design phase and production ramp up

## Quality Oriented

- Human resource and quality are major pillars for strength to the company
- ISO 9001 Certified - maintain consistent processes
- Established “First Piece” verification processes
- Quality Assurance using Automated measuring equipment (CMM)
- Full traceability of raw material

## Resources and Capabilities

- 42,000 sq ft facility
- 40 associates on staff
- ISO 9001 Certified
- Manufacturing
- Engineering/ Design
- Tooling
- Water jet Cutting
- Laser Cutting
- Welding
- Stamping
- CNC
- Machining/Mill/Lathe
- Quality Assurance
- Assembly
- Product Distribution

## Why do business with us?

### Delivery Advantages

- Convenient Florida Location
- Capable of being a “Dock to Stock Supplier” which alleviates the need for your company to inspect parts at receiving
- Components will be kitted and delivered Just-In-Time, thus improving inventory turns for our customers
- Domestic supplier eliminates transportation cost and simplifies logistics management

## Prototyping Support

- Convenient Central Florida Location
- Reactive, and Savvy
  - Ability to support prototyping production using CNC Laser, Water Jet and welding for quick turnaround
- Technologies Applied
  - CAD, CAM, EDM, and CNC
- Proprietary quick tooling process utilizing soft tooling techniques to execute relatively intricate and complicated shapes quickly
- Using prototyping as a mean for facilitating limited production runs

## Our customers

- Siemens Automation
- B/E Aerospace (Lenexa & Miami)
- US Doors
- Lenco Marine
- Medicepts
- Knight Armanment
- NuCo<sub>2</sub>
- Tamlite
- Solar Outdoor Lighting
- Porta Target
- Aluma Shield
- Kaman Dayron



# Our Equipment

- CNC mills w/pallet changer
- CNC lathes
- Manual Mills/Lathes
- CNC Trumph Laser Cutter
- Waterjet Cutter
- Press Brakes
- Wire EDM Machine
- 24 Stamping Presses
  - From 10 up to 250 Tons
- CMM
- Welding Equipment
- Assembly Operations
- Paint Booth



## Primary Process Summary

- Low to Mid-Volume Stamping Operations
  - 24 Presses 10-250 Tons
  - Automatic Material Feed Systems
  - Steel, Plated Steel, Copper, Aluminum
- In-House Precision Tool Fabrication
  - Wire EDM
  - Precision Grinding
  - Assortment of Manual Machines
- CNC Machining
  - 6 Vertical Mills
  - 2 Lathes
- Welding, Certified Mig & Tig
- Economical Small Volume/Prototype Sheet Metal Forming

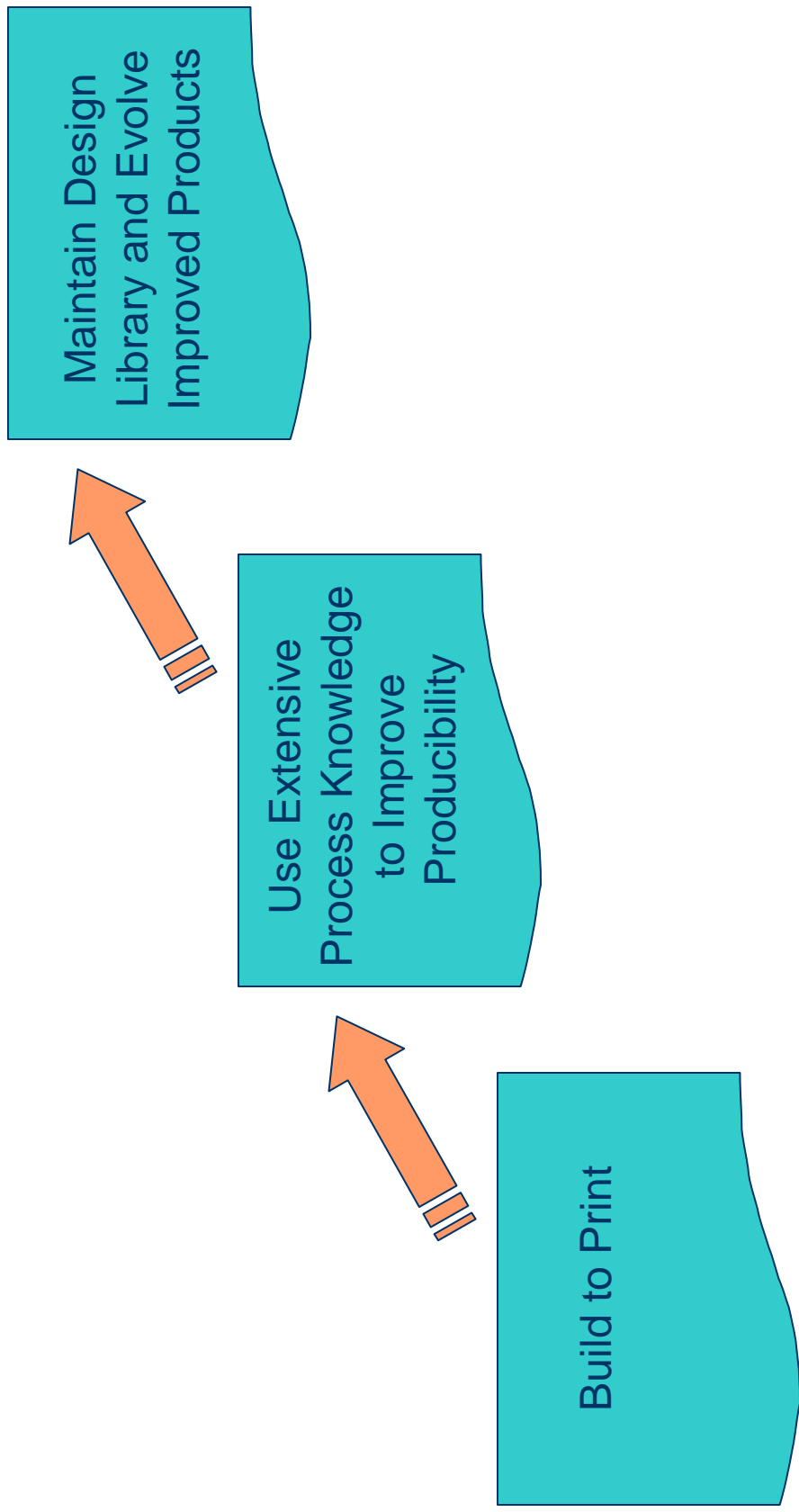
## Primary Process Summary (cont)

- **Highly Capable Material Cutting**
  - 4kW Laser with Material Handling
  - 60,000 PSI Water Jet
- **Inspection Processes**
  - Conventional Inspection Process
  - CMM (4' x 5' bed size)
  - Special Processes (Die Penetration)
- **ISO 9001 Certified**
  - ISO 9001: 2000
  - ISO 13485:2003
- **Lean Manufacturing**
  - Sub-Assemblies Staged for Point of Use Application

## Major Industry Experience

- Aerospace Components & Sub-Assemblies
- Industrial Components
- Lighting Industry
- Medical Products
- Military Components
- Firearm Ancillary Components and Systems

# Range of Design Interactions



## Capabilities

- Use Extensive Process Knowledge to Improve Productivity
- Typical cycle from startup to production approximately 6-8 weeks



- Maintain design library and evolve improved products for ease of manufacturing, and cost reduction
- Provide design and manufacturing engineering support from concept to production to support rapid product introduction to new markets

## What We Have Done For Our Customers?

- For an aircraft seat manufacturing
  - Aggressive ramp up schedule of 10 weeks from order entry to first production run
    - 1050 Kits made up of
      - 5 Sub-Assemblies
        - 40 CNC Machined Components
        - 65 Sheet Metal Components
        - Assemblies
  - Inventory Control using Kanban System
  - Dock to Stock Program
  - On-Time Delivery of 100% to a 3 day early, 0 day late window
  - Quality level of 99.997 (4.5 Sigma)

*Ability to deliver complete kits for highly regulated industries such as Aviation and Medical!*



**Aircraft Seating**



**Medical Equipment**



## What We Have Done For Our Customers?

- For a Major Lighting Component Manufacturer
  - Provided a seamless and cost effective transition from overseas production for 80% of their product line.
  - Transition from low to high volume production within three months period utilizing our tooling capabilities
  - Enabled them to be more cost competitive and reactive to the market
    - 30% cost saving
    - Significant improvement in product development cycle time went from 6-8 months to 6-8 weeks.
  - On-time delivery using our own dedicated trucks has provided a significant improvement on their Cash-to-Cash cycle for their product

## What We Have Done For Our Customers? (Cont'd)

- For the largest nationwide provider of beverage carbonation
  - We proactively resolve three major problems with one of their product
  - Provided them with a new design within two weeks and a prototype four weeks after
  - Not only provided a solution to their existing problem, but a improved and more cost effective product.

## What We Have Done For Our Customers? (Cont'd)

- For our biggest customer, a multimillion dollar, global manufacturer of power and energy company
  - Interacted with the Global Procurement Management team to coordinate the relocation of a product catalog from one of their US plant to us.
  - Able to use our skill sets to facilitate a smooth transfer of their in-house captive manufacturing to our facility.
  - Specialized in high volume of cooper and brass components
  - Over 15 years of proven tracking record for On-Time delivery and quality services

## Plenty More to Offer

- C&L has provided a variety of intangible benefits that it is hard to quantify but it has helped our customers significantly.
  - Solution Provider
  - Cad system Interface
  - Sharing best practices
  - Logistics System to meet their needs